

ATTACHMENTS

Inservice Inspection Program Summary Report

Second Outage, First Period, Third Interval

Consolidated Edison Company of New York, Inc.  
Indian Point Unit No. 2  
Docket No. 50-247  
October 1997

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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.  
INDIAN POINT UNIT NO. 2 NUCLEAR POWER PLANT  
SECOND OUTAGE, FIRST PERIOD, THIRD INTERVAL  
NON-DESTRUCTIVE EXAMINATION SUMMARY

INTRODUCTION

INSERVICE INSPECTIONS WERE PERFORMED FOR THE INDIAN POINT UNIT NO. 2 NUCLEAR POWER PLANT DURING AN OUTAGE FROM MAY 1997 TO JULY 1997.

EXAMINATIONS WERE PERFORMED TO SATISFY THE REQUIREMENTS OF:

1. THE CONSOLIDATED EDISON THIRD TEN YEAR INSERVICE INSPECTION PROGRAM.
2. PLANT TECHNICAL SPECIFICATIONS, AND
3. ASME BOILER AND PRESSURE VESSEL CODE, SECTION XI, 1989 EDITION WITHOUT ADDENDA.

THE FOLLOWING ITEMS WERE EXAMINED:

1. REACTOR HEAD
2. PRESSURIZER
3. STEAM GENERATORS 21 & 24
4. REGENERATIVE HEAT EXCHANGER
5. RESIDUAL HEAT REMOVAL HEAT EXCHANGER 22
6. REACTOR COOLANT PUMPS 21, 23 & 24
7. CLASSES 1 AND 2 PIPING, AND SUPPORTS
8. CLASSES 1 AND 2 COMPONENT SUPPORTS

THE EXAMINATIONS PERFORMED ARE SUMMARIZED IN TABLE 1.

CERTIFICATION DOCUMENTS RELATIVE TO PERSONNEL, EQUIPMENT AND MATERIALS WERE REVIEWED AND DETERMINED TO BE SATISFACTORY PRIOR TO THE START OF EXAMINATIONS.

WITNESSING AND SURVEILLANCE OF THE EXAMINATIONS AND RELATED ACTIVITIES WERE CONDUCTED BY PERSONNEL FROM THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY AND CONSOLIDATED EDISON COMPANY OF NEW YORK. MANAGEMENT OVERVIEWS WERE CONDUCTED BY THE CONSOLIDATED EDISON NUCLEAR POWER QUALITY ASSURANCE DEPARTMENT.

VISUAL EXAMINATIONS REVEALED:

ONE (1) VALVE HAD EVIDENCE OF PAST COOLANT LEAKAGE. WHEN DISASSEMBLED THERE WAS NO DEGRADATION AND THE COMPONENT WAS ACCEPTED.

TEN (10) PIPE SUPPORTS HAD CONDITIONS THAT WERE EVALUATED AS BEING NONSTRUCTURAL AND DID NOT IMPAIR OPERABILITY. THESE CONDITIONS WERE CORRECTED, REEXAMINED AND ACCEPTED FOR 8 OF 10 AND THE REMAINING SUPPORTS ARE SCHEDULED FOR CORRECTION AT THE 1999 REFUELING OUTAGE.

EIGHT (8) PIPE SNUBBERS HAD CONDITIONS THAT WERE EVALUATED AS BEING NONSTRUCTURAL AND DID NOT IMPAIR OPERABILITY. THESE CONDITIONS WERE CORRECTED, REEXAMINED AND ACCEPTED.

NINETEEN (19) COMPONENT SNUBBERS HAD CONDITIONS THAT WERE EVALUATED AS BEING NONSTRUCTURAL AND DID NOT IMPAIR OPERABILITY. THESE CONDITIONS WERE CORRECTED, REEXAMINED AND ACCEPTED.

THE VISUAL INDICATIONS, ABOVE, WERE EVALUATED BY CONSOLIDATED EDISON COMPANY OF NY, NUCLEAR POWER ENGINEERING DEPARTMENT AND ACCEPTED, OR, CORRECTED AND ACCEPTED.

DATA RELATIVE TO THE ABOVE INDICATIONS AND THEIR DISPOSITIONS ARE CONTAINED IN TABLE 2.

ATTACHMENT I

TABLE 1

ALL ITEMS LISTED BELOW WERE EXAMINED AS INDICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANT TECHNICAL SPECIFICATIONS, THE CONSOLIDATED EDISON INSERVICE INSPECTION PROGRAM, THE ASME BOILER AND PRESSURE VESSEL CODE, SECTION XI, 1989 EDITION WITHOUT ADDENDA, AND TO THE EXTENT PRACTICAL WITH THE ACCESS PROVIDED AND THE LIMITATIONS OF COMPONENT GEOMETRY.

IWB-2500 REFERENCE!	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
QUALITY GROUP A				
REACTOR VESSEL				
B01.22	REACTOR HEAD MERIDIONAL WELDS RVHM2 & RVHM3	X		
B01.40	HEAD-TO-FLANGE WELD RVHC2 33%	X	X	
B06.10	CLOSURE HEAD NUTS RFN1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11, N12, N13 & N14		X	
B06.30	CLOSURE STUDS RFS1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13 & S14.	X	X	
B06.50	CLOSURE WASHERS RFW1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13 & W14.			X
B08.10	INTEGRALLY WELDED ATTACHMENT ISWM3.		X	
PRESSURIZER				
B02.11	SHELL-TO-HEAD WELD PZRC1 (1) (33%)	X		
B03.120	NOZZLES INSIDE RADIUS SECTION PZRN4 & PZRN5.		(2)	
B05.40	DISSIMILAR METAL WELD PZRS2.	X	X	

IWB-2500 REFERENCE!	AREA AND EXTENT OF EXAMINATION	EXAMINATION		
		VOL.	SURF.	VIS.

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PRESSURIZER (CONT'D)  
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B07.20	BOLTING PZRB1, B2, B3 & B4.			X
B08.20	INTEGRALLY WELDED ATTACHMENT PZR IWS A (33%)	X		

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STEAM GENERATOR 24  
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B07.30	BOLTING SGB 24-4C, 5C, 9H, 12H & 16H.			X
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REGENERATIVE HEAT EXCHANGER  
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B02.80	TUBESHEET-TO-SHELL WELD RGX C-1-3.	(3)		
B03.150	NOZZLE-TO-VESSEL WELD RGX N-1-3.	(3)		
B03.160	NOZZLE INSIDE RADIUS SECTION RGX N-1-3.	(3)		

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REACTOR COOLANT PUMP 21  
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B06.190	FLANGE SURFACE RCP 21.			X
B10.20	INTEGRALLY WELDED ATTACHMENTS RCP 21A, B & C.		X	

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REACTOR COOLANT PUMP 23  
-----

B06.200	NUTS RCPN1, N2, N3, N4, N5, N6, N7 & N8.			X
B07.60	BOLTING PSB1, B2, B3, B4, B5 & B6.			X

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REACTOR COOLANT PUMP 24  
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NA	FLYWHEEL	X	X	
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IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE VOL. SURF. VIS.
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PRESSURE RETAINING BOLTING

B07.50	FLANGE BOLTING LINE 79 F1 LINE 342 F1			X
B07.70	VALVE BOLTING LINE 10 VALVES 730 & 731. LINE 64 VALVE 212. LINE 79 VALVE LCV-459. LINE 96 VALVE 210B.			X

PIPE WELDS

B09.11	CIRCUMFERENTIAL WELDS LINE 351 WELDS 2 & 3. LOOP 21 WELDS 8 & 9.	X	X	
B09.12	LONGITUDINAL WELDS LOOP 21 WELDS RCL 21-1, 21-2, 21-3 & 21-4.	(4)	X	
B09.21	CIRCUMFERENTIAL WELDS LINE 70 WELD 15. LINE 79 WELD 2AA. LINE 80 WELDS 10 & 21. LINE 96 WELDS 2, 3 & 4.		X	
B09.32	BRANCH WELDS LINE 96 WELD 1.		X	
B09.40	SOCKET WELDS LINE 16 WELDS 41, 43, 43A, 44, 46, 47, 48, 49, 50, 51 & 51A. LINE 56 WELD 91. LINE 64 WELDS 32, 33, 34, 35, 36, 37, 38, 39, 40 & 41. LINE 81 WELDS 1, 2, 3, 4, 6, 7 & 8.		X	
B10.10	INTEGRALLY WELDED ATTACHMENTS LINE 63 WELDS A & B LINE 350 WELD A.		X	

PIPE AND COMPONENT SUPPORTS

BF1.10	QUALITY GROUP A SUPPORTS LINE 10 SUPPORT PWR 7D. LINE 16 SUPPORT 16 H 20. LINE 41 SUPPORTS 41 H 6, R SR 7, ACH 552A.			(5)
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IWB-2500	AREA AND EXTENT OF EXAMINATION	EXAMINATION
REFERENCE		PROCEDURE
		VOL. SURF. VIS.

PIPE SUPPORTS (CONT'D)

BF1.10	LINE 42 SUPPORT SR 1109.	(5)
	LINE 43 SUPPORTS R SR 61, ACH 517, SR 1021 & SR 1024.	
	LINE 44 SUPPORTS 44 H 6, 44 H 14, ACH 556, ACH 557.	
	LINE 56 SUPPORT 56 SR 13.	
	LINE 61 SUPPORTS PWR 99, RCH 62, RCH 63 & SR 882, RCH 72, SR 892 & SR 894.	
	LINE 62 SUPPORT PWR 99A.	
	LINE 63 SUPPORTS PWR 120, PWR 123, RCH 76 & RCH 78.	
	LINE 64 SUPPORTS 64 H 2, 64 H 5, 64 SR 7, 64 SR 8, 64 SR 10, 64 SR 12, 64 SR 24, 64 SR 25 & PWR 105.	
	LINE 70 SUPPORT 70 PR 101.	
	LINE 79 SUPPORTS CH 121, PWR 46 & PWR 49.	
	LINE 80 SUPPORT CH 132.	
	LINE 93 SUPPORTS SR 750 & SR 751.	
	LINE 96 SUPPORTS CH 136, CH 137, PWR 84 & PWR 84A.	
	LINE 351 SUPPORT SIH 179A.	
	LINE 352 SUPPORT PWR 151.	
	LOOP 21 SUPPORTS RA, RB & RD.	
BF1.40	COMPONENT SUPPORTS	X
	RCP 21.	

QUALITY GROUP B

STEAM GENERATOR 21

C01.10	SHELL CIRCUMFERENTIAL WELDS	X
	SGC 21-3 & 4. (33%)	
C0.20	HEAD CIRCUMFERENTIAL WELD	X
	SGC 21-1. (33%)	

RESIDUAL HEAT REMOVAL HEAT EXCHANGER 22

C01.10	SHELL CIRCUMFERENTIAL WELD	(6)
	RHXC 22-1. (33%)	
C01.20	HEAD CIRCUMFERENTIAL WELD	(6)
	RXHC 22-2. (33%)	

IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE	VOL.	SURF.	VIS.
RESIDUAL HEAT REMOVAL HEAT EXCHANGER 22 CONT'D					
C02.31	NOZZLE REINFORCING PLATE WELDS RHXN 22-1A & 1B.		(6)		
C03.10	INTEGRALLY WELDED ATTACHMENT RHX 22 ISW A.		(6)		
PIPE WELDS					
C03.20	INTEGRALLY WELDED ATTACHMENTS LINE 5 ATTACHMENT N. LINE 361 ATTACHMENT B. LINE 356 ATTACHMENT A		X		
C05.11	CIRCUMFERENTIAL PIPE WELDS LINE 16 WELDS 81A & 90 LINE 56 WELDS 127 & 130. LINE 361 WELDS 26, 27 & 51.	X	X		
C05.51	CIRCUMFERENTIAL PIPE WELDS LINE 2 WELD 1.	X	X		
PIPE AND COMPONENT SUPPORTS					
CF1.20	PIPE SUPPORTS LINE 1 SUPPORT HMS 13. LINE 5 SUPPORTS PR 4 & PR 24. LINE 7 SUPPORT R 52. LINE 8 SUPPORTS HBF 4, HBF 14, HBF 15, PR 1, PR 2 & PR 3. LINE 9 SUPPORT ACH 324. LINE 56 SUPPORT 56 SR 4. LINE 293 SUPPORTS SIH 227 & SR 762A. LINE 355 SUPPORT SIH 219.				(5)
CF1.40	COMPONENT SUPPORT RHX 22 A				(5)
PIPE AND COMPONENT SNUBBERS (7)					
QUALITY GROUP A PIPE SNUBBERS					
BF1.10	PIPE SNUBBERS LINE 41 SNUBBER SR 953A LINE 43 SNUBBER SR 1026 LINE 44 SNUBBER SR 1073 LINE 62 SNUBBERS SR 924 & 62 SR 1.				(8)

IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE VOL. SURF. VIS.
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QUALITY GROUP A PIPE SNUBBERS (CONT'D)

BF1.10	PIPE SNUBBERS	(8)
	LINE 79 SNUBBER SR 908	
	LINE 80 SNUBBER SR 920A	
	LINE 353 SNUBBER PWR 148	

QUALITY GROUP B PIPE SNUBBERS

CF1.20	PIPE SNUBBERS	(8)
	LINE 1 SNUBBERS SR M4 & MSR 2V.	
	LINE 155 SNUBBER SR 50A	

QUALITY GROUP A COMPONENT SNUBBERS

BF1.40	COMPONENT SNUBBERS	(9)
	STEAM GENERATOR 21 SNUBBERS 21-1, 2, 3, 4, 21-5 & 6.	
	STEAM GENERATOR 22 SNUBBERS 22-1, 2, 3, 4, 22-5 & 6.	
	STEAM GENERATOR 23 SNUBBERS 23-1, 2, 3, 4, 23-5 & 6.	
	STEAM GENERATOR 24 SNUBBERS 24-1, 2, 3, 4, 24-5 & 6.	

NOTES

- (1) ONE OF TWO WELDS EXAMINED PER RELIEF REQUEST 7 AS APPROVED BY NRC ON JUNE 3, 1997.
- (2) VISUAL EXAMINATION PERFORMED AS A ALTERNATE TO VOLUMETRIC PER RELIEF REQUEST 9 AS APPROVED BY NRC ON JUNE 3, 1997.
- (3) VOLUMETRIC EXAMINATION PERFORMED PER RELIEF REQUEST 8 AS APPROVED BY NRC ON JUNE 3, 1997.
- (4) VOLUMETRIC EXAMINATION PERFORMED PER RELIEF REQUEST 27 AS APPROVED BY NRC ON JUNE 3, 1997.
- (5) PIPE AND COMPONENT SUPPORTS ARE EXAMINED TO ASME CODE CASE N-491.
- (6) VOLUMETRIC AND SURFACE EXAMINATION PERFORMED WITHIN THE LIMITATION OF COMPONENT GEOMETRY. RELIEF REQUEST #16 AS APPROVED BY NRC ON JUNE 3, 1997 WILL BE AMENDED AND RESUBMITTED FOR APPROVAL.
- (7) EXAMINATION PERFORMED AS REQUIRED BY PLANT TECHNICAL SPECIFICATION AND RELIEF REQUEST #31 AS APPROVED BY NRC ON APRIL 19, 1995.
- (8) VISUAL EXAMINATION PERFORMED PER PLANT TECHNICAL SPECIFICATION 4.12.A. THE AS-FOUND EXAMINATION WAS PERFORMED TO DETERMINE THE CONDITION OF SNUBBERS THAT WERE FUNCTIONALLY TESTED.
- (9) VISUAL EXAMINATION PERFORMED PER PLANT TECHNICAL SPECIFICATION 4.12.A. THE EXAMINATIONS WERE INITIALLY PERFORMED ON SNUBBERS SG 21-4, 22-3 & 22-4 TO DETERMINE THE AS-FOUND CONDITIONS PRIOR TO FUNCTIONAL TESTING. BASED ON THE FINDINGS, THE REMAINING POPULATION OF STEAM GENERATOR SNUBBERS WERE EXAMINED.

ATTACHMENT I

TABLE 2

SUMMARY OF REPORTED INDICATIONS

QUALITY GROUP A & B

IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE VOL. SURF. VIS.
QUALITY GROUP A		
ISI INDICATIONS - BOLTING		
B07.70	VALVE BOLTING 64 212 DWG 206711 INDICATION OF BORON; EVALUATED PER IWA-5250 AND ACCEPTED.	X
ISI INDICATIONS - PIPE SUPPORTS		
BF1.10	PIPE SUPPORT 16 H 20 DWG 206683 LOOSE BOLTING; EVALUATED BY ENGINEERING, CORRECTED, & ACCEPTED BY REEXAMINATION.	X
	PIPE SUPPORT ACH-552A DWG 206687 SETTING; EVALUATED BY ENGINEERING AND ACCEPTED.	X
	PIPE SUPPORT SR-1109 DWG 206689 ALIGNMENT; EVALUATED AND ACCEPTED FOR OPERATION. CORRECTION REQUIRED DURING THE 1999 REFUELING OUTAGE.	X
	PIPE SUPPORT 56 SR 13 DWG 206702 ALIGNMENT, LOOSE LOCKNUT; EVALUATED BY ENGINEERING AND ACCEPTED FOR OPERATION. CORRECTION SCHEDULED FOR THE 1999 REFUELING OUTAGE.	X
	PIPE SUPPORT SR 892 DWG 206708 LOOSE LOCKNUT & TURNBUCKLE, 1 OF 2 ANCHOR BOLTS MISSING; ENGINEERING EVALUATED THE CONDITIONS AND RECOMMENDED THE REMOVAL OF THIS SUPPORT.	X

! IWB-2500 !	! AREA AND EXTENT OF EXAMINATION	! EXAMINATION
! REFERENCE!		! PROCEDURE
!		! VOL. ! SURF. ! VIS. !

ISI INDICATIONS - PIPE SUPPORTS (CONT'D)

! BF1.10	! PIPE SUPPORT RCH 78 DWG 206710	! X
	! LOOSE U-BOLT AND LOCKNUT, SETTING	
	! PREVIOUSLY ACCEPTED; EVALUATED BY	
	! ENGINEERING AND ACCEPTED. BOLTING	
	! CORRECTED AND ACCEPTED BY REEXAMINATION.	
	! SCHEDULED FOR EXAMINATION DURING THE 1999	
	! REFUELING OUTAGE.	
	! PIPE SUPPORT SR 750 DWG 206719	! X
	! CLAMP DOES NOT FIT PIPE, BEARING	
	! DISPLACED; EVALUATED BY ENGINEERING AND	
	! ACCEPTED FOR OPERATION WITH CORRECTION	
	! SCHEDULED FOR THE 1999 REFUELING OUTAGE.	
	! PIPE SUPPORT SIH 179A DWG 206903	
	! SETTING LOW; EVALUATED BY ENGINEERING AND	
	! ACCEPTED. CORRECTED AND ACCEPTED BY	
	! REEXAMINATION.	
	! PIPE SUPPORT PWR 151 DWG 206904	! X
	! ALIGNMENT; EVALUATED BY ENGINEERING AND	
	! ACCEPTED.	

QUALITY GROUP B

ISI INDICATIONS - PIPE SUPPORTS

! CF1.20	! SUPPORT HBF 4 DWG 206666	! X
	! SETTING; EVALUATED BY ENGINEERING AND	
	! ACCEPTED. CORRECTED AND ACCEPTED BY	
	! REEXAMINATION.	

ISI INDICATIONS - SNUBBERS, PIPE AND COMPONENTS.

QUALITY GROUP A PIPE SNUBBERS

! BF1.10	! LINE 41 SNUBBER SR 953A, OIL ON PISTON,	! X
	! RESERVOIR LAYING ON PIPE.	
	! EVALUATED BY ENGINEERING AS OPERABLE.	
	! ACCEPTED BY EXAMINATION AFTER CORRECTION	
	! LINE 43 SNUBBER SR 1026, INSUFFICIENT	! X
	! THREAD ENGAGEMENT, CLAMP MISALIGNED,	
	! MISSING "B" SCALE.	
	! EVALUATED BY ENGINEERING AS OPERABLE.	
	! CORRECTED AND ACCEPTED BY REEXAMINATION.	

IWB-2500 REFERENCE!	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE VOL. SURF. VIS.
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QUALITY GROUP A PIPE SNUBBERS CONT'D

BF1.10	LINE 44 SNUBBER SR 1073, OIL ON SNUBBER EVALUATED BY ENGINEERING AS OPERABLE. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	LINE 62 SNUBBER SR 924, INSUFICIENT THREAD ENGAGEMENT IN TURNBUCKLE, PISTON NOT THREADED IN COMPLETELY, SCORING ON THREADED END OF PISTON. EVALUATED BY ENGINEERING AS OPERABLE. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	LINE 62 SNUBBER 62 SR 1, CLEVIS PIN RETAINER DAMAGED, NO COTTER PIN ON THE OTHER SIDE OF THE CLEVIS. EVALUATED BY ENGINEERING AS OPERABLE. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	LINE 79 SNUBBER SR 908, FRONT EYELET BEARING FROZEN, PISTON NOT FULLY ENGAGED. OIL ON PISTON. EVALUATED BY ENGINEERING AS OPERABLE. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	LINE 353 SNUBBER PWR 148, IMPROPER THREAD ENGAGEMENT ON TURNBUCKLE, FROZEN BEARING ON PISTON EYELET. EVALUATED BY ENGINEERING AS OPERABLE. CORRECTED AND ACCEPTED BY REEXAMINATION.	X

QUALITY GROUP B PIPE SNUBBERS

BF1.20	LINE 1 SNUBBER MSR 2V, MISALIGNED AND SCORING ON PISTON NEAR THREADED END. EVALUATED BY ENGINEERING AS OPERABLE. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
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QUALITY GROUP A COMPONENT SNUBBERS

BF1.40	STEAM GENERATOR 21, SNUBBER 21-3; MISSING COTTER PIN, DEFORMED CLEVIS PIN, SPHERICAL BUSHING FRACTURED, BACK PLATE CLEVIS SIDES BENT. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
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IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE VOL. SURF. VIS.
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QUALITY GROUP A COMPONENT SNUBBERS CONT'D

BF1.40	STEAM GENERATOR 21, SNUBBER 21-6; LOW OIL IN RESERVOIR, MULTIPLE SCORE MARKS ON PISTON, ADJUSTMENT SCREW BROKEN. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 22, SNUBBER 22-1; BRACKET IS BENT. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 22, SNUBBER 22-2; BRACKET IS BENT. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 22, SNUBBER 22-3; TRACE OF OIL ON RESERVOIR. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 22, SNUBBER 22-4; BRACKET IS BENT, PAINT CRACKED AND FLAKING OFF. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 22, SNUBBER 22-5; GAP 1/8" BETWEEN BEARING AND EAR. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 22, SNUBBER 22-6; BROKEN ADJUSTMENT SCREW ON TOP OF RESERVOIR SPHERICAL BEARING DISPLACED 1/32", HYDRAULIC TUBING SLIGHT BEND. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 23, SNUBBER 23-2; BRACKET IS BENT. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 23, SNUBBER 23-3; BRACKET IS BENT. CORRECTED AND ACCEPTED BY REEXAMINATION.	X
	STEAM GENERATOR 23, SNUBBER 23-4; TRACE OF OIL ON RESERVOIR CORRECTED AND ACCEPTED BY REEXAMINATION.	X

IWB-2500 REFERENCE!	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE	VOL.	SURF.	VIS.
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QUALITY GROUP A COMPONENT SNUBBERS CONT'D

BF1.40	STEAM GENERATOR 23, SNUBBER 23-5; CLEVIS PIN BENT, COTTER PIN NOT SPLAYED, SPHERICAL BEARING DISPLACED, HYDRAULIC LINE QUICK DISCONNECT NOT LOCKED IN PLACE. CORRECTED AND ACCEPTED BY REEXAMINATION.				X
	STEAM GENERATOR 23, SNUBBER 23-6; CLEVIS PIN BENT, OIL LEAK ON TUBING. CORRECTED AND ACCEPTED BY REEXAMINATION.				X
	STEAM GENERATOR 24, SNUBBER 24-1; TRACE OF OIL ON PISTON SEAL. CORRECTED AND ACCEPTED BY REEXAMINATION.				X
	STEAM GENERATOR 24, SNUBBER 24-2; TRACE OF OIL ON PISTON SEAL. CORRECTED AND ACCEPTED BY REEXAMINATION.				X
	STEAM GENERATOR 24, SNUBBER 24-3; BRACKET IS BENT, SPHERICAL BEARING DISPLACED AND GAPS TO BRACKETS EXISTED. CORRECTED AND ACCEPTED BY REEXAMINATION.				X
	STEAM GENERATOR 24, SNUBBER 24-4; BRACKET IS BENT, TRACE OF OIL ON PISTON SEAL. CORRECTED AND ACCEPTED BY REEXAMINATION.				X
	STEAM GENERATOR 24, SNUBBER 24-5; OIL ON RESERVOIR AND HOUSING. CORRECTED AND ACCEPTED BY REEXAMINATION.				X
	STEAM GENERATOR 24, SNUBBER 24-6; ADJUSTING SCREW BROKEN OFF, GREASE FITTING BENT & CRACKED, OIL LEAK AT QUICK DISCONNECT FITTING, TRACE OF OIL ON RESERVOIR. CORRECTED AND ACCEPTED BY REEXAMINATION.				X

ATTACHMENT II

SUMMARY OF INSERVICE INSPECTION HYDROSTATIC & PRESSURE TESTS  
PERFORMED ON QUALITY GROUP A AND B (ASME SECTION XI  
CLASSES 1 AND 2) PRESSURE RETAINING COMPONENTS

SECOND OUTAGE, FIRST PERIOD, THIRD INTERVAL  
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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.  
INDIAN POINT UNIT NO. 2  
DOCKET NO. 50-247  
OCTOBER, 1997

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.  
INDIAN POINT UNIT NO. 2 NUCLEAR POWER PLANT  
SECOND OUTAGE, FIRST PERIOD, THIRD INTERVAL  
HYDROSTATIC AND PRESSURE TEST SUMMARY 1997

INTRODUCTION  
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INSERVICE INSPECTION PRESSURE TESTS OF QUALITY GROUP A AND B SYSTEMS AND COMPONENTS WERE CONDUCTED AT THE INDIAN POINT UNIT NO. 2 NUCLEAR POWER PLANT CLOSING THE FIRST PERIOD OF THE THIRD INTERVAL. THIS TESTING OCCURRED DURING THE THIRTEENTH REFUELING OUTAGE FROM MAY 1997 TO JULY 1997. ALL QUALITY GROUP A AND B SYSTEMS AND COMPONENTS WERE INSPECTED USING PROCEDURES WHICH WERE UPDATED TO THE CURRENT PROGRAM REQUIREMENTS.

THIS PROGRAM USED VISUAL EXAMINATION METHODS IN ACCORDANCE WITH THE REQUIREMENTS OF:

1. CONSOLIDATED EDISON THIRD TEN YEAR INSERVICE INSPECTION PROGRAM.
2. PLANT TECHNICAL SPECIFICATIONS, AND
3. ASME BOILER AND PRESSURE VESSEL CODE, SECTION XI, 1989 EDITION WITHOUT ADDENDA.

THE AREAS TESTED ARE SUMMARIZED IN TABLE 1 AND INDICATIONS IDENTIFIED ARE IN TABLE 2.

THE TESTING OF QUALITY GROUP A EXAMINATIONS REVEALED 4 LEAKS AT NON-PRESSURE BOUNDARY, MECHANICAL CONNECTIONS. TWO WERE REPAIRED AND SUBSEQUENTLY REEXAMINED AS SATISFACTORY. THE REMAINING TWO WERE MINOR INDICATIONS AND THE PRESSURE BOUNDARY WAS NOT COMPROMISED.

THE QUALITY GROUP B EXAMINATIONS WERE PERFORMED WITH INSULATION REMOVED FROM ALL PRESSURE BOUNDARY BOLTED CONNECTIONS. ONE THROUGH WALL LEAK WAS IDENTIFIED, REPAIRED AND REEXAMINED AS SATISFACTORY. THERE WERE 36 PRESSURE BOUNDARY BOLTING DEFICIENCIES IDENTIFIED, REPAIRED AND REEXAMINED AS SATISFACTORY. 42 OF THE 60 IDENTIFIED NON-PRESSURE BOUNDARY MECHANICAL CONNECTION DEFICIENCIES WERE REPAIRED AND REEXAMINED AS SATISFACTORY. THE REMAINING 18 WERE MINOR INDICATIONS AND THE PRESSURE BOUNDARY WAS NOT COMPROMISED.

ATTACHMENT II

TABLE 1

AREAS TESTED

TEST NO.	TITLE	QUALITY GROUP	DRAWINGS
PI-3Y17	CVCS MAKEUP SYSTEM ISI	B	9321-F-2736, 2745
PI-3Y17A	EMERGENCY BORATION LINE ISI	B	9321-F-2736
PI-3Y18	PW TO CVCS MAKEUP ISI	B	9321-F-2736
PI-3Y25	CONTAINMENT SPRAY PUMPS ISI	B	9321-F-2735
PI-3Y26	CONTAINMENT SPRAY DISCHARGE ISI	B	9321-F-2735, 235296
PI-3Y28	RECIRCULATION PUMP ISI	B	235296
PI-3Y38	MAIN STEAM TRAPS	B	9321-F-2041
PI-3Y40	SIS PUMPS ISI	B	9321-F-2735
PI-3Y41	SIS DISCHARGE ISI	B	9321-F-2735, 235296
PI-3Y41A	21 ACCUMULATOR TANK ISI	B	9321-F-2745, 235296
PI-3Y41B	22 ACCUMULATOR TANK ISI	B	9321-F-2745, 235296
PI-3Y41C	23 ACCUMULATOR TANK ISI	B	9321-F-2745, 235296
PI-3Y41D	24 ACCUMULATOR TANK ISI	B	9321-F-2745, 235296
PI-3Y41E	ATTP SUCTION/DISCHARGE ISI	B	9321-F-2735
PI-3Y45	RWST TO RHR SUCTION ISI	B	9321-F-2735
PI-3Y46	RWST AND SI PUMP SUCTION ISI	B	9321-F-2735
PI-3Y48	SEAL RETURN PIPING OUTSIDE VC ISI	B	9321-F-2736
PI-3Y48A	SEAL RETURN PIPING INSIDE VC ISI	B	208168
PI-3Y49	LETDOWN OUTSIDE VC ISI	B	9321-F-2736
PI-3Y50	VCT BYPASS TO RHR ISI	B	9321-F-2736
PI-3Y51	LETDOWN INSIDE VC ISI	B	208168
PI-3Y57	CHARGING & SEAL INJ. OUTSIDE VC ISI	B	9321-F-2745
PI-3Y57A	CHARGING & SEAL INJ. INSIDE VC ISI	B	206168
PI-3Y58	PURIFICATION BOOSTER PUMP ISI	B	208168
PI-3Y74	SG SYSTEMS ISI	B	9321-F-2019, 2729
PT-3Y8	CONTAINMENT SPRAY NOZZLE TEST	B	235296
PT-3Y13	RP SAMPLE LINE PRESSURE DECAY TEST	B	9321-F-2745, 235296
PT-R12	RHR SYSTEM HYDRO TEST	B	9321-F-2720, 2735, 235296, 251783.
PT-R27	885A AND 885B HYDRO TEST	B	251783.
PT-R75	RCS HYDRO TEST	A	9321-F-2738, 2745 208168.
PT-V10	SPECIAL RCS HYDRO TEST	A	9321-F-2738, 2745 208168

ATTACHMENT II

TABLE 2

SUMMARY OF REPORTED INDICATIONS

QUALITY GROUP A AND B PRESSURE RETAINING COMPONENTS

QUALITY GROUP A PRESSURE RETAINING COMPONENTS			
LEAKAGE TYPE	# FOUND	# REPAIRED	# DEFERRED
THROUGH-WALL LEAKS	0	0	0
MECHANICAL PRESSURE BOUNDARY	0	0	0
MECHANICAL NON-PRESSURE BOUNDARY	4	2	2
TOTAL ITEMS BY STATUS	4	2	2

QUALITY GROUP B PRESSURE RETAINING COMPONENTS			
LEAKAGE TYPE	# FOUND	# REPAIRED	# DEFERRED
THROUGH-WALL LEAKS	1	1	0
MECHANICAL PRESSURE BOUNDARY	36	36	0
MECHANICAL NON-PRESSURE BOUNDARY	60	42	18
TOTAL ITEMS BY STATUS	97	79	18

ATTACHMENT III

OWNER'S REPORT FOR INSERVICE INSPECTIONS  
ASME SECTION XI FORM NIS-1

SECOND OUTAGE, FIRST PERIOD, THIRD INTERVAL  
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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.  
INDIAN POINT UNIT NO. 2  
DOCKET 50-247  
OCTOBER, 1997

FORM NIS-1 OWNER'S REPORT  
FOR INSERVICE INSPECTIONS  
AS REQUIRED BY THE PROVISIONS OF THE ASME RULES

- =====
1. OWNER: CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.  
4 IRVING PLACE, NEW YORK, NY 10003
2. PLANT: INDIAN POINT STATION  
BROADWAY AND BLEAKLEY AVE.  
BUCHANAN, NY 10511
3. PLANT UNIT: NO. 2
4. OWNER CERTIFICATE OF AUTHORIZATION: NA
5. COMMERCIAL SERVICE DATE: JULY 1, 1974
6. NATIONAL BOARD NUMBER: NA
7. COMPONENTS INSPECTED:

! COMPONENT OR ! ! APPURTENANCE !	! MANUFACTURER ! ! OR INSTALLER !	! MFG. - INST. ! ! SERIAL NO. !	! STATE OR ! ! PROVINCE NO. !	! NATIONAL ! ! BOARD NO. !
! REACTOR ! ! VESSEL !	! COMBUSTION ! ! ENGINEERING !	! 65201 !	! NONE !	! 20756 !
! PRESSURIZER !	! WESTINGHOUSE !	! 33-460-1 !	! NONE !	! 6640 !
! 21 STEAM ! ! GENERATOR !	! WESTINGHOUSE !	! 16A5780-1 !	! NONE !	! 732 !
! 24 STEAM ! ! GENERATOR !	! WESTINGHOUSE !	! 16A5780-4 !	! NONE !	! 738 !
! REGENERATIVE ! ! HEAT EXCH. !	! SENTRY EQUIP. !	! NONE !	! NONE !	! NONE !
! 22 RHR HEAT ! ! EXCHANGER !	! ATLAS !	! IPPACAHRS-2 !	! NONE !	! 659 !
! 21 REACTOR ! ! COOLANT PUMP !	! WESTINGHOUSE !	! RCPCPI-03 ! ! 1370-2, 806 !	! NONE !	! NONE !
! 23 REACTOR ! ! COOLANT PUMP !	! WESTINGHOUSE !	! RCPCPI-03 !	! NONE !	! NONE !
! CLASS 1 AND 2 ! ! PIPING !	! UNITED ENG. ! ! AND ! ! CONSTRUCTORS !	! NONE !	! NONE !	! NONE !

8. EXAMINATION DATES: 5-1-97 TO 7-1-97

9. INSPECTION PERIOD IDENTIFICATION: FIRST
10. INSPECTION INTERVAL IDENTIFICATION: THIRD
11. APPLICABLE EDITION OF SECTION XI: 1989 NO ADDENDA
12. DATE/REVISION OF INSPECTION PLAN: JANUARY 24, 1994 REV. 0
13. ABSTRACT OF EXAMINATIONS AND TESTS: SEE ATTACHMENT I, SUMMARY AND TABLE 1. SEE ATTACHMENT II SUMMARY AND TABLE 1.
14. ABSTRACT OF RESULTS OF EXAMINATIONS AND TESTS: SEE ATTACHMENT I TABLE 2 AND ATTACHMENT II TABLE 2.
15. ABSTRACT OF CORRECTIVE MEASURES: SEE ATTACHMENT I & II SUMMARIES.

WE CERTIFY THAT A) THE STATEMENTS MADE IN THIS REPORT ARE CORRECT, B) THE EXAMINATIONS AND TESTS MEET THE INSPECTION PLAN AS REQUIRED BY THE ASME CODE, SECTION XI, AND C) CORRECT MEASURES TAKEN TO CONFORM TO THE RULES OF THE ASME CODE, SECTION XI.

CERTIFICATE OF AUTHORIZATION NO.: NONE EXP. DATE: NA

DATE: 9/22, 1997 SIGNED: CONSOLIDATED EDISON OF NEW YORK  
 BY: P. E. Deedler

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS BY 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 OWNER'S REPORT DURING THE PERIOD 5-5-97 TO 9-24-97 AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED THE EXAMINATIONS AND TESTS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS OWNER'S REPORT IN ACCORDANCE WITH THE INSPECTION PLAN AS REQUIRED BY ASME CODE, SECTION XI.

BY SIGNING THIS CERTIFICATE NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EXAMINATIONS, TESTS, AND CORRECTIVE MEASURES DESCRIBED IN THIS OWNER'S REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

[Signature]  
 INSPECTOR'S SIGNATURE

COMMISSIONS NB 10011 I, N NYS 3084  
 NATIONAL BOARD, STATE, PROVINCE  
 AND ENDORSEMENTS

DATE 9-24, 1997

ATTACHMENT IV

OWNER'S REPORT FOR REPAIRS AND REPLACEMENTS  
ASME SECTION XI FORM NIS-2

SECOND OUTAGE, FIRST PERIOD, THIRD INTERVAL  
-----

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.  
INDIAN POINT UNIT NO. 2  
DOCKET 50-247  
OCTOBER, 1997

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE SECTION XI**

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1. Owner: Consolidated Edison of New York, Inc. Date: 9-15-97  
4 Irving Place, New York, NY 10003
2. Plant: Indian Point Station Unit: No. 2  
Broadway and Bleakley Ave.  
Buchanan, NY 10511
3. Work Performed by: Owner Repair Org. PO: None
4. Identification of Systems: RHR, CVCS, FW, SIS, RCS, COND, CSS & MS
5. (A) Applicable Construction Codes: NA  
(B) Applicable Edition of Section XI  
utilized for repairs or replacements: 1989 Edition, No Addenda

6. Identification of components repaired or replaced and replacement components:

Name of Component	Manufacturer	Serial No.	National Board No.	Other Ident.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped	Construction Code
<b>NONE</b>								

7. Description of work:
8. Tests conducted: Hydrostatic ( ) Pneumatic ( )  
Nominal Operating ( )  
Other ( ) Pressure \_\_\_\_\_ Test Temp. \_\_\_\_\_
9. Remarks: No ASME Section III or Section VIII components were repaired or replaced this outage.  
A listing of additional non ASME III or VIII components which are included in the Section XI Code Repair & Replacement Program is contained in the attached NIS-2 table.

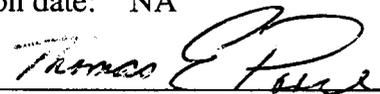
**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and these repairs/replacements conform to the rules of the ASME Code, Section XI.

Type code symbol stamp: None

Certificate of Authorization No.: None

Expiration date: NA

Signed   
Owner or Owner's designee, Title

Date 9/24, 1997

**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 H.S.B. I & I Co. of HARTFORD, CT have inspected the components described in this owner's report during the period 5-5-97 to 9-24-97, and state that to the best of my knowledge and belief, the owner has performed examinations and taken corrective measures described in this 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.

Date 9-24, 1997

  
Inspector's Signature

Commissions NB10011, I.N MS 3084  
National Board, State, Province  
& Endorsements

NIS-2 (CONT.)  
 ABSTRACT OF REPAIRS, REPLACEMENTS OR  
 CORRECTIVE MEASURES REQUIRED FOR CONTINUED  
 SERVICE

CODE CLASS	R/R PLAN NUMBER	ITEM DESCRIPTION	CORRECTIVE ACTION	WORK DESCRIPTION	DATE COMPLETE
A	NP-95-80361	PCV-455B	INSPECTED	VALVE INTERNALS	97-06-07
A	NP-95-80579	PCV-456, COPES VUCAN 3"	REPLACED	TRIM SET	96-02-13
A	NP-95-80580	PCV-455C, COPES VUCAN 3"	REPLACED	TRIM SET	96-02-14
A	NP-95-81582	21RCP	INSPECTED	SEAL HOUSING BOLTS	97-05-29
A	NP-95-81586	23RCP	INSPECTED	MAIN FLANGE STUDS	97-05-09
A	NP-95-81613	895B	INSPECTED	VALVE INTERNALS	97-05-27
A	NP-96-82325	21RV	REPLACED	FUEL	97-07-02
A	NP-96-82578	PCV-468, CROSBY 4" x 6"	REPLACED	STUDS AND NUTS	96-02-15
A	NP-96-82892	897C	INSPECTED	VALVE INTERNALS	97-05-21
A	NP-96-82896	535	REPLACED	VALVE	97-05-23
A	NP-96-82897	536	REPLACED	VALVE	97-05-23
A	NP-96-82913	200A	REPLACED	VALVE PARTS	97-05-22
A	NP-96-82914	204B	RETORQUED	BONNET BOLTS	97-05-24
A	NP-96-83016	PCV-355A	REPLACED	DIAPHRAM	97-06-06
A	NP-96-83023	200C	REPLACED	TRIM SET AND DIAPHRAM	97-05-23

<b>CODE CLASS</b>	<b>R/R PLAN NUMBER</b>	<b>ITEM DESCRIPTION</b>	<b>CORRECTIVE ACTION</b>	<b>WORK DESCRIPTION</b>	<b>DATE COMPLETE</b>
A	NP-96-83024	200B	INSPECTED	VALVE INTERNALS	97-05-22
A	NP-96-83066	897A	INSPECTED	VALVE INTERNALS	97-05-24
A	NP-96-83168	PCV-468	REPLACED	STUDS & NUTS	97-06-15
A	NP-96-83282	PCV-464	REPAIRED	VALVE	97-06-13
A	NP-96-83283	PCV-466	REPAIRED	VALVE	97-06-24
A	NP-96-83443	PCV-455C	REPLACED	VALVE	97-06-20
A	NP-96-83445	PCV-456	REPLACED	VALVE	97-06-20
A	NP-96-84026	21RV	REPLACED	PIPING	97-05-30
A	NP-96-84202	211	INSPECTED	VALVE INTERNALS	97-05-23
A	NP-96-84605	374	INSPECTED	VALVE INTERNALS	97-05-23
A	NP-96-87149	24RCP	INSPECTED	SEAL HOUSING BOLTS	97-05-29
A	NP-96-87534	21RCP	REPLACED	FLANGE STUDS & NUTS	97-05-25
A	NP-96-87535	24RCP	REPLACED	FLANGE STUDS & NUTS	97-05-25
A	NP-97-89528	PCV-468	REPLACED	STUDS AND NUTS	97-03-04
A	NP-97-89579	4971	REPLACED	VALVE PARTS	97-05-26
A	NP-97-89617	838A	INSPECTED	VALVE INTERNALS	97-05-20
A	NP-97-89618	838B	INSPECTED	VALVE INTERNALS	97-05-24
A	NP-97-89619	838C	INSPECTED	VALVE INTERNALS	97-05-21
A	NP-97-89748	839H, COPEES 3/4" AOV	REPLACED	DISC	97-04-04
A	NP-97-90272	535	REPLACED	VALVE PARTS	06-24-97
A	NP-97-90273	536	REPLACED	VALVE PARTS	97-07-04

CODE CLASS	R/R PLAN NUMBER	ITEM DESCRIPTION	CORRECTIVE ACTION	WORK DESCRIPTION	DATE COMPLETE
A	NP-97-90487	955A	INSTALLED	STRAIN GAGE	97-07-02
A	NP-97-90490	955B	INSTALLED	STRAIN GAGE	97-07-02
A	NP-97-90947	895C	INSPECTED	VALVE INTERNALS	97-05-24
A	NP-97-91036	FLANGE F-2 ON LINE-75	REPLACED	STUDS AND NUTS	97-05-24
A	NP-97-91051	212	REPLACED	GASKET	97-05-23
A	NP-97-91064	210B	INSPECTED	VALVE INTERNALS	97-05-24
A	NP-97-91065	21A	INSPECTED	VALVE INTERNALS	97-05-27
A	NP-97-91535	ACH-557	REPLACED	CLAMP	97-06-04
A	NP-97-91575	SR-894	MODIFIED	SUPPORT U-BOLT	97-06-13
A	NP-97-91727	PWR-93	REPAIRED	SUPPORT	97-06-13
A	NP-97-91728	CH-556	INSPECTED	SUPPORT	97-06-09
A	NP-97-91758	CH-138	REPAIRED	BOLTING	97-06-11
A	NP-97-92279	HCV-3100	REPLACED	THERMALS	97-06-27
B	NP-93-66999	CH-165	REPLACED	SUPPORT	96-08-14
B	NP-94-73434	ACH-115	INSTALLED	SUPPORT	96-10-25
B	NP-95-75536	23CHP, SUCTION FLANGE	REPLACED	STUDS AND NUTS	95-08-01
B	NP-95-75544	848B	REPAIRED	VALVE WEDGES	97-06-07
B	NP-95-75570	SIH-258	REPLACED	SUPPORT	96-03-28
B	NP-95-75670	5221, CONVAL 2"	REPLACED	BONNET	95-06-16
B	NP-95-76430	SIH-71, SUPPORT	INSTALLED	LOCK NUT	95-06-14
B	NP-95-76461	SIH-52, SUPPORT	INSTALLED	NUT	95-06-14

<b>CODE CLASS</b>	<b>R/R PLAN NUMBER</b>	<b>ITEM DESCRIPTION</b>	<b>CORRECTIVE ACTION</b>	<b>WORK DESCRIPTION</b>	<b>DATE COMPLETE</b>
B	NP-95-76485	MS-361	REPLACED	NUTS AND SUPPORT	97-05-02
B	NP-95-76825	SIH-253	REPLACED	MISSING GROUT	96-05-21
B	NP-95-77145	21RRHX	REPLACED	STUDS	97-06-10
B	NP-95-77146	22RRHX	REPLACED	FLANGE STUDS	97-06-10
B	NP-95-77280	ACH-102, SUPPORT	REPLACED	NUTS	96-05-06
B	NP-95-77354	SR-730	REPAIRED	HANGER	97-06-07
B	NP-95-78051	261B	REPLACED	VALVE PARTS	97-05-26
B	NP-95-78052	261D	INSPECTED	VALVE INTERNALS	97-05-23
B	NP-95-78142	888B	REPAIRED	VALVE	97-07-16
B	NP-95-78158	205	REPLACED	STUDS AND NUTS	97-06-18
B	NP-95-78415	FE-115B, ORIFICE	REPLACED	STUDS AND NUTS	95-11-30
B	NP-95-78577	829A	REPLACED	VALVE	97-05-21
B	NP-95-78578	829D	INSPECTED	VALVE INTERNALS	97-05-24
B	NP-95-79477	284	REPLACED	VALVE	97-05-23
B	NP-95-79609	21RP	REPLACED	STUDS AND NUTS	97-05-20
B	NP-95-79716	SR-47	REPAIRED	SUPPORT	97-05-09
B	NP-95-79916	MS-102-5, CONVAL	REPLACED	VALVE	96-04-17
B	NP-95-80154	PI-109	REPLACED	FLANGE AND BOLTS	96-06-17
B	NP-95-80217	SR-57	REPAIRED	SUPPORT	97-06-08
B	NP-95-80252	369, GRINNELL SAUNDERS 2"	REPLACED	BONNET	96-08-05

<b>CODE CLASS</b>	<b>R/R PLAN NUMBER</b>	<b>ITEM DESCRIPTION</b>	<b>CORRECTIVE ACTION</b>	<b>WORK DESCRIPTION</b>	<b>DATE COMPLETE</b>
B	NP-95-80493	FT-110, TRANSMITTER	REPLACED	STUDS AND BOLTS	95-11-30
B	NP-95-80871	PCV-1134	REPLACED	VALVE PARTS	97-05-17
B	NP-95-81019	MST-2, YARWAY 2"	REPLACED	DISC	95-02-05
B	NP-95-81029	MST-1, YARWAY 1.5"	REPLACED	STUD	96-02-07
B	NP-95-81325	263	REPLACED	VALVE	97-05-23
B	NP-95-81365	890D	REPLACED	VALVE PARTS	97-05-29
B	NP-95-81406	1562, CONVAL 2"	REPLACED	BONNET	96-01-31
B	NP-95-81472	21BATP, A.W. CHESTERTON	OVERHAULED	PUMP	96-01-12
B	NP-95-81508	FE-115B	REPLACED	STUDS AND NUTS	97-07-01
B	NP-95-81546	892B	REPLACED	STUDS AND NUTS	97-05-29
B	NP-95-81577	SIH-120, SUPPORT	REPLACED	MISSING GROUT	96-01-23
B	NP-95-81757	MS-2B	INSPECTED	VALVE INTERNALS	97-06-04
B	NP-96-82132	201	INSPECTED	VALVE INTERNALS	97-05-23
B	NP-96-82274	879A	INSPECTED	VALVE INTERNALS	97-05-31
B	NP-96-82353	886B	INSPECTED	VALVE INTERNALS	97-05-26
B	NP-96-82358	MS-1-21	REPAIRED	VALVE COVER	97-05-30
B	NP-96-82382	261A	REPLACED	VALVE TRIM SET	97-05-23
B	NP-96-82398	261C	INSPECTED	VALVE INTERNALS	97-05-24
B	NP-96-82817	MST-3	REPLACED	INTERNAL	05-20-96
B	NP-96-82888	4055	REPLACED	STEM AND BONNET	97-05-22

CODE CLASS	R/R PLAN NUMBER	ITEM DESCRIPTION	CORRECTIVE ACTION	WORK DESCRIPTION	DATE COMPLETE
B	NP-96-82904	958	INSPECTED	VALVE INTERNALS	97-05-26
B	NP-96-82915	MS-1-22	REPAIRED	GASKET SURFACE	97-06-06
B	NP-96-82916	MS-2A	INSPECTED	VALVE INTERNALS	97-06-05
B	NP-96-83036	PI-108	REPLACED	GAUGE AND SCREWS	96-10-21
B	NP-96-83045	22SG	REMOVED SLUDGE AND PERFORMED FOSAR	STEAM GENERATOR	97-02-25
B	NP-96-83046	23SG	REMOVED SLUDGE AND PERFORMED FOSAR	STEAM GENERATOR	97-02-25
B	NP-96-83047	24SG	REMOVED SLUDGE AND PERFORMED FOSAR	STEAM GENERATOR	97-02-25
B	NP-96-83047	24SG	REMOVED SLUDGE AND PERFORMED FOSAR	STEAM GENERATOR	97-02-20
B	NP-96-83049	21SG	REMOVED SLUDGE AND PERFORMED FOSAR	STEAM GENERATOR	97-02-25
B	NP-96-83073	HCV-133	INSPECTED	VALVE INTERNALS	97-05-30
B	NP-96-83076	21SG	INSPECTED	STEAM GENERATOR	97-06-05
B	NP-96-83077	22SG	INSPECTED	STEAM GENERATOR	97-06-05
B	NP-96-83082	23SG	INSPECTED	STEAM GENERATOR	97-06-05
B	NP-96-83083	24SG	INSPECTED	STEAM GENERATOR	97-06-30
B	NP-96-83305	225	INSPECTED	VALVE INTERNALS	97-05-20
B	NP-96-83312	BFD-6-2	INSPECTED	VALVE INTERNALS	97-07-14
B	NP-96-83401	744	REPAIRED	VALVE	97-07-06
B	NP-96-83412	888A	REPAIRED	VALVE	97-07-02

<b>CODE CLASS</b>	<b>R/R PLAN NUMBER</b>	<b>ITEM DESCRIPTION</b>	<b>CORRECTIVE ACTION</b>	<b>WORK DESCRIPTION</b>	<b>DATE COMPLETE</b>
B	NP-96-84107	297	INSPECTED	VALVE INTERNALS	97-05-24
B	NP-96-84212	LINE #140, SUPPORT	REPLACED	NUTS	96-05-08
B	NP-96-84213	LINE #120, SUPPORT	REPLACED	BOLTS	96-05-08
B	NP-96-84215	LINE #120, SUPPORT	REPLACED	SHIM	96-05-08
B	NP-96-84242	LINE #228, SUPPORT	REPLACED	U-BOLT	96-05-09
B	NP-96-84250	LINE #43, SUPPORT	REPLACED	NUTS	96-05-09
B	NP-96-84257	140-HSR-001, SUPPORT	REPLACED	SUPPORT	96-05-14
B	NP-96-84262	LINE #120, SUPPORT	REPLACED	NUT	96-05-09
B	NP-96-84273	140-HSR-002, SUPPORT	REPLACED	SUPPORT	96-05-13
B	NP-96-84275	140-HSR-003, SUPPORT	REPLACED	SUPPORT	96-05-12
B	NP-96-84326	LINE #42, SUPPORT	REPLACED	U-BOLT	96-05-14
B	NP-96-84328	LINE #43, SUPPORT	REPLACED	NUT	96-05-14
B	NP-96-84333	750-H-1, SUPPORT	REPLACED	CLEVIS	96-05-16
B	NP-96-84344	LINE #170, SUPPORT	REPLACED	U-BOLT	96-05-28
B	NP-96-84347	LINE #402, SUPPORT	REPLACED	SUPPORT	96-05-30
B	NP-96-84359	211-H-4	REPLACED	ROD, NUTS AND CLEVIS	96-07-19
B	NP-96-84386	228-HSR-001, SUPPORT	REPLACED	SUPPORT	97-06-03
B	NP-96-84387	204-HSR-001, SUPPORT	REPLACED	SUPPORT	97-06-03
B	NP-96-84388	208-HSR-001, SUPPORT	REPLACED	SUPPORT	97-06-03
B	NP-96-84556	170-HSR-001, SUPPORT	MODIFIED	SUPPORT	96-09-06
B	NP-96-84608	847	INSPECTED	VALVE INTERNALS	97-06-06

CODE CLASS	R/R PLAN NUMBER	ITEM DESCRIPTION	CORRECTIVE ACTION	WORK DESCRIPTION	DATE COMPLETE
B	NP-96-84723	LINE #109, SUPPORT	REPLACED	NUTS	96-07-02
B	NP-96-84797	402-SR-001, 402-HSR-001 AND 002, SUPPORTS	REPLACED	BRACKET	96-08-01
B	NP-96-84798	402-HSR-003 AND 004, SUPPORTS	REPLACED	SUPPORTS	96-08-01
B	NP-96-85150	TCV-149	INSPECTED	VALVE INTERNALS	97-05-24
B	NP-96-85318	A74A, FLANGE	REPLACED	STUDS AND NUTS	96-07-31
B	NP-96-85403	CH-41-H-1A, SUPPORT	REPLACED	U-BOLT	96-09-09
B	NP-96-85449	223	INSPECTED	VALVE INTERNALS	97-05-20
B	NP-96-85488	267A	INSPECTED	VALVE INTERNALS	97-05-29
B	NP-96-85558	SR-31, SUPPORT	REPLACED	STOPS	96-08-18
B	NP-96-85559	SR-319, SUPPORT	REPLACED	STOPS	96-08-19
B	NP-96-85596	366, GRINNELL SANUNDERS 2"	REPLACED	BONNET	97-04-28
B	NP-96-85661	MS-1-23	REPAIRED	VALVE	97-05-28
B	NP-96-86319	MS-46D	INSPECTED	VALVE INTERNALS	97-07-06
B	NP-96-86677	747	REPLACED	STUDS AND NUTS	97-06-06
B	NP-96-86852	PI-108	REPLACED	INSTRUMENT	97-05-31
B	NP-96-86874	21SG	REPAIRED	MACHINED GASKET SURFACE & REPLACED GASKET & MANWAY COVER	97-15-02

CODE CLASS	R/R PLAN NUMBER	ITEM DESCRIPTION	CORRECTIVE ACTION	WORK DESCRIPTION	DATE COMPLETE
B	NP-96-87495	22BATP, A.W. CHESTERTON	REPLACED	BOWL	96-11-22
B	NP-96-87850	MS-45B	REPAIRED	VALVE	97-07-06
B	NP-96-87851	MS-45D	REPAIRED	VALVE	97-07-06
B	NP-96-87852	MS-47D	REPAIRED	VALVE	97-07-06
B	NP-96-87906	21RWST	REPAIRED	ELBOW	97-05-19
B	NP-96-87908	MS-49A	INSPECTED	VALVE INTERNALS	97-07-07
B	NP-96-87909	MS-48C	REPAIRED	VALVE	97-07-06
B	NP-96-87910	MS-49C	REPAIRED	VALVE	97-07-06
B	NP-96-87911	MS-49B	REPAIRED	VALVE	97-07-06
B	NP-96-87912	MS-47B	REPAIRED	VALVE	97-07-06
B	NP-96-87913	MS-46B	REPAIRED	VALVE	97-07-10
B	NP-96-87914	MS-48D	INSPECTED	VALVE INTERNALS	97-07-06
B	NP-96-87915	MS-49D	REPAIRED	VALVE	97-07-06
B	NP-97-88207	SUPPORT NEAR MS-2C	REPLACED	COTTER KEY	97-03-17
B	NP-97-88742	PCV-1216 COPES VULCAN 2"	REPLACED	DISC	97-04-04
B	NP-97-88744	PCV-1217 COPES VULCAN 2"	REPLACED	DISC	97-04-04
B	NP-97-89235	337	REPLACED	VALVE PARTS	97-06-21
B	NP-97-89323	22SG	INSPECTED	SUPPORT PLATE	97-06-04
B	NP-97-89324	23SG	INSPECTED	SUPPORT PLATE	97-06-02

CODE CLASS	R/R PLAN NUMBER	ITEM DESCRIPTION	CORRECTIVE ACTION	WORK DESCRIPTION	DATE COMPLETE
B	NP-97-89325	22SG	INSPECTED	STEAM GENERATOR HILLSIDE PORT	97-05-28
B	NP-97-89326	23SG	INSPECTED	STEAM GENERATOR HILLSIDE PORT	97-05-27
B	NP-97-89475	361	REPLACED	STUDS AND NUTS	97-05-29
B	NP-97-89482	MS-3B	INSPECTED	VALVE	97-06-04
B	NP-97-89577	FE-924	REPLACED	STUDS AND NUTS	97-05-20
B	NP-97-89631	892D CROSBY 1" x 2"	REPLACED	VALVE	97-03-06
B	NP-97-89704	21RCF	REPLACED	FILTER	97-03-11
B	NP-97-89755	334, GRINNELL SAUNDERS 2"	REPLACED	STUDS AND NUTS	97-04-04
B	NP-97-90162	746	DRILLED HOLE	VALVE DISC	97-06-25
B	NP-97-90165	889A	DRILLED HOLE	VALVE DISC	97-06-23
B	NP-97-90166	889B	INSPECTED	VALVE INTERNALS	97-05-29
B	NP-97-90168	1802B	MODIFIED	VALVE	97-07-06
B	NP-97-90399	LC-112D	REPLACED	STUDS AND NUTS	97-05-19
B	NP-97-90400	LC-112D	REPLACED	NUTS AND STUDS	97-05-19
B	NP-97-90414	21RCF	INSTALLED	FILTER	97-06-27
B	NP-97-90424	232	INSPECTED	VALVE INTERNALS	97-05-24
B	NP-97-90427	235	INSPECTED	VALVE INTERNALS	97-05-23
B	NP-97-90451	22CSP	REPLACED	STUDS AND NUTS	97-05-04
B	NP-97-90453	867A	REPLACED	BONNET GASKET	97-05-31

<b>CODE CLASS</b>	<b>R/R PLAN NUMBER</b>	<b>ITEM DESCRIPTION</b>	<b>CORRECTIVE ACTION</b>	<b>WORK DESCRIPTION</b>	<b>DATE COMPLETE</b>
B	NP-97-90470	22CSP	REPLACED	STUDS AND NUTS	97-05-04
B	NP-97-90499	5220	INSPECTED	VALVE INTERNALS	97-05-16
B	NP-97-90557	735B	INSPECTED	BONNET BOLTS	97-05-25
B	NP-97-90558	735A	INSPECTED	VALVE INTERNALS	97-05-20
B	NP-97-90559	739A	INSPECTED	VALVE INTERNALS	97-05-19
B	NP-97-90560	739B	INSPECTED	VALVE INTERNALS	97-05-19
B	NP-97-90635	FE-924A	INSPECTED	FLANGE INTERNALS	97-05-19
B	NP-97-90820	MS-45A	INSPECTED	VALVE INTERNALS	97-07-09
B	NP-97-90821	MS-45C	INSPECTED	VALVE INTERNALS	97-07-06
B	NP-97-90847	MS-46A	INSPECTED	VALVE INTERNALS	97-07-09
B	NP-97-90849	MS-46C	INSPECTED	VALVE INTERNALS	97-07-06
B	NP-97-90850	MS-47A	INSPECTED	VALVE INTERNALS	97-07-08
B	NP-97-90851	MS-47C	INSPECTED	VALVE INTERNALS	97-07-06
B	NP-97-90852	MS-48A	INSPECTED	VALVE INTERNALS	97-07-07
B	NP-97-90853	MS-48B	INSPECTED	VALVE INTERNALS	97-06-14
B	NP-97-90885	BFD-79	REPLACED	STUDS AND NUTS	97-06-23
B	NP-97-90943	894C	REPAIRED	VALVE DISCS	97-06-01
B	NP-97-90968	738D	INSPECTED	VALVE INTERNALS	97-07-02
B	NP-97-91053	894A	INSPECTED	VALVE BOLTING	97-07-04
B	NP-97-91066	FE-946B	REPLACED	STUDS AND NUTS	97-05-22
B	NP-97-91099	866A	REPLACED	BONNET GASKET	97-07-03

CODE CLASS	R/R PLAN NUMBER	ITEM DESCRIPTION	CORRECTIVE ACTION	WORK DESCRIPTION	DATE COMPLETE
B	NP-97-91100	ST-51 AND FLANGE F-5	REPLACED	STUDS AND NUTS	97-05-30
B	NP-97-91207	FIT-158A	REPLACED	U-BOLT	97-05-19
B	NP-97-91286	21NRHX	REPLACED	STUDS AND NUTS	97-05-24
B	NP-97-91287	21NRHX	REPLACED	STUDS AND NUTS	97-05-22
B	NP-97-91343	885B	REPAIRED	VALVE SEATS	97-07-02
B	NP-97-91344	741A	INSPECTED	VALVE INTERNALS	97-05-25
B	NP-97-91500	21SG	REPAIRED	SNUBBER CLEVIS	97-06-11
B	NP-97-91549	21SG	INSPECTED	STEAM GENERATOR HAND HOLES	97-06-04
B	NP-97-91550	24SG	INSPECTED	STEAM GENERATOR HAND HOLES	97-06-04
B	NP-97-91756	16-H-20	REPAIRED	BOLTING	97-06-13
B	NP-97-91789	2-PR-5	REPIARED	BOLTING	97-06-09
B	NP-97-91945	1860	REPLACED	STUDS AND NUTS	97-06-18
B	NP-97-91946	21RWST	REPLACED	BOLTING	97-06-18
B	NP-97-92051	MS-67-H	INSTALLED	ANNUBAR	97-06-11
B	NP-97-92054	21BATP	INSPECTED	FLANGE BOLTS	97-06-23
B	NP-97-92055	367B	REPLACED	VALVE PARTS	97-06-17
B	NP-97-92067	844	REPLACED	STUDS AND NUTS	97-06-17
B	NP-97-92069	840B	REPLACED	STUDS AND NUTS	97-06-17
B	NP-97-92070	21RWST	REPLACED	BOLTING	97-06-18

<b>CODE CLASS</b>	<b>R/R PLAN NUMBER</b>	<b>ITEM DESCRIPTION</b>	<b>CORRECTIVE ACTION</b>	<b>WORK DESCRIPTION</b>	<b>DATE COMPLETE</b>
B	NP-97-92075	21RWST	REPLACED	BOLTING	97-06-17
B	NP-97-92084	22SG	INSPECTED	BOLTING	97-06-12
B	NP-97-92103	21BAT	REPLACED	STUDS AND NUTS	97-06-22
B	NP-97-92136	840A	REPLACED	STUDS AND NUTS	97-06-17
B	NP-97-92142	95B	REPAIRED	VALVE	97-06-17
B	NP-97-92143	95A	REPLACED	VALVE PARTS	97-06-19
B	NP-97-92183	292	REPLACED	STUDS & NUTS	97-06-16
B	NP-97-92185	22AT	INSTALLED	STUDS AND NUTS	97-06-19
B	NP-97-92213	MS-55A	INSPECTED	VALVE	97-06-18
B	NP-97-92248	848A	REPLACED	STUDS AND NUTS	97-06-23
B	NP-97-92271	21SG	REPAIRED	SNUBBER	97-06-25
B	NP-97-92400	21VCT	REPLACED	BOLTS	97-06-20
B	NP-97-92404	23CHP	REPLACED	STUDS AND NUTS	97-06-20
B	NP-97-92409	22CHP	REPLACED	STUDS	97-06-21
B	NP-97-92423	22CHP	REPLACED	STUDS	97-06-23
B	NP-97-92652	23SG	REPLACED	SNUBBERS	97-06-24
B	NP-97-92652	23SG	REPAIRED	SNUBBER	97-06-25
B	NP-97-92655	21SG	REPAIRED	SNUBBER	97-06-23
B	NP-97-93008	FIT-157A	REPLACED	STUDS AND NUTS	97-07-03
B	NP-97-93107	FE-6613	REPLACED	STUDS AND NUTS	97-07-06