

Attachment 1 to IPN-97-166

**Indian Point 3 Nuclear Power Plant
Inservice Inspection Report
For Cycle 9/10 Refueling Outage**

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

9712220216 971210
PDR ADOCK 05000286
Q PDR

EXAMINATION PROGRAM PLAN

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; 1ST OUTAGE

REPORT DATE: AUGUST, 1997

PREPARED BY:

WESDYNE INTERNATIONAL

A Subsidiary of WESTINGHOUSE

6011 Enterprise Drive

Export, Pa. 15632

FORM NIS-1, OWNER'S DATA 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, P.O. BOX 215, BROADWAY AND BLEAKLEY, BUCHANAN, NEW YORK 10511
3. PLANT UNIT - No. 3
4. OWNER CERTIFICATE OF AUTHORIZATION - N/A
5. COMMERCIAL SERVICE DATE - AUGUST 30, 1976
6. NATIONAL BOARD NUMBER FOR UNIT - N/A
7. COMPONENTS INSPECTED -

<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
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	--	--

FORM NIS-1, OWNER'S DATA 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, P.O. BOX 215, BROADWAY AND BLEAKLEY, BUCHANAN, NEW YORK 10511
3. PLANT UNIT - No. 3
4. OWNER CERTIFICATE OF AUTHORIZATION - N/A
5. COMMERCIAL SERVICE DATE - AUGUST 30, 1976
6. NATIONAL BOARD NUMBER FOR UNIT - N/A
7. COMPONENTS INSPECTED -

<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
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 Equipment	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

FORM NIS-1, OWNER'S DATA 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, P.O. BOX 215, BROADWAY AND BLEAKLEY, BUCHANAN, NEW YORK 10511
3. PLANT UNIT - No. 3
4. OWNER CERTIFICATE OF AUTHORIZATION - N/A
5. COMMERCIAL SERVICE DATE - AUGUST 30, 1976
6. NATIONAL BOARD NUMBER FOR UNIT - N/A
7. COMPONENTS INSPECTED -

<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
Reactor Coolant Filter	Commercial Filters	16352-1258	--	958
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	--	--

FORM NIS-1, OWNER'S DATA 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, P.O. BOX 215, BROADWAY AND BLEAKLEY, BUCHANAN, NEW YORK 10511
3. PLANT UNIT - No. 3
4. OWNER CERTIFICATE OF AUTHORIZATION - N/A
5. COMMERCIAL SERVICE DATE - AUGUST 30, 1976
6. NATIONAL BOARD NUMBER FOR UNIT - N/A
7. COMPONENTS INSPECTED -

<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
Safety Injection Pump 32	Pacific Pump	43465	--	--
Safety Injection Pump 33	Pacific Pump	43466	--	--
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	--	--	--
Cooling Water Heat Exchanger 31	Whitlock	76187	--	9590
Cooling Water Heat Exchanger 32	Whitlock	76188	--	9591

FORM NIS-1, OWNER'S DATA 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, P.O. BOX 215, BROADWAY AND BLEAKLEY, BUCHANAN, NEW YORK 10511
3. PLANT UNIT - No. 3
4. OWNER CERTIFICATE OF AUTHORIZATION - N/A
5. COMMERCIAL SERVICE DATE - AUGUST 30, 1976
6. NATIONAL BOARD NUMBER FOR UNIT - N/A
7. COMPONENTS INSPECTED -

<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
Recirculation Fan Cooler 34	Westinghouse	4S-70	--	--
Recirculation Fan Cooler 35	Westinghouse	1S-70	--	--

FORM NIS-1 (back)

8. Examination Dates 5-14-97 to 9-12-97 9. Inspection Interval from 8-30-86 to 7-21-99

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 December 9 19 97 Signed [Signature] By IP3 Site Executive Officer
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date _____

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 H.S.B.I & I Co. of Hartford, CT have inspected the components described in this Owners' Data Report during the period 5-8-97 to 11-26-97, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' 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 11-26 19 97

[Signature]
Inspector's Signature

Commissions NB 10011 I.N
National Board, State, Province and No.

**NEW YORK POWER AUTHORITY
INDIAN POINT UNIT NO. 3
INSERVICE INSPECTION SUMMARY
2ND INTERVAL; 3RD PERIOD; 1ST OUTAGE
1997**

INTRODUCTION

An Inservice Examination was performed at the Indian Point Unit No. 3 Nuclear Power Plant during May, June, July and August 1997 by Westinghouse Electric Corporation, WesDyne International, and New York Power Authority - Indian Point Unit No. 3, of Class 1, Class 2, and Class 3 components and piping. The examinations were performed in accordance with an approved Examination Program Plan located under Tab C of the Final Report.

Examinations were performed to satisfy the requirements of:

- ASME Boiler and Pressure Vessel Code Section XI, 1983 Edition up to and including Summer 1983 Addenda
- ASME Boiler and Pressure Vessel Code Section XI, 1986 Edition, Appendix VI
- Surface Examination of Class 1 Steam Generator Manway Bolting per Indian Point Unit No. 3 commitment to the United States Nuclear Regulatory Commission
- Volumetric Examination of 7.5% of Containment Spray Piping Welds outside of Containment per Indian Point Unit No. 3 commitment to the United States Nuclear Regulatory Commission

Examination procedures were approved prior to the examinations, and certification documentation relative to personnel, equipment, and materials were reviewed and determined to be satisfactory. Inspection, review, witnessing and surveillance were conducted by personnel from the Nuclear Regulatory Commission, the Hartford Steam and Boiler Authorized Nuclear Inservice Inspectors, and the New York Power Authority Quality Assurance Department.

RESULTS

Examinations based on the Examination Program Plan noted 16 recordable indications on the basis of Westinghouse procedure recording criteria, which, generally are more critical than specified ASME Boiler and Pressure Vessel Section XI acceptance criteria. These indications consisted of (a) 1 Volumetric - determined as not serviced induced - resulting from fabrication, (b) 7 Surface - which one was determined to be from installation - fabrication, and all others accepted, (c) 8 Visual - 7 being IWF components, and 1 being IWD, of which all indications were evaluated and corrected or accepted as appropriate to maintain integrity of the individual components.

Specific data relative to all the indications including dispositions, DER's and Acceptance Standards are located under Tab D and Tab F of the Final Report.

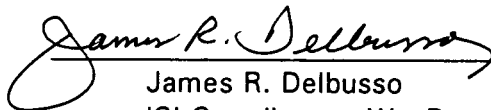
EXAMINATION

Examinations were conducted to inspect as much of the specified surface/volume 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 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. Specified limitations and restrictions for all examinations are indicated on the examiners data sheets, located under Tab D of the Final Report. One weld initially selected for examination, Weld 1 on sketch INT-4202, was only 25 % inspected due to the Tee to Valve configuration. Alternatively, another weld on the same sketch, Weld 5, under the same code category, was selected for examination to obtain the required weld volume.

The following items were examined by New York Power Authority Indian Point Unit No. 3 personnel:

- Class 1 System Leakage Test



James R. Delbusso

ISI Coordinator, WesDyne International
Westinghouse Nuclear Services Division

10-2-97

Date

**Inservice Examination Program Plan
For
New York Power Authority
Indian Point Unit No. 3
1st Outage: 3rd Period: 2nd Interval
1997**

This document details the proposed planned scope of examination by Westinghouse Nuclear Services Division Inspection Services for the 1st Outage, 3rd Period, 2nd Interval, including items and areas selected for examination and documentation procedures and sketches containing identifications of all areas to be examined.

Qualifications of examiners, materials and equipment will be available on site prior to the start of examinations.

Efforts should be made to provide access to all planned examinations, however, due to circumstances such as environment, access, radiation levels, etc., some variations may occur.

This program and the procedures incorporated herein require approval of New York Power Authority and the Authorized Inspector prior to the start of examinations.

Prepared By: WESTINGHOUSE ELECTRIC CORPORATION

W Approval: James R. Delbussay 5-8-97
Site Coordinator Date

New York Power
Authority Approval: Andrew J. [Signature] 5-8-97
Date

Title: ISI Coordinator

Authorized Inspector
Review: [Signature] 5-15-97
Date

Agency: H.S.B. I & I Co.

**NEW YORK POWER AUTHORITY
INDIAN POINT UNIT NO. 3
INSERVICE INSPECTION PROGRAM
2ND INTERVAL; 3RD PERIOD; 1ST OUTAGE
1997**

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, to the extent practical with the access provided and the limitations of component geometry.

Program Item	IWB-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
<u>Reactor Vessel</u>						
1.	B1.40	R.V. Closure Head to Flange Weld 1 From centerline of Stud Hole 36, Clockwise thru Stud Hole 54 to center- -line of Stud Hole 1	47	70		1-1300
2.	B4.12	Control Rod Housing #78			(1)	1-1300
3.	B4.13	Instrumentation Nozzle #58			(1)	1-1300
4.	B6.10	R.V. Closure Head Nuts 37 thru 54		70		1-1400
5.	B6.30	R.V. Closure Head Studs 37 thru 54	115	70		1-1400
6.	B6.50	R.V. Closure Head Washers 37 thru 54			8	1-1400
7.	B7.80	Conoseal Bolting Assemblies 77 and 78			8	1-1300
8.	B14.10	Control Rod Drive Housing Welds 45, 58, 62, and 69		11		1-1300
9.	B15.10	Pressure Retaining Boundary			(2)	
<u>Pressurizer</u>						
10.	B2.11	Circumferential Weld 1, from 200" clockwise through 290.05"	47			1-2100
11.	B2.12	Longitudinal Weld 2, from the inter- secting of circumferential Weld 1, 28" thru 32"	47			1-2100
12.	B2.11	Circumferential Weld 17			(2)	1-2100

Program Item	IWB-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
13.	B2.12	Longitudinal Weld 16			(2)	1-2100
14.	B8.20	Integrally Welded Attachment Support Skirt Weld 18 from 200" clockwise thru 290.05"	206			1-2100
15.	B15.20	Pressure Retaining Boundary			(2)	
		<u>Replacement Steam Generator 31</u>				
16.	B2.40	Channel Head to Tube Sheet Weld 31-1, From 135" clockwise thru 270"	47			1-3101
17.	B15.30	Pressure Retaining Boundary			(2)	
		<u>Replacement Steam Generator 32</u>				
18.	B3.140	Nozzle Inside Radius Section 32-1A and 32-1B	248			1-3101
19.	B15.30	Pressure Retaining Boundary			(2)	
		<u>Replacement Steam Generator 33</u>				
20.	B3.140	Nozzle Inside Radius Section 33-1A	248			1-3101
21.	B7.30	Hotleg and Coldleg Manway Bolting, 16 Studs, 16 Nuts, and 32 Washers each Manway			8	1-3101
22.	B7.30	Hotleg and Coldleg Manway Bolting, 4 Studs each Manway, 1 from each Quadrant		70 (8)		1-3101
23.	B7.30	Hotleg Manway Studs 3 and 9			8 (9)	1-3101
24.	B15.30	Pressure Retaining Boundary			(2)	
		<u>Replacement Steam Generator 34</u>				
25.	B7.30	Hotleg and Coldleg Manway Bolting, 16 Studs, 16 Nuts, and 32 Washers each Manway			8	1-3101
26.	B7.30	Hotleg and Coldleg Manway Bolting, 4 Studs each Manway, 1 from each Quadrant		70 (8)		1-3101
27.	B15.30	Pressure Retaining Boundary			(2)	

Program Item	IWB-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
<u>Pressure Retaining Welds in Piping</u>						
28.	B9.40	Loop 31, 2" Line 843 SIS Hotleg, Socket Welds 40, 41, 42, 43, 44, and 45		11		1-4102
29.	B5.70	Loop 32, Reactor Coolant Pipe, Steam Generator Nozzle to Safe End Butt Dissimilar Metal Weld 6(DM)	206	11		1-4200
30.	B9.11	Loop 32, Reactor Coolant Pipe Circumferential Welds 7 and 8	206	11		1-4200
31.	B9.12	Loop 32, Reactor Coolant Pipe Longitudinal Welds 17 and 18, 0" thru 12" from Circ Weld 8	(3)	11		1-4200
32.	B9.11	10" Line 352, Accumulator Discharge Circumferential Welds 2, 3, 5, 9, and 10	206	11		1-4202
33.	B9.11	6" Line 356, RHR Circumferential Weld 1	206	11		1-4202
34.	B9.32	Loop 32 3" Line 777, RTD, Branch Pipe Connection Weld 12(BC)		11		1-4204
35.	B9.32	Loop 32 2" Line 82, Drain, Branch Pipe Connection Weld 1(BC)		11		1-4209
36.	B5.70	Loop 33, Reactor Coolant Pipe, Steam Generator Nozzle to Safe End Butt Dissimilar Metal Welds 5(DM) and 6(DM)	206	11		1-4300
37.	B9.11	Loop 33, Reactor Coolant Pipe, Circumferential Weld 3	206	11		1-4300
38.	B9.31	Loop 33, 10" Plocap, Branch Pipe Connection Weld 33(BC)	206	11		1-4302
39.	B9.40	Loop 33, 2" Line 56 SIS, Socket Welds 1, 2, 3, 4, 5, 6, 34, 35 and 36		11		1-4302
40.	B9.40	Loop 33, 2" and 1.5" Line 43, Seal Injection, Socket Welds 1, 2, 3, 4, 5, 6, and 7		11		1-4307
41.	B9.40	Loop 34, 1.5" Line 16 SIS Coldleg Socket Welds 8 and 9		11		1-4406

Program Item	IWB-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
42.	B9.40	Loop 34, 2" Line 44, Seal Injection Socket Welds 1, 2, 3, and 4		11		1-4407
43.	B5.40	Pressurizer Safety Nozzle to Safe End Butt Dissimilar Metal Weld 1(DM)	206	11		1-4502
44.	B9.11	6" Pressurizer Safety Line 343, Circumferential Welds 7 and 8	206	11		1-4502
45.	B5.40	Pressurizer Spray Nozzle to Safe End Butt Dissimilar Metal Weld 16(DM)	206	11		1-4504
46.	B9.11	4" Line 61, Pressurizer Spray Line 61, Circumferential Weld 3	206	11		1-4504
47.	B5.40	Pressurizer Relief Nozzle to Safe End Butt Dissimilar Metal Weld 1(DM)	206	11		1-4505
48.	B9.21	3" Line 70, Pressurizer Relief Circumferential Welds 6, 7, and 8		11		1-4505
49.	B9.21	3" Line 61, Pressurizer Spray Circumferential Welds 24, 25, 26, and 27		11		1-4507
50.	B9.32	2" Line 64, Auxiliary Spray, Branch Pipe Connection Weld 29(BC)		11		1-4508
51.	B9.40	2" Line 64, Auxiliary Spray, Circumferential Welds 27 and 28		11		1-4508
<u>Flange Bolting</u>						
52.	B7.50	1.5" Line 43, Seal Injection, Flange A 4 Studs and 8 Nuts			8	1-4307
53.	B7.50	1.5" Line 44, Seal Injection, Flange A 4 Studs and 8 Nuts			8	1-4407
54.	B7.50	6" Line 343, Pressurizer Safety, Flange A, 12 Studs and 24 Nuts			8	1-4502
<u>Valve Bolting</u>						
55.	B7.70	3" Line 79, Letdown, Valve 342 - 2 Studs and 2 Nuts Valve LCV459 - 6 Studs and 6 Nuts Valve LCV460 - 6 Studs and 6 Nuts			8	1-4103

Program Item	IWB-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
56.	B7.70	10 " Line 352, Accumulator Discharge Valve 897B - 16 Studs and 16 Nuts			8	1-4202
57.	B7.70	6" Line 356, RHR, Valve 838B 12 Studs and 12 Nuts			8	1-4202
58.	B7.70	6" Line 342, Pressurizer Safety, Valve PCV464, 8 Studs and 8 Nuts			8	1-4501
59.	B7.70	6" Line 343, Pressurizer Safety, Valve PCV466, 8 Studs and 8 Nuts			8	1-4502
60.	B7.70	6" Line 344, Pressurizer Safety, Valve PCV468, 8 Studs and 8 Nuts			8	1-4503
61.	B7.70	Loop 31, 3' Line 96, Charging, Valves 210B and 210D 12 Studs and 12 Nuts each			8	1-4600
62.	B7.70	Loop 32, 3' Line 80, Charging, Valves 210A and 210C 12 Studs and 12 Nuts each			8	1-4601
<u>Valve Interior</u>						
63.	B12.50	14" Line 10, RHR Hotleg Take-Off Valve 730			8	1-4201
<u>Integrally Welded Attachments</u>						
64.	B10.10	10" Line 353, Accumulator Discharge, PWR-4		11		1-4301
<u>Piping</u>						
65.	B15.50	Pressure Retaining Boundary			(2)	
<u>Reactor Coolant Pump 31</u>						
66.	BRG1.14	Motor Pump Flywheel	41	11		1-5100
67.	B15.60	Pressure Retaining Boundary			(2)	1-5100
68.	B15.61	Pressure Retaining Boundary			(1)	1-5100
<u>Reactor Coolant Pump 32</u>						
69.	B7.60	Seal Housing Bolting 1 thru 18			8	1-5100

Program Item	IWB-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
70.	B15.60	Pressure Retaining Boundary			(2)	1-5100
71.	B15.61	Pressure Retaining Boundary			(1)	1-5100
		<u>Reactor Coolant Pump 33</u>				
72.	B7.60	Seal Housing Bolting 1 thru 18			8	1-5100
73.	B15.60	Pressure Retaining Boundary			(2)	1-5100
74.	B15.61	Pressure Retaining Boundary			(1)	1-5100
		<u>Reactor Coolant Pump 34</u>				
75.	B7.60	Seal Housing Bolting 1 thru 18			8	1-5100
76.	BRG1.14	Motor Pump Flywheel	41	11		1-5100
77.	B15.60	Pressure Retaining Boundary			(2)	1-5100

Program Item	IWC-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
		<u>Replacement Steam Generator 31</u>				
78.	C1.10	Lower Transition to Shell Weld 31-5	47			2-1101
79.	C1.30	Shell to Tubesheet Weld 31-2, from 135" thru 270" from 0 Reference.	47			2-1101
		<u>Regenerative Heat Exchanger</u>				
80.	C1.20	Head Circumferential 12	206			2-1110
81.	C1.30	Tubesheet to Shell Weld 11	206			2-1110
		<u>Residual Heat Exchanger 31</u>				
82.	C1.10	Shell Circumferential Weld 31-2, from 74" Clockwise thru 108.33" from 0 Reference	206	11 (4)		2-1120
83.	C1.20	Head Circumferential Weld 31-1, from 74" Clockwise thru 108.33" from 0 Reference	206	11 (4)		2-1120
84.	C2.31	Reinforcing Plate Weld to Vessel Weld 31-4		11		2-1120

Program Item	IWC-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
85.	C3.10	Integrally Welded Attachment 31-2WS		11		2-1120
		<u>Seal Water Heat Exchanger</u>				
86.	C1.10	Shell Circumferential Weld 2 from 34" Clockwise thru 50.24" from 0 Reference	(3)	11		2-1130
87.	C1.20	Head Circumferential Weld 1 from 34" Clockwise thru 50.24" from 0 Reference	(3)	11		2-1130
		<u>Non Regenerative Letdown Heat Exchanger</u>				
88.	C1.10	Shell Circumferential Weld 2 from 48" Clockwise thru 69.08" from 0 Reference	206	11 (4)		2-1140
89.	C1.20	Head Circumferential Weld 1 from 48" Clockwise thru 69.08" from 0 Reference	206			2-1140
		<u>Excess Letdown Heat Exchanger</u>				
90.	C1.10	Shell Circumferential Weld 2 from 20" Clockwise thru 29.85" from 0 Reference	206	11 (4)		2-1150
91.	C1.20	Head Circumferential Weld 1 from 20" Clockwise thru 29.85" from 0 Reference	206			2-1150
		<u>Volume Control Tank</u>				
92.	C1.20	Head Circumferential Welds 1 and 2 from 200" Clockwise thru 284.17" from 0 Reference	206			2-1200
		<u>Accumulator Tank 32</u>				
93.	C1.20	Head Circumferential Weld 32-1 from 252" Clockwise thru 376.8" from 0 Reference	47	11 (4)		2-1210
		<u>Boron Injection Tank</u>				
94.	C1.20	Head Circumferential Welds 1 and 2 from 60" Clockwise thru 167.6" from 0 Reference	206	11 (4)		2-1220
95.	C2.31	Reinforcing Plate to Vessel Weld 6		11		2-1220

Program Item	IWC-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
<u>Integral Attachments for Piping</u>						
96.	C3.20	Integrally Welded Attachment MSR-13		70 (6)		2-2101
97.	C3.20	Integrally Welded Attachment MSR-30		70		2-2201
98.	C3.20	Integrally Welded Attachment AC-H-9-3		11		2-2511
99.	C3.20	Integrally Welded Attachment AC-H-9-12		11		2-2511
100.	C3.20	Integrally Welded Attachments SI-H&R-550-4 and SI-H&R-550-7		11		2-2543
<u>Pressure Retaining Welds in Piping</u>						
101.	C5.21	Loop 31 18" Line 6 Feedwater, Circumferential Weld 1	206	70 (8)		2-2102
102.	C5.11	12" Line 155 RHR, Circumferential Welds 25,26, and 27		11		2-2500
103.	C5.12	12" Line 155 RHR, Longitudinal Welds 63LS and 64LS		11		2-2500
104.	C5.11	14" Line 10 RHR, Circumferential Weld 41		11		2-2500
105.	C5.12	14" Line 10 RHR, Longitudinal Welds 71LS and 72LS		11		2-2500
106.	C5.11	8" Line 9 RHR, Circumferential Weld 2		11		2-2510
107.	C5.11	12" Line 9 RHR, Circumferential Weld 16		11		2-2510
108.	C5.12	12" Line 9 RHR, Longitudinal Weld 41LS		11		2-2510
109.	C5.11	12" Line 9 RHR, Circumferential Weld 18		11		2-2511
110.	C5.12	12" Line 9 RHR, Longitudinal Weld 33LS		11		2-2511
111.	C5.11	8" Line 9 RHR, Circumferential Weld 22		11		2-2512
112.	C5.11	8" Line 293 RHR, Circumferential Weld 12		11		2-2520
113.	C5.11	10" Line 293 RHR, Circumferential Weld 22		11		2-2520
114.	C5.11	6" Line 89 RHR, Circumferential Weld 24		11		2-2530

Program Item	IWC-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
115.	C5.11	8" Line 94 RHR, Circumferential Weld 33		11		2-2530
116.	C5.11	8" Line 60 RHR, Circumferential Welds 50, 51, and 52		11		2-2530
117.	C5.21	8" Line 359 RHR, Circumferential Weld 2	206	11		2-2533
118.	C5.11	6" Line 550 SIS, Circumferential Welds 15 and 16		11		2-2543
119.	C5.11	6" Line 3042 RHR, Circumferential Weld 3		11		2-2544
120.	AUG.	8" Line 51, Containment Spray Circumferential Welds 20, 21 and 22	206 (7)			2-2600
121.	AUG.	8" Line 15, Containment Spray Circumferential Welds 21, 22 and 23	206 (7)			2-2601

Program Item	IWD-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
122.	D2.20	Component Cooling Surge Tank 31 Integral Attachment Component Supports			8	3-1210
123.	D2.20	Spray Additive Tank Integral Attachment Component Supports			8	3-1220
124.	D2.20	Boric Acid Filter 31, Integral Attachment Component Supports			8	3-1300
125.	D2.20	Safety Injection Pump 33, Integral Attachment Component Supports			8	3-1520
126.	D2.20	Recirculation Spray Pumps 31 and 32 Motor Coolers Integral Attachment Component Supports			8	3-1540
127.	D2.20	Component Cooling Water Integral Attachment Component Support AC-H&R-519			8	3-3500
128.	D2.20	Component Cooling Water Integral Attachment Component Support AC-H-52-6			8	3-3504

Program Item	IWC-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
129.	D2.20	Component Cooling Water Integral Attachment Component Support AC-H&R-53-17C			8	3-3508
130.	D2.20	Component Cooling Water Integral Attachment Component Supports M/S-13-3B-AC-H-14 and AC-H-13-3B			8	3-3509
131.	D2.20	Auxiliary Feedpump Piping Integral Component Supports CT-H-1071-1, CT-H-1071-4, and CT-H-1071-7			8	3-3700
132.	D2.20	Auxiliary Feedpump Piping Integral Attachment Component Supports CT-H-1073-5 and CT-H&R-1072-1			8	3-3701
133.	D2.20	Auxiliary Feedpump Piping Integral Attachment Component Supports V-A-1016-1, V-A-1017-2 and V-H-1017-1			8	3-3702
134.	D2.20	Auxiliary Feedwater Piping Integral Attachment Component Supports BFD-H-1003-1A and BFD-H-1005-1A			8	3-3703
135.	D2.20	Auxiliary Feedwater Piping Integral Attachment Component Support BFD-H-1001-1B			8	3-3705
136.	D2.20	Nuclear Service Water Pump 34 Integral Attachment Component Support			8	3-4100
137.	D2.20	Boric Acid Transfer Pump 31 Integral Attachment Component Support			8	3-4120
138.	D2.20	Auxiliary Component Cooling Pump 31 Integral Attachment Component Support			8	3-4160
139.	D2.20	Spent Fuel Pit Pumps 31 and 32 Integral Attachment Component Supports			8	3-4170
140.	D2.20	Nuclear Service Water Pump Strainer 34 Integral Attachment Component Supports			8	3-4180
141.	D2.20	Conventional Service Water Pump Strainer 31 Integral Attachment Component Supports			8	3-4190

Program Item	IWF-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis.	
<u>Component Supports and Hangers</u>						
142.	F3.10	4" Line 61, Pressurizer Spray, PWR-103 and RC-H-61-10			8	1-4504
143.	F3.10	3" Line 61, Pressurizer Spray, RC-H-61-1			8	1-4507
144.	F3.10	Loop 32, 28"Line 1 Mainsteam, MSR-8 and MSR-18			8	2-2201
145.	F3.10	Loop 34, 18" Line 8 Feedwater, PR-2			8	2-2402
146.	F3.10	14" Line 10, RHR, AC-H-10-18C, 14" Line 57, RHR, AC-H-207, and 14" Line 653, RHR, AC-H-653-1A			8	2-2500
147.	F3.10	8" Line 60, RHR, SI-R-404, and SI-H-60-9			8	2-2530
148.	F3.10	6" Line 356, RHR, SI-H-170 and SI-H-173			8	2-2541
149.	F3.10	6" Line 361, RHR, SI-H-198, and SI-R-361-8			8	2-2542
150.	F3.10	6" Line 550, SIS, SI-H&R-550-4, and SI-H&R-550-7			8	2-2543

NOTES:

- (1) VT-2 Performed by Plant Personnel during conduct of System Hydrostatic Test
- (2) VT-2 Performed by Plant Personnel during System Leakage Test
- (3) Surface Examination Only per Relief Request
- (4) Surface Examination to be Performed per NRC Commitment if Volumetric Examination of Weld Required Volume is 50% or Less
- (5) Surface Examination Performed per NRC Commitment
- (6) Perform 7.5% Augmented Volumetric Examination (6 Welds) per NRC Commitment.
- (7) Examined per response to NRC Information Notice 93-20
- (8) Examined per NRC request and commitment by NYPA to include in Augmented Program
- (9) Pre-Service Examination

Attachment 2 to IPN-97-166

**Indian Point 3 Nuclear Power Plant
Repair/Replacement For the Period Between
February 1, 1992 and September 12, 1997**

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 February 1, 1992 and September 12, 1997

INTRODUCTION

ASME (American Society of Mechanical Engineers) Section XI Class 1, 2 and 3 systems and components are repaired and/or 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.

As a result of the extended period covered by this report (February 1992 to September 1997), this list includes an unusual number of repairs and replacements, and a large volume of associated documentation. As required by ASME XI IWA - 6000, this report summarizes these repairs and replacements. Completed 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
Plant Indian Point #3
Name
P.O. Box 215, Buchanan N.Y. 10511
Address

Work Performed by NMPA / CONTRACTORS
Name
SAME AS OWNER
Address
SEE ATTACHED LIST
Work Order No., MOD No., etc.

Identification of System SEE ATTACHED LISTApplicable Construction Code SEC III/B31.1 1967 Edition, Addenda, Code CaseApplicable Edition of Section XI Utilized for Repairs or Replacements 1983 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 C Stamp (Yes or 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 conforms to the rules of the ASME Code, Section XI
repair or replacement

Signed [Signature] R/R COOR Date 11/26/97 1997
Owner or Owner's Designer, 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 NEW YORK and employed by A.S.B. I & I Co of HARTFORD, CT have inspected the components described in this Owner's Report during the period 2-1-92 to 9-12-97 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.

Inspector's Signature

Date 11-26Commissions NB 10011 I.N.

National Board, State, Province, and Endorsements

19 97

Section XI Repair/Replacement Report (Items From 2/1/92 Through 9/12/97, R09 Outage)

08-Dec-97

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
055	92-01658-00	1	RPV STUD #18	REPLACE STUD
058	92-90499	1	RPV UPPER INTERNALS	REPAIR FUEL ASSY ALIGNMENT PINS
059	91-28060	1	RC PCV 466	REPLACE SPINDLE ON PRESSURIZER SAFETY
070	92-32081	1	SI 897B 32 ACCUM TANK	REPLACE BODY BOLTS ON 32 ACC TNK TO LOOP 32 COLD LEG INLT CK
072	92-02167-00	1	SI 1822	REPLACE CANOPY SEAL WELD
076	91-32224-02	1	RC-SOV-654	REPLACE VALVE
079	92-03205-00	1	RC 515A	REPLACE VALVE
090	92-03960-02	1	SI897C 33 ACCUM DISCH CHK	REPLACE COVER BOLTING
091	92-03960-02	1	SI838D 33 ACCUM DISCH CHK	REPLACE COVER BOLTING
094	93-06218-04	1	SI856E PIPING SUPPORT	REPLACE SUPPORT PER DEM 93-3-309VC
099	93-2467, 93-2469	1	RC PCV 456, RC PCV 455C	REPLACE VALVE TRIM AND OPER DIAPHRM SPRING

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
115	93-07279-01	1	CH-LCV-459	REPLACE BONNET STUDS AND NUTS
116	93-07279-02	1	CH-LCV-460	REPLACE BONNET STUDS AND NUTS
170	95-01919-05, 06	1	RC-PCV-455B	REPLACE STEM BELLOWS
171	95-01923-05	1	RC-PCV-455A	REPLACE STEM BELLOWS
172	95-02753-22	1	REACTOR VESSEL	REPAIR FLANGE
173	95-03219-00	1	RC-595	REPLACE BONNET CAPSCREWS
181A	95-04830-00, 95-04831-00	1	RC-PCV-455C/456	REPLACE VALVE TRIM (SEAT AND PLUG)
213	96-01076-01, 02	1	RC-PCV-455C, RC-PCV-456	REPAIR VALVE TRIM, REPLACE BODY BONNET BOLTS
214	95-06579, 06580, 06581	1	RC-PCV-464, 466, 468	REPAIR TO ACHIEVE ACCEPT LEAK RATE TEST FOR PRZ SAFETY
221	95-03831-02, 03	1	RC-PCV-455C, 456	REPLACE PORVS
222	96-02130-00	1	RC-PCV-455A, 455B	REPLACE VALVE INTERNALS AND BONNET BOLTING
223	95-03830-01	1	RC-PCV-464, 466, 468	REPLACE VALVES
253	97-00542-00	1	RCPCPR1 PRZR MANWAY	REPLACE COVER AND STUDS WASHERS

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
254	97-00542-00	1	RCPCPR1 PZR MANWAY FLANGE	REPAIR FLANGE/DRILL AND INSTALL DIAPHRAGM SCREWS
266	96-05106-00	1	RC594	REPLACE BOLTING AND SEAL/SPACER ON RC-594, MACHINE GSK/BONNT
269	95-02028-00	1	CH-AOV-212	REPLACE AUX PZR SPRAY VLV TRIM (STEM, PLUG/CAGE) B/B BOLTS
295	95-04158-06	1	PCV-455A	REPLACE BONNET ASSEMBLY AND TRIM SET (INCLUDING BOLTS)
296	95-04158-07	1	PCV-455B	REPLACE BONNET ASSEMBLY AND TRIM SET (INCLUDING BOLTS)/SUPP
303	97-02096-02	1	AC-730	DRILL HOLE IN UPSTREAM DISC PER DC 97-189
305	96-05085-00	1	RC-MOV-536	MACHINE WEDGE OUTSIDE SEAT SURF/REPLACE BOLTS
307	96-05086-00	1	RC-MOV-535	GRINDING OFF WEDGE GUIDE SHARP EDGES
311	97-00519-18	1	PWR-152 SNUBBER	REMOVE/REINSTALL SNUBER FOR WELD INSPECTION
315	96-02135-00	1	SI-838C RHR NR-CHK VLV	REPLACE HANGER BRACKET BOLTS WITH B6X

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
326	96-01997-00	1	33 S/G BOLT REPLACEMENT	REPLACE MANWAY STUDS/NUTS
327	96-02003-00	1	31 S/G BOLT REPLACEMENT	REPLACE MANWAY STUDS/NUTS
328	97-02114-03	1	31/32 S/G SNUBBERS	REPLACE SNUBBER WITH MODIFIED NON- FUNCT/BASEPLATE
329	97-02114-05	1	33/34 S/G SNUBBERS	REPLACE SNUBBER WITH MODIFIED NON- FUNCT/BASEPLATE
339	97-02909-00	1	AC-MOV-731	REPLACE VALVE INTERNALS/TACK WELD/DRILL HOLE
341	96-03512-07	1	SUPPORTS RCH62- 1V/RCH&R-62-2V	MODIFY SUPPORTS ASSOCIATED WITH 3/4-RC- 2501R LINE REMOVAL
342	96-03512-08	1	VARIOUS SUPPORTS	MODIFY SUPPORTS ASSOCIATED WITH 3/4- RC/2501R LINE REMOVAL
349	95-06586-85	1	SNUBBER REPLACEMENT VARIOUS	REPLACE SNUBBERS FOR VARIOUS CLASS 1 PIPING/ MACHINING
354	96-05011-00	1	SI-838D	WELD REPR HGR STOP, MACH.DISC, REPL HGR BOLTS, WELD LOCKWIRE
355	97-00519-27	1	SUPPORT RC-H-61-1	ADJUSTMENT TO SUPPORT

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
361	96-00054-04	1	RC-591	BOLTS AND SEALS
362	96-00054-05	1	RC-592	BOLTS AND SEALS
387	95-06586-89	1	SI-R-16-9-H	REPAIR SUPPORT WELD TO SUPPORT PIPE
050	32803,32807	2	MS 45-1,45-2,46-1,48-2	MACHINE NOZZLES ON V/V MS 45-1, 45-2, 46-1, 48-2
060	91-28060	2	MS42-32A&B STEAM SUPP ISO VLV	REPAIR SEAT AND STEM
066	91-33318	2	AC MOV744 RHR PUMP DISCH ISO	REPLACE BODY BOLTS
067	91-32080	2	SI838B RECIRC TO 32 LOOP CHK	REPLACE BODY BOLTS
069	91-33053	2	S/G 32 AND 34	REPLACE HOT LEG S/G 34 #1 STUD AND S/G 32 #7 CK STUD
077	91-31464-00, 03, 04, 05	2	S/G 31 BLOWDOWN PIPING	INSTALL NEW PIPING PER MOD 88-03-050
092	93-06218-00	2	SI856E	REPLACE VALVE AND PIPING
096	93-05380-00, 93-05380-01	2	RWST LINE 181, 155	REPLACE FLANGE BOLTING
120	93-06218-02	2	SI-880K CHAR FILT 35 ISO VLV	REPLACE VALVE BODY AND ACCOSICATED PIPING
121	94-00850-00	2	32 RHR PUMP	REPLACE STUFFING BOX EXTENSION

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
141	93-05870-00	2	32 MS CHK VLV MS-2-32	INSTALL NEW DISC PIN
146	94-04585-04	2	BFD-68	REPLACE VALVE
147	94-04586-04	2	BFD-67	REPLACE VALVE
148	94-04584-04	2	BFD-69	REPLACE VALVE
149	94-04534-04	2	BFD-70	REPLACE VALVE
151	94-04097-00	2	MS-PCV-1134	SKIM CUT BONNET GASKET SEATING SURFACE
162	95-01045-00, 95-01465-00	2	BD-PCV-1216, BD-PCV- 1216A	REPLACE VALVE INTERNALS
163	93-04396-01	2	32 SI PUMP	REPLACE CASING STUDS
180	95-04774-00	2	SI-H-611-5-R	REPAIR HANGER
181	90-23878, 23924, 23904, 23905	2	MST-1, 2, 3, 4	REPLACE STEAM TRAP AND PIPING
182	95-04366-00	2	SUPPORT MS-372	REPAIR SUPPORT
183	89-19676-00, 90-23898, 23922, 23900, 23923, 23901	2	MST-5, 6, 10, 12, 13, 14	REPLACE STEAM TRAP AND PIPING
192	95-05665-00	2	SI-H&R-844-5	REPLACE U-BOLT
193	95-05670-00	2	AC-738A	REPLACE VALVE DISC
194	90-23902-00, 89-19677-07, 89-19677-08	2	MST-18, 64, 65	REPLACE MAIN STEAM TRAP AND PIPING

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
196	92-01187-04	2	31 RHR PUMP	REPLACE PUMP ROTATING ELEMENT
197	92-00904-01	2	AC-841	REPLACE VALVE BONNET
228	96-01889-00, 1890-00	2	MS-68-1, MS-68-4	REPLACE VALVES ACCORDING TO DC-96-3-183
238	96-02029-00	2	SI-897B	TACK WELD RETAINING BLOCK NUT TO BLOCK
239	96-02140-00	2	SI-897C	TACK WELD RETAINING BLOCK NUT TO BLOCK
245	95-03180-00	2	CVCS CH-203 RELIEF VALVE	REPAIR CROSBY RELIEF VALVE JB-25-3TD AND REPAIR AS NEEDED
259	97-00514-00	2	MST-2 BYPASS VALVE; MS-68-3	REPLACE VALVE MS-68-3
294	97-01298-00	2	BFD-6-1	REPLACE PINS, MACHINE INNER BONNET, HONE BODY
302	97-02096-04	2	SI-899B	DRILL HOLE UPSTREAM DISC PER DC 97-189
308	97-02096-03	2	SI-899A	DRILL HOLE UPSTREAM DISC PER DC-189
314	96-07708-00	2	AC-732	REPLACE VALVE INTERNALS
330	96-01996-00	2	32 S/G BOLT REPLACEMENT	REPLACE BOLTS ON HANDHOLE COVERS

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
336	93-04050-03	2	32 RHR FLANGE BOLTING	REPLACE BOLTING ON 32 RHR
337	97-02096-02	2	AC-MOV-730	REPLACE VALVE INTERNALS/TACK WELD
338	96-06391-00/96-06392-00	2	SI-MOV-899A/B	REPLACE VALVE WEDGES AND MACHINE NEW WEDGES TO FIT
343	96-02411-00	2	SI-886B	REPLACE INTERNALS (INCLUDING WEDGE/RETAINING NUT)
348	95-06586-84	2	SNUBBER REPLACEMENT VARIOUS	REPLACE SNUBBERS FOR VARIOUS CLASS 2 PIPING/MACHINING
351	96-06388-00	2	SI-MOV-746	MACHINE VALVE WEDGES
352	96-06071-00/96-06093-00	2	SI-MOV-1802A & B	MACHINE VALVE WEDGES/REPLACE BOLTS/MACHINE GASKET
356	97-00519-31	2	SUPPORT AC-H-9-3	ADJUSTMENT TO SUPPORT
357	97-00519-29	2	SUPPORT AC-H-653-1A	ADJUSTMENT TO SUPPORT
358	97-00519-63	2	SUPPORT SI-170/173	ADJUSTMENT TO SUPPORT
359	97-00519-59	2	BORON INJECTION TANK/INTSIATSI	REPAIR WELD PLATE ON VESSEL AND NOZZLE
368	96-02143-00	2	MS-PCV-1135	REPAIR/MACHINE BONNET GASKET SURFACE

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
379	94-04079-00	2	AC-743	MACHINING TO VALVE SEAT AND DISC
380	94-04079-05	2	AC-743	DRILL DISC HOLE(DC97-3-189), REPLAC BOLTING AS NECESSARY
382	97-03234-00	2	AC-MOV-1870	REPLACE INTERNALS/ MACHINE INTERNALS AND REPLACE BOLTING
383	96-02077-00	2	MS-1-33	REPLACE BODY/BONNET BOLTING AS NECESSARY
385	96-02142-00	2	MS-42	REPAIR/REPLACE BOLTING & PLUG CUTTING
386	96-03890-00	2	MS-41	REPAIR/REPLACE BOLTING & PLUG CUTTING
392	96-06266-00	2	MS-PCV-1137	MACHINE BONNET GASKET SURFACE
395	97-04097-00	2	CH-MOV-250B	REPLACE/REPAIR SEATING SURFACE AND INTERNALS
051	92-00086	3	CCW HX 31 AND 32	REPLACE HEAT EXCHANGERS
052	91-31379	3	SW LINE 1196,1197,1200	REPLACE PIPING
053	91-32606	3	SWN-1-36, 36 SW PUMP DISC CHVL	REPAIR VALVE DISC
054	91-32290	3	AUX FEED PUMP 33	REPLACE ROTATING ELEMENT

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
056	92-01059	3	SW LINE 470 AND 471	REPLACE LINE 470 AND PORTION OF 471
057	91-32450-01, 91-32450-00	3	CCR A/C UNITS 31 AND 32	REPLACE CONDENSER UNITS
061	91-29738	3	MS-PCV-1139 32 ABFP STMSUP PCV	REPLACE NEW VALVE STEM ON STEAM SUPPLY PCV
062	92-01733	3	SW PIPE LINE UPSTRM FCV1176/A	REPLACE LEAKING PIPE
063	92-01647	3	SW PIPE LINE 1224	REPLACE LEAKING ELBOWS
064	91-33316	3	AC MOV-789 RCP CCW THER RETISO	REPLACE VALVE STEM RCP CCW THER BARRIER RET. ISO
065	91-28063	3	AC-770 AUX COOL SUP INLET CHK	REPLACE BODY BOLTS
068	91-33047	3	32INSTRU AIR CC HX	REPLACE TUBE BUNDLE
071	91-33726	3	33 SERVICE WATER PUMP	REPLACE WITH SPARE PUMP
074	92-00673, 92-00717-01, 92-00678-01	3	SWN PCV-1208, 1209, 1210	REPLACE VALVE AND ACTUATOR
075	18107, 91-31372-00, 01, 02, 03	3	SWN27,28,70 LNS 1196,1197,1200	REPLACE VALVE AND PIPING
078	92-02352	3	SWN-47	REPLACE VALVE
080	93-00305-00	3	FE 637	REPAIR WELD
081	93-00552, 93-00883	3	SWN-1-31, SWN-1-32	REPLACE BODY STUDS AND NUTS

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
082	93-03478, 93-03485	3	31 EDG LUBE OIL COOLER	REPLACE COVER STUDS AND NUTS
083	93-03498	3	33 EDG LUBE OIL COOLER	REPLACE COVER STUDS AND NUTS
084	90-23160, MMP 92-3-102SUN	3	SWN 95 CCR A/C OUTLET	REPLACE VALVE AND PIPING
085	93-03772-01	3	AC TCV 130	REPLACE WELD NECK FLANGES
086	93-03543-15	3	33 EDG LUBE OIL&JCKT WTR COOLR	REPAIR WELD FLANGES
087	93-02671	3	31 EDG LUBE OIL&JCKT WTR COOLR	INSTALL MOD 91-3-161 PIPING
088	93-02671-01	3	32 EDG LUBE OIL&JCKT WTR COOLR	INSTALL MOD 91-3-161
089	93-02671-06	3	33 EDG LUBE OIL&JCKT WTR COOLR	INSTALL PIPING MOD 91-3-161
093	93-00186-02, 93-00186-00	3	SWN171, SWS HEADER VENT	INSTALL NEW MANWAY PIPING AND VALVE
097	91-28817-03	3	SWN86-1 31 IACC H2 RV	REPLACE VALVE PMS 93-3-385
098	91-28817-04	3	SWN86-2 32 IACC H2 RV	REPLACE VALVE PMS 93-3-385
100	93-09281-00	3	35 SERVICE WATER PUMP	REBUILD PUMP

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
101	93-10209-00	3	31 ABFP RECIRC BYPASS LINE1012	REPLACE 3X2 CONCENTRIC REDUCER
102	93-09710-00	3	34 SERVICE WATER PUMP	REPLACE PUMP WITH SPARE
103	93-09281-04	3	35 SERVICE WTR LINE 1085	REPAIR EROSION OF FLANGE FACES
104	93-02988-03	3	33 FAN COOLER MOTOR COOLER	REPAIR PITTING/CORROSION OF SPACER PLATE WELDS
105	93-07449-01	3	AC 784	REPLACE VALVE AND ASSOCIATED PIPING
106	93-07449-01	3	AC 786	REPLACE VALVE AND ASSOCIATED PIPING
107	93-02988-00	3	34 FCU MOTOR COOLER	REPAIR PITTING CORROSION OF SPACER PLATE WELDS
108	93-06737-00	3	31 FCU MOTOR COOLER	REPLACE PIPING/CORROSION OF SPACE PLATE WELD
109	90-23160	3	SWN 95	REPLACE VALVE AND ASSOCIATED PIPING
110	93-03481-00, 93-03481-02	3	HCV 1118 32ABFP,32 TURB CTRL V	REPAIR THREADS ON STEAM CHEST SPINDLE RETAINERS(32TRB CTL/TR
112	93-10012-00	3	33 ABFP RECIRC LINE 1160	REPLACE PIPING
113	93-03756-03	3	31 CCR A/C COND PIPING	ADD PIPING AND TCV PER MMP 93-03-251 SWS

Section XI Job Number	Work Requests Associated	I F I Class	Affected Components	Description of Work
114	93-03756-02	3	32 CCR A/C COND PIPING	ADD PIPING AND TCV PER MMP 93-03-251SWS
117	93-09275-02	3	LINE 1083 33 SWP DISCH LINE	WELD BUILDUP OF FLANGE
118	93-06885-00, 93-06887-00	3	31/32 CCR A/S STRAINERS	REPLACE STRAINERS AND ASSOCIATED PIPING
119	93-03756-09	3	32 CCR A/C SW PIPING	REPLACE 1 1/4 BRASS UNIONS AND 1 1/4 BRASS PIPE NIPPLES
122	93-06873-01	3	SUPPORT #SWN-H&R-1223-3	INSTAL NEW PIPING SUPPORT
123	94-03198-01	3	LINE 325 AC 803	REPLACE 8 INCH ELBOW
124	93-04248-01	3	AC 803 CCW RETURN FROM SFP	REPLACE VALVE
125	94-00522-02	3	36 SWP DISCH LINE FLANGE	WELD BUILDUP OF FLANGE
126	94-03350-00	3	SUPPORT #PW-H-506-S	WELD ANGLE TO I-BEAM
127	93-06873-03	3	SUPPORT #SWN-H&R-1224-7	INSTLL NEW SUPPORT PER MOD 93-3-259CB
128	94-01380-03	3	SUPPORT #AC-R-21-2-G	REPLACE SUPPORT CCW LINE TO 33 RCP
129	94-00272-00/06	3	SWN-42-1 31 FCU SUPP RELF VLV	REPLACE VALVE

Section XI Job Number	Work Requests Associated	FBI Class	Affected Components	Description of Work
130	94-00272-01/07	3	SWN-42-2 32 FCU SUPP RELF VLV	REPLACE VALVE
131	94-00272-04/09, 94-00272- 05/10	3	SWN-42-5 35 FCU SUPP RELF VLV	REPLACE VALVE
132	93-07033-00/01	3	32 SPENT FUEL PUMP	REPLACE CASING AND DRAW LINE
133	94-03599-00	3	SWN-109-1, 109-2	REPLACE VALVE AD ASSOCIATED PIPE PER MMP- 94-3-210SWS
134	94-02916-00	3	31 SIS PUMP, CIRC WTR PUMP	WELD REPAIR HOLE IN CASING
135	94-03960-08	3	31 CCR A/C CONDENSER	REPLACE 1 1/4 BRASS PIPING AND UNION
136	94-03060-05	3	32 SPENT FUEL PIT PUMP SUCT LN	REPAIR WELD
137	93-07033-02	3	32 SFP PUMP DISC LINE 327	MOVE SUPPORT TO AID IN PIPE ALGINMENT
138	94-03060-07	3	32 SFP PUMP SUC SUPP SFPC-R-9	INSTALL/REPALCE SUPPORT
139	93-06143-00	3	31 FCU INLET SW LINE670 SUPPT	REPLACE SUPPORT
140	94-03599-15	3	SW PIPING DOWN STRM SWN-109-2	REPLACE PIPING

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
142	93-03756-14, 93-03756-15	3	31/32 CCR A/C CONDENSERS	REPLACE PIPING (BRASS) PER MMP 93-03-251SWS (ECN 7)
143	93-04973-00	3	33 FCU INLET SW LINE 671 SUPP	RELOCATE SUPPORT STEEL
144	94-04436-00	3	LINE 11C SW PIPING 34 FCU	REPLACE ELBOW
145	94-02846-24	3	33 ABFP LINE 1160	REPLACE UNION
150	94-04764-00	3	CCR A/C SW SUPP LINE 1224	REPLACE PIPE AND REDUCER BETWEEN SWN- 108-2 & PCN 1297
152	94-00272-03	3	SWN-42-4	REPLACE VALVE INTERNALS
153	94-00272-02	3	SWN09401	REPLACE VALVE INTERNALS
154	94-05517-00	3	SWN-94-1	REPLACE VALVE
155	94-05697-00	3	LINE1013 BFD-78	GRIND OUT DEFECT AND WELD REPAIR
156	94-04336-00	3	33 SICCW PUMP	REPLACE PUMP
157	94-02916-05	3	32 SICCW PUMP	REPLACE PUMP
158	94-02916-05	3	31 SICCW PUMP	REPLACE PUMP
159	94-02916-17	3	31 SI PUMP OIL COOLER	REPLACE COOLER
160	95-00529-01	3	33 AUX BOILER FEED PUMP	REPAIR DISCH FLANGE

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
161	95-00057-00	3	32CCR A/C COND	REPLACE HX HEAD
164	95-01551-05	3	33 STCCW PUMP	REPLACE PUMP
165	94-05350-00	3	33 ZURN STAINER	REPLACE BLOWDOWN PIPING FLANGE AND REPLACE BOLTS
166	95-01522-02	3	31 ABFP	INSTALL NEW PIPING RESTRAINT DC 95-3-116AFW
167	95-01922-00	3	LINE 1223	REPLACE PIPING/REDUCR FLNG BET SWN-108-1 & SWN- PCV-1296
168	93-03481-02	3	HCV1118 32 ABFP TURB CRTL VLV	REPLACE EMERGENCY STOP PLUG
169	94-04588-02	3	BFD-35	REPLACE VALVE DISC
174	95-00934-00	3	SWN-PCV-1208	REPLACE VALVE
175	95-02385-02	3	SWN-TCV-1313	REPLACE VALVE
176	95-00936-00	3	SWN-PCV-1210	REPLACE FLANGE BOLTING
177	95-00936-02	3	SWN-PCV-1210	REPLACE VALVE
178	95-04170-00	3	35 FCV MTR CLR LINE 499	REPLACE PIPE
179	95-04615-00	3	35 FCU MTR CLR LINE 499	REPLACE PIPE
184	95-05369-00	3	SWN-520, DC 95-03-313	REPLACE VALVE AND FLANGE BOLTING

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
185	95-05369-01	3	SWN-521, DC 95-03-313	REPLACE VALVE AND FLANGE BOLTING
186	95-05369-02	3	SWN-524, DC 95-03-313	REPLACE VALVE AND FLANGE BOLTING
187	95-05369-03	3	SWN-525, DC 95-03-313	REPLACE VALVE AND FLANGE BOLTING
188	95-05369-09	3	SWN-526, DC 95-03-313	REPLACE VALVE AND FLANGE BOLTING
189	95-05369-10	3	SWN-527, DC 95-03-313	REPLACE VALVE AND FLANGE BOLTING
190	95-05369-12	3	SWN-523, DC 95-03-313	REPLACE VALVE AND FLANGE BOLTING
191	95-05472-00	3	SWN-65-1 TO 65-6	REPLACE VALVE
195	95-04365-00	3	31 SERVICE WATER PUMP	REPLACE PUMP
199	95-06228-00	3	AC-819A	REPLACE VALVE
200	95-06228-01	3	AC-819B	REBUILD VALVE
202	95-00766-02	3	SFPC-R-2, SFPC-V-12	ADJUST SUPPORT/RELOCATE RESTRAINT
203	96-00155-00	3	33ZURN STRAINER BD PIPING	REPLACE FLANGE UPSTREAM SWN-64-3
204	96-00201-00	3	CCR A/C LINE 1223	REPAIR WELD AND REPLACE PIPE SWN-113-1

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
205	96-00203-00	3	FCU RETURN	REPLACE PIPING AND FITTING
206	96-00461-00	3	SWN-45-1	REPLACE FLANGE BOLTS
207	96-00278-00, 01, 02, 03, 04	3	31/35 FCU	REPLACE FLANGE BOLTS
208	96-00278-00	3	34 FCU	REPAIR FLANGE WELD
209	96-00278-01	3	33 FCU	REPAIR PIPE
210	96-00278-03	3	31 FCU	REPAIR FLANGE WELD
211	96-00278-16	3	34 FCU	REPAIR PIPE WELD
212	SEE NIS-2 FORM	3	STEAM TRAP STRAINER	REPLACE STEAM TRAP STRAINERS/MULTIPLE
215	96-01914-00	3	SUPPORT BFD-H&R-1001-9-4	REMOVE AND ADJUST U-BOLT AS REQD FOR CONFIG
216	95-00933-00	3	SWN-PCV-1207	REPLACE VALVE INTERNALS DUE TO INTERNALS BEING CORRODED
217	96-02118-00	3	SWN-87-1 47 LINE 202	REPLACE VALVES AND ASSOCIATED PIPING
218	95-05104-00	3	SWN-1-1	REPLACE COVER BOLTING
220	96-04928-06, 09	3	SWN-94-2	REPLACE VLV SWN-94-2 AND PIPING
224	94-05583-00	3	32 CCW PUMP	REPLACE CASING BOLTS

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
225	96-05403-02	3	LINE 1083	REPAIR PINHOLE LEAK
226	95-05108-00	3	SWN-1-5	REPLACE VALVE INTERNAL HARDWARE
227	95-05106-00	3	SWN-1-3	REPAIR VALVE DISC
234	96-03653-00/01/02/06	3	VARIOUS SERV WTR SUPPORTS	REPLACE VARIOUS SUPPORTS DC-96-3-367
235	96-03652-00/01/02/07	3	VARIOUS SERV WTR SUPPORTS	REPLACE VARIOUS SUPPORTS DC-96-3-368
240	95-04363-00	3	33 SERVICE WATER PUMP	REPLACE PUMP CASING OF SWP
243	95-04364-00	3	36 SERVICE WATER PUMP	REPLACE PUMP CASING OF SWP
244	97-00239-00	3	SPENT FUEL PIT HX RETURN LINE	REPLACE FLANGE, ELBOW AND PIPING DOWNSTREAM OF AC-803
246	96-06821-00/01	3	35ZURN STRNRBLWDN SWN-PCV-1209	REPLACE VALVE DUE TO DETERIATION
247	96-07231-02	3	FE-1144	REPLACE BOLTING ON FLANGE TO FLOW ELEMENT FE-1144
248	96-07232-02	3	FE-1143	REPLACE BOLTING ON FLANGE TO FLOW ELEMENT FE-1143

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
249	96-07233-03	3	FE-1142	REPLACE BOLTING ON FLANGE TO FLOW ELEMENT FE-1142
252	96-05726-03	3	FE-1139	REPLACE BOLTING ON FLANGE TO FLOW ELEMENT FE-1139
256	97-00837-00/01/02/05	3	SUPPORTS FOR SERV WATER	REPLACE SUPPORTS ON SERV WATER SEE DC 97-3-078
257	96-00690-00	3	32 CCR A/C INLET SWN- 112-2	REPLACE A/C INLET STRNR BLOWDOWN VLV IAW DC-96- 3-313
258	96-05733-00	3	31 CCR AIR CONDENSER	REPLACE MANIFOLDHEADS ON A&B CONDENSER
260	93-06888-16	3	AC-819B	REPAIR INTERNAL PARTS WITH NEW
261	93-06888-18	3	AC-819A	REPAIR INTERNAL PARTS WITH NEW
262	93-06888-21	3	AC-819 SPARE	REPAIR INTERNAL PARTS WITH NEW
263	97-01711-00	3	SWN-TCV-1310	REPLACE VALVE SWN-TCV- 1310
264	89-17655-00	3	AC-820A	REPLACE 12" BUTTERFLY VALVE AC-820A
265	89-17655-01	3	AC-820B	REPLACE 12" BUTTERFLY VALVE AC-820B

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
267	97-00528-00	3	SWN-41-5	REPLACEMENT OF 10' PIPING, SWN-41-5
268	95-03827-05	3	AC-TCV-130	REPLACEMENT OF CONTROL VALVE TCV-130
270	95-01994-01	3	VARIOUS	REPLACEMENT OF PIPING FROM HEADERS 1093/1099 TO RTN LN 1096
272	96-00278-24	3	FCU 32	REPLACEMENT OF 8 PIPE SPOOLS ON FCU 32
276	93-01049-02	3	MS-52	PM TEST AND REPLACE OF MS-52 (NOZZEL/DISC INSERT)
277	95-04997-01	3	SW PENETRATION SS	REPLACE PENETRATION SS PIPING
278	95-04997-04	3	SW LINE #497	REPLACE SW LINE 497 COMPONENTS
279	95-04997-05	3	SW LINE 498	REPLACE SW LINE COMPONENTS
280	95-04997-06	3	SW LINE 496	REPLACE SW LINE COMPONENTS
281	95-04997-07	3	SW LINE 495	REPLACE SW LINE COMPONENTS
282	95-04997-08	3	SW LINE 499	REPLACE SW LINE COMPONENTS

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
283	96-07500-03	3	SW LINE 1197, 1998, 1200	REPLACE SW LINE COMPONENTS AND ADD NEW VALVES
284	96-02184-00	3	SWN-41-1 FCU ISO VLV	REPLACE BOLTING ON SWN-41-1 FCU SUPPLY VLV
285	96-8018-02	3	SW LINES 470,71,63,68,69	REPLACE PIPING AND COMPONENTS ON SW LINES
286	96-07500-06	3	SW LINES TO IACC HXT 31/32	REPLACE VALVES AND PIPING FOR SW LINES/HANGER REPLACEMENT
288	94-04588-03	3	BFD-37	REPLACE DISC ANTI-ROTATION STOPS (LUGS)
289	96-08349-02	3	SWN-51-1 TO 51-5 AND LINES	REPLACE LINES 11/12 AND SWN VALVES
290	96-05403-02	3	SW LINE 1083 ELBOW/FLANGE	REPLACE SW LINE 1083 14" FLANGE AND ELBOW
291	96-06735-00	3	TCV-1105 BOLTS	REPLACE BOLTING ON TCV-1105
292	96-05022-00	3	SWN-40-2 BOLTING	REPLACE BOLTING
298	96-05022-01	3	SWN-40-2 FLANGE REPAIR	MACHINE 18" C/S 150# FLANGE (FLAT FACE) TO ACCEPTABLE GASKET
299	96-02878-01	3	CD-123	REPLACE BOLTING ON RELIEF VALVE CD-123

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
300	94-04588-01	3	CHK BFD-39	REPAIR TO CUT DISC STEM OR ADD WELD TO DISC ARM STOP
301	94-04588-3/4/5/16/17/21	3	CHK BFD-37/40/42/47-1/47- 2/50	REPAIR TO CUT DISC STEM OR ADD WELD TO DISC ARM STOP
304	94-4588-19	3	CHK VLV BFD 47-4	TRIM DISC DIAM, CUT DISC STUD, WELDUP DISC STOPPER
306	94-4588-18	3	CHK VLV BFD 47-3	TRIM DISC DIAM, CUT DISC STUD, WELDUP DISC STOPPER
309	96-05020-00	3	SWN-39	REPLACE BOLTING ON 18" VALVE
312	95-03752-02	3	ACU31 HTX (A)	REPLACE HTX TUBING AND INTENRAL SUPPORT
313	95-03752-03	3	ACU31 HTX(B)	REPLACE HTX TUBING AND INTERNAL SUPPORT
316	95-05595-00	3	31 ABFP	REPAIR CASING DAMAGE ON 31 AUX BOILER FEED PMP
317	96-07878-00	3	32 SI PUMP	REPLACE PUMP AND RO-649
318	95-04997-10	3	RIVER WATER/SW LINE 496	REPLACE CS PIPE WITH STAINLESS
319	95-04997-12	3	RIVER WATER/SW LINE 497	REPLACE CS PIPE WITH STAINLESS

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
320	95-04997-13	3	RIVER WATER/SW LINE 495	REPLACE CS PIPE WITH STAINLESS
321	95-04997-14	3	RIVER WATER/SW LINE 498	REPLACE CS PIPE WITH STAINLESS
322	95-04997-15	3	RIVER WATER/SW LINE 499	REPLACE CS PIPE WITH STAINLESS
323	96-05403-07	3	SUPPORT SWN-H&R-1083- 6-R	REPLACE SUPPORT PER DC 97-225
325	97-02052- 06/07/09/10/11/12/13/14/16	3	REPLACE SUPPORTS PER MMP97-193	REPLACE PIPE SUPPORTS FOR SERVICE WATER
331	96-03880-00	3	33 FAN COOLER UNIT	REPLACE WATERBOX COVER BOLTS
332	96-03884-00	3	34 FAN COOLER UNIT	REPLACE WATERBOX COVER BOLTS
333	96-03887-00	3	35 FAN COOLER UNIT	REPLACE WATERBOX COVER BOLTS
334	95-03752-04	3	ACU32HTX(A)	DC 96-129 REPLACE 32 CCR/AC CONDENSER AND TUBING
335	95-03752-05	3	ACU32HTX(B)	DC 96-129 REPLACE 32 CCR/AC CONDENSER AND TUBING
340	97-01266-00	3	SWN-TCV-1103	REPAIR FLANGE SURFACE/WELD REPAIR

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
344	97-02911-00	3	SWN-41-3 PIPE UPSTREAM	REPLACE FLANGE AND SHORT SECTION OF PIPE UPSTREAM OF VALVES
345	97-02911-01	3	SWN-41-1 PIPE UPSTREAM	REPLACE FLANGE AND SHORT SECTION OF PIPE UPSTREAM OF VALVES
346	97-02911-02	3	SWN-41-1 PIPE UPSTREAM	REPLACE FLANGE AND SHORT SECTION OF PIPE UPSTREAM OF VALVES
347	95-06586-83	3	SNUBBER REPLACEMENT VARIOUS	REPLACE SNUBBERS FOR VARIOUS CLASS 3 PIPING/MACHINING
350	97-02605-07	3	ACH-271 TO ACH-281	REPLACE SUPPORTS AH-271/281 WITH 276/281 ON E21 LINE 127
353	97-02919-00	3	SWN-TCV-1311	REPLACE VALVE
360	93-03719-02	3	MS-PCV-1139	REPLACE VALVE
363	97-00528-00	3	SWN 41-5 PIPING	WELD REPAIR OF CORRODED AREA NEAR FLANGE
364	96-01604-00	3	LINE 11C/12B FLANGE BOLTING	REPLACE STUDS AND NUTS
365	96-01604-01	3	LINE 11E/12E FLANGE BOLTING	REPLACE STUDS AND NUTS
366	96-01604-02	3	FCU SW FLANGES 10"	REPLACE OF FLANGES AND ASSOCIATED PIPING

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
367	96-01604-03	3	FCU SW FLANGES 10"	REPLACE OF FLANGES AND ASSOCIATED PIPING
369	96-01604-04	3	FCU SW FLANGES 10"	REPLACE FLANGES AND ASSOCIATED PIPING
370	96-01604-05	3	FCU SW FLANGES 10"	REPLACE FLANGES AND ASSOCIATED PIPING
371	96-01604-06	3	FCU SW FLANGES 10"	REPLACE FLANGES AND ASSOCIATED PIPING
372	97-03121-00	3	AC-744C CHECK VALVE	REPAIR VALVE INTERNALS, REPLACE BOLTING AS REQ'D
373	91-32085-00	3	AC-751A VALVE, 12"	MACHINE SEATING SURFACES/REPLACE VALVE INTERNALS
374	97-03126-00	3	SWN-44-4	REPLACE FLANGE AND ASSOCIATED PIPING
375	97-03126-01	3	SWN-44-1	REPLACE FLANGE AND ASSOCIATED PIPING
376	97-03126-02	3	SWN-44-2	REPLACE FLANGE AND ASSOCIATED PIPING
377	97-03126-03	3	SWN-44-3	REPLACE FLANGE AND ASSOCIATED PIPING
378	97-03171-00	3	SW-H&R-11A-22R	REMOVE & REPLACE SUPPORT ASSOCIATED WITH REPAIRS TO 31 FCU

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
381	97-03260-00	3	AC-751B	MACHINE INTERNALS/REPLACE INTENRALS AND BOLTING AS NECESS
384	97-03171-00	3	SWN- LINE 11A	REPLACE/REPAIR 10" END CAP TO 1" DRAIN LINE
388	97-02417-00	3	MS-PCV-1130A	REPLACE WEDGE AND SEATS
389	95-05596-02	3	33 ABFP CASING	REPAIR STUD HOLE/HEILCOIL/REPLACE STUD
390	97-03359-01	3	SWN LINE 11C, 2" LINE	REPAIR/REPLACE 2" LINE TO 10" HEADER
391	97-03360-00	3	SWN LINE 12D, 3" PIPE ELBOWS	WELD REPAIR 3" ELBOWS/REPLACE PIPE
393	97-03360-02	3	SWN 3" LINE 12D	WELD REPAIR TO 3" LINE
394	96-07878-02	3	32 SI CCW PUMP	REPLACE SI PUMP COOL WTR AND RESTRICTION ORIFICE AND BOLTING
398	97-04507-00	3	36 ZURN STRAINER	REPLACE BLOWDOWN PIPING FLANGE BOLTING
287	97-02467-00	MC	PENETRATIONS XX AND YY	REPLACE GASKETS ETC. FOR PENETRATION FLANGES
293	96-06414-02	MC	VC HATCH BOLTING	REPLACE BOLTING ON HATCH DURING TEMP HATCH INSTALLATION

Section XI Job Number	Work Requests Associated	ISI Class	Affected Components	Description of Work
324	95-04997-09	MC	REPLACE SS PENETRATION	REPLACE PENETRATION PER MMP-96-303
073	91-32051	VR	SMAL BORE SEIS RETRAINTS	REPLACE SNUBBERS FOR PREV MTC
095	93-07097-00, VARIOUS	VR	REPLACE VARIOUS SNUBBERS	REPLACE SNUBBERS
297	97-02546-00/01/02, 95-06586- 2/10/11/12/13	VR	VARIOUS SNUBBERS	REMOVE, TEST AND REINSTALL SNUBBER