Indian Point 3
Nuclear Power Plant
P.O. Box 215
Buchanan, New York 10511
914 736.8001

New York Power Authority

Robert J. Barrett
Site Executive Officer

January 11, 2000
IPN-00-002

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

SUBJECT: Indian Point 3 Nuclear Power Plant
Docket No. 50-286
License No. DPR-64
Inservice Inspection Report for
Cycle 10/11 Refueling Outage

REFERENCES:

1. NYPA letter, J. Knubel to USNRC (IPN-97-166) dated December 10, 1997 regarding the Inservice Inspection Report for Cycle 9/10 Refueling Outage.

2. NYPA letter, R. Barrett to USNRC (IPN-99-129) dated December 17, 1999 regarding Steam Generator Inservice Inspection Results.

Dear Sir:

This letter submits the Inservice Inspection (ISI) Report as required by Article IWA-6000 of Section XI of the ASME Boiler and Pressure Vessel Code.

This inspection is the second examination of the third period of the second 10 year Indian Point 3 ISI Program interval and was conducted during the cycle 10/11 refueling outage. Attachment I consists of an executive summary in addition to selected pages of the Final Weld and Component Examination ISI Report. Attachment II is a list that summarizes the repairs and replacements performed since the last report (reference 1) was submitted. Detailed information, as described in IWA-6220, such as component identification numbers, manufacturer specifications and completed NIS-2 forms, is available for review at the Indian Point 3 plant.

All indications and deficiencies identified during these inspections have been corrected or evaluated and accepted. No unresolved issues remain.

Although the NIS-1 form included in Attachment I lists the steam generators, the report summarizing the results of the Technical Specification required steam generator tubing inservice inspection was submitted separately (reference 2).

A047

There are no commitments contained in this letter. If you have any questions, please contact Mr. Ken Peters.

Very truly yours,

Robert J. Barrett
Site Executive Officer
Indian Point 3 Nuclear Power Plant

Attachments

cc: Mr. Hubert Miller
Regional Administrator
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

U.S. Nuclear Regulatory Commission
Resident Inspectors' Office
Indian Point 3 Nuclear Power Plant

Mr. George F. Wunder, Project Manager
Project Directorate I-1
Division of Reactor Projects I/II
U.S. Nuclear Regulatory Commission
Mail Stop 14 B2
Washington, DC 20555

Attachment 1 to IPN-00-002

Indian Point 3 Nuclear Power Plant

Inservice Inspection Report

For Cycle 10/11 Refueling Outage

New York Power Authority
Indian Point 3 Nuclear Power Plant
Docket No. 50-286
DPR-64

New York Power Authority
Indian Point Unit No. 3
Inservice Inspection Summary
2nd Interval; 3rd Period; 2nd Outage
1999

Executive Summary

INTRODUCTION

An Inservice Examination of various Class 1, 2, and 3 components and piping was performed at the Indian point Unit No. 3 Nuclear Power Plant during September and October 1999 by Westinghouse Electric Company, Wesdyne International, and New York Power Authority Personnel. The examinations were performed in accordance with an approved Examination Program Plan located under Tab C of the Final Outage Report.

Examinations were performed to satisfy the requirements of:

- ASME Boiler and Pressure Vessel Code Section XI, 1983 Edition and including Summer 1983 Addenda

- U.S. Nuclear Regulatory Commission Regulatory Guide 1.150, Revision 1

Examination procedures were approved prior to the examinations, and certification documentation relative to personnel, equipment, and materials were reviewed and determined to be satisfactory. Representatives from the U.S. Nuclear Regulatory Commission, the Factory Mutual Insurance Company Authorized Nuclear Inservice Inspector, and the New York Power Authority quality Assurance Department conducted or participated in various phases of the inspection, review, witnessing and surveillance processes.

RESULTS

The 10-Year Reactor Vessel Inservice Inspection was performed using the Westinghouse automated system (SUPREEM). Additionally, a small number of other Class 1, 2, and 3 components were examined to complete the 2nd 10-Year Interval ISI requirements. Examinations based on the Examination Program Plan initially identified fourteen (14) recordable indications using the Westinghouse procedure recording criteria, which are more critical than as specified by the ASME Boiler and Pressure Vessel Code Section XI

acceptance criteria. Thirteen (13) of these indications were identified on the Reactor Vessel by volumetric examinations and recorded as subsurface flaws using the automated system SUPREEM. These indications were then evaluated and found to be acceptable to the limits of the ASME Section XI Code, 1983 Edition and including the 1983 Summer Addenda. Additionally, one Class 3 support (under IWF examination) had a loose nut and the deficiency was evaluated and its structural integrity was determined not adversely affected. This deficiency was corrected prior to startup.

Specific data relative to all indications including dispositions, DER's and acceptance standards are located under Tab F of the Final Outage Report.

EXAMINATION

Examinations were conducted to inspect as much of the specified volume/surface as reasonably practical. In some instances, examinations were limited by geometric, metallurgical, or design access restrictions. In each case, the occurrence, and the cause of the various limitations have been noted and the resulting coverage is the maximum that is reasonably achievable.

Some of the arrangement and details of the piping systems and components were designed and fabricated before the access and examination requirements of ASME Boiler and Pressure Vessel Code Section XI were established. Specific limitations and restrictions for all examinations, if applicable, are indicated on the examiners data sheets, located under Tab D of the Final Outage Report.

The following Visual, VT-2 examinations were performed by New York Power Authority Indian Point Unit No. 3 personnel:

- RCS Integrity Leak Test (Class 1)
- Inservice Pressure Test of Various Class 2 & 3 Systems Piping & Components

EXAMINATION PROGRAM REPORT

OF THE

INDIAN POINT UNIT NO. 3
NUCLEAR POWER PLANT

P.O. BOX 215

BUCHANAN, NEW YORK 10511

FOR

NEW YORK POWER AUTHORITY

123 MAIN STREET

WHITE PLAINS, NEW YORK 10601

COMMERCIAL SERVICE DATE: AUGUST 30, 1976

OPERATING CAPACITY: 1025 Mwe

2ND INTERVAL; 3RD PERIOD; 2ND OUTAGE

REPORT DATE: DECEMBER, 1999

WESDYNE INTERNATIONAL
Waltz Mill Service Center
PO Box 409
Madison, Pa. 15663

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. **Owner** New York Power Authority, 123 Main Street, White Plains, New York 10601

2. **Plant** Indian Point, Broadway and Bleakley, Buchanan, New York 10511

3. **Plant Unit** No. 3 4. **Owner Certificate of Authorization (if required)** N/A

5. **Commercial Service Date** August 30, 1976 6. **National Board Number for Unit** N/A

7. **Components Inspected**

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Eng.	66102	---	20758
Pressurizer	Westinghouse	0011	---	68-42
Replacement Steam Generator 31	Westinghouse NCD	11465	---	41
Replacement Steam Generator 32	Westinghouse NCD	11466	---	42
Replacement Steam Generator 33	Westinghouse NCD	11467	---	43
Replacement Steam Generator 34	Westinghouse NCD	11468	---	44
Class 1 Piping	Cameron Iron Works	---	---	---
Reactor Coolant Pump 31	Westinghouse	RCPCPC-01	---	---
Reactor Coolant Pump 32	Westinghouse	RCPCPC-02	---	---
Reactor Coolant Pump 33	Westinghouse	RCPCPC-03	---	---
Reactor Coolant Pump 34	Westinghouse	RCPCPC-04	---	---
Regenerative Heat Exchanger	Sentry	4195	---	---
Residual Heat Exchanger 31	Atlas Industrial	807	---	660
Residual Heat Exchanger 32	Atlas Industrial	808	---	661
Seal Water Heat Exchanger	Atlas Industrial	812	---	665
Non-Regenerative Letdown Heat Exchanger	Atlas Industrial	831	---	682
Excess Letdown Heat Exchanger	Atlas Industrial	848	---	699
Volume Control Tank	Reynolds Mfg.	INTCSATVC1	---	2623
Accumulator Tank 31	Delta Southern	41046-69-1	---	2399
Accumulator Tank 32	Delta Southern	41046-69-2	---	2400
Accumulator Tank 33	Delta Southern	41047-69-1	---	2401
Accumulator Tank 34	Delta Southern	41047-69-2	---	2402
Seal Water Injection Filter 31	Commercial Filters	16918-1319	---	1009
Reactor Coolant Filter	Commercial Filters	16352-1258	---	958

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3. **Plant Unit** No. 3 4. **Owner Certificate of Authorization (if required)** N/A

5. **Commercial Service Date** August 30, 1976 6. **National Board Number for Unit** N/A

7. **Components Inspected**

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Seal Water Return Filter	Cuno Engineering	1	---	1-MA
Class 2 Piping	---	---	---	---
RHR Pump 31	Ingersoll Rand	---	---	---
RHR Pump 32	Ingersoll Rand	---	---	---
Charging Pump 31	Union Pump Company	274168	---	---
Charging Pump 32	Union Pump Company	274169	---	---
Charging Pump 33	Union Pump Company	274170	---	---
Component Cooling Pump ACAPCC1-31	Ingersoll Rand	0568-26	---	---
Component Cooling Pump ACAPCC2-32	Ingersoll Rand	0568-27	---	---
Component Cooling Pump ACAPCC3-33	Ingersoll Rand	0568-30	---	---
Auxiliary Feedwater Pump 31	Ingersoll Rand	0469-153	---	---
Auxiliary Feedwater Pump 32	Worthington	70Z00035	---	---
Auxiliary Feedwater Pump 33	Ingersoll Rand	0469-154	---	---
Safety Injection Pump 31	Pacific Pump	43464	---	---
Safety Injection Pump 32	Pacific Pump	43465	---	---
Safety Injection Pump 33	Pacific Pump	43463	---	---
Class 3 Piping	---	---	---	---
Diesel Generator 31 Lube Oil Cooler	American Standard	1-12710-02-4	---	17744
Diesel Generator 32 Lube Oil Cooler	American Standard	---	---	---
Diesel Generator 33 Lube Oil Cooler	American Standard	---	---	---
Diesel Generator 31 Jacket Water Cooler	American Standard	---	---	---
Diesel Generator 32 Jacket Water Cooler	American Standard	1-12710-03-2	---	17752
Diesel Generator 33 Jacket Water Cooler	American Standard	---	---	---

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As required by the Provisions of the ASME Code Rules

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2. **Plant** Indian Point, Broadway and Bleakley, Buchanan, New York 10511

3. **Plant Unit** No. 3 4. **Owner Certificate of Authorization (if required)** N/A

5. **Commercial Service Date** August 30, 1976 6. **National Board Number for Unit** N/A

7. **Components Inspected**

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Cooling Water Heat Exchanger 31	Whitlock	76187	---	9590
Cooling Water Heat Exchanger 32	Whitlock	76188	---	9591
Recirculation Fan Cooler 34	Westinghouse	4S-70	---	---
Recirculation Fan Cooler 35	Westinghouse	1S-70	---	---

FORM NIS-1 (back)

8. Examination Dates 9-11-99 to 10-20-99 9. Inspection Interval from 8-30-86 to 7-20-00

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

Reference Tab C

11. Abstract of Conditions Noted

Reference Tab B and Tab F

12. Abstract of Corrective Measures Recommended and Taken

Reference Tab B and Tab F

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date 1/7/2000 Signed K Penny Rh Owner By Director - Engineering Programs

Certificate of Authorization No. (if applicable) N/A Expiration Date 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/or the State or Province of NEW YORK and employed by FM Ins. Co. of Johnston, RI have inspected the components described in this Owners' Data Report during the period 09-11-99 to 01-05-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data 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 Owners' Data 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.

Date 01-05-00

J H Richard Evans Commissions NB7503/NY5249 (N, I, B)

Inspector's Signature National Board, State, Province and No.

NEW YORK POWER AUTHORITY
INDIAN POINT UNIT NO. 3
INSERVICE INSPECTION PROGRAM PLAN
2ND INTERVAL; 3RD PERIOD; 2ND OUTAGE
1999

All items listed below are to be examined, as indicated, in accordance with the requirements of the ASME Boiler and Pressure Vessel Code Section XI 1983 Edition up to and including Summer 1983 Addenda, U.S. Nuclear Regulatory Commission Regulatory Guide 1.150 Revision 1, (Alternative Method), and to the extent practical with the access provided and the limitations of component geometry.

Class 1

Program Item	IWB-2500-1 Reference	Area & Extend of Examination	Examination Procedure Vol.	Surf.	Vis.	Sketch Reference
		Reactor Vessel				
1.	B1.11	Circumferential Shell Welds 2 and 3	254			1-1100
2.	B1.12	Longitudinal Shell welds 5, 6, 7, 8, 9, 10, 11, 12 and 13	254			1-1100
3.	B1.11	Shell to Bottom Head Circumferential Weld 4	254			1-1100
4.	B1.22	Bottom Head Meridional Weld 16	254			1-1100
5.	B1.30	Shell to Flange Weld 1	254			1-1100
6.	B1.30	Shell to Flange Weld 1 from Seal Surface	54			1-1100
7.	B3.90	Nozzle to Vessel Welds 21, 22, 23, 24, 25, 26, 27 and 28	254			1-1100
8.	B6.40	Threads in Flange No. 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 31, 32, 33, 34, 43, 44, 45, 46, 47, 48, 49, 50, 51 and 52	55			1-1100
9.	B3.100	Nozzle Inside Radius Section 21IR, 22IR, 23IR, 24IR, 25IR, 26IR, 27IR and 28IR	254			1-1100
10.	B13.10	Reactor Vessel Interior			88	1-1200
11.	B13.70	Core Support Structure			88	1-1200
12.	B15.11	Pressure Retaining Boundary			(1)	1-1100

Program Item	IWB-2500-1 Reference	Area & Extend of Examination	Examination Procedure Vol.	Surf.	Vis.	Sketch Reference
		Pressurizer				
13.	B7.20	Manway Bolting B1 thru B16			8	1-2100
14.	B3.120	Nozzle Inside Radius Section 20IR, 21IR, 22IR, 23IR and 24IR			8(2)	1-2100
15.	B4.20	Heater Penetration Welds			(1)	1-2100
16.	B15.21	Pressure Retaining Boundary			(1)	1-2100
		Replacement Steam Generators 31, 32, 33, 34				
17.	B15.31	Pressure Retaining Boundary			(1)	1-3100
		Pressure Retaining Welds in Piping				
18.	B5.10	Nozzle to Safe-End Welds 1(DM) and 16(DM)	254			1-4100
19.	B9.11	Circumferential Welds 2 and 15	254			1-4100
20.	B5.10	Nozzle to Safe-End Welds 1(DM) and 16(DM)	254			1-4200
21.	B9.11	Circumferential Welds 2 and 15	254			1-4200
22.	B5.10	Nozzle to Safe-End Welds 1(DM) and 16(DM)	254			1-4300
23.	B9.11	Circumferential Welds 2 and 15	254			1-4300
24.	B5.10	Nozzle to Safe-End Welds 1(DM) and 16(DM)	254			1-4400
25.	B9.11	Circumferential Welds 2 and 15	254			1-4400
26.	B15.50	Pressure Retaining Boundary			(1)	
27.	B15.51	Pressure Retaining Boundary			(1)	
		Reactor Coolant Pumps 31, 32, 33, & 34				
28.	B7.60	RCP-32 Seal Housing Bolting B1 thru B18			8	1-5100
29.	B7.60	RCP-33 Seal Housing Bolting B1 thru B18			8	1-5100
30.	B12.10	RCP-31 Casing Welds 31-1, 31-2 and 31-3 and Exterior Surfaces			8(3)	1-5100
31.	B15.60	Pressure Retaining Boundary			(1)	1-5100
32.	B15.61	Pressure Retaining Boundary			(1)	1-5100
		Valves				
33.	B15.70	Pressure Retaining Boundary			(4)	
34.	B15.71	Pressure Retaining Boundary			(1)	

CLASS 2

Program Item	IWC-2500-1 Reference	Area & Extend of Examination	Examination Procedure Vol.	Surf.	Vis.	Sketch Reference
		Replacement Steam Generators 31, 32, 33, 34				
35.	C2.21	S/G 31, Nozzle to Head Weld 31-10	47	70		2-1101
		Residual Heat Exchanger 31				
36.	C2.33	Nozzle to Shell Weld 31-5			(5)	2-1120
		Accumulator Tank 32				
37.	C1.10	Shell Circumferential Weld 32-3 from 252" clockwise thru 376.8" from 0 Reference	47			2-1210
38.	C1.20	Head Circumferential Weld 32-4 from 252" clockwise thru 376.8" from 0 Reference	47			2-1210
		Boron Injection Tank				
39.	C2.33	Nozzle to Head Weld 4			(5)	2-1220
		Seal Water Injection Filter 31				
40.	C1.10	Shell Circumferential Weld 31-2 from 24" clockwise thru 33.75" from 0 Reference	206			2-1300
41.	C1.20	Head Circumferential Weld 31-1 from 24" clockwise thru 33.75" from 0 Reference	206			2-1300
		Reactor Coolant Filter				
42.	C1.10	Shell Circumferential Weld 2 from 34" clockwise thru 43.96" from 0 Reference	206			2-1310
43.	C1.20	Head Circumferential Weld 1 and Weld 3 from 34" clockwise thru 43.96" from 0 Reference	206			2-1310
		Seal Water Return Filter				
44.	C1.10	Shell Circumferential Weld 2 from 34" clockwise thru 50.24" from 0 Reference	(6)	11		2-1320
45.	C1.20	Head Circumferential Weld 1 and Weld 3 from 34" clockwise thru 50.24" from 0 Reference	(6)	11		2-1320
		Pressure Vessels				
46.	C7.10	Pressure Retaining Boundary		(1 and 4)		
		Integral Attachments for Piping				
47.	C3.20	Integrally Welded Attachment MSR-24		70		2-2101
48.	C3.20	Integrally Welded Attachment MSR-15		70		2-2301
49.	C3.20	Integrally Welded Attachment MSR-23		70		2-2301
50.	C3.20	Integrally Welded Attachment PWR-535		70		2-2302
51.	C3.20	Integrally Welded Attachment PWR-539		70		2-2302
52.	C3.20	Integrally Welded Attachment BFD-H-43		70		2-2302

Program Item	IWC-2500-1 Reference	Area & Extend of Examination	Examination Procedure Vol.	Surf.	Vis.	Sketch Reference
53.	C3.20	Integrally Welded Attachment MSR-25		70		2-2401
54.	C3.20	Integrally Welded Attachment PR-2		70		2-2402
		Pressure Retaining Welds in Piping				
55.	C5.31	Loop 33 12" Line 3 Mainsteam, Pipe Branch Connection 19(BC)		70		2-2301
		All Pressure Retaining Components				
56.	C7.20	Pressure Vessels - Pressure Retaining Components			(1)	
57.	C7.30	Piping - Pressure Retaining Boundary			(1 and 4)	
58.	C7.40	Piping - Pressure Retaining Boundary			(1)	
59.	C7.50	Pumps - Pressure Retaining Boundary			(1 and 4)	
60.	C7.60	Pumps - Pressure Retaining Boundary			(1)	
61.	C7.80	Valves - Pressure Retaining Boundary			(1 and 4)	

Class 3

Program Item	IWD-2500-1 Reference	Area & Extend of Examination	Examination Procedure Vol.	Surf.	Vis.	Sketch Reference
62.	D2.20	Boric Acid Tank 31 Integral Attachment Component Supports			8	3-1200
63.	D2.20	Condensate Storage Tank Integral Attachment Component Supports			8	3-1230
64.	D2.20	Service Water Integral Attachment Component Supports M/S-12A-32-SW-H-11A, M/S-12A-33-SW-H&R-11A, M/S-12A-34-SW-H-11A, M/S-12A-35-SW-H&R-11A, SW-H&R-11A-22, and SW-H&R-12A-39			8	3-3411
		Systems in Support of Reactor Shutdown Function				
65.	D1.10	Pressure Retaining Boundary			(1)	

Program Item	IWD-2500-1 Reference	Area & Extend of Examination	Examination Procedure Vol.	Surf.	Vis.	Sketch Reference
		Systems in Support of Emergency Core Cooling, Containment Heat Removal, Atmosphere Clean-up, and Residual Heat Removal				
66.	D2.10	Pressure Retaining Boundary			(1)	
		Systems in Support of Residual Heat Removal from Spent Fuel Storage Pool				
67.	D3.10	Pressure Retaining Boundary			(1)	

NOTES:

(1) VT-2 Performed by Plant Personnel during conduct of System Hydrostatic Test

(2) Visual Examination per Relief Request 9, Rev. 1 and NRC Commitment

(3) Visual Examination per Code Case N-481 and NRC Commitment

(4) VT-2 Performed by Plant Personnel during System Inservice Leak Test

(5) The Telltale Hole in the Reinforcing Plate shall be examined for Leakage during System Pressure Test by Plant Personnel

(6) Surface Examination per Code Case N-435-1

Attachment 2 to IPN-00-002

Indian Point 3 Nuclear Power Plant

Repair/Replacement For the Period Between

September 13, 1997 and October 20, 1999

New York Power Authority
Indian Point 3 Nuclear Power Plant
Docket No. 50-286
DPR-64

Indian Point 3 Nuclear Power Plant Repair/Replacement
Report for the Period Between September 13, 1997 and October 20, 1999

INTRODUCTION

ASME (American Society of Mechanical Engineers) Section XI Class 1, 2, and 3 systems and components are repaired and replaced as required in accordance with the requirements of the 1983 Edition of Section XI code, including the 1983 Addenda. Repair and replacement of Class MC components are in accordance with the 1992 Edition of ASME Section XI, including the 1992 Addenda.

There were 152 Repair/Replacement travelers recorded during the aforementioned period, some of which may include multiple items. Specifically, travelers No. 516, 517, & 518 documented the replacement of over 70 Class 1, 2, & 3 snubbers (the unique number for each snubber replaced are recorded on the traveler document and associated work packages); and travelers No. 411-417 were generated conservatively to document valve inspection and repairs. Finally, Code Case N-416-1 was applied typically in lieu of performing a hydrostatic test when appropriate. As required by ASME Section XI, IWA-6000, this report summarizes these Repairs and Replacements. The completed individual NIS-2 forms and associated supporting documentation is available for review at the plant.

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

Owner: New York Power Authority (Name)
123 Main Street, White Plains N.Y. 10601 (Address)

Work Performed by: NYPA / CONTRACTORS (Name)
SAME AS OWNER (Address)

Plant: Indian Point #3 (Name)
P.O. Box 215, Buchanan N.Y. 10511 (Address)

SEE ATTACHED LIST (Work Order No., MOD No., etc.)

Identification of System: SEE ATTACHED LIST

Applicable Construction Code B31.1 19 67 Edition, _____ Addenda, _____ Code Case

Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 Edition, SUMMER Addenda

Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufact. Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced or, Replacement	ASME Code Stamped (YES/NO)
SEE ATTACHED	LIST OF COMPONENTS						

Description of Work: SEE ATTACHED LIST

Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

Remarks: SEE ATTACHED LIST OF COMPONENTS

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR/REPLACEMENT (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Signed [signature] by dis ISI Engineer (Owner or Owner's Designee, Title), Date 01/05, 2000

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 Johnston, RI and employed by Factory Mutual Insurance Co. have inspected the components described in this Owner's Report during the period 09-11-99 to 01-05-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 NB7503/NY5249 (I,N,B)
National Board, State Province, and Endorsements

Date 01-05-00

Section XI Repair/Replacement Submittal (Cycle 10)

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
1						
	491	96-00054-12	PCV 455B	REPLACE VALVE BOLTING AND SEAL	SEE DC 97-059	B05
	516	98-05312-42	VARIOUS	REPLACEMENT OF VARIOUS SNUBBERS	SEE TE 97-05720 FOR REPLACEMENT	C09
	525	98-01543-01	RC-PCV-464	REPLACE VALVE	SCHEDULED PM REPLACEMENT	B05
	526	98-01543-02	RC-PCV-466	REPLACE VALVE	SCHEDULED PM REPLACEMENT	B05
	527	98-01543-03	RC-PCV-468	REPLACE VALVE	SCHEDULED PM REPLACEMENT	B05
	538	98-03434-00	CH-342	REPLACE VALVE	SEE DC 98-3-156	E25
2						
	181	90-23878, 23924, 23904, 23905	MST-1, 2, 3, 4	REPLACE STEAM TRAP AND PIPING	REPLACE LIKE IN KIND DUE TO END OF LIFE OF COMPONENTS	F42
	255	94-01110-00	MS-45-2	REPAIR OF MAIN STEAM SAFETY VALVE MS-45-2	SCHEDULED PM INSPECTION/OVERHAUL	F42
	411	94-01109-00	MS-45-1	INSPECT / OVERHAUL VALVE	SCHEDULED PM INSPECTION/OVERHAUL	F42
	412	94-01111-00	MS-45-3	INSPECT/OVERHAUL VALVE	SCHEDULED PM INSPECTION/OVERHAUL	F42
	413	94-01112-00	MS-45-4	INSPECT / OVERHAUL VALVE	SCHEDULED PM INSPECTION/OVERHAUL	F42
	414	94-01113-00	MS-46-1	INSPECT/OVERHAUL VALVE	SCHEDULED PM INSPECTION/OVERHAUL	F42
	415	94-01114-00	MS-46-2	INSPECT/OVERHAUL VALVE	SCHEDULED PM INSPECTION/OVERHAUL	F42
	416	94-01115-00	MS-46-3	INSPECT/OVERHAUL VALVE	SCHEDULED PM INSPECTION/OVERHAUL	F42
	417	94-01116-00	MS-46-4	INSPECT/OVERHAUL VALVE	SCHEDULED PM INSPECTION/OVERHAUL	F42

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
	450	98-02939-00	MS-41	REPAIR PINHOLE LEAKS IN VALVE BONNET	CODE CASE ONLINE WELD REPAIR, SEE DER	F42
	451	98-02939-01	MS-42	REPAIR PINHOLE LEAKS IN VALVE BONNET	CODE CASE ONLINE WELD REPAIR. SEE DER	F42
	453	98-03056-00	VS-PCV-1192	REPAIR VALVE SEAT	NORMAL WEAR TO SEAT, END OF LIFE, REPLACE WITH LIKE IN KIND	E32
	456	98-03423-00	MS-42	REPAIR PINHOLE LEAK IN BONNET	CODE CASE ONLINE WELD REPAIR, SEE DER 98-1323	F42
	475	98-04240-00	SA-24-1	REPLACE BONNET AND DIAPH ASSEMBLY	SCHEDULED PM REPLACEMENT	E18
	479	98-05039-00	SW LINE 12D	REPAIR PINHOLE LEAK IN 10" SW LINE, REV 2	RT REPORT #98R026, REV 2 (ISLT AND CODE CASE), EVALUATEED WELD TO IWB-3600	F44
	480	98-05039-01	SW LINE 12D (CONT)	REPLACE PIPE AND ELBOW ON SW LINE (CONTINGENCY)	REPAIR REQUIRED DUE TO INSPECTION (RT REPORT 98R026)	F44
	503	97-04467-01	SUPPORT AC-H&R-22-5-U	REPLACE/MODIFY EXISTING SUPPORT	SEE MMP-98-3-056	D14
	504	97-04467-26	SUPPORT SA-H&R-505-U	REPLACE/MODIFY EXISTING SUPPORT	SEE MMP-98-3-056	D14
	507	97-06055-00	VS-FCV-1170	REPLACE T-RING SEAL	REPLACE PART OF SCHEDULED PM	E32
	508	97-06056-00	VS-FCV-1172	REPLACE T-RING SEAL	REPLACE PART OF SCHEDULED PM	E32
	517	98-05312-43	VARIOUS	REPLACEMENT OF VARIOUS SNUBBERS	SEE TE 97-05720 FOR REPLACEMENT	C09
	519	99-02714-01	MS-1-32	REPLACE VALVE COVER NUT/STUD FOR SEAL INJECTION REPAIR	REPAIR TO RESTORE GASKET SEALING REQUIREMENTS	F42
	522	99-02714-00	MS-1-32	REPLACE VALVE COVER NUT/STUD FOR SEAL INJECTION REPAIR	REPLACEMENT OF TEMP MOD LEAK INJECTION CAPS	F42
	543	96-02142-01	MS-42	REPLACE VALVE	SEE TE 96-003563	F42
	544	96-03890-01	MS-41	REPLACE VALVE	SEE TE 96-003563	F42
	569	98-03945-00	BD-PCV-1214A	REPLACE TRIM SET	PM INSPECTION	B07
	571	99-01206-00	PCV-1191	REPLACE FLANGE STUDS	SCHEDULED PREVENTIVE MAINTENANCE	E32

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
	576	92-03483-28	33 SI PUMP	REPLACE PUMP	PM INSPECTION RESULTS, REPLACE LIKE IN KIND	D16
	578	99-03520-00	SUPPORT PR-4/PR-5 FOR LINE #1	REPAIR SUPPORT	SEE DER 99-1841	C09
	579	99-03520-01	SUPPORT PR-4/PR-5 FOR LINE #2	REPAIR SUPPORT	SEE DER 99-1841	C09
	580	99-03520-02	SUPPORT PR-4/PR-5 FOR LINE #3	REPAIR SUPPORT	SEE DER 99-1841	C09
	581	99-03520-03	SUPPORT PR-4/PR-5 FOR LINE #4	REPAIR SUPPORT	SEE DER 99-1841	C09
	587	98-02510-00/98-02509-00/97-06964-00/97-06967-00	31, 32, 33, 34 RCP	REPLACE FLANGE BOLTING	RESULT OF PREVENTIVE MAINTENANCE INSPECTION	E25
3						
	241	96-02545-00	34 SERVICE WATER PUMP	REPLACE PUMP CASING OF SWP, EXPANSION JOINT AND BOLTING; WELD REPAIR FLANGE	REPLACE LIKE IN KIND DUE TO END OF LIFE OF COMPONENTS	F44
	242	96-05651-00	33 SERVICE WATER PUMP	REPLACE PUMP CASING OF SWP	REPLACE LIKE IN KIND DUE TO END OF LIFE OF COMPONENTS	F44
	246	95-05472-17	35ZURN STRNRBLWDN SWN-PCV-1209	REPLACE VALVE DUE TO DETERIATION	REPLACE LIKE IN KIND DUE TO END OF LIFE OF COMPONENTS	F44
	251	96-03651-07	FE-1140	REPLACE BOLTING ON FLANGE TO FLOW ELEMENT FE-1140	REPLACE LIKE IN KIND DUE TO END OF LIFE OF COMPONENTS	F44
	310	93-06888-22	AC-819A	REPLACE VALVE INTERNALS	SEE MMP 94-3-333	E21
	405	95-04423-01	SWN-H&R-407--2A-R	REPAIR SUPPORT	SEE DC 963-006	F44
	406	96-02775-00	31 CCW PUMP	REPLACE BOLTING/WASHERS	SEE DC 94-3-424	E21
	407	97-04532-00	SWN-1-4	MACHINE GASKET SURFACE	NORMAL WEAR/USE IN SERVICE WATER SYSTEM, REPLACE WITH LIKE IN KIND	F44
	418	96-06264-03	SWN-1-1	REPLACE INTERNALS	SEE DC 96-300	F44
	419	96-06264-04	SWN-1-2	REPLACE INTERNALS	SEE DC 96-300	F44

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
	420	96-06264-05	SWN-1-3	REPLACE INTERNALS	SEE DC 96-300	F44
	421	96-06264-06	SWN-1-4	REPLACE INTERNALS	SEE DC 96-300	F44
	422	96-06264-07	SWN-1-5	REPLACE INTERNALS	SEE DC 96-300	F44
	423	96-06264-08	SWN-1-6	REPLACE INTERNALS	SEE DC 96-300	F44
	424	97-07194-00	SWN-TCV-1104	REPLACE VALVE	END OF LIFE, REPLACE WITH NEW	F44
	427	96-07524-00	32 CCR A/C CONDENSERS	REPLACE MANIFOLD HEAD	END OF LIFE, REPLACE WITH NEW	E32
	428	96-07499-03	PREFAB OF ZURN PIPING	REPLACE (PREFAB) ZURN PIPING	SEE MMP-96-507	F44
	429	98-00627-00	SWP 36 FASTNERS ON FE-1139	REPLACE FASTNERS ON 36 SWP ANNUBAR (FE-1139)	BOLTS FAILED DUE TO NORMAL WEAR, REPLACE WITH LIKE IN KIND	F44
	430	96-07499-06	SWP 31 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE SWN-65-1	SEE MMP-96-507	F44
	431	95-05472-14	SWP 31 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE PCV-1205	SEE MMP-95-317	F44
	432	96-07499-13	SWP 32 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE SWN-65-2	SEE MMP-96-507	F44
	433	96-07499-14	SWP 33 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE SWN-65-3	SEE MMP-96-507	F44
	434	96-07499-15	SWP 34 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE SWN-65-4	SEE MMP-96-507	F44
	435	96-07499-16	SWP 35 ZURN STRN BLDWN	REPLACE PREFABED PIPING AN) VALVE SWN-65-5	SEE MMP-96-507	F44
	436	96-07499-17	SWP 36 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE SWN-65-6	SEE MMP-96-507	F44
	438	95-05472-16	SWP 34 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE PCV-1208	SEE MMP-95-317	F44
	439	95-05472-17	SWP 31 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE PCV-1209	SEE MMP-95-317	F44
	440	95-05472-18	SWP 34 ZURN STRN BLDWN	REPLACE PREFABED PIPING AND VALVE PCV-1210	SEE MMP-95-317	F44

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
	447	98-01867-03	35 SERVICE WATER PUMP	REPLACE PUMP	SEE DER 98-0546	F44
	448	98-00703-03	32 CCRAC CONDENSER 'A' AND 'B'	REPLACE BOTH CONDENSERS	SEE DC 963-129	F44
	449	98-02514-00	31 SERVICE WATER PUMP	REPLACEMENT OF 31 SERVICE WATER PUMP	SEE DER 98-0861	F44
	454	97-07023-00	SWN-1206	REPLACE VALVE SWN-PCV-1206 AND BOLTING	END OF LIFE, REPLACE VALVE AND BOLTING WITH LIKE IN KIND NEW	F44
	457	98-03686-00	AC-803	REPLACE ELBOW AND PIPE/WELD DEFECT REPAIR	CODE CASE (ON PREFAB TOO), SEE DER 98-1518	E21
	458	98-03734-00	SWN-TCV-1313	REPLACE VALVE	END OF LIFE OF COMPONENT, REPLACE LIKE IN KIND	F44
	459	96-02545-06	SW LINE 1085 AND U-BOLT	REPLACE FLANGE/PIPE AND U-BOLT	END OF LIFE, REPLACE WITH NEW	F44
	472	98-03905-00	SWN-TCV-1312	REPLACE VALVE	SCHEDULED PREVENTIVE MAINTENANCE	F44
	473	98-03862-00	SW LINE 1081	REPLACE PIPE AND ELBOW	END OF LIFE, REPLACE WITH LIKE IN KIND	F44
	474	98-03865-00	SW LINE 1082	REPLACE PIPE AND ELBOW	END OF LIFE, REPLACE WITH LIKE IN KIND	F44
	476	98-03907-00	SWN-TCV-1310	REPLACE VALVE	PREVENTIVE MAINTENANCE	F44
	477	98-04852-00	PCV-1207	REPLACE VALVE	LEAK BY, REPLACE	F44
	478	97-07012-00	SWP-32	REPLACE SERVICE WATER PUMP 32	DEGRADED PERFORMANCE	F44
	481	98-05042-00	SWP-36	REPLACE SERVICE WATER PUMP 36	DEGRADED PERFORMANCE, REPLACE WITH SPARE UNIT	F44
	483	97-07012-04	SW LINE 1082 AND U-BOLT	REPLACE PIPE AND UBOLTS ON SWN-H&R-1082-1-U	CORROSION/END OF LIFE	F44
	484	98-05379-00	EDG31-JW-HTX	REPLACE TUBE BUNDLE	END OF LIFE	E26
	485	97-03343-02	SUPPORT H&R-1081-6-R	REPLACE PIPE SUPPORT	SEE DC 98-149	F44

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
	486	97-03343-04	SUPPORT H&R-1082-6-R	REPLACE PIPE SUPPORT	SEE DC 98-149	F44
	487	97-03343-05	SUPPORT H&R-1084-6-R	REPLACE PIPE SUPPORT	SEE DC 98-149	F44
	488	97-03343-06	SUPPORT H&R-1085-6-R	REPLACE PIPE SUPPORT	SEE DC 98-149	F44
	489	97-03343-07	SUPPORT H&R-1086-6-R	REPLACE PIPE SUPPORT	SEE DC 98-149	F44
	490	98-01446-01	CCRAC UNIT 32	REPLACE BRAZED PIPING 32B	SEE DER 98-02435	F44
	492	98-03169-00	EDG32-JW-HTX	REPLACE TUBE BUNDLE	SCHEDULED PM, END OF LIFE, REPLACE WITH NEW LIKE IN KIND	F44
	495	95-05472-33	SWN-PCV-1210	REPLACE VALVE	SEE DC 95-317	F44
	499	97-02328-00	AC-831A	REPLACE VALVE	VALVE LEAK BY, SEE TE 96-005193	E21
	500	96-05786-00	FCV-1176A	REPLACE VALVE	LIKE IN KIND, SEE WR 96-05786-04/06	F44
	505	98-03736-00	CCR AC 31 CONDENSER	REPLACE BOLTING/HEADS	DAMAGED DURING REMOVAL, REQUIRES REPLACEMENT	F44
	506	96-02109-00	SWN-100-2	REPLACE VALVE AND BOLTING	SEE WR 96-02679-00	F44
	509	99-01842-00	SWN-TCV-1310	REPLACE VALVE	LIKE IN KIND	F44
	510	93-03719-16	MS-PCV-1139/SUPP MS-R-102712G	REPLACE VALVE PER MMP- 97-3-320	SEE MMP 97-3-320	F39
	513	98-03170-00	33 LUBE OIL HEAT EXCHANGER	REPLACE HEAT EXCHANGER	SCHEDULED PM REPLACEMENT	F44
	518	98-05312-44	VARIOUS	REPLACEMENT OF VARIOUS SNUBBERS	SEE TE 97-05720 FOR REPLACEMENT	C09
	521	98-02982-00	36 SWP VACUUM BREAKER	REPLACE SEAT AND STUD	SCHEDULED PM REPLACEMENT	F44
	523	99-00264-00	31 LUBE OIL HEAT EXCHANGER	REPLACE HEAT EXCHANGER	SCHEDULED PM REPLACEMENT	F44

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
	524	99-00265-00	32 LUBE OIL HEAT EXCHANGER	REPLACE HEAT EXCHANGER	PM REPLACEMENT	F44
	529	98-04161-00	LINE 11C	REPLACE FLANGE AND SPOOL	SEE IP3-CALC-SWS-02199	F44
	534	99-01248-00	LINE 409, 2" PIPE CAP	REPLACE CAP	REPLACEMENT TO FACILITATE INSPECTION	F44
	536	99-02744-03	LINE 411	REPLACEMENT OF SPOOL PIECE	END OF LIFE, REPLACE WITH NEW LIKE IN KIND	F44
	539	99-00233-00	CCRAC CONDENSER A/B	REPLACE BOLTING	MAINTENANCE DAMAGE DURING REMOVAL	F44
	541	98-02823-00	31 S/G ATMOS STM DUMP VLV	REPLACE TRIM ASSEMBLY	END OF LIFE, REPLACE WITH NEW LIKE IN KIND	F42
	542	98-02512-00	SISCCW33-CWP3	REPLACE PUMP, BOLTS AND ORIFICE PLATE	PREDICTIVE MAINTENANCE, IST TREND	E21
	545	99-03427-00	SW LINE 1093	REPLACE PIPING DOWNSTREAM OF SWN-30	SEE DER 99-01734/1677	F44
	547	88-14063-00	AC-831B	REPLACE VALVE AND ASSOCIATED PIPING	SEE TE 99-05195	E21
	548	99-03483-00	LINE #408	REPLACE PIPE	END OF LIFE, REPLACE WITH NEW LIKE IN KIND	F44
	549	99-03484-00	SWN PIPE LINE	REBUIILD INNER WALL OF PIPE	END OF LIFE, REPLACE WITH NEW LIKE IN KIND	F44
	550	99-00240-00	AC-792	REPLACE INTERNALS	SCHEDULED PREVENTIVE MAINTENANCE	E21
	551	99-03499-00	LINE 11E	REPIAR PIPE, WELD BUILDUP	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	552	99-03503-00	SW LINE 43-4	REPAIR SOCKET WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	553	99-03501-00	SW LINE 409	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	554	99-03508-00	SW LINE 408	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	555	99-03509-00	SW LINE 11C	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
	556	99-03510-00	SW LINE 408	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	557	99-03507-00	SW LINE 409	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	558	99-03518-00	SW LINE 409	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	559	99-03514-00	SW LINE 11C, WELD EOC-20	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	560	99-03516-00	SW LINE 409, WELD PAB-8	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	561	99-03522-00	SW LINE 12D, WELD VC-44	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	562	99-03521-00	SW LINE 12E, WELD VC-39	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	563	99-03523-00	SW LINE 12C, WELD VC-36	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	564	99-03524-00	SW LINE 11E, WELD VC-49	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	565	99-03525-00	SW LINE 12B, WELD VC-37	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	566	99-03528-00	SW LINE 12C	REPAIR WELD	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	568	98-02685-01	AC-819A	REPLACE VALVE	SCHEDULED PREVENTIVE MAINTENANCE	E21
	570	99-03548-00	SW LINE 408, 2" CAP	REPLACE WELD IN 2" CAP	SEE DER 99-02009	F44
	572	99-03427-03	SWN PIPE	REWELD PIPE	UT INSPECTION RESULTS, REWELD TO EXTEND	F44
	573	98-02867-01	SWN 42-1	REPAIR VALVE	PM INSPECTION RESULTS, REPLACE LIKE IN KIND	F44
	574	94-05072-00	AC-759D	REPLACE BODY/BONNET FASTENERS AS REQ'D	PM INSPECTION RESULTS, REPLACE LIKE IN KIND	E21
	575	98-0592-00	AC-766C	REPLACE BODY/BONNET FASTENERS AS REQ'D	PM INSPECTION RESULTS, REPLACE LIKE IN KIND	E21

ISI Class	Sect XI Job #	Associated WR #	Component(s)	Description of Work	Repair/Replcmnt Verification	Sys #
	577	99-03575-00	FCV-1176	REPLACE VALVE	EXTENT OF CONDITION, SEE WR 96-05786-04/06 PER DESIGN ENG	F44
	582	96-03876-00	32 FCU	REPLACE WATERBOX COVER BOLTING	PREVENTIVE MAINTENANCE	F44
	590	98-02685-02	AC-819A	REPLACE VALVE	PM INSPECTION	E21
3A						
	583	98-02687-02	SWN-42-2	REPAIR VALVE	PREVENTIVE MAINTENANCE	F44
	584	98-02687-03	SWN-42-4	REPAIR VALVE	PREVENTIVE MAINTENANCE	F44
	585	98-02687-04	SWN-42-3	REPAIR VALVE	PREVENTIVE MAINTENANCE	F44
	586	98-02687-05	SWN-42-5	REPAIR VALVE	PREVENTIVE MAINTENANCE	F44
MC						
	401	97-04510-00	95' AIRLOCK	REPLACE DOOR GASKETS	SCHEDULED PREVENTIVE MAINTENANCE	C09
	402	97-05005-00	80' AIRLOCK	REPLACE DOOR GASKETS	SCHEDULED PREVENTIVE MAINTENANCE	C09
	404	97-05280-00	80' AIRLOCK	REPAIR DOOR SEALS	REPLACE SEALS DUE TO PREVIOUS DAMAGE	C09
	408	97-04510-04	95' AIRLOCK	REPAIR SEALS	DAMAGED DURING USE, REPLACE WITH LIKE IN KIND	C09
	409	97-05280-02	80' AIRLOCK INNER DOOR	REPAIR / REPLACE DOOR SEALS	DAMAGED DURING USE, REPLACE WITH LIKE IN KIND	C09
	410	97-05280-04	80' AIRLOCK OUTER DOOR	REPAIR / REPLACE DOOR SEALS	SEE DER 97-2458, DAMAGED, REPLACE WITH LIKE IN KIND	C09
	452	93-01603-41	FUEL TRANSFER TUBE	REMOVAL AND REINSTALLATION OF PENETRATION	PENETRATION INSPECTION SUPPORT REMOVAL	C09
	493	96-00669 01	FUEL TRANSFER TUBE	REPLACE FLANGE WITH 4 BOLT FLANGE	SEE DC-086	C09
	588	99-03009-00	PENETRATION	REPLACE BOLTING	BROKEN DURING MAINTENANCE, REPLACE LIKE IN KIND	C09
	589	99-02598-01	EQUIPMENT HATCH	REPLACE BOLT AND NUT	BROKEN DURING MAINTENANCE, REPLACE LIKE IN KIND	C09