

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9801130203 DOC. DATE: 98/01/07 NOTARIZED: NO DOCKET # 05000251
 FACIL: 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C
 AUTH. NAME: AUTHORITY AFFILIATION
 HOVEY, R.J. Florida Power & Light Co.
 RECIP. NAME: RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

See
Reports

SUBJECT: Forwards Form NIS-1, "Owners Data Rept for ISIs," Form
 NIS-2, "Owners Data Rept of Repairs & Replacements," Form
 NIS-BB, "Owners Data Rept of Eddy Current Exams," summaries
 of visual exams & functional testing of snubbers.

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JAN 07 1998

L-97-308
10 CFR 50.55a

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

Re: Turkey Point Unit 4
Docket No. 50-251
Inservice Inspection Report

Attached are the following reports for Turkey Point Unit 4 in accordance with the provisions of the ASME Code, Section XI:

Form NIS-1 Owners' Data Report for Inservice Inspections.

Form NIS-2 Owners' Data Report of Repairs and Replacements.

Form NIS-BB Owners' Data Report of Eddy Current Examinations.


Summary of Visual Examinations and Functional Testing of Snubbers.

Summary of Inservice Inspection Examinations.

Summary of System Pressure Testing.

Should there be any questions concerning this report, please contact us.

Very truly yours,


R. J. Hovey
Vice President
Turkey Point Plant

OIH

attachments

cc: L. A. Reyes, Regional Administrator, Region II, USNRC
T. P. Johnson, Senior Resident Inspector, USNRC, Turkey Point Plant

9801130203 980107
PDR ADOCK 05000251
G PDR



TURKEY POINT PLANT
UNIT 4

1997 REFUELING OUTAGE INSERVICE INSPECTION REPORT

Executive Summary

This Inservice Inspection report is for the 1997 Turkey Point Unit 4 refueling outage. This is the first outage of the second period of the third ten-year interval.

The inservice inspection summary tables detail the examinations performed during the first outage of the second period of the third ten-year interval.

The NIS-2 forms discuss the repairs and replacements which took place since the previous Unit 4 submittal and during the 1997 refueling outage.

The augmented feedwater examinations were performed. The 4B Reactor Coolant Pump had leakage around the main flange seal. The pump was disassembled and the bolting and flange surfaces were examined. A relief request was granted by the NRC to avoid pulling all the studs out of the pump casing per Code requirements.

100% of the A, B, and C steam generator tubes were eddy current tested. No tubes were plugged during this outage.

Visual examination and functional testing of snubbers was completed in accordance with ASME Section XI, as modified by Relief Request No. 4 and Technical Specifications. Visual examinations did not reveal any failures. There were no snubber failures in the safety related functional test sample.

Selected components from the reactor coolant, residual heat removal, safety injection, and chemical volume control systems were examined. No reportable indications were noted. Examinations were also performed on the steam generators.

The examinations performed exceed the minimum requirements for ISI examinations for this period.

9801130203



TURKEY POINT UNIT 4
1997 REFUELING OUTAGE

Form NIS-1 Owners' Data Report for Inservice Inspections

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

Page 1 of 7

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: 4
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date : September 7, 1973
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.	Nat'l Board No.
Reactor Pressure Vessel	Babcock and Wilcox	610-0116 4PSRV1	N/A	N-161
Steam Generator A	Westinghouse	16A-6341-1 FSGT-2991 4E210A	N/A	N-774
Steam Generator B	Westinghouse	16A-6341-2 FSGT-2992 4E210B	N/A	N-775
Steam Generator C	Westinghouse	16A-6341-3 FSGT-2993 4E210C	N/A	N-776
Reactor Coolant Pump B	Westinghouse	4P200B	N/A	N/A
Regenerative Heat Exchanger	Westinghouse	4E200	N/A	N/A
Reactor Coolant System	Bechtel	N/A	N/A	N/A
Safety Injection System	Bechtel	N/A	N/A	N/A
Chemical and Volume Control System	Bechtel	N/A	N/A	N/A



1. Owner: Florida Power & Light Company, 700 Universe Blvd. Juno Beach, Florida 33408
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3. Plant Unit: 4
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date : September 7, 1973
6. National Board Number for Unit: N/A

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	Nat'l Board No.
RHR System	Bechtel	N/A	N/A	N/A
Main Steam System	Bechtel	N/A	N/A	N/A
Main Feedwater System	Bechtel	N/A	N/A	N/A

8. Examination Dates : From 9/8/97 to 10/13/97
9. Inspection Period Identification : Second Period - 04/15/97 to 04/14/01
10. Inspection Interval Identification: Third Interval, from 04/15/94 to 04/14/04
11. Applicable Edition of Section XI 1989 Addenda none
12. Date/Revision of Inspection Plan: August 2, 1996, rev. 0
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.

An Inservice Examination of selected Class 1 and 2 components and piping systems of Florida Power and Light's (FPL) Turkey Point Unit 4 was performed during the 1997 Refueling Outage. This outage began on September 8, 1997 and ended on October 13, 1997. This was the first outage of the second period of the third ten year interval.

The components and piping systems examined were selected in accordance with the Third Ten Year Inservice Inspection Program, which was prepared in accordance with the requirements of the American Society of Mechanical Engineers (ASME) Section XI, 1989 Edition.

Manual ultrasonic, visual, magnetic particle, and liquid penetrant non-destructive techniques were used to examine components, piping, and their supports. The examinations were performed by FPL personnel, supported by examiners supplied by Raytheon Engineers & Constructors.

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4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date : September 7, 1973
6. National Board Number for Unit: N/A

Eddy Current examinations on Steam Generators A, B, and C were conducted by FPL personnel from September 18, 1997 through September 22, 1997. A total of 9609 tubes were examined. No tubes were plugged during this outage. See the attached NIS-BB report for the summary of examination results.

The Feedwater Nozzle piping augmented examinations were conducted during this outage on all three Steam Generators. The entire area from the nozzle ramp to a point one pipe diameter out on the far side of the elbow was examined with ultrasonics. No reportable indications were noted.

Snubber functional testing and visual examinations were conducted in accordance with ASME Section XI and Turkey Point Technical Specifications as allowed under Relief Request number 4. Examinations were performed by Raytheon Engineers and Constructors, Inc. and testing services were supplied by Basic-PSA, Inc. See the Snubber final report for details.

System Pressure testing was conducted by the plant to ASME Section XI and applicable Plant Procedures. See the Pressure Test final report for details.

A listing of examinations performed is attached to this summary.

Approximately one-third of the scheduled examinations for the second period were performed. The remainder of the second period examinations are scheduled for the next two refueling outages. This meets the requirements of Program B of ASME Section XI and applicable relief requests.

14. Abstract of Results of Examinations and Tests.

Class 1

Reactor Pressure Vessel

One-third of the threads in the flange were examined ultrasonically. No reportable indications were detected.

One Core Exit Thermocouple (CET) column was damaged during head removal. This CET column was removed and a dummy plug installed at the head penetration. An ultrasonic examination was performed on the plug. No reportable indications were noted.

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5. Commercial Service Date : September 7, 1973
6. National Board Number for Unit: N/A

Steam Generators

The inlet and outlet nozzle inside radius sections were examined ultrasonically. No reportable indications were detected.

Eddy Current examinations were performed on the tubing of the three Steam Generators. The results of the examinations are detailed in the NIS-BB report.

Reactor Coolant Pumps

During a system pressure test, leakage was discovered at the main flange of the 4B Reactor Coolant Pump. Boric acid accumulation was noted near two of the Reactor Coolant Pump studs. The pump was disassembled to replace the main flange gasket. A VT-1 visual examination was performed on the studs, of which 6 were removed, and 18 were examined in place. The visual examination of the studs was performed in accordance with the requirements of relief request number 19, which was approved during the outage. One stud had some mechanical damage which was dressed. No other indications were noted.

The studs were volumetrically examined, and the nuts and flange surface were visually examined. No reportable indications were noted.

The pump internal surface was not accessible when the pump was partially disassembled to replace the flange gasket. The pump diffuser, which was not removed, prevents visual examination.

Regenerative Heat Exchanger

A VT-3 visual examination was performed near the beginning of the outage to look for accumulated boric acid crystals and evidence of leakage. A VT-2 visual examination was performed during the system leakage test to look for evidence of leakage. No reportable indications were detected.

Reactor Coolant Piping

Reactor Coolant piping welds and supports were examined using surface, volumetric, and visual techniques. One support was found to have spring can settings out of tolerance. An engineering

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5. Commercial Service Date : September 7, 1973
6. National Board Number for Unit: N/A

evaluation showed the setting to be acceptable, as the wrong scale had been installed. The plant drawings will be modified. Several welds showed acceptable geometric indications. No reportable indications were noted. The bolting on one pipe flange was replaced and a baseline examination was performed.

Safety Injection Piping

Safety Injection piping welds and supports were examined using surface and visual techniques. No reportable indications were found.

Residual Heat Removal Piping

Residual Heat Removal piping welds were examined using surface and volumetric techniques. Acceptable geometric indications were noted. No reportable indications were found.

Chemical and Volume Control Piping

Chemical and Volume Control piping welds and supports were examined using surface and visual techniques. One support had missing parts and additional holes in a baseplate. This was accepted as-is by engineering evaluation. The drawing will be updated to show the as-built configuration.

One bolt on a piping flange had inadequate thread engagement. This was accepted as-is by engineering evaluation. The engineering acceptance standards will be revised to state the current criteria for thread engagement.

The mechanical connection at one pipe flange had evidence of leakage. A new gasket and new bolting were installed and baseline examinations were performed. No reportable indications were found.

Class 2

Steam Generators

Three welds and one inside radius section were examined using surface and volumetric techniques. Acceptable slag inclusions and geometric indications were found. No reportable indications were



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3. Plant Unit: 4
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date : September 7, 1973
6. National Board Number for Unit: N/A

noted.

Main Steam Piping

Main steam welds and a support were examined with volumetric, surface, and visual techniques. Acceptable geometric indications were noted. No reportable indications were found.

Main Feedwater Piping

Main Feedwater piping welds and supports were examined using surface, volumetric, and visual techniques. No reportable indications were detected.

Augmented examinations were performed on the piping off the Steam Generator Feedwater nozzles on all three loops. Inside surface roughness was noted (this has been found during each of the previous outages). No reportable indications were found.

15. Abstract of Corrective Measures

Bolting on a chemical volume control piping flange was replaced when boric acid accumulation was found at the flange.

The reactor coolant pump flange was found to be leaking during a system pressure test. The flange was disassembled and the gasket replaced.

One CET on the Reactor Pressure Vessel internals was abandoned in place after being damaged during head removal.

One FPL standard will be revised to show updated thread engagement criteria.

Every indication exceeding the acceptance criteria was evaluated by FPL Engineering to determine if it was acceptable for continued service. There were no failures that would preclude further service. However, as good practice, FPL chose to eliminate every indication that exceeded the Code acceptance criteria. If an FPL criteria was exceeded, the indications were eliminated or the criteria will be revised, as appropriate.

1. Owner: Florida Power & Light Company, 700 Universe Blvd. Juno Beach, Florida 33408
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3. Plant Unit: 4
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date : September 7, 1973
6. 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: 12/16/97 Signed: FLORIDA POWER & LIGHT By James W. [Signature]

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 or Province of Dade County, Florida, and employed by Arkwright Mutual Insurance Company of Norwood, Massachusetts, have inspected the components described in this Owner's Report during the period 9/8/97 to 10/13/97, 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 Data 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]
Inspector's Signature

NB 8230 N 1 FL 327
National Board, State,
Province, and Endorsements

Date: Dec. 9, 1997

TURKEY POINT UNIT 4

Form NIS-2 Owners' Data Report of Repairs and Replacements

Abstract

The attached NIS-2 reports detail the repair/replacement of class 1, 2, and 3 piping and components of the Florida Power and Light Company Turkey Point Unit 4. These were performed since the completion of the Spring 1996 refueling outage through the Fall 1997 refueling outage which ended October 13, 1997.

Piping and components were preservice 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", 1989 Edition with no addenda.



Report No.	Date
96-042-4	6/18/96
96-043-4	8/7/96
96-044-4	8/7/96
96-045-4	8/7/96
96-046-4	10/23/96
96-047-4	11/14/96
97-001-4	4/9/97
97-002-4	4/9/97
97-003-4	4/9/97
97-004-4	6/25/97
97-005-4	8/18/97
97-006-4	10/3/97
97-007-4	10/3/97
97-008-4	10/3/97
97-009-4	9/27/97
97-010-4	10/3/97
97-011-4	9/30/97
97-012-4	10/1/97
97-013-4	10/7/97
97-014-4	10/8/97
97-015-4	10/8/97
97-016-4	10/6/97
97-017-4	10/7/97
97-018-4	10/7/97
97-019-4	10/8/97
97-020-4	10/7/97
97-021-4	10/7/97
97-022-4	10/7/97
97-023-4	10/9/97
97-024-4	10/9/97

Report No.	Date
97-025-4	10/9/97
97-026-4	10/10/97
97-027-4	10/13/97
97-028-4	10/10/97
97-029-4	10/13/97
97-030-4	10/13/97
97-031-4	10/13/97
97-032-4	10/13/97
97-033-4	10/15/97
97-034-4	10/28/97

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

1. Owner Florida Power & Light
Name

700 Universe Blvd. Juno Beach Fl. 33408
Address

2. Plant Turkey Point Plant
Name

9700 SW 344 Street, Florida City, Fl. 33034
Address

3. Work Performed by Florida Power & Light
Name

P.O. Box 4332, Princeton, Fl. 33032
Address

Date 06/18/96

Sheet 1 of 2

Unit 4

PWO #:64/6805 WO #: 96013164

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CHEMICAL & VOLUME CONTROL System #: 46 Quality Group: B

5. (a) Applicable Construction Code B31.1 1955 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
FLOW TRANSMITTER	FOXBORO	3871393	N/A	FT-4-110 MODEL #2802-SABB-TS	UNK	Replacement	No

7. Description of Work: REPLACEMENT OF BORIC ACID EMERGENCY BORATION FLOW TRANSMITTER (FT-4-110).

8. Tests Conducted: Hydrostatic: _____, Pneumatic: _____ Nominal Operating Pressure X

Other VT-1/VT-2 Pressure 115 psig Test Temperature 95 °F



FORM NIS-2 (Back)

9. Remarks: THIS IS A 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/ACertificate of Authorization No. N/A Expiration Date N/ASigned PMM/Co Engineering Manager Date 8/27 19 96
Owner or Owner's Designee, Title

HWS

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 05/22/96 to 06/17/96 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 the 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 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]
Inspector's Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date 8/27 19 96

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

1. Owner Florida Power & Light
Name

Date 08/07/96

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/1965 WO #: 95023821

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

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

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
4-50-311, CHECK VALVE	N/A	N/A	N/A	S 87043 UTC 393116	UNK	Replacement	No
BOLT, HEAVY HEX (20)	N/A	N/A	N/A	U 87-5164 4P9A UTC 351875	UNK	Replaced	No
NUTS, SQUARE HEAD (20)	N/A	N/A	N/A	R HT# M38474 4P9A UTC 398865	UNK	Replaced	No

7. Description of Work: INSTALL NEW STUFFING BOX BEARING/CHECK VALVE ON ICW PUMP A

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-1/2 Pressure 16 psig Test Temperature 89 °F



FORM NIS-2 (Back)

9. Remarks: THIS IS A 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 Carl R. Pille Engineering Manager Date 8/27/ 19 96
 Owner or Owner's Designee, Title

1402

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 06/19/96 to 08/07/96 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 the 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 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.

Amos B. Slavit
 Inspector's Signature

Commissions NB 8230 (N)(1)
 National Board, State, Providence, and Endorsements

Date 8/27 19 96

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

1. Owner Florida Power & Light
Name

700 Universe Blvd. Juno Beach Fl. 33408
Address

2. Plant Turkey Point Plant
Name

9700 SW 344 Street, Florida City, Fl. 33034
Address

3. Work Performed by Florida Power & Light
Name

P.O. Box 4332, Princeton, Fl. 33032
Address

Date 08/07/96

Sheet 1 of 2

Unit 4
PWO #: 7250/64 WO #: 96017512 CR #: 96-898

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

Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

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

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
4-50-377 GATE VALVE	N/A	N/A	N/A	N/A	UNK	Replaced	No
4-50-377 GATE VALVE	WALWORTH, 1-1/2"	3036	N/A	UTC 308328 R 93-2642	UNK	Replacement	No

7. Description of Work: REPLACE VALVE 4-50-377 WITH SPARE.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X
Other VI-2 Pressure 6 psig Test Temperature 86 °F



FORM HIS-2 (Back)

9. Remarks: THIS IS A 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 ENM Engineering Manager Date 8/27 1996
Owner or Owner's Designee, Title

MSB

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 07/09/96 to 08/07/96 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 the 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 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]
Inspector's Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date 8/27 1996

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

1. Owner Florida Power & Light
Name

Date 08/07/96

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4

PWO #:64/3100 WO #: 95029577 CR #: 95-1061

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

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

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
FLAT BAR 1/2" X 6" X 2'	N/A	N/A	N/A	UTC396080 SUPPORT MARK#4J CARBON STEEL ASTM A-36	UNK.	Replaced	No
CHANNEL MC6 X 12 X 4' 1/2"	N/A	N/A	N/A	UTC391033 SUPPORT MARK#4J CARBON STEEL ASTM A-36	UNK.	Replaced	No

7. Description of Work: MIDDLE BRACE ON SUPPORT MARK # J REPLACED AND MODIFIED TO PRECLUDE WATER

ACCUMULATION.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

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



FORM HIS-2 (Back)

9. Remarks: ALL WELDING PERFORMED IN ACCORDANCE WITH APPROVED PLANT PROCEDURES.

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 ENR [Signature] Engineering Manager Date 8/27 19 96
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 11/03/95 to 08/07/96 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 the 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 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]
Inspectors Signature

Commissions NB 8230 (H)(I)
National Board, State, Providence, and Endorsements

Date 8/27 19 96

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

1. Owner Florida Power & Light
Name

Date 10/23/96

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4

PWO #: 7223/64 WO #: 96017245

9700 SW 344 Street, Florida City, Fl. 33034
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

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

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
CK VALVE 4-50-321 4P9B	DUO CHEK	83648	N/A	24" ASTM B-148 ALLOY 952 UTC 390411, S83648 Mod A	N/A	Replaced 10/23/96 Replacement	No

7. Description of Work: REPLACE CHECK VALVE 4-50-321 ON ICW PUMP B

8. Tests Conducted: Hydrostatic: _____ Pneumatic: X Nominal Operating Pressure _____

Other VT-1/2 Pressure 13.5 psig Test Temperature 94 °F



FORM HIS-2 (Back)

9. Remarks: THIS IS A MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair 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 *John A. Hill* Date 10/25 19 96
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 07/03/96 to 10/16/96 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 the 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 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.

James A. Hill
Inspectors Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date 10/23 19 96

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

1. Owner Florida Power & Light
Name

700 Universe Blvd. Juno Beach Fl. 33408
Address

2. Plant Turkey Point Plant
Name

9700 SW 344 Street, Florida City, Fl. 33034
Address

3. Work Performed by Florida Power & Light
Name

P.O. Box 4332, Princeton, Fl. 33032
Address

Date 11/14/96

Sheet 1 of 2

Unit 4
PWO #: 7225/64 WO #: 96017262

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

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

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
CHECK VALVE (ICW Pp C)	N/A	65500	N/A	4-50-331	UNK	Replaced	No
CHECK VALVE (ICW Pp C)	N/A	99820	N/A	4-50-331, 24" UTC 404111	UNK	Replacement	No

7. Description of Work: REPLACE CHECK VALVE FOR ICW WATER PUMP C

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-2 Pressure 15.5 psig Test Temperature 81 °F



FORM NIS-2 (Back)

9. Remarks: THIS IS A 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 ENG. MGA. Date 11/22 19 96
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 07/03/96 to 11/15/96 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 the 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 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]
Inspectors Signature

Commissions NB 8230 (N)(I)
National Board, State, Providence, and Endorsements

Date Nov. 22 19 96



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

1. Owner Florida Power & Light
Name

Date 04/09/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
WO #: 96023732

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by VSL Corporation
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

1671 Dell Ave., Campbell, CA. 95008
Address

Expiration Date N/A

4. Identification of System: Containment Building System #: 51 Quality Group: B

5. (a) Applicable Construction Code ACI 318-63, ACI 301-66 19-- Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 92 Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
Donut shim (1) 1/4"	Nova Machining Products Corp.	N/A	N/A	ASTM A576-86 Gr. 1045 LOT # 35284004	1996	Replaced	No

7. Description of Work: Added 1/4" donut shim at Unit 4 tendon 62H54 to obtain original lift-off force
after detensioning. Tendon surveillance performed under P.O. 00016055.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

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

FORM NIS-2 (Back)

9. Remarks: 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/ACertificate of Authorization No. N/A Expiration Date N/A

Signed EAM MA SP Ramon, PE 41855, Lead Civil Engineer Date 4/9 19 97
 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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/01/96 to 04/08/97 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 the 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 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]
 Inspectors Signature

Commissions NB 8230 (N)(1)
 National Board, State, Providence, and Endorsements

Date 4/9 19 97



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

1. Owner Florida Power & Light
Name

Date 04/09/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
WO #: 96023732

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by VSL Corporation
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

1671 Dell Ave., Campbell, CA. 95008
Address

Expiration Date N/A

4. Identification of System: Containment Building System #: 51 Quality Group: B

5. (a) Applicable Construction Code ACI 318-63, ACI 301-66 19-- Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 92 Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
Donut shim (1) 1/4"	Nova Machining Products Corp.	N/A	N/A	ASTM A576-86 Gr. 1045 LOT # 35284004	1996	Replaced	No
Donut shim (1) 1/8"	Nova Machining Products Corp.	N/A	N/A	ASTM A576-86 Gr. 1045 LOT # 35284003	1996	Replaced	No

7. Description of Work: Added 1/4" and 1/8" donut shims at Unit 4 tendon 1037 to obtain original lift-
off force after detensioning. Tendon surveillance performed under P.O. 00016055.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

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

FORM NIS-2 (Back)

9. Remarks: 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/ACertificate of Authorization No. N/A Expiration Date N/ASigned EPH HK SPC Lavin, PE 41BSS, Lead Ctr/Engineer Date 2/9 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/01/96 to 04/08/97 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 the 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 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.

Summit B. Blum
Inspector's Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date 4/9 19 97



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

1. Owner Florida Power & Light
Name

Date 04/09/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4

WO #: 96023732 CR #: 96-1259

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by VSL Corporation
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

1671 Dell Ave., Campbell, CA. 95008
Address

4. Identification of System: Containment Building System #: 51 Quality Group: B

5. (a) Applicable Construction Code ACI 318-63, ACI 301-66 19-- Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 92 Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
Donut shim (1) 1"	Nova Machining Products Corp.	N/A	N/A	ASH A576-86 Gr. 1045 LOT # 35284001	1996	Replaced	No

7. Description of Work: Replaced one 1" donut shim at Unit 4 tendon 35H20 due to defect in existing

shim. Tendon surveillance performed under P.O. 00016055.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

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

FORM HIS-2 (Back)

9. Remarks: 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 EAM HA S. P. Chavira, PE 41855, Lead Civil Engineer Date 4/9 19 97
 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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/01/96 to 04/08/97 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 the 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 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]
 Inspector's Signature

Commissions NB 8230 (N)(I)
 National Board, State, Providence, and Endorsements

Date 4/9 19 97



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

1. Owner Florida Power & Light
Name

Date 06/25/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/1794 WO #: 97010109

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: CVCS CHARGING AND LETDOWN System #: 47 Quality Group: A

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
STUDS W/ NUTS (6)	N/A	N/A	N/A	UTC 4000733 ASTM A193-90 STK CODE # 56928	UNK.	Replaced	No
VALVE BONNET LCV-4-460	COPE-S-VULCAN	N/A	N/A	UTC# 333455 STK CODE # 56650	UNK.	Replaced	No

7. Description of Work: REPLACE BOLTING AND BONNET ON VALVE LCV-4-460.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-1/2 Pressure 2235 psig Test Temperature 547 °F



FORM HIS-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 Samuel B. Engl System Engineering Manager Date July 3 19 97
 Owner or Owner's Designee, Title

M.B.

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 04/24/97 to 06/24/97 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 the 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 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.

Samuel B. Engl
 Inspector's Signature

Commissions NB 8230 (N)(I)
 National Board, State, Providence, and Endorsements

Date July 7 19 97

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

1. Owner Florida Power & Light
Name

Date 08/18/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/5735 WO #: 96007362

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

Expiration Date N/A

4. Identification of System: Emergency Diesel Generator System #: 22 Quality Group: C

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
PIPE, 1-1/2" 304 S.S	N/A	N/A	N/A	UTC 391417	N/A	Replaced	No
ELBOW, 1-1/2" 304 S.S.	N/A	N/A	N/A	UTC 398556	N/A	Replaced	No
VALVE, GATE S.S 1-1/2"	VOGT, HENRY, VALVES	N/A	N/A	UTC 403829	N/A	Replacement	Yes

7. Description of Work: REPLACED VALVE 4-70-376A INCLUDING PIPING AND ONE ELBOW.

8. Tests Conducted: Hydrostatic: Pneumatic: X Nominal Operating Pressure

Other VT-2 Pressure 300 psig Test Temperature >60° °F

FORM HIS-2 (Back)

9. Remarks: ALL WELDING PERFORMED IN ACCORDANCE WITH APPROVED PLANT PROCEDURES.

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 *David H. Smith* System Engineering Manager Date August 25 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period / / to / / 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 the 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 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.

William J. Allen
Inspector's Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date 8/27 19 97



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

1. Owner Florida Power & Light
Name

700 Universe Blvd. Juno Beach Fl. 33408
Address

2. Plant Turkey Point Plant
Name

9760 SW 344 Street, Florida City, Fl. 33035
Address

3. Work Performed by Florida Power & Light
Name

P.O. Box 4332, Princeton, Fl. 33032
Address

Date 10/03/97

Sheet 1 of 2

Unit 4
PWO #:64/3383 WO #: 97016288
PCM #: 97-018

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

Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

4. Identification of System: PRIMARY WATER MAKE-UP System #: 20 Quality Group: B

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
CVCS PIPING OUTSIDE CONTAINMENT AT PEN. 7	N/A	N/A	N/A	N/A	UNK	Repaired	No

7. Description of Work: PIPING MODIFICATION DUE TO PC/M 97-018. PIPING BETWEEN CONTAINMENT PENETRATION

7 AND VALVE CV-4-519A WAS CUT, SHORTENED AND REWELDED.

HYDROSTATIC TEST PERFORMED UNDER PRESSURE TEST 04-PWMU-2002-H-02.

8. Tests Conducted: Hydrostatic: X Pneumatic: Nominal Operating Pressure
Other VT-2 Pressure 195 psig Test Temperature >60 °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 Robert J. Smith Super Engineering Manager Date Oct 3 19 97
Owner or Owner's Designee, Title

44B

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 07/10/97 to 09/23/97 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 the 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 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.

James H. Smith
Inspector's Signature

Commissions NB 8230 (H)(1)
National Board, State, Providence, and Endorsements

Date Oct 6 19 97



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

1. Owner Florida Power & Light
Name

Date 10/03/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4

PWO #:64/1680 WO #: 97009562

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: REACTOR COOLANT System #: 41 Quality Group: B

5. (a) Applicable Construction Code B31.1 1955 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
BOLT, HEAVY HEX (1)	N/A	N/A	N/A	UTC 410893	UNK	Replaced	No

7. Description of Work: REPLACED ONE BOLT ON SECONDARY SIDE OF STEAM GENERATOR "C" (4E210C).

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other N/A Pressure N/A psig Test Temperature N/A °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned *Harold J. Smith* Date Oct 3 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 04/17/97 to 09/25/97 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 the 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 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.

Harold J. Smith
Inspectors Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date Oct 6 19 97



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

1. Owner Florida Power & Light
Name

Date 10/03/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/6182 WO #: 96009451 CR #: 96-452

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

Expiration Date N/A

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

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
STUDS (5)	N/A	N/A	N/A	STK CODE 29510-1, UTC 389219 CONT. THREAD	N/A	Replaced	No
NUTS (6)	N/A	N/A	N/A	STK CODE 27989-1 UTC 408128, R92-0833	N/A	Replaced	No
NUTS (2)	N/A	N/A	N/A	STK CODE 27865-1 UTC 403825 ASTM A194	N/A	Replaced	No
STUDS (2)	N/A	N/A	N/A	STK CODE 29506-1	N/A	Replaced	No
NUTS (14)	N/A	N/A	N/A	STK CODE 201784-1	N/A	Replaced	No
BUTTERFLY VALVE (36")	N/A	N/A	N/A	4-50-310 UTC 377097 STK CODE 52333-1	N/A	Replacement	No

7. Description of Work: REPLACE INTAKE COOLING WATER HEADER ISOLATION VALVE 4-50-310.

LEAKAGE TEST PERFORMED UNDER PRESSURE TEST 04-ICW-1974-L-02.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-2 Pressure 27.5 psig Test Temperature 88 °F



FORM NIS-2 (Back)

9. Remarks: THIS IS 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 David P. Amey Site Engineering Manager Date Oct 3 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 04/10/96 to 10/02/97 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 the 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 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.

James B. Blunt
Inspectors Signature

Commissions NB 8230 (N)(I)

National Board, State, Providence, and Endorsements

Date Oct 6 19 97



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

1. Owner Florida Power & Light
Name

Date 09/27/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/6074 WO #: 96008955 CR #: 96-549

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: STEAM GENERATOR System #: 71 Quality Group: B

5. (a) Applicable Construction Code 831.1 1955 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
BOLT, HEAVY HEX (11)	N/A	N/A	N/A	UTC 393567 STK CODE 15170	UNK	Replaced	No
BOLT, HEAVY HEX (5)	N/A	N/A	N/A	UTC 393627 STK CODE 15170	UNK	Replaced	No
BOLT, HEAVY HEX (2)	N/A	N/A	N/A	UTC 3933628 STK CODE 15170	UNK	Replaced	No
BOLT, HEAVY HEX (2)	N/A	N/A	N/A	UTC 368409 R 89-324	N/A	Replaced	No

7. Description of Work: REPLACED BOLTING ON THE STEAM GENERATOR SECONDARY MANWAY.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other N/A Pressure N/A psig Test Temperature N/A °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 David P. Strong, Jr., Sytek Engineering Manager Date Sept 28 19 97
 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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 04/06/96 to 09/27/97 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 the 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 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.

James B. Blum
 Inspectors Signature

Commissions NB 8230 (N)(1)
 National Board, State, Providence, and Endorsements

Date 9/29/97 19 _____



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

1. Owner Florida Power & Light
Name

700 Universe Blvd. Juno Beach Fl. 33408
Address

2. Plant Turkey Point Plant
Name

9760 SW 344 Street, Florida City, Fl. 33035
Address

3. Work Performed by Florida Power & Light
Name

P.O. Box 4332, Princeton, Fl. 33032
Address

Date 10/03/97

Sheet 1 of 2

Unit 4
PWO #: 64/4272 WO #: 97020356 CR #: 97-1400

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

Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

4. Identification of System: CHEMICAL AND VOLUME CONTROL System #: 47 Quality Group: A

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
NUT, HEAVY HEX (6)	N/A	N/A	N/A	UTC 381642 STK CODE 27829	UNK	Replaced	No
THREADED ROD 6 STUDS FABRICATED	N/A	N/A	N/A	UTC 400981 STK CODE 204436	UNK	Replaced	No

7. Description of Work: REPLACED BONNET TO BODY BOLTING. VALVE CV-4-311

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____
Other VT-1 Pressure N/A psig Test Temperature N/A °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 David P. Angel, System Engineering Manager Date Oct 3 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/13/97 to 09/30/97 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 the 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 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.

Inspector's Signature James B. BlumCommissions NB 8230 (N)(1)

National Board, State, Providence, and Endorsements

Date Oct 6 19 97



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

1. Owner Florida Power & Light
Name

Date 09/30/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/1786 WO #: 97010078 CR #: 97-789

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: REACTOR COOLANT System #: 41 Quality Group: A

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
NUTS (8)	N/A	N/A	N/A	UTC 400719 STK CODE 56776	UNK	Replaced	No
STUDS (8)	N/A	N/A	N/A	UTC 400731 STK CODE 56927	UNK	Replaced	No

7. Description of Work: REPLACEMENT OF 8 STUDS AND 8 NUTS ON BODY TO BONNET, VALVE PCV-4-455B.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other VT-1 Pressure N/A psig Test Temperature N/A °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date Oct 1 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 04/23/97 to 09/30/97 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 the 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 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.

Inspectors Signature [Signature]

Commissions

NB 8230 (N)(1)

National Board, State, Providence, and Endorsements

Date Oct 7 19 97

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

1. Owner Florida Power & Light
Name

Date 10/01/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/4282 WO #: 97020387

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

Expiration Date N/A

4. Identification of System: CHEMICAL AND VOLUME CONTROL SYST System #: 47 Quality Group: A

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
STUD, CARBON STEEL (12)	N/A	N/A	N/A	UTC 352606	UNK	Replaced	No

7. Description of Work: 12 STUDS REPLACED ON VALVE 4-312B BODY TO BONNET.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other VT-1 Pressure N/A psig Test Temperature N/A °F

FORM HIS-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 repair 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 *D. P. Smith, Sr.* *Sr. Engineering Manager* Date *Oct 1* 19*97*
 Owner or Owner's Designee, Title

UWB

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/13/97 to 10/01/97 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 the 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 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.

James H. Blue
 Inspectors Signature

Commissions NB 8230 (N)(1)
 National Board, State, Providence, and Endorsements

Date *10/3* 19*97*

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

1. Owner Florida Power & Light
Name

Date 10/07/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4

PWO #:64/3535 WO #: 97016996

PCM #: 97-012

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: PRIMARY WATER MAKE-UP System #: 20 Quality Group: B

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
TEE, UNION	N/A	N/A	N/A	UTC 356369	UNK	Replacement	No
REDUCER, INSERT	N/A	N/A	N/A	UTC 412582	UNK	Replacement	No

7. Description of Work: INSTALLATION OF A 2" TEE FOR RV-4-302 PER PC/M 97-012. CODE CASE N-416-1 WAS

ENVOKED FOR THIS REPLACEMENT ACTIVITY.

LEAKAGE TEST PERFORMED UNDER PRESSURE TEST 04-PWMU-2005-L-02.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-2 Pressure 180 psig Test Temperature 72 °F

FORM NIS-2 (Back)

9. Remarks: ALL WELDING PERFORMED IN ACCORDANCE WITH APPROVED PLANT PROCEDURES. CODE CASEN-416-1 WAS ENVOCKED FOR THIS REPLACEMENT ACTIVITY.

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/ACertificate of Authorization No. N/A Expiration Date N/ASigned *Donald M. Smyth Jr. Syde Agency Manager* Date Oct 7 19 97
Owner or Owner's Designee, Title

W3

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 07/31/97 to 10/03/97 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 the 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 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.

Wm B. Blunt
Inspectors SignatureCommissions NB 8230 (N)(1)

National Board, State, Providence, and Endorsements

Date Oct 7 19 97



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

1. Owner Florida Power & Light
Name

Date 10/08/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/2579 WO #: 97009268

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: SERVICE AIR System #: 13 Quality Group: B

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
VALVE, SWING CHECK	LADISH	N/A	N/A	UTC 413039 STK CODE 182361	UNK	Replacement	No
PIPE, CARBON STEEL	N/A	N/A	N/A	UTC 411979 STK CODE 30626	UNK	Replacement	No
TEE	N/A	N/A	N/A	UTC 336003 STK CODE 34251	UNK	Replacement	No

7. Description of Work: REPLACE VALVE 4-40-205. CODE CASE N-416-1 WAS ENVOCKED FOR THIS REPLACEMENT

ACTIVITY.

LEAKAGE TEST PERFORMED UNDER PRESSURE TEST 04-SA-1301-L-01.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-2 Pressure 80 psig Test Temperature 75 °F

FORM NIS-2 (Back)

9. Remarks: ALL WELDING PERFORMED IN ACCORDANCE WITH APPROVED PLANT PROCEDURES. CODE CASE N-416-1 WAS ENVOCKED FOR THIS REPLACEMENT ACTIVITY.

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 Samuel J. Fitzgerald, Sr. Sr. Engineer, Manager Date Oct 8 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 05/30/97 to 10/03/97 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 the 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 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.

Inspector's Signature Samuel J. Fitzgerald, Sr.

Commissions

NB 8230 (N)(1)

National Board, State, Providence, and Endorsements

Date Oct 8 19 97

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

1. Owner Florida Power & Light
Name

Date 10/08/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/0033 WO #: 96031001

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: REACTOR COOLANT System #: 41 Quality Group: A

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
SCREW, CAP (12)	N/A	N/A	N/A	UTC 412440 STK CODE 71232	UNK	Replaced	No
SCREW, CAP (18)	N/A	N/A	N/A	UTC 412439 STK CODE 71233	UNK	Replaced	No

7. Description of Work: REPLACED (18) BOLTS IN NUMBER ONE SEAL HOUSING AND 12 BOLTS IN NUMBER 3 RING

CLAMP. REACTOR COOLANT PUMP "C" (4P200C).

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other VT-1 Pressure N/A psig Test Temperature N/A °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned Paul M. Angell, System Engineering Manager Date Oct 8 19 97
Owner or Owner's Designee, Title

HUB

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 02/05/97 to 10/07/97 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 the 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 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.

William B. Blunt
Inspectors Signature

Commissions NB 8230 (H)(I)
National Board, State, Providence, and Endorsements

Date Oct 8 19 97

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

1. Owner Florida Power & Light
Name

Date 10/06/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/4440 WO #: 97021184

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

Expiration Date N/A

4. Identification of System: REACTOR COOLANT System #: 41 Quality Group: A

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
NUT, HEAVY HEX (8)	N/A	N/A	N/A	UTC 409564 STK CODE 27840	UNK	Replaced	No
ROD, THREADED (4) STUDS FABRICATED	N/A	N/A	N/A	UTC 393388 STK CODE 29501	UNK	Replaced	No

7. Description of Work: REPLACED (8) NUTS AND (4) STUDS ON SEAL INJECTION FLANGE #1, REACTOR COOLANT

PUMP "A" 4P200A.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other VT-1 Pressure N/A psig Test Temperature N/A °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned *David M. May* Date *Oct 7* 19*97*
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/27/97 to 10/06/97 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 the 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 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.

David M. May
Inspector's SignatureCommissions NB 8230 (N)(I)
National Board, State, Providence, and EndorsementsDate *Oct 7* 19*97*



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

1. Owner Florida Power & Light
Name

Date 10/07/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/4466 WO #: 97021348

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: RESIDUAL HEAT REMOVAL System #: 50 Quality Group: B

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
NUTS (HEAVY HEX - 16)	N/A	N/A	N/A	STK CODE 27987 CARBON S UTC 352445	UNK	Replaced	No

7. Description of Work: REPLACE BOLTING DURING STEM REPLACEMENT ON MOV-4-744A

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

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

FORM NIS-2 (Back)

9. Remarks: THIS IS A 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/ACertificate of Authorization No. N/A Expiration Date N/ASigned *Donald J. Smith, Supt. Engineering Manager* Date Oct 7 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/25/97 to 10/07/97 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 the 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 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.

Samuel H. Black
Inspectors SignatureCommissions NB 8230 (N)(1)
National Board, State, Providence, and EndorsementsDate 10/16 19 97



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

1. Owner Florida Power & Light
Name

Date 10/07/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/6787 WO #: 96013011 CR #: 96-532

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: CONTAINMENT AIRLOCK/HATCH System #: 51 Quality Group: B

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
BOLTS (20)	N/A	N/A	N/A	STK CODE 15135 1" 8x6" UTC 399144 R 92-1969	UNK	Replaced	No
NUTS (40)	N/A	N/A	N/A	STK CODE 44572 UTC 394551 ASTM A19	UNK	Replaced	No
WASHERS (46)	N/A	N/A	N/A	STK CODE 15990	UNK	Replaced	No

7. Description of Work: REPLACE BOLTING ON THE EQUIPMENT HATCH.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other VT-1 Pressure N/A psig Test Temperature N/A °F



FORM NIS-2 (Back)

9. Remarks: THIS IS A MECHANICAL CONNECTION, NO WELDING IS 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 *David M. Strong, Jr. Sytle Engineering Manager* Date *Oct 7* 19*97*
Owner or Owner's Designee, Title

MWB

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 05/24/96 to 10/07/97 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 the 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 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.

James H. Black
Inspectors Signature

Commissions NB 8230 (N)(I)
National Board, State, Providence, and Endorsements

Date *Oct 7* 19*97*

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

1. Owner Florida Power & Light
Name

Date 10/08/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/3854 WO #: 97018332

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

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

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
VALVE, 8" GATE	CRANE	N/A	N/A	UTC 352652 STK CODE 52836	UNK	Replacement	No

7. Description of Work: REPLACED VALVE 4-50-345.

LEAKAGE TEST PERFORMED UNDER PRESSURE TEST 04-1CW-1951-L-04.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X
Other VT-2 Pressure 70 psig Test Temperature 83 °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned Dan M. Smith, System Engineering Manager Date Oct 8 1997
Owner or Owner's Designee, Title

N/A

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 08/07/97 to 10/07/97 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 the 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 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.

Amie B. Glaser
Inspectors Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date Oct 8 1997



FORM NIS-2 (Back)

9. Remarks: THIS IS A 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 *Donald J. Smyth, Sr. Design Manager* Date Oct 7 19 97
Owner or Owner's Designee, Title

MS

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 11/21/96 to 10/07/97 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 the 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 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.

Donald J. Smyth, Sr.
Inspectors Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date Oct 7 19 97

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

1. Owner Florida Power & Light
Name

Date 10/07/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/8904 WO #: 96030527

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: COMPONENT COOLING WATER System #: 30 Quality Group: C

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
NUTS (36)	N/A	N/A	N/A	STK CODE 27837 ASTM A-194 GR 7, UTC 412015	UNK	Replaced	No
STUDS (24)	N/A	N/A	N/A	CONTINUOUS TREADED ROD STK CODE 29493	UNK	Replaced	No

7. Description of Work: REPLACED 24 STUDS AND 36 NUTS ON 4E207C CCW HEAT EXCHANGER.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

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

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

1. Owner Florida Power & Light
Name

Date 10/07/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/4278 WO #: 97020328

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: CHEMICAL AND VOLUME CONTROL System #: 47 Quality Group: A

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
NUTS (6)	N/A	N/A	N/A	HEAVY HEX, STK CODE 27829 UTC 381642	UNK	Replaced	No
STUDS (6)	N/A	N/A	N/A	CONTINUOUS THREADED ROD UTC 400981 STK CDE 204436	UNK	Replaced	No

7. Description of Work: REPLACED BONNET TO BODY BOLTING ON CHARGING TO REACTOR COOLANT LOOP C

CONTROL VALVE CV-4-310B.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other VT-1 Pressure N/A psig Test Temperature N/A °F



FORM NIS-2 (Back)

9. Remarks: THIS IS A 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 *Dan J. Zyl* *Syke Engineering Manager* Date *Oct 7* 19 *97*
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/13/97 to 10/07/97 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 the 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 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.

James B. Blair
Inspectors Signature

Commissions NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date *Oct 7* 19 *97*



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

1. Owner Florida Power & Light
Name

Date 10/07/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4

PWO #: 64/2917 WO #: 97012406

PCM #: 96-093

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: COMPONENT COOLING WATER System #: 30 Quality Group: C

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
4T216	VARIOUS	VARIOUS	N/A	CCW HEAD TANK MODIFICATION	VAR.	Replacement	No

7. Description of Work: ADDITION OF CCW HEAD TANK AND ASSOCIATED PIPING, FITTINGS, SUPPORTS AND VALVES

PER PC/M 96-093. CODE CASE N-416-1 WAS ENVOCKED FOR THIS MOOIFICATION. HYDROSTATIC PRESSURE TEST

04-CCW-30230-H-01 AND LEAKAGE PRESSURE TEST 04-CCW-30231-L-01 WERE PERFORMED FOR THE CODE CASE AND

THE PC/M.

* SEE INDIVIDUAL PRESSURE TEST PACKAGES FOR TEST PARAMETERS.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other VT-1/2/3 Pressure * psig Test Temperature * °F

FORM NIS-2 (Back)

9. Remarks: ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL. CODE CASEN-416-1 ENVOCKED FOR THIS MODIFICATION.

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/ACertificate of Authorization No. N/A Expiration Date N/ASigned David R. Smith, System Engineering Manager Date Oct 7 19 97
Owner or Owner's Designee, Title

MWB

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 06/11/97 to 10/07/97 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 the 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 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.

Inspector's Signature

Commissions NB 8230 (N)(1)

National Board, State, Providence, and Endorsements

Date Oct 8 19 97



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

1. Owner Florida Power & Light
Name

Date 10/09/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/8900 WO #: 96030522

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: COMPONENT COOLING WATER System #: 30 Quality Group: C

5. (a) Applicable Construction Code 831.1 1955 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
ROD, THREADED (34) STUDS FABRICATED	N/A	N/A	N/A	UTC 412041 STK CODE 29493	UNK	Replaced	No
NUT, HEAVY HEX (4)	N/A	N/A	N/A	UTC 393249 STK CODE 27837	UNK	Replaced	No
CAP SCREW (4)	N/A	N/A	N/A	UTC 373840 STK CODE 27122	UNK	Replaced	No

7. Description of Work: REPLACED CHANNEL HEAD STUDS (34), CHANNEL HEAD NUTS (4), CHANNEL HEAD CAP

SCREWS (4) ON CCW HEAT EXCHANGER "A" (4E207A).

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

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



FORM HIS-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/ACertificate of Authorization No. N/A Expiration Date N/ASigned David J. Thomas, System Engineering Manager Date Oct 9 19 97
Owner or Owner's Designee, Title

443

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 11/21/96 to 10/08/97 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 the 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 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.

Inspector's Signature James G. Blunt

Commissions

NB 8230 (N)(I)

National Board, State, Providence, and Endorsements

Date Oct 9 19 97

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

1. Owner Florida Power & Light
Name

Date 10/09/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/1673 WO #: 97009469

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: REACTOR VESSEL System #: 43 Quality Group: A

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
ROD, THREADED 1 STUD FABRICATED	N/A	N/A	N/A	UTC 403918 STK CODE 27838	UNK	Replaced	No
NUT, HEAVY HEX (2)	N/A	N/A	N/A	UTC 393607 STK CODE 27838	UNK	Replaced	No

7. Description of Work: REPLACED 1 STUD AND 2 NUTS ON RO-4-6316.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other VT-1 Pressure N/A psig Test Temperature N/A °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 Samuel J. Fitzgerald System Engineering Manager Date Oct 9 1997
Owner or Owner's Designee, Title

MB

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 04/16/97 to 10/09/97 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 the 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 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.

Inspector's Signature James B. GlenCommissions NB 8230 (N)(I)
National Board, State, Providence, and EndorsementsDate 10/9 1997



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

1. Owner Florida Power & Light
Name

Date 10/09/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/4611 WO #: 97021869

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: COMPONENT COOLING WATER System #: 30 Quality Group: C

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
ROD, THREADED 16 STUDS FABRICATED	N/A	N/A	N/A	UTC 412041 STK CODE 29493	UNK	Replaced	No
NUT, HEAVY HEX (9)	N/A	N/A	N/A	UTC 370712 STK CODE 27835	UNK	Replaced	No
NUT, HEAVY HEX (12)	N/A	N/A	N/A	UTC 391013 STK CODE 27835	UNK	Replaced	No

7. Description of Work: REPLACED (16) STUDS AND 21 OUT OF 32 NUTS ON VALVE 4-772.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other N/A Pressure N/A psig Test Temperature N/A °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned Robert J. Smith, System Engineering Manager Date Oct 9 1997
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 10/01/97 to 10/09/97 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 the 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 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.

James S. Blackman
Inspectors Signature

Commissions NB 8230 (H)(I)
National Board, State, Providence, and Endorsements

Date Oct 9 1997



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

1. Owner Florida Power & Light
Name

700 Universe Blvd. Juno Beach FL. 33408
Address

Date 10/10/97

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

9760 SW 344 Street, Florida City, FL. 33035
Address

Unit 4

PWO #: 64/4335 WO #: 97020615

PCH #: 97-041

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

3. Work Performed by Florida Power & Light
Name

P.O. Box 4332, Princeton, FL. 33032
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System: REACTOR VESSEL System #: 43 Quality Group: A

5. (a) Applicable Construction Code 831.1 1955 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp
4T237 RX PRESSURE VESSEL	BABCOCK & WILCOX	610-0116	N-161	CET MECHANICAL PLUG	1970	Replaced	Yes/No Yes

7. Description of Work: REMOVED CORE EXIT THERMOCOUPLE COLUMN ON THE RX VESSEL HEAD AND REPLACED WITH A
MECHANICAL PLUG.

LEAKAGE TEST PERFORMED UNDER 04-RCS-4111-L-02.

8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure X

Other PT, UT, VT-2 Pressure 2280 psig Test Temperature 540 °F



FORM HIS-2 (Back)

9. Remarks: THIS IS A MECHANICAL CONNECTION, NO WELDING WAS 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 Daniel J. Finnerly, Jr. Sytek Engineering Manager Date Oct 15 19 97
Owner or Owner's Designee, Title

W3

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/18/97 to 10/10/97 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 the 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 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]
Inspectors Signature

Commissions. NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date 10/16 19 97



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

1. Owner Florida Power & Light
Name

Date 10/13/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/2375 WO #: 97012200

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

4. Identification of System: CVCS CHARGING AND LETDOWN System #: 47 Quality Group: B

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
VALVE, RELIEF	CROSBY GAGE & FITTING	N82705-00-0002	N/A	RV-4-203	UNK	Replaced	No
VALVE, RELIEF	CROSBY GAGE & FITTING	N82705-00-0004	N/A	RV-4-203 UTC-409727 STK CODE 103076	UNK	Replacement	No

7. Description of Work: RELIEF VALVE RV-4-203 REPLACED WITH SPARE.

LEAKAGE TEST PERFORMED UNDER PRESSURE TEST 04-CVCS-4757-L-02.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-2 Pressure NOM psig Test Temperature NOM °F



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FORM HIS-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/ACertificate of Authorization No. N/A Expiration Date N/ASigned Daniel J. Smyth, System Engineering Manager Date Oct 15 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 05/19/97 to 10/10/97 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 the 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 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.


Inspectors Signature
Commissions NB 8230 (N)(I)

National Board, State, Providence, and Endorsements

Date 10/16 19 97

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

1. Owner Florida Power & Light
Name

700 Universe Blvd. Juno Beach FL. 33408
Address

2. Plant Turkey Point Plant
Name

9760 SW 344 Street, Florida City, FL. 33035
Address

3. Work Performed by Florida Power & Light
Name

P.O. Box 4332, Princeton, FL. 33032
Address

Date 10/10/97

Sheet 1 of 2

Unit 4
PWO #:64/8409 WO #: 96026825

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CHEMICAL AND VOLUME CONTROL System #: 47 Quality Group: B

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
2" PIPE, 316 S.S.	N/A	N/A	N/A	UTC 374074 STK CODE 0030938	UNK	Replacement	No
ELBOW, 2"	N/A	N/A	N/A	UTC 353236 STK CODE 0034889	UNK	Replacement	No
VALVE, 2"	N/A	N/A	N/A	UTC 0052484 STK CODE 0052484	UNK	Replacement	No

7. Description of Work: REPLACED PIPING, FITTING, AND VALVE 4-1317. CODE CASE N-416-1 WAS ENVOCKED FOR

THIS REPLACEMENT ACTIVITY.

LEAKAGE TEST PERFORMED UNDER PRESSURE TEST 04-CVCS-4761-L-03.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X
Other VT-2 Pressure 2400 psig Test Temperature 99 °F



FORM NIS-2 (Back)

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

N-416-1 WAS ENVOCKED FOR THIS REPLACEMENT ACTIVITY.

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 Donald J. Stangl, System Engineering Manager Date Oct 15 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 10/08/96 to 10/10/97 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 the 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 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.

James B. Stangl
Inspectors Signature

Commissions

NB 8230 (N)(1)
National Board, State, Providence, and Endorsements

Date 10/14 19 97

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

1. Owner Florida Power & Light
Name

Date 10/13/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/0040 WO #: 96031071

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

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

5. (a) Applicable Construction Code 831.1 1955 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
VALVE, RELIEF	CROSBY VALVE & GAGE	H51249-1579	N/A	RV-4-4551A	UNK	Replaced	No
VALVE, RELIEF	CROSBY VALVE & GAGE	N69877-01-0009	N/A	RV-4-4551A STK CODE 53561	UNK	Replacement	No
ROD, THREADED (8) STUDS FABRICATED	N/A	N/A	N/A	STK CODE 29507 UTC 398175	UNK	Replaced	No

7. Description of Work: RELIEF VALVE RV-4-551A REPLACED WITH SPARE, (8) STUDS REPLACED.

LEAKAGE TEST PERFORMED UNDER 04-RCS-4111-L-02

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-1/2 Pressure 2280 psig Test Temperature 540 °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned Samuel P. Strong, Sr. Engineering Manager Date Oct 15 - 19 97
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 11/27/97 to 10/13/97 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 the 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 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.

Samuel P. Strong
Inspectors Signature

Commissions NB 8230 (H)(I)
National Board, State, Providence, and Endorsements

Date 10/16 19 97



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

1. Owner Florida Power & Light
Name

Date 10/13/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/0594 WO #: 94026177 CR #: 94-1016

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

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

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
BONNET, VALVE	VELAN	N/A	N/A	UTC 393296 STK CODE 198312	UNK	Replaced	No
NUT (2)	N/A	N/A	N/A	UTC 393252 STK CODE 27963	UNK	Replaced	No
NUT, (2)	N/A	N/A	N/A	UTC 412017 STK CODE 27963	UNK	Replaced	No

7. Description of Work: REPLACED BONNET AND (4) NUTS ON MOV-4-536.

LEAKAGE TEST PERFORMED UNDER PRESSURE TEST 04-RCS-4111-L-02.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-2 Pressure 2280 psig Test Temperature 540 °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 Donald P. Fitzgerald, Sr. Engineering Manager Date Oct 15 19 97
Owner or Owner's Designee, Title

HNB

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 06/06/95 to 10/13/97 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 the 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 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.

Inspector's Signature Donald P. Fitzgerald, Sr.

Commissions

NB 8230 (N)(I)

National Board, State, Providence, and Endorsements

Date 10/16 19 97



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

1. Owner Florida Power & Light
Name

Date 10/13/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4

PWO #:64/0043 WO #: 96031085

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

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

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
VALVE, RELIEF	CROSBY VALVE & FITTING	H51249-1581	N/A	RV-4-551C	UNK	Replaced	No
VALVE, RELIEF	CROSBY VALVE & FITTING	H51249-1580	N/A	RV-4-551C STK CODE 11014	UNK	Replacement	No

7. Description of Work: REMOVED RV-4-551C AND REPLACE WITH SPARE.

LEAKAGE TEST PERFORMED UNDER 04-RCS-4111-L-02.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-2 Pressure 2280 psig Test Temperature 540 °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned Donald R. Smith, Sr. Sr. Equipment Manager Date Oct 15 1997
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 11/27/96 to 10/13/97 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 the 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 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.


Inspectors Signature
Commissions NB 8230 (N)(1)
National Board, State, Providence, and EndorsementsDate 10/16 1997

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

1. Owner Florida Power & Light
Name

Date 10/13/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/0042 WO #: 96031082

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

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

5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
VALVE, RELIEF	CROSBY VALVE & FITTING	N69877-00-0004	N/A	RV-4-551B	UNK	Replaced	No
VALVE, RELIEF	CROSBY VALVE & FITTING	N69877-01-0008	N/A	RV-4-551B STK CODE 11014	UNK	Replacement	No

7. Description of Work: REMOVED RV-4-551B AND REPLACED WITH SPARE.

LEAKAGE TEST PERFORMED UNDER 04-RCS-4111-L-02.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure X

Other VT-2 Pressure 2280 psig Test Temperature 540 °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/ACertificate of Authorization No. N/A Expiration Date N/ASigned David R. Engel, Sytek Engineering Manager Date Oct 15 1997
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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 11/27/96 to 10/13/97 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 the 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 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.

Inspector's Signature [Signature]Commissions NB 8230 (N)(I)

National Board, State, Providence, and Endorsements

Date 10/16 1997

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

1. Owner Florida Power & Light
Name

Date 10/15/97

700 Universe Blvd. Juno Beach Fl. 33408
Address

Sheet 1 of 2

2. Plant Turkey Point Plant
Name

Unit 4
PWO #:64/0559 WO #: 97001258

9760 SW 344 Street, Florida City, Fl. 33035
Address

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

3. Work Performed by Florida Power & Light
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

P.O. Box 4332, Princeton, Fl. 33032
Address

Expiration Date N/A

4. Identification of System: MAIN STEAM System #: 72 Quality Group: B

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
NUT, HEAVY HEX (8)	N/A	N/A	N/A	UTC 352456 STK CODE 27993	UNK	Replaced	No
HINGE PIN STUD (7)	N/A	N/A	N/A	UTC 400461 STK CODE 28032	UNK	Replaced	No
HINGE PIN STUD (1)	N/A	N/A	N/A	UTC 370210 STK CODE 28032	UNK	Replaced	No
NUT, HEAVY HEX (8)	N/A	N/A	N/A	UTC 353685 STK CODE 28832	UNK	Replaced	No

7. Description of Work: REPLACED (8) HINGE PIN STUDS, (8) HINGE PIN NUTS, AND (8) BONNET NUTS ON

POV-4-2606.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other N/A Pressure N/A psig Test Temperature N/A °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 Donald P. Fonght System Engineering Manager Date Oct 15 19 97
 Owner or Owner's Designee, Title

MSZ

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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 01/16/97 to 10/14/97 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 the 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 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.

James B. Blane
 Inspectors Signature

Commissions NB 8230 (N)(I)
 National Board, State, Providence, and Endorsements

Date 10/16 19 97



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

1. Owner Florida Power & Light
Name

700 Universe Blvd. Juno Beach FL. 33408
Address

2. Plant Turkey Point Plant
Name

9760 SW 344 Street, Florida City, FL. 33035
Address

3. Work Performed by Florida Power & Light
Name

9760 SW 344 Street, Florida City, FL 33035
Address

Date 10/28/97

Sheet 1 of 2

Unit 4
PWO #:64/1555 WO #: 97008699 CR #: 97-1665

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

Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

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

5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
ROD, THREADED 2 STUDS FABRICATED	N/A	N/A	N/A	STK CODE 29510 UTC 412858	UNK	Replaced	No
NUT, HEAVY HEX (2)	N/A	N/A	N/A	STK CODE 54153 UTC 396743	UNK	Replaced	No

7. Description of Work: REPLACED (2) STUDS AND (2) NUTS DURING INTAKE COOLING WATER CRAWL THRU.

8. Tests Conducted: Hydrostatic: _____ Pneumatic: _____ Nominal Operating Pressure _____

Other N/A Pressure N/A psig Test Temperature N/A °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/ACertificate of Authorization No. N/A Expiration Date N/A

Signed *David P. Smyeeshi* Date Oct 28 1997
 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 or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 04/09/97 to 10/28/97 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 the 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 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.

David P. Smyeeshi
 Inspector's Signature

Commissions NB 8230 (N)(1)
 National Board, State, Providence, and Endorsements

Date Oct 29 1997

TURKEY POINT UNIT 4
1997 REFUELING OUTAGE

Form NIS-BB Owners' Data Report of Eddy Current Examinations

FORM NIS-BB OWNERS' DATA REPORT FOR EDDY CURRENT EXAMINATION RESULTS

As required by the provisions of the ASME CODE RULES

EDDY CURRENT EXAMINATION RESULTS

PLANT: Turkey Point Unit 4

EXAMINATION DATE: September 18, 1997 thru September 22, 1997

STEAM GENERATOR	TOTAL TUBES INSPECTED	TOTAL TUBES		TUBES PLUGGED AS PREVENTIVE MAINTENANCE	TUBES PLUGGED THIS OUTAGE	TOTAL PLUGGED TUBES IN S/G
		20% - 39%	>40% & VOL			
4E210A	3198	0	0	0	0	16
4E210B	3206	2 (1)	0	0	0	8
4E210C	3205	4 (1)	0	0	0	9

LOCATION OF INDICATIONS
(20% - 100% & VOL)

STEAM GENERATOR	AVB BARS	SUPPORT LOCATIONS 1 THROUGH 6		FREESPAN 6H thru 6C	TOP OF TUBESHEET TO 1st SUPPORT		TOTAL NUMBER OF INDICATIONS	
		COLD LEG	HOT LEG	U-BEND	COLD LEG	HOT LEG	20% - 39%	>40% & VOL
4E210A	0	0	0	0	0	0	0	0
4E210B	2 (1)	0	0	0	0	0	2 (1)	0
4E210C	4 (1)	0	0	0	0	0	4 (1)	0

Remarks:

- (1) Mechanical wear damage at Anti-vibration Bars (AVB) was depth sized using qualified bobbin coil sizing technique.

Date: 10/7/97Prepared by: A. Montalvo R.
S/G Eddy Current CoordinatorDate: 10/13/97Reviewed by: John P. Cleland
CSI Inspections SupervisorDate: 10/13/97Reviewed by: Mary L. Boyers
CSI S/G Technical Specialist

CUMULATIVE DISTRIBUTION SUMMARY
TURKEY POINT UNIT # 4
09/97

COMPONENT : S/G A

Page : 1
Date : 09/24/97

Examination Dates : 09/18/97 thru 09/22/97

Total Number of Tubes Inspected: 3198

Total Indications

Between 20% and 39%: 0
Greater than or equal to 40%: 0
Total Corrosion type Indications "VOL" 0

Total Tubes Plugged as Preventive Maint : 0
Total Tubes Plugged: 0

Location Of Indications 20% to 100% & "VOL"

Hot Leg		Cold Leg	
TSH -.5 to 01H -2.1 :	0	TSC -.5 to 01C -2.1 :	0
01H -2.0 to 06H +2.0 :	0	01C -2.0 to 06C +2.0 :	0
06H +2.1 to AV1 -3.1 :	0	06C +2.1 to AV4 -3.1 :	0
AV1 -3.0 to AV4 -3.0 :	0		



CUMULATIVE DISTRIBUTION SUMMARY
TURKEY POINT UNIT # 4
09/97

COMPONENT : S/G B

Page : 1
Date : 09/24/97

Examination Dates : 09/18/97 thru 09/22/97

Total Number of Tubes Inspected 3206

Total Indications

Between 20% and 39%	2
Greater than or equal to 40% ...	0
Total Corrosion type Indications "VOL"	0

Total Tubes Plugged as Preventive Maint :	0
Total Tubes Plugged	0

Location Of Indications 20% to 100% & "VOL"

Hot Leg		Cold Leg	
TSH -.5 to 01H -2.1 :	0	TSC -.5 to 01C -2.1 :	0
01H -2.0 to 06H +2.0 :	0	01C -2.0 to 06C +2.0 :	0
06H +2.1 to AV1 -3.1 :	0	06C +2.1 to AV4 -3.1 :	0
AV1 -3.0 to AV4 -3.0 :	2		

INDICATIONS/TRENDING REPORT

PTN-4

OUTAGE : 09/97

COMPONENT : S/G B

DESCRIPTION : 20% to 39% Indications

Page : 1

Date : 10/10/97

Time : 08:29:51

-----+-----														
			Extent					09/97					H/A	
Row	Col	Leg	***	Tst/Note	Reel	Probe	Location	Volts	Deg	Ch	%	Diff	Location	Volts
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+														
23	50	C		TEH PS	BC044	A-720-M/ULC	AV3 -.2	.5		P 2	26			
30	65	C		TEH PS	BC033	A-720-M/ULC	AV2 -.1	.6		P 2	20			
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+														

Number of RECORDS Selected from Current Outage : 2

Number of TUBES Selected from Current Outage : 2

CUMULATIVE DISTRIBUTION SUMMARY
TURKEY POINT UNIT # 4
09/97

COMPONENT : S/G C

Page : 1
Date : 09/24/97

Examination Dates : 09/18/87 thru 09/22/97

Total Number of Tubes Inspected: 3205

Total Indications

Between 20% and 39%	4
Greater than or equal to 40% ...:	0
Total Corrosion type Indications "VOL"	0

Total Tubes Plugged as Preventive Maint :	0
Total Tubes Plugged	0

. Location Of Indications 20% to 100% & "VOL"

Hot Leg		Cold Leg	
TSH -.5 to 01H -2.1 :	0	TSC -.5 to 01C -2.1 :	0
01H -2.0 to 06H +2.0 :	0	01C -2.0 to 06C +2.0 :	0
06H +2.1 to AV1 -3.1 :	0	06C +2.1 to AV4 -3.1 :	0
AV1 -3.0 to AV4 -3.0 :	4		

INDICATIONS/TRENDING REPORT

PTN-4

OUTAGE : 09/97

COMPONENT : S/G C

DESCRIPTION : 20% to 39% Indications

Page : 1 ;

Date : 10/10/97

Time : 08:30:42

			Extent					09/97					N/A			
Row	Col	Leg	***	Tst/Note	Reel	Probe	Location	Volts	Deg	Ch	%	Diff	Location	Volts	Deg	%
22	7	C		TEH SC	CC022	A-720-M/ULC	AV2 1.9	.3		P 2	21					
32	16	C		TEH PS	CC024	A-720-M/ULC	AV2 .0	.3		P 2	22					
35	31	C		TEH PS	CC043	A-720-M/ULC	AV2 .0	.4		P 2	21					
13	43	H		TEC SS	CH001	A-720-M/ULC	AV3 -.9	1.0		P 2	30					

Number of RECORDS Selected from Current Outage : 4

Number of TUBES Selected from Current Outage : 4

TURKEY POINT UNIT 4
1997 REFUELING OUTAGE

Summary of Visual Examinations and Functional Testing of Snubbers



Mechanical shock arrestors (snubbers) were inspected under purchase order 25747 for Visual Inspection by Raytheon and purchase order 25838 for functional testing by Basic-PSA. Visual inspections were performed under plant procedure 0-OSP-105.1 and functional testing was performed under plant procedure 0-OSP-105.2. The original job scope was to visually inspect 61 snubbers inside containment, functionally test the safety related initial sample of 6 snubbers, functionally test the non-safety related initial sample of 4 snubbers, and rebuild/functionally test 9 snubbers.

Procedures utilized to accomplish Raytheon's task were as follows:

0-OSP-105.1 - "Visual Inspection of Mechanical Shock Arrestors"

0-CMM-105.1 - "Snubber Removal and Reinstallation"

Plant Work Order - 97009630 01

Procedures utilized to accomplish Basic - PSA's task were as follows:

0-OSP-105.2 - "Functional Testing of Mechanical Shock Arrestors"

PS 192 - "Instruction Manual/Repair and Overhaul Mechanical Shock Arrestors
Models PSA-1/4, 1/2"

PS 193 - "Instruction Manual/Repair and Overhaul Mechanical Shock Arrestors
Models PSA-1, 3, 10"

PS 194 - "Instruction Manual/Repair and Overhaul Mechanical Shock Arrestors
Models PSA-35, 100"

PS 194A - "Maintenance and Overhaul instructions with illustrated parts Breakdown for
Mechanical Shock Arrestors PSA-35, 100"

PS 301 - "Instruction Manual Regreasing Mechanical Shock Arrestors Models PSA-1/4,
1/2"

PS 302 - "Instruction Manual Regreasing Mechanical Shock Arrestors Models PSA-1, 3,
10"

PS 303 - "Instruction Manual Regreasing Mechanical Shock Arrestors Models PSA-35,
100"

PS 409 - "Instruction Manual Tagging of Functional Test Specimens"

PS 411- "Initiation and Disposition of Deviation Reports"

PS 412 - "Project Plan for FP&L Contract # 19894 P.O. 00025838"

PA 91812 - "Functional Testing of Pacific Scientific Shock Arrestors"

PA 91212 - "Daily Calibration Verification Program"

During the implementation phase of snubber inspection, 15 functional tests were performed with 1 failed snubber from the non-safety related functional test sample. The visual inspections noted several conditions that were addressed by Condition Reports for resolution or by Plant Work Order and/or Engineering Standard STD-C-011, Rev. 0. Section I, Turkey Point Unit 4 Outage Summary Report, details all the visual conditions found, functional test results, parts installed, Condition Reports written and Plant Work Orders (PWO) utilized to complete the outage scope identified.

SECTION 1
TURKEY POINT UNIT 4
OUTAGE SUMMARY REPORT

Turkey Point
Outage Summary
Report
Unit 4

Tag Number	Visual Inspection	S T	Date of Test	S T	S T	Dimension
17905	/ /		09/16/97	P	0.0000	N/A

Visual Summary

Functional Summary

Snubber serial number 17905 was disassembled, cleaned, regreased, reassembled and functionally tested with the following test results:

	Tension	Compression	Criteria
Test 1	29.90	31.80	*
Test 2	72.50	44.10	*
Test 3	.003	.004	.02g
Test 4	105.80	78.70	*

* Final tag location installation will determine acceptance criteria (2% vs 5%) to be utilized.
The snubber was taken to the dry storage warehouse.

Snubber serial number 182 was disassembled, cleaned, regreased, reassembled and functionally tested with the following test results:

	Tension	Compression	Criteria
Test 1	31.00	28.50	*
Test 2	94.40	105.00	*
Test 3	.006	.001	.02g
Test 4	72.30	135.50	*

Final tag location installation will determine acceptance criteria (2% vs 5%) to be utilized. The snubber was taken to the dry storage warehouse.

Snubber serial number 23226 was disassembled, cleaned, regreased reassembled and was functionally tested with the

182	/ /		09/16/97	P	0.0000	N/A
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23226	/ /		09/16/97	P	0.0000	N/A
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Turkey Point
Outage Summary
Report
Unit 4

Tag		S	Date	S	S
Number	Visual	T	of	T	T
Serial	Inspection	A	Functional	A	"L" A
Number	Date	T	Test	T	Dimension T

Visual Summary

Functional Summary

following test results:

	Tension	Compression	Criteria
Test 1	6.30	4.40	75.00
Test 2	24.60	22.80	75.00
Test 3	.004	.004	.02g
Test 4	22.90	20.80	75.00

The snubber was taken to the dry storage warehouse.

Snubber serial number 24413A was rebuilt utilizing the following parts:

1	Thrust Bearing Kit	006-74069-3
1	Retaining Ring	006-74057-0

After rebuild, the snubber was functionally tested and passed with the following test results:

	Tension	Compression	Criteria
Test 1	7.00	6.40	75.00
Test 2	2.90	12.90	75.00
Test 3	.004	.005	.02g
Test 4	6.40	12.70	75.00

The snubber was taken to the dry storage warehouse.

Snubber serial number 24415A was rebuilt utilizing the following parts:

24413A / / 09/17/97 P 0.0000 N/A

24415A / / 09/16/97 P 0.0000 N/A



Turkey Point
Outage Summary
Report
Unit 4

Tag		S	Date	S	S
Number	Visual	T	of	T	T
Serial	Inspection	A	Functional	A	"L" A
Number	Date	T	Test	T	Dimension T

Visual Summary

Functional Summary

1	Screw Assembly	006-74075-8
1	Capstan Spring	006-74065-1
1	Inertia Mass Assembly	006-74059-6
1	Thrust Bearing Kit	006-74069-3
1	Flat Washer	006-74058-8
1	Machine Key	006-74076-6
2	Flat Washers	006-74061-8
1	Flat Washer	006-74063-4
1	Dust Cover	006-74051-1
1	Retaining Ring	006-74062-6

After rebuild, the snubber was functionally tested and passed with the following test results:

	Tension	Compression	Criteria
Test 1	5.80	7.50	75.00
Test 2	7.30	18.60	75.00
Test 3	.004	.004	.02g
Test 4	5.60	16.40	75.00

The snubber was taken to the dry storage warehouse.

Snubber serial number 27089 was rebuilt utilizing the following parts:

1	Flat Washer	006-74179-7
2	Flat Washers	006-74182-7
1	Retaining Ring	006-74180-1
1	Retaining Ring	006-74176-2

27089 / / 09/17/97 P 0.0000 N/A



Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T Dimension T

Visual Summary

Functional Summary

After rebuild, the snubber was functionally tested and passed with the following test results:

	Tension	Compression	Criteria
Test 1	4.70	1.20	300.00
Test 2	3.60	20.40	300.00
Test 3	.007	.006	.02g
Test 4	24.90	22.20	300.00

The snubber was taken to the dry storage warehouse.

Snubber serial number 27092 was disassembled, cleaned, regreased, reassembled, and functionally tested with the following test results:

	Tension	Compression	Criteria
Test 1	2.70	6.40	300.00
Test 2	8.70	14.90	300.00
Test 3	.007	.007	.02g
Test 4	3.90	18.10	300.00

The snubber was taken to the dry storage warehouse.

This snubber was functionally tested as a previous rebuild. The snubber passed with the following results:

TENSION	COMPRESSION	CRITERIA
---------	-------------	----------

27092 / / 09/17/97 P 0.0000 N/A

4-1004 09/12/97 P 09/14/97- P 27.5000 P Snubber 4-1004 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. 3 new washers were installed #0015337-3.

Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T Dimension T

Visual Summary

Functional Summary

Test 1	112.40	137.80	2500.00
Test 2	816.50	752.40	2500.00
Test 3	.003	.005	.02g
Test 4	725.60	768.70	2500.00

The snubber was reinstalled in tag location 4-1004.

4-1007 09/23/97 P 09/14/97 F 26.8750 P Snubber 4-1007 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. 1 washer was replaced #0015337-3.

This snubber was functionally tested as part of the non safety related functional test sample and a functional test and teardown per Condition Report 97-0399. The snubber became rigid during the tension test in acceleration and failed with the following results:

	Tension	Compression	Criteria
Test 1	134.60	147.00	2500.00
Test 2	603.30	856.00	2500.00
Test 3	.003		
Test 4			

The snubber was torn down and CR 97-1441 was written to address the failure. Snubber failed due to planetary gears seizing to the shaft during the acceleration test, due to dry lubrication from high heat. The snubber was partially reassembled and transported to dry storage warehouse to await rebuild parts.

4-1007 09/23/97 P 03/22/97 P 26.8750 P Snubber 4-1007 as-left visual inspection did not reveal any deviations. Load pins were lubricated and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

Snubber serial number 6521 is a replacement for snubber serial number 11928. The snubber passed the functional test after rebuild on 3/22/97 with the following results:

Tension	Compression	Criteria
---------	-------------	----------

Turkey Point
Outage Summary
Report
Unit 4

Tag		S	Date	S	S
Number	Visual	T	of	T	T
Serial	Inspection	A	Functional	A	"L" A
Number	Date	T	Test	T	Dimension T

Visual Summary

Functional Summary

4-1010 09/16/97 P 09/18/97 P 27.5000 P Snubber 4-1010 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. 4 washers were replaced #0015337-3. Missing ID tag.

Test 1	250.32	172.07	2500.00
Test 2	250.32	317.51	2500.00
Test 3	.002	.007	.02g
Test 4	234.70	291.81	2500.00

The snubber was installed in tag location 4-1007.

Snubber 4-1010 was functionally tested as part of the non safety related functional test sample, teardown, rebuild and functional test per CR 97-399. The snubber as found test per CR 97-399 and CR 97-1441 were as follows:

	Tension	Compression	Criteria
Test 1*	90.30	106.80	2500.00
Test 2*	547.40	559.10	2500.00

*Per CR 97-1441 only breakaway drag and initial running drag in compression and tension were required.

The following parts were used in the rebuild of snubber 1204:

1	Clutch Spring	006-70916-8
1	Capstan Spring	006-70932-0
1	Cotter Pin	006-70925-7
2	Locking Washers	006-70934-6

After rebuild the snubber passed the functional test with the following results:



Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T Dimension T

Visual Summary

Functional Summary

	Tension	Compression	Criteria
Test 1	108.70	94.30	2500.00
Test 2	635.10	570.70	2500.00
Test 3	.004	.002	.02g
Test 4	585.40	582.20	2500.00

The snubber was reinstalled in tag location 4-1010.

4-1016 09/19/97 P 09/20/97 P 21.0000 P Snubber 4-1016 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

This snubber was tested as a previous rebuild functional test and passed with the following results:

	Tension	Compression	Criteria
Test 1	41.40	30.50	750.00
Test 2	79.50	122.90	750.00
Test 3	.002	.011	.02g
Test 4	82.10	111.20	750.00

The snubber was reinstalled in tag location 4-1016.

4-1032 09/15/97 P / / 26.0000 P Snubber 4-1032 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1033 09/15/97 P / / 25.8750 P Snubber 4-1033 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1034 09/20/97 P / / 21.0000 P Snubber 4-1034 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.



Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T Dimension T

Visual Summary

Functional Summary

4-1035 09/20/97 P / / 21.0000 P Snubber 4-1035 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1036 09/20/97 P / / 18.7500 P Snubber 4-1036 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1037 09/20/97 P / / 26.5000 P Snubber 4-1037 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. Replaced 1 cotter pin #0029149-3.

4-1038 09/15/97 P 09/20/97 P 11.3750 P Snubber 4-1038 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. Replaced structure side load pin #0024982-3.

This snubber was functionally tested as part of the initial safety related initial test sample and passed with the following results:

	Tension	Compression	Criteria
Test 1	00.90	00.90	17.50
Test 2	10.80	9.30	17.50
Test 3	.006	.006	.02g
Test 4	12.20	13.80	17.50

The snubber was reinstalled in tag location 4-1038.

4-1039 09/17/97 P / / 25.7500 P Snubber 4-1039 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1040 09/13/97 P / / 16.8750 P Snubber 4-1040 visual inspection did not reveal any



Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T Dimension T

Visual Summary

Functional Summary

17419 deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1041 09/14/97 P / / 16.0000 P Snubber 4-1041 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. Replaced cotter pin #0015351-3.

4-1042 09/14/97 P / / 17.3750 P Snubber 4-1042 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1043 09/14/97 P / / 17.3750 P Snubber 4-1043 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1044 09/18/97 P / / 21.5000 P Snubber 4-1044 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1045 09/17/97 P 09/18/97 P 21.5000 P Snubber 4-1045 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

This snubber was functionally tested as a previous rebuild and passed with the following results:

	Tension	Compression	Criteria
Test 1	11.40	25.60	750.00
Test 2	82.90	92.70	750.00
Test 3	.010	.005	.02g
Test 4	95.70	161.90	750.00

The snubber was reinstalled in tag location 4-1045.

4-1046 09/19/97 P / / 19.0000 P Snubber 4-1046 visual inspection did not reveal any



Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T

"L" A

Visual Summary

Functional Summary

187					deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
4-1047	09/19/97	P	/	/	19.7500 P Snubber 4-1047 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
185					
4-1048	09/19/97	P	/	/	20.2500 P Snubber 4-1048 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
4251					
4-1049	09/19/97	P	/	/	19.5000 P Snubber 4-1049 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
10169					
4-1050	09/19/97	P	/	/	18.7500 P Snubber 4-1050 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
12374					
4-1051	09/18/97	P	/	/	22.5000 P Snubber 4-1051 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
11125					
4-1052	09/18/97	P	/	/	22.0000 P Snubber 4-1052 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
16251					
4-1053	09/17/97	P	09/18/97	P	21.8750 P Snubber 4-1053 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
11446					

This snubber was functionally tested as a previous rebuild functional test and passed with the following results:

Tension	Compression	Criteria
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Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection A	Functional A	"L" A	
Number	Date	T	Test	T Dimension T

Visual Summary

Functional Summary

Test 1	25.20	15.60	300.00
Test 2	79.20	209.10	300.00
Test 3	.012	.008	.02g
Test 4	248.40	214.90	300.00

The snubber was reinstalled in tag location 4-1053.

4-1054 09/07/97 P 09/20/97 p 21.2500 P Snubber 4-1054 visual inspection revealed binding and noise during the handstroke. Snubber was removed and taken to the test trailer for stroking with the test bench. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

This snubber was stroked with the test bench due to noise and binding during the manual handstroking and passed with the following test results:

	Tension	Compression	Criteria
Test 1	14.30	23.80	300.00
Test 2	78.50	65.30	300.00

The snubber was reinstalled at tag location 4-1054.

4-1055 09/18/97 P / / 20.3750 P Snubber 4-1055 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1056 09/17/97 P / / 22.2500 P Snubber 4-1056 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1057 09/08/97 P / / 18.6250 P Snubber 4-1057 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1058 09/18/97 P 09/20/97 P 16.5000 P Snubber 4-1058 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned

This snubber was functionally tested as part of the safety related initial functional test sample and passed with the



Turkey Point
Outage Summary
Report
Unit 4

Tag		S	Date	S	S
Number	Visual	T	of	T	T
Serial	Inspection A	Functional A		"L" A	
Number	Date	T	Test	T	Dimension T

Visual Summary

Functional Summary

and lubricated in accordance with STD-C-011.

following results:

	Tension	Compression	Criteria
Test 1	3.90	2.30	300.00
Test 2	44.60	18.60	300.00
Test 3	.007	.002	.02g
Test 4	22.90	20.10	300.00

The snubber was reinstalled at tag location 4-1058.

4-1059 09/19/97 27103	P / /	16.8750 P	Snubber 4-1059 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
4-1061 09/19/97 19722	P / /	17.0000 P	Snubber 4-1061 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
4-1062 09/19/97 27076	P / /	17.0000 P	Snubber 4-1062 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
4-1063 09/18/97 27098	P / /	17.6250 O	Snubber 4-1063 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
4-1064 09/19/97 27077	P / /	17.2500 P	Snubber 4-1064 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
4-1065 09/18/97	P 09/20/97 P	15.7500 P	Snubber 4-1065 visual inspection did not reveal any

This snubber was functionally tested as part of the safety



Turkey Point
Outage Summary
Report
Unit 4

Tag		S	Date	S	S
Number	Visual	T	of	T	T
Serial	Inspection	A	Functional	A	"L" A
Number	Date	T	Test	T	Dimension T

Visual Summary

Functional Summary

20873 deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

related initial functional test sample and passed with the following results:

	Tension	Compression	Criteria
Test 1	1.80	14.70	300.00
Test 2	7.30	25.80	300.00
Test 3	.001	.009	.02g
Test 4	25.70	21.20	300.00

The snubber was reinstalled in tag location 4-1065.

4-1066 09/19/97 P / / 16.5000 P Snubber 4-1066 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1067 09/18/97 P / / 17.1250 P Snubber 4-1067 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1068 09/18/97 P / / 17.5000 P Snubber 4-1068 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1069 09/16/97 P 09/18/97 P 27.0000 P Snubber 4-1069 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. MRA 97009630-01 was written to tap threads into the end of the load pin to facilitate removal with a threaded rod 3/8" 16 UNC thread.

This snubber was functionally tested as part of the safety related initial functional test sample and passed with the following results:

	Tension	Compression	Criteria
Test 1	87.50	170.70	2500.00
Test 2	587.10	578.30	2500.00

Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T Dimension T

Visual Summary

Functional Summary

4-1070 09/17/97 P 09/20/97 p 27.0000 P Snubber 4-1070 visual inspection revealed the snubber would not stroke, was removed and taken to the test trailer for partial functional test. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. Replaced 2 washers #0015337-3 and 1 cotter pin #0029149-3.

Test 3	.006	.006	.02g
Test 4	564.10	663.30	2500.00

The snubber was reinstalled in tag location 4-1069.

This snubber was partially tested due to difficulty encountered during the handstroke. The snubber passed with the following results:

	Tension	Compression	Criteria
Test 1	91.40	89.30	2500.00
Test 2	1304.00	798.40	2500.00

The snubber was reinstalled in tag location 4-1070.

4-1071 09/18/97 P / / 20.2500 P Snubber 4-1071 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1072 09/18/97 P / / 21.5000 P Snubber 4-1072 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1073 09/18/97 P 09/18/97 P 21.5000 P Snubber 4-1073 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. Replaced 1 washer #0020160-3.

This snubber was functionally tested as part of the safety related initial functional test sample and passed with the following results:

	Tension	Compression	Criteria
Test 1	29.30	26.50	750.00

Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T Dimension

Visual Summary

Functional Summary

Test 2	93.30	80.70	750.00
Test 3	.012	.001	.02g
Test 4	121.60	74.90	750.00

The snubber was reinstalled in tag location 4-1073.

4-1074 09/15/97 P / / 18.0000 P Snubber 4-1074 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1075 09/15/97 P / / 15.7500 P Snubber 4-1075 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1076 09/16/97 P 09/20/97 P 13.0000 P Snubber 4-1076 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

This snubber was functionally tested as part of the safety related initial functional test sample and passed with the following results:

	Tension	Compression	Criteria
Test 1	5.20	7.40	75.00
Test 2	21.20	19.60	75.00
Test 3	.006	.008	.02g
Test 4	15.90	6.00	75.00

The snubber was reinstalled in tag location 4-1076.

4-1077 09/15/97 P / / 13.3750 P Snubber 4-1077 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.

4-1078 09/15/97 P / / 13.8750 P Snubber 4-1078 visual inspection did not reveal any

Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T

"L" A

Visual Summary

Functional Summary

24430A					deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.
4-1079 09/13/97 23227	P / /	12.8750 P	Snubber 4-1079	visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.	
4-1080 09/18/97 24431	P / /	12.0000 P	Snubber 4-1080	visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.	
4-1081 09/17/97 19295	P / /	16.0000 P	Snubber 4-1081	visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.	
4-1082 09/17/97 19296	P / /	18.0000 P	Snubber 4-1082	visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.	
4-1083 09/17/97 24408A	P / /	13.9375 P	Snubber 4-1083	visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. Replaced 2 cotter pins #0029139-3.	
4-1084 09/17/97 23229	P / /	12.8750 P	Snubber 4-1084	visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.	
4-1085 09/19/97 33622	P / /	10.5000 P	Snubber 4-1085	visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011.	

Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T
			Dimension	T

Visual Summary

Functional Summary

4-1086 09/13/97 P 09/14/97 P 27.2500 P Snubber 4-1086 visual inspection revealed frozen spherical bearings due to rust, incomplete bolt engagement, and deformed washers. CR 97-1440 was written to address those conditions. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011, bolting was evaluated as acceptable as-is. Replaced 4 washers # 0015337-3. Missing ID tag.

This snubber was functionally tested as a previous rebuild and passed with the following results:

	Tension	Compression	Criteria
Test 1	81.00	94.50	2500.00
Test 2	635.10	652.90	2500.00
Test 3	.004	.003	.02g
Test 4	693.40	637.90	2500.00

The snubber was reinstalled in tag location 4-1086.

4-1092 09/12/97 P 09/14/97 P 26.8750 P Snubber 4-1092 visual inspection revealed rust and frozen spherical bearings. CR 97-1440 was written. It identified the load pins and spherical bearings to be cleaned and lubricated in accordance with STD-C-011. Missing ID tag.

This snubber was functionally tested as part of the non safety related functional test sample and passed with the following results:

	Tension	Compression	Criteria
Test 1	136.30	113.00	2500.00
Test 2	635.10	725.80	2500.00
Test 3	.004	.003	.02g
Test 4	678.20	572.70	2500.00

The snubber was reinstalled in tag location 4-4092.

4-1099 09/12/97 P 09/14/97 P 16.5000 P Snubber 4-1099 visual inspection revealed rust on load pins and spherical bearings and CR 97-1440 was written to address the condition which stated load pins and spherical bearings were to be cleaned and lubricated in accordance with STD-C-011. Missing ID tag.

This snubber was functionally tested as part of the non safety related functional test sample and passed with the following results:

	Tension	Compression	Criteria
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Turkey Point
Outage Summary
Report
Unit 4

Tag	S	Date	S	S
Number	Visual	T	of	T
Serial	Inspection	A	Functional	A
Number	Date	T	Test	T Dimension T

Visual Summary

Functional Summary

Test 1	7.40	13.10	300.00
Test 2	118.20	52.10	300.00
Test 3	.009	.006	.02g
Test 4	74.10	51.80	300.00

The snubber was reinstalled in tag location 4-1099.

4-1100 09/18/97 P / /
29498

11.0000 P Snubber 4-1100 visual inspection did not reveal any deviations. Load pins and spherical bearings were cleaned and lubricated in accordance with STD-C-011. Replaced 1 cotter pin #0029139-3.

TURKEY POINT UNIT 4
1997 REFUELING OUTAGE

Summary of Inservice Inspection Examinations

Date: 12/06/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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REACTOR PRESSURE VESSEL

Zone Number: 4-001	ASME SEC. XI Catgy Exam Item No Method	Procedure	N I O S O N G T T R S E H A E I O E T C G H R	Remarks ** Calibration Block **
REF. DWG. NO. 5614-M-4000				
010100 Core Support Structure	B-N-3 VT-3	NDE 4.3	- - - X	10/28/97 - one CET column was damaged during RPV head removal, CET was removed and a dummy plug installed at the head penetration
REF. DWG. NO. 5614-M-4001				
042000 4-LIG-21 THRU 40 Threads in Flange	B-G-1 UT 0 B6.40	NDE 5.12-1	X - - -	09/13/97 - UT complete ** UT-14 **

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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GENERATOR A PRIMARY SIDE

Zone Number: 4-003

ASME

SEC. XI

Summary Examination Area

Number Identification

Catgy Exam

Item No Method

Procedure

N I O

S O N G T

T R S E H

A E I O E

T C G M R

Remarks

** Calibration Block **

REF. DWG. NO. 5614-M-4003

051400 4-SGA-Tubing

B-Q ET

B16.20

NDE 1.3

X - - -

9/22/97 - ET complete, 3198 tubes
examined, no tubes were plugged during
this outage, see the NIS-BB for details

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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STEAM GENERATOR B PRIMARY SIDE

Zone Number: 4-004

ASME

SEC. XI

Catgy Exam

Item No Method

Procedure

N I O

S O N G T

T R S E H

A E I O E

T C G M R

Remarks

** Calibration Block **

REF. DWG. NO. 5614-M-4004

051800	4-SGB-I-IRS INLET NOZZLE INNER RADIUS SECTION	B-D B3.140	UT 45	NDE 5.13-2	X - - -	10/01/97 - UT complete
** STEAM GENERATOR MOCKUP **						
051900	4-SGB-O-IRS OUTLET NOZZLE INNER RADIUS SECTION	B-D B3.140	UT 45	NDE 5.13-2	X - - -	10/01/97 - UT complete
** STEAM GENERATOR MOCKUP **						
052300	4-SGB-Tubing	B-Q B16.20	ET	NDE 1.3	X - - -	9/22/97 - ET complete, 3206 tubes examined, no tubes were plugged during this outage, see the NIS-BB for details

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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GENERATOR C PRIMARY SIDE

Zone Number: 4-005

ASME

SEC. XI

Summary Examination Area

Catgy Exam

Number Identification

Item No Method

Procedure

N I O
S O N G T
T R S E H
A E I O E
T C G M R

Remarks

** Calibration Block **

REF. DWG. NO. 5614-M-4005

053200 4-SGC-Tubing

B-Q ET
B16.20

NDE 1.3

X - - - 9/22/97 - ET complete, 3205 tubes
examined, no tubes were plugged during
this outage, see the NIS-BB for details

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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STEAM GENERATOR COOLANT SYSTEM LOOP B INTERMEDIATE LEG

Zone Number: 4-010	ASME SEC. XI				N I O S O N G T T R S E H A E I O E T C G M R	Remarks
Summary Examination Area Number Identification	Catgy Exam Item No Method		Procedure			** Calibration Block **
<u>REF. DWG. NO. 5614-P-766-S SH. 2</u>						
057900 31"-RCS-1402-5 STEAM GENERATOR NOZZLE TO ELBOW	B-F PT B5.70 UT 45		NDE 3.3-13 NDE 5.4-7	X - - - - - X -		09/28/97 - PT and UT complete, root geometry ** UT-26R **
058000 31"-RCS-1402-6 Elbow to Pipe	B-J PT B9.11 UT 45 UT 60		NDE 3.3-12 NDE 5.4-2	- - - X - - X - - - X -		09/20/97 - PT and UT complete, 3 acceptable round indications, root geometry ** UT-12, UT-26R, UT-46 **
058400 31"-RCS-1402-10 Elbow to RC Pump	B-J PT B9.11 UT 45		NDE 3.3-10 NDE 5.4-2	X - - - - - X -		09/20/97 - PT and UT complete, root geometry ** UT-26R **
058500 31"-RCS-1402-19 2" BRANCH CONNECTION	B-J PT B9.32		NDE 3.3-10	X - - -		09/20/97 - PT complete
058620 31"-RCS-1402-23 BRANCH CONNECTION TO PIPE	B-J PT B9.21		NDE 3.3-10	X - - -		10/01/97 - UT complete
058640 31"-RCS-1402-24 PIPE TO CAP	B-J PT B9.21		NDE 3.3-10	X - - -		09/20/97 - PT complete



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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REACTOR COOLANT SYSTEM LOOP B HOT LEG

Zone Number: 4-011		ASME	N I O		
		SEC. XI	S O N G T		
		Catgy Exam	T R S E H		
Summary Examination Area			A E I O E		
Number	Identification	Item No Method	Procedure	T C G M R	Remarks
					** Calibration Block **

REF. DWG. NO. 5614-P-766-S SH. 2

059000	29"-RCS-1405-4	B-F PT	NDE 3.3-14	X - -	09/28/97 - PT and UT complete, root
	ELBOW TO STEAM GENERATOR	B5.70 UT 45	NDE 5.4-6	- - X -	geometry
	NOZZLE				

** UT-26R **

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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REACTOR COOLANT SYSTEM LOOP B COLD LEG

Zone Number: 4-012		ASME		N I O	
		SEC. XI		S O N G T	
Summary Examination Area		Catgy Exam		T R S E H	
Number	Identification	Item No	Method	Procedure	A E I O E Remarks
					T C G M R ** Calibration Block **

REF. DWG. NO. 5614-P-766-S SH. 2					
059300	27.5"-RCS-1406-11	B-J	PT	NDE 3.3-15	X - - - 09/23/97 - PT complete; 9/24/97 - UT
	RC Pump to Pipe	B9.11	UT 45	NDE 5.4-5	X - - - complete, root geometry
			UT 60		- - X -
					** UT-12, UT-46 **
059720	27.5"-RCS-1406-25	B-J	PT	NDE 3.3-4	X - - - 09/19/97 - PT complete
	BRANCH CONNECTION TO INST.	B9.40			
	CONNECTION				
059900	27.5"-RCS-1406-17	B-J	PT	NDE 3.3-4	X - - - 09/19/97 - PT complete
	2" BRANCH CONNECTION	B9.32			



Date: 12/04/97

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TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

REACTOR COOLANT SYSTEM PRESSURIZER SURGE LINE

Zone Number: 4-016				ASME		N I O	
				SEC. XI		S O N G T	
Summary Examination Area		Catgy	Exam			T R S E H	
Number	Identification	Item No	Method	Procedure		A E I O E	Remarks
						T C G M R	** Calibration Block **

REF. DWG. NO. 5614-P-766-S SH. 2							
062400	12"-RC-1401-1 BRANCH CONNECTION TO PIPE	B-J	PT	NDE 3.3-1	X - - -		09/20/97 - PT complete; 9/21/97 - UT
		B9.11	UT 45	NDE 5.4-3	X - - -		complete
			UT 60		X - - -		** UT-34 **
062500	12"-RC-1401-2 PIPE TO PIPE	B-J	PT	NDE 3.3-1	X - - -		09/20/97 - PT complete; 9/21/97 - UT
		B9.11	UT 45	NDE 5.4-3	X - - -		complete, root geometry
			UT 60		- - X -		** UT-34 **
062710	SR-400 Spring Hanger	F-A	VT-3	NDE 4.3-12	- - - X		09/20/97 - VT-3 complete, spring cans
		F1.10C	CR	97-1560	- - - -		out of tolerance, accepted as-is by engineering evaluation, scales are the wrong type for this can, drawing will be updated to show disparity

Number: 4-017

REF. DWG. NO. 5614-P-564-S SH. 3

064250	4"-RC-1401-FB Piping Flange Bolting	B-G-2	VT-1	QC exam 96031071	X - - -	1997 - baseline VT-1 complete
		B7.50	WO			

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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REACTOR COOLANT SYSTEM PRESSURIZER SPRAY TO PRZ.

Zone Number: 4-020		ASME			N I O	
		SEC. XI			S O N G T	
Summary Examination Area		Catgy	Exam		T R S E H	
Number	Identification	Item No	Method	Procedure	A E I O E	Remarks
					T C G M R	** Calibration Block **
<u>REF. DWG. NO. 5614-P-566-S SH. 1</u>						
066900	4"-RC-1404-4 PIPE TO ELBOW	B-J	PT	NDE 3.3-5	X - - -	09/19/97 - PT and UT complete
		B9.11	UT 45	NDE 5.4-1	X - - -	
			UT 60		X - - -	** UT-45 **
067240	WR-38 DOUBLE ACTING RESTRAINT	F-A	VT-3	NDE 4.3-3	X - - -	09/12/97 - VT-3 complete
		F1.10B				
067500	4"-RC-1404-10 PIPE TO ELBOW	B-J	PT	NDE 3.3-6	X - - -	09/20/97 - PT and UT complete
		B9.11	UT 45	NDE 5.4-1	X - - -	
			UT 60		X - - -	** UT-45 **

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

Page: 10

Motor Coolant Loop B Drain

Zone Number: 4-027

ASME

SEC. XI

Summary Examination Area

Catgy Exam

Number Identification

Item No Method

Procedure

N I O

S O N G T

T R S E H

A E I O E

Remarks

** Calibration Block **

REF. DWG. NO. 5614-P-577-S SH. 2

083500 2"-RC-1402-1

BRANCH CONNECTION TO PIPE

B-J PT

B9.40

NDE 3.3-11

X - - - 09/20/97 - PT complete



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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ical and Volume Control Auxiliary Spray Line

Zone Number: 4-035	ASME			N I O	
	SEC. XI			S O N G T	
Summary Examination Area	Catgy	Exam		T R S E H	
Number Identification	Item No	Method	Procedure	A E I O E	Remarks
				T C G M R	** Calibration Block **

REF. DWG. NO. 5614-P-782-S SH. 1

110340	SR-927	F-A	VT-3	NDE 4.3-4	X - - - 09/12/97 - VT-3 complete
	SPRING HANGER	F1.10C			



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

Page: 12

DUAL HEAT REMOVAL TO RC LOOP B COLD LEG

Zone Number: 4-038		ASME		N I O		
		SEC. XI		S O N G T		
Summary Examination Area		Catgy Exam		T R S E H		
Number	Identification	Item No	Method	Procedure	A E I O E	Remarks
-----		-----		-----	T C G M R	** Calibration Block **

<u>REF. DWG. NO. 5614-P-509-S SH. 3</u>						
122600	10"-SI-1402-18 2" BRANCH CONNECTION	B-J B9.32	PT	NDE 3.3-3	X - - -	09/19/97 - PT complete
122700	10"-SI-1402-13 Pipe to Valve 4-875B	B-J B9.11	PT UT 45 UT 60	NDE 3.3-3 NDE 5.4-4	X - - - - - X - - - X -	09/19/97 - PT complete; 9/20/97 - UT complete, root geometry ** UT-27 **
123300	10"-SI-1402-17 Elbow to Branch Connection	B-J B9.11	PT UT 45 UT 60	NDE 3.3-3 NDE 5.4-4	X - - - - - X - - - X -	09/19/97 - PT complete; 9/20/97 - UT complete, root geometry ** UT-27 **

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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HEAD SAFETY INJECTION LOOP B INSIDE CTMT

Zone Number: 4-041

ASME

SEC. XI

Catgy Exam

Item No Method

Procedure

N I O
S O N G T
T R S E H
A E I O E
T C G M R

Remarks

** Calibration Block **

REF. DWG. NO. 5614-P-513-S SH. 2

135480	M-712A-1 DOUBLE ACTING RESTRAINT	F-A F1.10B	VT-3	NDE 4.3-10	X - - -	09/12/97 - VT-3 complete
135600	2"-SI-1402-32 ELBOW TO PIPE	B-J B9.40	PT	NDE 3.3-2	X - - -	09/20/97 - PT complete
135900	2"-SI-1402-35 PIPE TO ELBOW	B-J B9.40	PT	NDE 3.3-2	X - - -	09/20/97 - PT complete
136100	2"-SI-1402-37 PIPE TO BRANCH CONNECTION	B-J B9.40	PT	NDE 3.3-2	X - - -	09/20/97 - PT complete

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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HEAD SAFETY INJECTION LOOP B INSIDE CTMT

Zone Number: 4-044	ASME				N I O
	SEC. XI				S O N G T
Summary Examination Area	Catgy	Exam			T R S E H
Number Identification	Item No	Method	Procedure		A E I O E Remarks
					T C G M R ** Calibration Block **

REF. DWG. NO. 5614-P-792-S SH. 3

149195	8081-H-002-09	F-A	VT-3	NDE 4.3-5	X - - - 09/12/97 - VT-3 complete
	SINGLE ACTING RESTRAINT	F1.10A			
149430	2"-SI-1406-48	B-J	PT	NDE 3.3-7	X - - - 09/20/97 - PT complete
	PIPE TO BRANCH CONNECTION	B9.40			

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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PHYSICAL & VOLUME CONTROL TO RC LOOP A COLD LEG

Zone Number: 4-046	ASME				N I O
	SEC. XI				S O N G T
Summary Examination Area	Catgy	Exam			T R S E H
Number Identification	Item No	Method	Procedure		A E I O E Remarks
					T C G M R ** Calibration Block **

REF. DWG. NO. 5614-P-782-S SH. 3

160650	WR-38	VT-3	NDE 4.3-6	X - - -	09/12/97 - VT-3 complete, this support examined as part of WR-38 in zone 1-020
DOUBLE ACTING RESTRAINT					



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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PHYSICAL & VOLUME CONTROL FROM RC LOOP B COLD LEG

Zone Number: 4-048		ASME			N I O	
		SEC. XI			S O N G T	
Summary Examination Area		Catgy	Exam		T R S E H	
Number	Identification	Item No	Method	Procedure	A E I O E	Remarks
					T C G M R	** Calibration Block **

REF. DWG. NO. 5614-P-550-S SH. 1

166500	2"-CH-1401-1 BRANCH CONNECTION TO PIPE	B-J B9.21	PT	NDE 3.3-8	X - - -	9/19/97 - PT complete
166800	2"-CH-1401-4 PIPE TO ELBOW	B-J B9.40	PT	NDE 3.3-8	X - - -	9/19/97 - PT complete
166900	2"-CH-1401-5 ELBOW TO PIPE	B-J B9.40	PT	NDE 3.3-8	X - - -	9/19/97 - PT complete



ANAL & VOLUME CONTROL SEAL INJECTION LOOP B

Zone Number: 4-051

ASME

N I O

S O N G T

SEC. XI

T R S E H

Summary Examination Area

Catgy	Exam
-------	------

A E I O E

Remarks

Number Identification

Item No	Method
---------	--------

Procedure

T C G M R

**** Calibration Block ****

REF. DWG. NO. 5614-P-554-S SH. 1

178020	27-773-006 DOUBLE ACTING RESTRAINT	F-A VT-3 F1.10B CR	NDE 4.3-2 97-1419	- - - X - - - -	09/13/97 - VT-3 complete, empty holes in base plate, missing bolting, engineering determined this to be a drawing discrepancy, drawing will be updated
179210	2"-CH-1404-28 PIPE TO VALVE 4-298E	B-J PT B9.40	NDE 3.3-9	X - - -	9/19/97 - PT complete
179400	2"-CH-1404-30 PIPE TO ELBOW	B-J PT B9.40	NDE 3.3-9	X - - -	9/19/97 - PT complete
179500	2"-CH-1404-31 ELBOW TO PIPE	B-J PT B9.40	NDE 3.3-9	X - - -	9/19/97 - PT complete
179600	2"-CH-1404-32 Pipe to Flange	B-J PT B9.40	NDE 3.3-9	X - - -	9/19/97 - PT complete
179700	2"-CH-1404-FB2 Piping Flange Bolting	B-G-2 VT-1 B7.50 CR	NDE 4.1-3 97-1561	- - - X - - - -	09/20/97 - VT-1 complete, one bolt has incomplete thread engagment, accepted as-is by engineering evaluation
179800	2"-CH-1404-33 Flange to Pipe	B-J PT B9.40	NDE 3.3-9	X - - -	9/19/97 - PT complete
180100	2"-CH-1404-36 Pipe to Elbow	B-J PT B9.40	NDE 3.3-9	X - - -	9/19/97 - PT complete



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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ICAL & VOLUME CONTROL SEAL INJECTION LOOP B

Zone Number: 4-051		ASME			N I O	
		SEC. XI			S O N G T	
Summary Examination Area		Catgy	Exam		T R S E H	
Number	Identification	Item No	Method	Procedure	A E I O E	Remarks
					T C G M R	** Calibration Block **
<u>REF. DWG. NO. 5614-P-554-S SH. 1</u>						
180200	2"-CH-1404-37 Elbow to Reducing Insert	B-J	PT	NDE 3.3-9	X - - -	9/19/97 - PT complete
		B9.40				
180350	1.5"-CH-1404-FB3 Piping Flange Bolting	B-G-2	VT-1	NDE 4.1-2	- - - X	09/20/97 - VT-1 complete, boric acid
		B7.50	VT-1	97-1400	X - - -	noted; 9/26/97 - VT-1 re-examination
			CR		- - - -	complete 8 nuts, baseline examination on 4 studs
180500	1.5"-CH-1402-1 Flange to Pipe	B-J	PT	NDE 3.3-9	X - - -	9/19/97 - PT complete
		B9.21				



Date: 12/04/97

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TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

REACTOR COOLANT PUMP B

Zone Number: 4-057		ASME		N I O	
		SEC. XI		S O N G T	
Summary Examination Area		Catgy Exam		T R S E H	
Number	Identification	Item No	Method	Procedure	A E I O E Remarks
					T C G M R ** Calibration Block **

REF. DWG. NO. 5614-M-4007					
197900	4-RCP-FSB-1 thru 24 Flange Studs	B-G-1 UT 0 B6.180 VT-1 CR		NDE 5.8-1 NDE 4.1-5 97-1418	X - - - 09/23/97 - VT-1 complete on studs 2, 3, X - - - 9, 10, 18, and 19, while removed from - - - - pump; 9/24/97 - UT complete and VT-1 complete on remainder of studs, nicks on stud 23, dressed and re-examined, VT-1 exam performed due to leakage at main flange ** UT-18 **
198000	4-RCP-FNB-1 THRU 24 Flange Nuts	B-G-1 VT-1 B6.200		NDE 4.1-6	X - - - 09/24/97 - VT-1 complete on 22 nuts
198100	4-RCP-FLB-1 THRU 24 Flange Surface	B-G-1 VT-1 B6.190 VT-1		NDE 4.1-5	X - - - 09/23/97 - VT-1 complete on main casing X - - - flange; 9/24/97 - VT-1 complete on upper main flange gasket seating surface

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 1 PCBEA STATUS Components

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ICAL & VOLUME CONTROL, REGENERATIVE HEAT EXCH

Zone Number: 4-059		ASME	N I O		
		SEC. XI	S O N G T		
Summary Examination Area		Catgy Exam	T R S E H		
Number	Identification	Item No Method	Procedure	A E I O E	Remarks
				T C G M R	** Calibration Block **

<u>REF. DWG. NO. 5614-M-4009</u>					
199290	RGX 4E200	VT-2	NDE 4.2-1	X - - -	9/9/97 - VT-3 complete, 10/10/97 - VT-2
	VISUAL FOR LEAKAGE	VT-3	NDE 4.3-1	X - - -	complete, examination performed to plant procedure OP-1004.1



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 2 PCBEA STATUS Components

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1 GENERATOR B SECONDARY SIDE

Zone Number: 4-061

ASME

SEC. XI

Catgy Exam

Item No Method

Procedure

N I O

S O N G T

T R S E H

A E I O E

T C G H R

Remarks

** Calibration Block **

Summary Examination Area
Number Identification

REF. DWG. NO. 5614-M-4004

205900	4-SGB-G LOWER INTERMEDIATE SHELL TO TRANSITION	C-A	UT 45	NDE 5.1-1	- - X X	9/23/97 - UT complete, acceptable inside surface roughness and internal lug geometry (noted during previous examinations), acceptable slag inclusions ** UT-7 **
206000	4-SGB-CL TRANS EXT TO UPPER INTERMEDIATE SHELL	C-A	UT 45	NDE 5.1-1	- - X X	9/23/97 - UT complete, inside surface roughness geometry, acceptable slag inclusions ** UT-7 **
206100	4-SGB-FW FEEDWATER NOZZLE TO SHELL	C-B	MT	NDE 2.2-1	X - - -	09/22/97 - MT complete; 9/23/97 - UT
		C2.21	UT 45	NDE 5.1-1	- - X -	complete, inside surface roughness
			UT 60		- - - X	geometry, acceptable slag inclusions ** UT-7 **
206200	4-SGB-FW IRS FEEDWATER NOZZLE INSIDE RADIUS SECTION	C-B	UT 45	NDE 5.13-1	X - - -	09/24/97 - UT complete ** UT-3 **

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 2 PCBEA STATUS Components

Page: 22

STEAM SYSTEM LOOP B INSIDE CONTAINMENT

Zone Number: 4-100		ASME			N I O	
		SEC. XI			S O N G T	
Summary Examination Area		Catgy	Exam		T R S E H	
Number	Identification	Item No	Method	Procedure	A E I O E	Remarks
					T C G M R	** Calibration Block **

REF. DWG. NO. 5614-P-560-S SH. 1

260290	26"-MSB-2402-7LU	C-F-2	MT	NDE 2.2-2	X - - -	09/22/97 - MT complete; 9/23/97 - UT
	LONGITUDINAL SEAM WELD	C5.52	UT45	NDE 5.2-1	X - - -	complete
	UPSTREAM		UT 60		X - - -	

** UT-21 **

260300	26"-MSB-2402-7	C-F-2	MT	NDE 2.2-2	X - - -	09/22/97 - MT complete; 9/23/97 - UT
	ELBOW TO PIPE	C5.51	UT 45	NDE 5.2-1	X - - -	complete, root, inside surface, and
			UT 60		- - X -	chill ring geometry
			UT 70		- - X -	

** UT-21 **

260350	26"-MSB-2402-7LD	C-F-2	MT	NDE 2.2-2	X - - -	09/22/97 - MT complete; 9/23/97 - UT
	LONGITUDINAL SEAM WELD	C5.52	UT 45	NDE 5.2-1	X - - -	complete
	DOWNSTREAM		UT 60		X - - -	

** UT-21 **

Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 2 PCBEA STATUS Components

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STEAM SYSTEM LOOP C INSIDE CONTAINMENT

Zone Number: 4-101	ASME			N I O	
	SEC. XI			S O N G T	
Summary Examination Area	Catgy	Exam		T R S E H	
Number Identification	Item No	Method	Procedure	A E I O E	Remarks
				T C G M R	** Calibration Block **

REF. DWG. NO. 5614-P-561-S SH. 1

261470	4-MSH-22A	F-A	VT-3	NDE 4.3-11	X - - - 9/20/97 - VT-3 complete
	SPRING HANGER	F1.20C			



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 2 PCBEA STATUS Components

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FEEDWATER SYSTEM LOOP A

Zone Number: 4-111

ASME

SEC. XI

Catgy Exam

Item No Method

Procedure

N I O

S O N G T

T R S E H

A E I O E

T C G M R

Remarks

** Calibration Block **

REF. DWG. NO. 5614-P-557-S SH. 1

284460 Augmented Exam
FROM NOZZLE RAMP TO 1 PIPE
DIA. ON ELBOW

AUG UT

NDE 5.16-1

- - X - 09/15/97 - UT complete, acceptable root
geometry

** UT-20, UT-29 **



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 2 PCBEA STATUS Components

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FEEDWATER SYSTEM LOOP B

Zone Number: 4-112	ASME			N I O	
	SEC. XI			S O N G T	
Summary Examination Area	Catgy Exam			T R S E H	
Number Identification	Item No Method	Procedure		A E I O E	Remarks
				T C G H R	** Calibration Block **

REF. DWG. NO. 5614-P-558-S SH. 1

286980	Augmented Exam	AUG	UT	NDE 5.16-2	- - - X	09/16/97 - UT complete, acceptable slag inclusion found in weld #22
	FROM NOZZLE RAMP TO 1 PIPE					
	DIA. ON ELBOW					

** UT-20, UT-29 **

1000
1000



Date: 12/03/97

TURKEY POINT NUCLEAR PLANT UNIT 4
INSERVICE INSPECTION SUMMARY
THIRD INTERVAL, SECOND PERIOD, FIRST OUTAGE (97RF)
Class 2 PCBEA STATUS Components

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FEEDWATER SYSTEM LOOP C

Zone Number: 4-113	ASME			N I O	
	SEC. XI			S O N G T	
Summary Examination Area	Catgy Exam			T R S E H	Remarks
Number Identification	Item No Method	Procedure		A E I O E	
				T C G M R	** Calibration Block **

REF. DWG. NO. 5614-P-789-S SH. 1

289650	Augmented Exam	AUG	UT	NDE 5.16-3	- - X X	09/16/97 - UT complete, acceptable root and counterbore geometry, and acceptable inside surface condition, these indications have been noted previously, no changes have been detected
	FROM NOZZLE RAMP TO 1 DIA. ON ELBOW					** UT-20, UT-29 **



TURKEY POINT UNIT 4

Summary of System Pressure Testing

Abstract

This report details the pressure testing of selected class 1, 2, and 3 piping and components of the Florida Power and Light Company Turkey Point Unit 4 which were performed prior to and during the Fall 1997 refueling outage, between the dates of September 8, 1997 and October 13, 1997.

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," 1989 Edition with no addenda.

Procedures

The following FPL procedures and documents have been implemented to provide instructional guidance for the performance of the required ASME XI Inservice, Functional and Hydrostatic testing, and subsequent inspections.

OP-1004.1 Reactor Coolant System-System Leak Test Following RCS Opening.

4-OSP-045.1 ASME Section XI Quality Group A Bolting Examination*

0-ADM-523 ASME Section XI Pressure Tests for Quality Group A, B, C, and SR Systems/Components.

0-OSP-041.2 Reactor Coolant System Visual Leak Inspection and Leak Evaluation.

NDE-4.2 Visual Examination VT-2 Conducted During System Pressure Tests.

* Code Case N-533 was authorized for use at Turkey Point Units 3 and 4 (TAC NOS. M98149 AND M98150)



System Summary: Unit-4

The following safety related Class 1, 2, and 3 systems, or sections thereof were pressure tested in accordance with ASME Section XI.

Name of system	System Number
Service Air	13
Condensate Storage	18
Intake Cooling Water	19
Primary Water Make-up	20
Emergency Diesel Generator	22
Component Cooling Water	30
Spent Fuel Pool Cooling	33
Reactor Coolant	41
Boron Addition & Recovery	46
Chemical and Volume Control	47
Safety Injection	62
Auxiliary Feedwater	75



Acronyms

ADM:	Administrative
ASME:	American Society Of Mechanical Engineers
CCS:	Containment Spray System
CCW:	Component Cooling Water
CVCS:	Chemical and Volume Control System
ECC:	Emergency Containment Cooler
FW:	Feedwater
HX:	Heat Exchanger
ICW:	Intake Cooling Water
NDE:	Non Destructive Examination
PC/M:	Plant Change/Modification
PWO:	Plant Work Order
PZR:	Pressurizer
RCP:	Reactor Coolant Pump
RHR:	Residual Heat Removal
RO:	Restricting Orifice
RV:	Relief Valve
RX:	Reactor
SFPC:	Spent Fuel Pool Cooling
SG:	Steam Generator
TPCW:	Turbine Plant Cooling Water
VCT:	Volume Control Tank
WO:	Work Order
WR:	Work Request

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 down 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. These sub-systems were then assigned a test package number, which could be tested in the 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 segments of information.

Sample: 03-CCW-30110-H-01
 ^ ^ ^ ^ ^ ^
 1 2 3 4 5 6

1. Unit number (00) common to units 3 and 4. (03) Unit 3 specific. (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, (F) functional, (I) inservice, (S) static head.
6. Number of test performed within the specific sub-system.



SERVICE AIR SYSTEM 13

04-SA-1301-L-01 - Test date 10/01/97

This test was performed due to the replacement of 4-40-205 per PWO WO 97009268 01. No leakage was noted during the leakage test.



CONDENSATE STORAGE SYSTEM 18

04-CST-1802-F-01 - Test date 11/30/96

This test was performed to meet the 1989 Edition of ASME Section XI periodic pressure test requirements. No leakage was noted during the inservice leak test.

INTAKE COOLING WATER SYSTEM 19

04-ICW-1944-F-03 - Test date 07/04/96

This test was performed due to the replacement of 4-50-377 per PWO WO 96017305 01. No leakage was noted during the leakage test.

04-ICW-1944-F-04 - Test date 07/18/96

This test was performed due to the replacement of 4-50-377 per PWO WO 96017512 01. No leakage was noted during the leakage test.

04-ICW-1951-L-04 - Test date 09/30/97

This test was performed due to the replacement of 4-50-345 per PWO WO 97018332 01. No leakage was noted during the leakage test.

04-ICW-1954-F-04 - Test date 06/28/96

This test was performed due to the replacement of 4-50-311 per PWO WO 95023821 01. No leakage was noted during the leakage test.

04-ICW-1955-F-02 - Test date 11/25/96

This test was performed due to the replacement of 4-50-410 per PWO WO 96030768 01. No leakage was noted during the leakage test.

04-ICW-1958-F-04 - Test date 10/31/96

This test was performed due to the replacement of 4-50-331 per PWO WO 96017262 01. No leakage was noted during the leakage test.

04-ICW-1999-L-03 - Test date 10/31/96

This test was performed due to the replacement of 4-50-321 per PWO WO 96017245 01. No leakage was noted during the functional test.

PRIMARY WATER MAKE-UP SYSTEM 20

04-PWMU-2002-H-02 - Test date 09/22/97

This test was performed due to the piping modification on containment penetration P-7 per PWO WO 97016288 01 and PC/M 97-018. No leakage was noted during the leakage test.

04-PWMU-2005-L-02 - Test date 09/28/97

This test was performed due to the addition of a 2" X 2" X 3/4" piping tee per PWO WO 97016992 01 and PC/M 97-012. No leakage was noted during the leakage test.



EMERGENCY DIESEL GENERATOR SYSTEM 22

04-EDG-2201-F-01 - Test date 10/21/96

This test was performed to meet the 1989 Edition of ASME Section XI periodic pressure test requirements. No leakage was noted during the inservice leak test.

04-EDG-2204-F-01 - Test date 10/21/96

This test was performed to meet the 1989 Edition of ASME Section XI periodic pressure test requirements. No leakage was noted during the inservice leak test.

04-EDG-2205-F-01 - Test date 09/30/97

This test was performed to meet the 1989 Edition of ASME Section XI periodic pressure test requirements. No leakage was noted during the inservice leak test.

04-EDG-2205-P-03 - Test date 07/10/97

This test was performed due to the replacement of 4-70-376A per PWO WO 96007362 01. No leakage was noted during the leakage test.

04-EDG-2206-F-01 - Test date 10/21/96

This test was performed to meet the 1989 Edition of ASME Section XI periodic pressure test requirements. No leakage was noted during the inservice leak test.

04-EDG-2207-F-01 - Test date 11/27/96

This test was performed to meet the 1989 Edition of ASME Section XI periodic pressure test requirements. No leakage was noted during the inservice leak test.

04-EDG-2208-F-01 - Test date 11/13/96

This test was performed to meet the 1989 Edition of ASME Section XI periodic pressure test requirements. No leakage was noted during the inservice leak test.

04-EDG-2209-F-01 - Test date 11/27/96

This test was performed to meet the 1989 Edition of ASME Section XI periodic pressure test requirements. No leakage was noted during the inservice leak test.

COMPONENT COOLING WATER SYSTEM 30

04-CCW-3085-H-02 - Test date 10/05/97

This test was performed to upgrade the existing design requirements of the Letdown Heat Exchanger for PC/M 96-093 "CCW Head Tank Addition" and Engineering Evaluation PTN-ENG-SEMS-97-086. No leakage was noted during this leakage inspection.

04-CCW-30230-H-01 - Test date 08/26/97

This test was performed for PC/M 96-093 "CCW Head Tank Addition" and PWO WO 97012406 01. Valve 4-1022 had a packing leak and was addressed by Mechanical Maintenance prior to leakage test 04-CCW-30231-L-01 being performed.

04-CCW-30231-L-01 - Test date 10/04/97

This test was performed for PC/M 96-093 "CCW Head Tank Addition" and PWO WO 97012406 01. Code Case N-416-1 was invoked for this modification. No leakage was noted during this leakage test.

04-CCW-30233-L-01 - Test date 10/06/97

This test was performed due to the replacement of valve RV-4-707 per PWO WO 97022010 01. No leakage was noted during the leakage test.



SPENT FUEL COOLING SYSTEM 33

04-SFPC-3331-I-01 - Test date 11/20/96

This test was performed for the ASME Section XI periodic pressure test requirements. No leakage was observed during the inservice inspection.

04-SFPC-3331-I-02 - Test date 11/21/96

This test was performed for the ASME Section XI periodic pressure test requirements. No leakage was observed during the inservice inspection.

REACTOR COOLANT SYSTEM 41

04-RCS-4112-L-01 Test date 04/26/97

This test was performed due to replacement of the bonnet of valve LCV-4-460 per PWO WO 97010109 01. No leakage was noted during the leakage test.

04-RCS-4111-L-02 Test date 10/10/97

This test was performed on the Reactor Coolant System piping inside containment following the Unit 4 Refueling Outage. This test addressed the following replacements:

Component	PWO	Remarks
MOV-4-536	94026177	Yoke and Bonnet Replacement
RV-4-551A	96031071	Valve Replacement
RV-4-551B	96031082	Valve Replacement
RV-4-551C	96031085	Valve Replacement
4T237	97020615	PC/M 97-041 Core Exit Thermocouple Column Removal

No through wall leakage was noted during the leakage test. Mechanical leaks (i.e. packing, etc.) were noted at various locations, PWOs were written by maintenance to address the leaks at the following locations:

Component	Location	PWO
SGB-4-001	Packing	WO 97022653
PCV-4-455B	Swagelock	WR 97013066
4-308	Packing	WR 97013062
4-120F	Pipe Cap	WR 97022635
RCP - A	Oil Pot RTD	WR 97013067
LT-4-461	Vent	WR 97013065
4-20-157	Packing	WR 97013063
LT-4-486	Vent	WR 97013064

All WO's and WR's were completed satisfactory, prior to the unit's return to service.

**CHEMICAL AND VOLUME CONTROL BORON ADDITION AND RECYCLE
SYSTEM CHARGING AND LETDOWN 46**

04-CVCS-4628-L-02 - Test date 06/14/96

This test was performed due to the replacement of valve FT-4-110 per PWO WO 96013164
01. No leakage was noted during this leakage inspection.



CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING AND LETDOWN
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04-CVCS-4757-L-02 - Test date 10/10/97 .

This test was performed due to the replacement of valve RV-4-203 per PWO WO 97012200 01. No leakage was noted during this leakage inspection.

04-CVCS-4761-L-03 - Test date 10/10/97

This test was performed due to the replacement of valve 4-1317 per PWO WO 96026825 01. No leakage was noted during the leakage test.

SAFETY INJECTION SYSTEM 62

04-SIS-6232-F-01 - Test date 09/08/97

This test was performed to meet the ASME Section XI 1989 Edition periodic pressure test requirements. No leakage was observed during the functional test.

04-SIS-6233-F-02 - Test date 09/13/97

This test was performed to meet the ASME Section XI 1989 Edition periodic pressure test requirements. No leakage was observed during the functional test.

AUXILIARY FEEDWATER SYSTEM 75

04-AFW-7551-F-01 - Test date 11/20/96

This test was performed to meet the ASME Section XI 1989 Edition periodic pressure test requirements. No leakage was observed during the functional test.

04-AFW-7552-F-01 - Test date 02/17/97

This test was performed to meet the ASME Section XI 1989 Edition periodic pressure test requirements. No leakage was observed during the functional test.

04-AFW-7553-F-01 - Test date 12/16/96

This test was performed to meet the ASME Section XI 1989 Edition periodic pressure test requirements. No leakage was observed during the functional test.

04-AFW-7554-F-01 - Test date 11/04/96

This test was performed to meet the ASME Section XI 1989 Edition periodic pressure test requirements. No leakage was observed during the functional test.

04-AFW-7555-F-01 - Test date 11/04/96

This test was performed to meet the ASME Section XI 1989 Edition periodic pressure test requirements. No leakage was observed during the functional test.

04-AFW-7556-F-01 - Test date 12/16/96

This test was performed to meet the ASME Section XI periodic pressure test requirements. Leakage was noted during the pressure functional test at packing on valve AFRD-4-006 and corrected per PWO WO 96020298 01. No through wall leakage was observed.

