Attachment I

Summary of Inservice Inspection Non Destructive Examination Performed on
Class 1 and 2 Components and Piping
During the 1993 Refueling Outage

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

CONSOLIDATED EDISON COMPANY OF NEW YORK
INDIAN POINT UNIT #2 NUCLEAR POWER PLANT
FIRST OUTAGE, THIRD PERIOD, SECOND INTERVAL
NON DESTRUCTIVE EXAMINATION SUMMARY 1993

INTRODUCTION

An Inservice Inspection Program was performed for the Indian Point Unit No. 2 Nuclear Power Plant from February 5, 1993 through April 9, 1993.

Examinations were performed to satisfy the requirements of:

1. The Con Edison Second Ten Year Inservice Inspection Program.

2. ASME Boiler and Pressure Vessel Code Section XI 1980 up to and including Winter 81 Addenda.

3. United States Nuclear Regulatory Commission Regulatory Guide 1.14 for Reactor Coolant Pump Flywheels.

4. Volumetric examination of Class 2 RHR Piping per Indian Point Unit No. 2 Commitment to the United States Nuclear Regulatory Commission in letter dated April 8, 1988.

The following items were examined:

1. Reactor Vessel Head

2. Pressurizer

3. Steam Generators 21, 22 & 24

4. Reactor Coolant Pumps 23 & 24

5. Class 1 and Class 2 Piping and Supports

6. Class 1 and Class 2 Component Supports

The examinations listed were performed as 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 performed by Test & Performance and Quality Assurance Departments.

Examinations resulted in the following recordable indications being noted on the basis of procedure recording criteria, which are generally more critical than specified in the ASME Boiler and Pressure Vessel Code Section XI 1980 Edition up to and including Winter 1981 Addenda Acceptance Standards.

1. Surface recordable indications were recorded on the following:

   A. Two (2) Class 1 and Integrally Welded Pipe Supports.

Surface indications were evaluated by Consolidated Edison Company of New York Engineering Department, repaired and reexamined by Consolidated Edison Company Quality Assurance Department and Westinghouse Dynacon.

2. Visual recordable indications were recorded on the following:

   A. One (1) Reactor Coolant Pump 23 Main Flange Bolting.

   B. One (1) Class 1 Valve.

   C. Fifty Seven (57) Class 1 and Class 2 Pipe Supports.

Visual indications were evaluated by Consolidated Edison Company of New York Test & Performance or Engineering Department and either accepted as is or repaired and reexamined by Consolidated Edison Company of New York Quality Assurance Department and Westinghouse Dynacon.

Data relative to the above indications and their dispositions are located in Table 2.

Attachment I

Table 1

Areas Examined

All items listed below were examined as indicated in accordance with the requirements of the Plant Technical Specifications, the Con Edison Inservice Inspection and Testing Program, The ASME Boiler and Pressure Vessel Code Section XI 1980 Edition up to and including Winter 1981 Addenda and Nuclear Regulatory Guide 1.14 to the extent practical with access provided and the limitations of component geometry.

IWB-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
REACTOR VESSEL				
B1.22	Closure Head Meridional Welds, RVHM-4 & 5, from 0 reference through 42".	X		
B1.40	Closure Head Flange Weld, RVHC-2, from Centerline Stud Hole 37 CW through 54 to 1.	X	X	
B7.10	Conoseal Bolted Assembly, RHM-J5, J-6 & RHM-J7			X
B8.10	Integrally Welded Attachment, ISW-M1		X	
PRESSURIZER				
B2.11	Circumferential Weld, PZRC-1 from 0 reference CW through 94".	X		
B5.40	Nozzle to Safe End Weld, PZRS-1 4" Pressurizer Spray Line 61.	X	X	
B5.40	Nozzle to Safe End Weld, PZRS-3 4" Pressurizer Relief Line 342	X	X	
B7.20	Manway Bolting, PZR-MWY-9, 10, 11, 12 PZR-MWY-13, 14, 15 & 16			X
B10.20	Integrally Welded Attachment, PZR-IWS-A, From 0 Reference CW through 94".	X		
STEAM GENERATOR #24				
B5.70	Nozzle to Safe End Welds, SGS-24-4 & 5	X	X	
B7.30	Manway Studs Nuts & Washers, SGB-1C to SGB-16C and SGB-1H to SGB-16H			X

IWB-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
REACTOR COOLANT PUMP #23				
B6.180	Main Flange Studs, RCP-23-9, 10, 11 RCP-23-12, 17, 18, 19 & 23	X		X
B6.180	Main Flange Studs, RCP-23-1, 2, 3 RCP-23-4, 5, 6, 7, 8, 13, 14, 15, 16 RCP-23-20, 21, 22 & 24 RCP-23 Flywheel	X	X	
REACTOR COOLANT PUMP #24				
B6.180	Main Flange Studs, RCP-24-6, 8, 10 RCP-24-11, 13, 14, 15, 16, 17, 18 & 19	X		
B6.200	Main Flange Nuts, RCP-24-1 through 24			X
B10.20	Integrally Welded Attachments, RCP-24-ISW-A, B & C		X	
FLANGE BOLTING				
B7.50	Flange F-1, 1.5" Line 44			X
B7.50	Flange F-2, 2" Line 44			X
B7.50	Flange F-1, 4" Line 342			X
B7.50	Flange F-1, 4" Line 343			X
B7.50	Flange F-1, 4" Line 344			X
PUMP BOLTING				
B7.60	RCP-21, Seal Housing Bolts 1-18			X
B7.60	RCP-23, Seal Housing Bolts 1-18			X
VALVE BOLTING				
B7.70	Valve 730, 14" Line 10			X
B7.70	Valves 200A & C, 2" Line 27			X
B7.70	Valves 4152 & 4153, 3" Line 62			X
B7.70	Valve 536, PCV-455C & 456, 3" Line 70			X
B7.70	Valve 342, 3" Line 79			X
B7.70	Valve PCV-464, 4" Line 342			X
B7.70	Valve PCV-466, 4" Line 343			X
B7.70	Valve PCV-468, 4" Line 344			X
B7.70	Valves 895D & 897D, 10" Line 350			X
B7.70	Valve 897A, 10" Line 351			X
B7.70	Valves 895B & 897B, 10" Line 352			X
B7.70	Valve 838B, 6" Line 356			X
B7.70	Valve 838D, 6" Line 361			X

IWB-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
CIRCUMFERENTIAL PIPE WELDS				
B9.11	4" Pressurizer Relief Line 70, Weld 70-12	X	X	
B9.11	10" Accumulator Discharge Line 352, Welds 352-10, 11 & 12	X	X	
B9.11	10" Accumulator Discharge Line 353, Welds 353-6 & 7	X	X	
B9.11	6" RHR Return Line 356, Welds 356-30	X	X	
B9.11	6" RHR Return Line 358, Welds 358-10 & 11	X	X	
B9.21	3" Pressurizer Spray Line 62, Welds 62-2AL, 3AL, 4AL, 5AL & 6AL		X	
B9.21	3" Pressurizer Spray Relief Line 70, Welds 70-8 & 13		X	
SOCKET PIPE WELDS				
B9.40	2" Seal Injection Line 41, Welds 41-39, 41-40, 41, 42, 43, 44, 45 & 46		X	
B9.40	2" Seal Injection Line 42, Welds 42-23, 42-24, 25, 26, 27 & 28		X	
B9.40	2" Seal Injection Line 43, Welds 43-47, 43-48, 49 & 50		X	
B9.40	2" Seal Injection Line 44, Welds 44-3, 44-4, 4.1, 4.3, 5, 6, 7, 8, 16.5, 44-16.6, 16.7, 16.8, 16.11, 16.12		X	
B9.40	2" Auxiliary Spray Line 64, Welds 20 & 21		X	
INTEGRALLY WELDED ATTACHMENTS				
B10.10	14" Pressurizer Surge Line 63, Weld 63 A & B		X	
B10.10	10" Accumulator Discharge Line 350, Weld 350 A		X	
B10.10	10" Accumulator Discharge Line 353, Weld 353 A & B1		X	

IWC-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
STEAM GENERATOR #21				
C1.10	Shell Circumferential Weld, SGC-21-3 100% of Length	X		
C1.10	Shell Circumferential Weld, SGC-21-4 From 246" CW to 379" from 0 reference (Centerline of feedwater nozzle)	X		
C1.20	Head Circumferential Weld, SGC-21-1 From 142" CW to 317" from 0 Reference (Centerline of Feedwater Nozzle)	X		
STEAM GENERATOR #22				
C1.10	Shell Circumferential Weld, SGC-22-3	X		
STEAM GENERATOR #24				
C1.10	Shell Circumferential Weld, SGC-24-3	X		
INTEGRALLY WELDED ATTACHMENTS				
C3.20	28" Main Steam Line 2, Weld 2-U		X	
C3.20	18" Boiler Feed Line 5, Welds 5-A & G		X	
C3.20	18" Boiler Feed Line 6, Weld 6-N		X	
CIRCUMFERENTIAL PIPE WELDS				
C5.11	6" Main Steam Line 2, Welds 2-35 & 36	X	X	
C5.11	12" Auxiliary Coolant Line 9, Welds 9-33, 40, 41, 41A, 41B, 41C, 41D, 42, 9-43, 60, 61 & 63	Note 1	X	
C5.11	8" Auxiliary Coolant Line 9, Welds 9-88, 93 & 9-94		X	
C5.11	14" Auxiliary Coolant Line 10, Welds 10-31 & 10-32	Note 1	X	
C5.11	8" Safety Injection Line 60, Welds 60-5,1, 12, 60-13 & 20		X	
LONGITUDINAL PIPE WELDS				
C5.12	12" Auxiliary Coolant Line 9, Welds 9-32.1, 9-33.1, 39.1, 40.1, 41.1, 42.1 9-59.1, 61.1 & 63.1	Note 1	X	
C5.12	8" Safety Injection Line 60, Welds 60-5.2, 5.3, 11.1, 12.1, 12.2 & 13.1		X	
C5.12	14" Auxiliary Coolant Line 10, Welds 10-30.1, 31..1, 31.2 & 32.1	Note 1	X	
C5.12	8" Auxiliary Coolant Line 9, Welds 9-87.1 & 9-93.1		X	

IWC-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
CIRCUMFERENTIAL PIPE WELDS				
C5.21	28" Main Steam Line 1, Welds 1-11.2 1-12 & 13	X	X	
C5.21	12 & 8" Main Steam Line 2, Welds 2-29 & 30	X	X	
C5.21	18" Boiler Feed Line 6, Welds 6-10 & 11	X	X	
C5.21	6" RHR Return Line 361, Weld 361-53C	X	X	
LONGITUDINAL PIPE WELDS				
C5.22	28" Main Steam Line 1, Welds 1-11.1, 1-11.3, 12.1, 12.2 & 13.1	X	X	
C5.22	10" Accumulator Discharge Line 350, Welds 350-22.1, 23.1 & 23.2	X	X	
C5.22	10" Accumulator Discharge Line 351, Welds 351-44.1, 45.1 & 45.2	X	X	
C5.22	10" Accumulator Discharge Line 352, Welds 352-23.1, 24.1 & 24.2	X	X	
C5.22	10" Accumulator Discharge Line 353, Welds 353-20.1, 21.1 & 21.2	X	X	
BRANCH PIPE WELDS				
C5.31	12" Main Steam Line 2, Weld 2-28		X	

NOTES:

1. Volumetric examination performed per Con Edison commitment to the NRC in letter dated April 8, 1988.

IWF-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
CLASS 1 AND 2 COMPONENT SUPPORTS				
F-2	28" Main Steam Line 1, Supports PR-10, PR-11 & MSR-18			X
F-2	28" Main Steam Line 2, Support MSR-4			X
F-2	18" Boiler Feed Line 5, Supports BFDR-19, PR-4, PR-5 & PR-24			X
F2	18" Boiler Feed Line 6, Supports BFDR-1, BFDR-5, BFDR-7			X
F-2	18" Boiler Feed Line 8, Supports PR-1, PR-2, PR-3, HBF-12, HBF-13, HBF-14, HBF-15 & HBF-16			X
F-2	12 & 8" Auxiliary Coolant Line 9, Supports ACH-65, ACH-67A, & SR-51			X
F-2	2" Safety Injection Line 16, Supports 16-H-10 & 16-H-22			X
F-2	3" Chemical and Volume Control Line 19, Supports CH-100 & CH-101			X
F-2	2" Seal Injection Line 44, Supports PWR-10 & PWR-36			X
F-2	3" Pressurizer Spray Line 61, Supports PWR-95, PWR-96 & PWR-97			X
F-2	14" Pressurizer Surge Line 63, Supports PWR-120, PWR-121, PWR-123 & RCH-78			X
F-2	2" Auxiliary Spray Line 64, Supports 64-SR-9, 64-SR-11, 64-SR-21, 64-SR-22, 64-SR-24, 64-SR-25, 64-H-5, 64-H-5A, PWR-104A, PWR-104B, PWR--104C, PWR-104D, PWR-105, PWR-106, PWR-107, PWR-108 & PWR-109			X
F-2	8" Containment Spray Line 93, Support SR-750 & SR-751			X
F-2	10" Accumulator Discharge Line 350, Supports PWR-4 & PWR-6			X
F-2	10" Accumulator Discharge Line 352, Support PWR-151			X
F-2	10" RHR Return Line 358, Supports PWR-133 & PWR-134			X
F-2	6" Safety Injection Line 361, Supports PWR-134, PWR-135, PWR-138, PWR-139, SIH-189, SIH-191 & SIH-196			X
F-2	Regenerative Heat Exchanger, Support RGX-2A			X

IWF-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
CLASS 1 AND 2 COMPONENT SUPPORTS - Continued				
F-2	Reactor Coolant Pump 24, Supports RCP-24-ISW-A, B & C			X
F-3	28" Main Steam Line 1, Supports HMS-17 & MSR-2V			X
F-3	28" Main Steam Line 2, Support MS-374			X
F-3	28" Main Steam Line 3, Support SR-M-7			X
F-3	18" Boiler Feed Line 8, Support HBF-4			X
F-3	12 & 8" Auxiliary Coolant Line 9, Supports ACH-105, ACH-106, ACH-216, SR-53, SR-56, SR-57, SR-58 & SR-59			X
F-3	14" RHR Suction Line 10, Supports ACH-71, ACH-101, ACH-103, ACH-225A, ACH-226A, SR-62 & SR-63			X
F-3	2" Seal Injection Line 42, Support ACH-578			X
F-3	2" Seal Injection Line 43, Supports ACH-514, ACH-515, ACH-517, SR-1020A, SR-1021, SR-1024 & SR-1026			X
F-3	2" Seal Injection Line 44, Supports ACH-555, ACH-556, ACH-557, SR-1072, SR-1072, SR-1073			X
F-3	2" Seal Injection Line 56, Supports 56-H-12, 56-H-13 & 56-H-14			X
F-3	14" Safety Injection Line 57, Support SR-64			X
F-3	8" Safety Injection Line 60, Support SIH-155A			X
F-3	3" Pressurizer Spray Line 61, Supports RCH-66 & SR-884A			X
F-3	14" Pressurizer Surge Line 63, Support RCH-76			X
F-3	2" Auxiliary Spray Line 64, Supports 64-H-2, 64-H-3, 64-H-4, 64-SR-6, 64-SR-7, 64-SR-8, 64-SR-10, 64-SR-12, & 64-SR-400			X
F-3	3" Pressurizer Relief Line 70, Supports 70-SR-10, 70-SR-13 & RCH-52			X
F-3	12" Safety Injection Line 155, Support SR-50			X
F-3	10" Accumulator Discharge Line 350, Support SIH-185			X
F-3	10" Accumulator Discharge Line 352, Support PWR-152			X
F-3	10" Accumulator Discharge Line 353, Support PWR-146, SIH-205 & SIH-206			X
F-3	6" RHR Return Line 361, Supports SIH-194, SIH-197, SIH-199, SR-729, SR-730, SR-731, SR-732 & SR-732A			X

ATTACHMENT I

TABLE 2

SUMMARY OF REPORTED INDICATIONS
QUALITY GROUP A & B

IWB-2500 REFERENCE	EXAMINATION, INDICATION & DISPOSITION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
ISI INDICATIONS - QUALITY GROUP A				
B6.180	Main Flange Studs, examined in place, 8 of 24 had corrosion, evaluated and accepted. To be reexamined during the 1995 Refueling Outage. Component, RCP-23			X
B7.70	Valve Bolting had light corrosion, evaluated and accepted, component, 10-730			X
B10.10	Two (2) welded attachments, had linear indications, they were reduced in size by mechanical methods to within the limits of the acceptance criteria. Components; 63-A and 63-B.		X	
ISI INDICATIONS - QUALITY GROUP A - SUPPORTS				
IWF-2500 REFERENCE	EXAMINATION, INDICATION & DISPOSITION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
F2 F3	Nineteen (19) supports had loose bolting, locknuts and/or deficient non-structural retainer pins These were evaluated, corrected, reexamined and accepted. Components, PWR-123, 64-H-5 and 64-SR-10. Components, SR-1020A, SR-1021, SR-1024, ACH-556, SR-1072, SR-1073, 56-SR-13, 64-SR-7, 64-SR-8, 64-SR-25, 70-SR-10, 70-SR-13, PWR-151, PWR-152, SIH-205 and SR-732A.			 X X
F3	Five (5) supports had misalignment, bent rods, or corrosion. They were corrected, reexamined and accepted. Components, ACH-517, ACH-557, SIH-197, SIH-199 and SR-729.			X
F2 F3	Three (3) supports had low settings, damaged grout or worn, loose, incomplete thread engagement of bolts. Items were corrected, reexamined and accepted. Component; RCH-78. Component; RCH-76, 64-H-2.			 X X
F2 F3	Two (2) supports had bolting with less than full thread engagement, one was accepted based on previous evaluation and the other was corrected, reexamined and accepted. Component; PWR-120 Component; SIH-219			 X X
F2	One (1) support was missing a clevis, it was replaced, reexamined and accepted. Component; 16-H-10.			X

IWB-2500 REFERENCE	EXAMINATION, INDICATION & DISPOSITION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
	ISI INDICATIONS - QUALITY GROUP B			
F2 F3	Sixteen (16) supports had loose bolting and boron crystals or foreign object or misalignment. The items were corrected, reexamined and accepted. Components; PR-1, SR-750 and SR-751. Components; MS-361, MS-362, MS-372, HBF-4, HBF-14, SR-56, SR-57, SR-58, ACH-215, ACH-71, SR-62, SR-63, and SR-64.			X X
F2	Three (3) supports had cotter pins that were not spread. They were corrected, reexamined and accepted. Component; PR-10, PR-11 and PR-24.			X
F2 F3	Two (2) supports had loose rod or missing nut. These conditions were accepted previously. Component; PR-3 Component; SIH-155A			X X
F3	One (1) support had bolting with less than full thread engagement, corrected, reexamined and accepted. Component; MS-355			X
F3	One (1) support had a damaged scale. Reexamined, evaluated and accepted. Component; MS-374			X
F3	One (1) support was corroded. It was corrected, reexamined and accepted. Component; SR-59			X
F2	One (1) support was not flush on wall. It was corrected, reexamined and accepted. Component; HBF-15			X
F3	One (1) support had damaged grout. It was corrected, reexamined and accepted. Component; SR-50			X
F2	One (1) support had missing set screws. It was corrected, reexamined and accepted. Component; PR-4			X

ATTACHMENT II

Summary of Inservice Inspection Hydrostatic and Pressure Tests Performed on Quality Group A and B (ASME Class 1 and 2) Pressure Retaining Components

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

CONSOLIDATED EDISON COMPANY OF NEW YORK
INDIAN POINT UNIT #2 NUCLEAR POWER PLANT
FIRST OUTAGE, THIRD PERIOD, SECOND INTERVAL
HYDROSTATIC AND PRESSURE TEST SUMMARY 1993

An Inservice Hydrostatic or System Pressure Test of Quality Group A and B systems and components was conducted at the Indian Point Unit 2 Nuclear Power Plant during the eleventh refueling outage from February 1993 to April 1993. This testing was part of the third period of the second ten year interval.

The program utilized visual testing methods in accordance with the requirements of:

A) ASME Section XI 1980 with addenda through winter 1981.
B) Plant Technical Specifications, and
C) Con Edison Ten Year Inservice Inspection and Testing Program (9/30/85) including relief requests.

The areas tested and reported indications are summarized in Tables 1 and 2 of this Attachment.

The test of the Quality Group "A" pressure retaining components identified 14 indications.

- Eleven (11) Indications involved slight valve packing leakage. Eight (8) were repaired and three (3) indications, consisting of very minor leakage, were accepted for start-up and remain to be repaired during the 1995 refueling outage.
- Three (3) indications involving slight flange or fitting leakage were repaired.

The examinations of the Quality Group "B" pressure retaining components identified 14 indications.

- Seven (7) indications involving slight valve packing leakage were either repaired or evaluated as acceptable.
- Seven (7) indications involved slight fitting leakage. Six (6) were repaired and one indication, consisting of very minor leakage, was accepted for start-up and remains to be repaired during the 1995 refueling outage.

ATTACHMENT II

TABLE 1

AREAS TESTED

All items listed on the attached Inservice Pressure Test Master Data Sheets were examined, as indicated, in accordance with the requirements of the Con Edison Inservice Inspection and Testing Program, the requirements of Section XI 1980 Edition of the ASME Boiler and Pressure Vessel Code up to and including Winter 1981 Addenda, Plant Technical Specifications and Relief Requests submitted to the NRC.

LEGEND:

The data list consists of 6 columns which provide information for each line or component tested in the program.

1. Boundary Code - The boundary code is via System Identifiers where the System Identifiers are listed below.

   E - Steam Generating Systems
   I - Hydrogen Recombiner Systems
   K - Safety Injection Systems
   M - Chemical and Volume Control Systems
   V - Reactor Coolant System

   Where there is more than one test per system, the identifier is individualized numerically (C.01, C.02, Etc.)

2. Test Number - The procedure used to perform the inspection.

3. Line Number - The Line number to be tested. Marked N/A for small lines and components.

4. Drawing Number - Applicable drawing number for the line. The listed drawing may not contain the entire line or may be the Main System Drawing. In such cases, the listed drawing will contain further drawing references to be investigated. All drawing numbers are preceeded by 9321-F- .

5. Tested From - One boundary for the line tested. Where components are tested, the component is in parentheses.

6. Tested To - The other boundary for the line tested.

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
E.01	3Y2	1520	2019	BFD-62-2	BFD-41
E.01	3Y2	1521	2019	BFD-62-3	BFD-43
E.02	3Y3	1514	2019	BFD-62-1	BFD-36
E.02	3Y3	1515	2019	BFD-62	BFD-38
E.03	3Y4	1516	2019	BFD-48-4	BFD-48-5
E.03	3Y4	1517	2019	BFD-48-6	BFD-38-7
E.03	3Y4	1518	2019	BFD-48-2	BFD-48-3
E.03	3Y4	1519	2019	BFD-48	BFD-48-1
E.04	R74A	1	2017	VC WALL	MS-2B
E.04	R74A	2	2017	VC WALL	MS-2A
E.04	R74A	3	2017	VC WALL	MS-2C
E.04	R74A	4	2017	VC WALL	MS-2D
E.04	R74B	5	2019	S/G 22	VC WALL
E.04	R74A	5	2019	VC WALL	BFD-6-1
E.04	R74A	6	2019	VC WALL	BFD-6
E.04	R74B	6	2019	S/G 21	VC WALL
E.04	R74A	7	2019	VC WALL	BFD-6-2
E.04	R74B	7	2019	S/G 23	VC WALL
E.04	R74B	8	2019	S/G 24	VC WALL
E.04	R74A	8	2019	VC WALL	BFD-6-3
E.04	R74B	45	2019	VC WALL	S/G 22
E.04	R74A	45	2019	VC WALL	PCV-1215A
E.04	R74A	46	2019	VC WALL	PCV-1214A
E.04	R74B	46	2729	VC WALL	S/G 21
E.04	R74B	47	2729	VC WALL	S/G 23
E.04	R74B	47	2729	VC WALL	PCV-1216A
E.04	R74A	48	2729	VC WALL	PCV-1217A
E.04	R74B	48	2729	VC WALL	S/G 24
E.04	R74B	N/A	2017	(S/G 24)	N/A
E.04	R74B	N/A	2017	(S/G 22)	N/A
E.04	R74B	N/A	2017	(S/G 23)	N/A
E.04	R74B	N/A	2017	(S/G 21)	N/A
E.04	R74A	1514	2017	LINE 1518	BFD-36

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
E.04	R74A	1515	2017	LINE 1519	BFD-38
E.04	R74A	1516	2017	BFD-48-5	LINE 7
E.04	R74A	1517	2017	LINE 8	BFD-48-7
E.04	R74A	1518	2017	LINE 5	BFD-48-3
E.04	R74A	1519	2017	BFD-48-1	LINE 6
E04	R74A	15220	2017	BFD-41	LINE 1516
E.04	R74A	1521	2017	LINE 1517	BFD-43
I.01	3Y11	N/A	2727	(H2 STAND #22)	N/A
I.01	3Y11	N/A	2727	(H2 STAND #21)	N/A
I.01	3Y11	573	2727	H2 STAND #22	VC WALL
I.01	3Y11	574	2727	H2 STAND #22	VC WALL
I.01	3Y11	575	2727	H2 STAND #21	VC WALL
I.01	3Y11	576	2727	H2 STAND #21	VC WALL
I.01	3Y11	588	2727	1881A AND PCV-94	H2 STAND #21
I.01	3Y11	602	2727	H2 STAND #21	H2 STAND #22
I.01	3Y11	603	2727	H2 STAND #22	H2 STAND #21
I.02	3Y11	N/A	2727	(02 STAND #21)	N/A
I.02	3Y11	571	2727	LINES 600 & 601	1882A
I.02	3Y11	589	2727	VALVE 940B	02 STAND #21
I.02	3Y11	600	2727	02 STAND #21	LINE 571
I.02	3Y11	601	2727	02 STAND #21	LINE 571

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
K.03	3Y25	51	2735	CSP 21	866A & 866B
K.03	3Y25	N/A	2735	(CSP 21)	N/A
K.03	3Y25	181	2735	CSP 21	865A
K.03	3Y25	183	2735	LINE 51	LINE 181
K.03	3Y25	187	2735	LINE 183	1839A
K.04	3Y25	15	2735	CSP 22	866C & 866D
K.04	3Y25	N/A	2735	(CSP 22)	N/A
K.04	3Y25	181	2735	CSP 22	865B
K.04	3Y25	183	2735	LINE 15	LINE 579
K.04	3Y25	579	2735	LINE 579	1839B
K.05	3Y26	51	2735	869A	866A & 866B
K.05	3Y26	164	2735	LINE 51	878A
K.06	3Y26	15	2735	869B	866C & 866D
K.07	PT-3Y8	51	2735	(SPRAY RING)	N/A
K.07	PT-3Y8	94	2735	(SPRAY RING)	N/A
K.07	PT-3Y6	475	2735	(FCU'S)	N/A
K.08	PT-3Y8	15	2735	(SPRAY RING)	N/A
K.08	PT-3Y8	93	2735	(SPRAY RING)	N/A
K.08	PT-3Y6	475	2735	(FCU'S)	N/A

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
K.11	3Y40	56	2735	850A & 850B	SI PUMP 21
K.11	3Y40	60	2735	848A	SI PUMP 21
K.11	3Y40	N/A	2735	(SI PUMP 21)	N/A
K.11	3Y40	161	2735	1807A	SI PUMP 21
K.11	3Y40	467	2735	1843A	SI PUMP 21
K.12	3Y40	16	2735	851B & 851A	SI PUMP 22
K.12	3Y40	60	2735	887B	SI PUMP 22
K.12	3Y40	N/A	2735	(SI PUMP 22)	N/A
K.12	3Y40	161	2735	1807B	SI PUMP 22
K.12	3Y40	467	2735	1843B	SI PUMP 22
K.12	3Y40	518	2735	898	SI PUMP 22
K.13	3Y40	16	2735	LINE 16	SI PUMP 23
K.13	3Y40	60	2735	SI PUMP 23	848B
K.13	3Y40	N/A	2735	(SI PUMP 23)	N/A
K.13	3Y40	161	2735	LINE 16	1087C
K.13	3Y40	467	2735	SI PUMP 23	1043C
K.15	3Y41	16	2735	VC WALL	856C, D, F
K.15	3Y41	16	2735	VC WALL	856C, D, F
K.15	3Y41	16	2735	VC WALL	850A, 850B
K.15	3Y41	16	2735	851B, 850B	VC WALL
K.15	3Y41	31	2735	LINES 16 & 56	839A-H, 859C
K.15	3Y41	31	2735	LINES 16 & 56	839A-H, 859C
K.15	3Y41	56	2735	VC WALL	856A, B, E
K.15	3Y41	56	2735	VC WALL	856A, B, E
K.15	3Y41	56	2735	VC WALL	851A, 851B
K.15	3Y41	56	2735	851A & 850A	VC WALL
K.15	3Y41	362	2735	LINE 16	890A, B, C, D
K.15	3Y41	362	2735	LINE 16	890A, B, C, D
K.17	R27A	57	2735	1805	885B
K.18	R12	9	2735	RHR PUMPS 21 & 22	774
K.18	R12	10	2735	731	VC WALL
K.18	R12	10	2735	VC WALL	RHR PUMPS 21 & 22
K.18	R12	29	2735	LINE 361	HCV-133
K.18	R12	57	2735	885B	LINE 10
K.18	R12	60	2735	LINE 361	VC WALL

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
K.18	R12	60	2735	VC WALL	888A & 888B
K.18	R12	93	2735	LINE 361	889A
K.18	R12	94	2735	LINE 361	889B
K.18	R12	N/A	2735	(RHR HX 21)	N/A
K.18	R12	N/A	2735	(RHR HX 22)	N/A
K.18	R12	N/A	2735	LINE 60	LINE 10
K.18	R12	155	2735	882	LINE 10
K.18	R12	190	2735	LINE 9	883
K.18	R12	293	2735	LINE 9	1802A & 1802B
K.18	R12	294	2735	TEST LINE	990C
K.18	R12	361	2735	RHR HX 21	747
K.18	R12	361	2735	RHR HX 22	746
K.19	3Y28	N/A	2735	(RECIRC PUMP 21)	N/A
K.19	3Y28	N/A	2735	(RECIRC PUMP 22)	N/A
K.19	3Y28	293	2735	RECIRC PMP 21 & 22	1802A & 1802B
K.19	3Y28	595	2735	993	LINE 293
M.05.2	3Y37	27	2736	NON-REGEN HX	200A, B, & C
M.05.2	3Y37	27	2736	NON-REGEN HX	206
M.05.2	3Y37	29	2736	LINE 27	4055 & 4056
M.05.2	3Y37	99	2736	206	NON-REGEN HX
M.05.2	3Y37	N/A	2736	(NON REGEN HX)	N/A
M.06	3Y37	40	2736	1100	LINE 300
M.06	3Y37	100	2736	LINE 116	1248
M.06	3Y37	104	2736	1155	LINE 300
M.06	3Y37	116	2736	LINE 120	LINE 40
M.06	3Y37	120	2736	TCV-149	357 & 1289
M.06	3Y37	120	2736	LINE 120	391, 389, 344, 349
M.06	3Y37	120	2736	LINE 120	323A & 343A
M.06	3Y37	140	2736	LINE 140	311B & 340B
M.06	3Y37	140	2736	TCV-149	346 & 352
M.06	3Y37	140	2736	TCV-135	TCV-149
M.06	3Y37	141	2736	LINE 120	4053
M.06	3Y37	170	2736	LINE 120	FCV-111B
M.06	3Y37	276	2736	LINE 140	397B
M.06	3Y37	276	2736	LINE 140	397A

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
M.06	3Y37	283	2736	LINE 120	398B
M.06	3Y37	283	2736	LINE 120	398A
M.06	3Y37	295	2736	LINE 120	974A
M.06	3Y37	296	2736	LINE 140	974B
M.06	3Y37	300	2736	FE-3000	1104,1119,1120
M.06	3Y37	345	2736	LINE 170	1299C
M.06	3Y37	614	2736	LINE 116	CAP
V3	R75	10	2738	LOOP 22	730
V3	R75	16	2738	856F	LOOP 21
V3	R75	16	2738	856D	LINE 352
V3	R75	16	2738	856C	LINE 350
V3	R75	17	2738	RCP 23 SEAL	244C
V3	R75	17	2738	RCP 21 SEAL	244A
V3	R75	17	2738	RCP 22 SEAL	244B
V3	R75	17	2738	RCP 24 SEAL	244D
V3	R75	19	2738	REGEN HX	205
V3	R75	25	2738	956B	LINE 70
V3	R75	26	2738	956D	PRESSURIZER
V3	R75	27	2738	REGEN HX	200A,200B,200C
V3	R75	31	2738	839E	LINE 353
V3	R75	31	2738	839C	LINE 352
V3	R75	31	2738	839D	LINE 352
V3	R75	31	2738	839B	LINE 351
V3	R75	31	2738	839H	LINE 350
V3	R75	31	2738	839A	LINE 351
V3	R75	31	2738	839F	LINE 353
V3	R75	31	2738	839G	LINE 350
V3	R75	41	2738	VC WALL	RCP 21
V3	R75	41	2738	250A	VC WALL
V3	R75	42	2738	VC WALL	RCP 22
V3	R75	42	2738	250B	VC WALL
V3	R75	43	2738	250C	VC WALL
V3	R75	43	2738	VC WALL	RCP 23
V3	R75	44	2738	VC WALL	RCP 24
V3	R75	44	2738	250D	VC WALL

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
V3	R75	56	2738	856A	LINE 351
V3	R75	56	2738	856E	LOOP 23
V3	R75	59	2738	LOOP 21	955A
V3	R75	59	2738	955B	LOOP 23
V3	R75	59	2738	956F	955A & 955B
V3	R75	61	2738	LOOP 23	PRESSURIZER
V3	R75	62	2738	LINE 61	LOOP 24
V3	R75	63	2738	LOOP 24	PRESSURIZER
V3	R75	64	2738	LINE 80	LINE 61
V3	R75	70	2738	PCV-456 AND PCV-455C	PRESSURIZER
V3	R75	75	2738	RCP 21 SEAL	246
V3	R75	76	2738	RCP 23 SEAL	LINE 75
V3	R75	77	2738	RCP 22 SEAL	LINE 78
V3	R75	78	2738	RCP 24 SEAL	LINE 75
V3	R75	79	2738	REGEN HX	LOOP 21
V3	R75	80	2738	REGEN HX	LOOP 22
V3	R75	81	2738	LINE 79	508B
V3	R75	82	2738	LOOP 22	505B
V3	R75	83	2738	511B	LOOP 23
V3	R75	84	2738	515B	LOOP 24
V3	R75	96	2738	LINE 80	LOOP 21
V3	R75	97	2738	LOOP 21	HCV-123
V3	R75	N/A	2738	(S/G 21)	N/A
V3	R75	N/A	2738	(S/G 22)	N/A
V3	R75	N/A	2738	(RCP 22)	N/A
V3	R75	N/A	2738	(PRESSURIZER)	N/A
V3	R75	N/A	2738	(S/G 23)	N/A
V3	R75	N/A	2738	(RVLIS HEAD)	N/A
V3	R75	N/A	2738	(RCP 23 SEAL)	N/A
V3	R75	N/A	2738	(RCP 24)	N/A
V3	R75	N/A	2738	(REGEN HX)	N/A
V3	R75	N/A	2738	(RCP 21)	N/A
V3	R75	N/A	2738	(INCORE INST)	N/A
V3	R75	N/A	2738	(EXC LETDN HX)	N/A
V3	R75	N/A	2738	(RCP 24 SEAL)	N/A

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
V3	R75	N/A	2738	(S/G 24)	N/A
V3	R75	N/A	2738	(RCP 23)	N/A
V3	R75	N/A	2738	(RCP 22 SEAL)	N/A
V3	R75	N/A	2738	(REACTOR VESSEL)	N/A
V3	R75	N/A	2738	(RCP 21 SEAL)	N/A
V3	R75	N/A	2738	(REACTOR HEAD)	N/A
V3	R75	21	2738	OUTLET S/G 21	INLET RCP 21
V3	R75	21	2738	REACTOR NOZZLE	NOZZLE S/G 21
V3	R75	21	2738	REACTOR NOZZLE	OUTLET RCP 21
V3	R75	22	2738	REACTOR NOZZLE	OUTLET RCP 22
V3	R75	22	2738	REACTOR NOZZLE	NOZZLE S/G 22
V3	R75	22	2738	OUTLET S/G 22	INLET RCP 22
V3	R75	23	2738	OUTLET S/G 23	INLET RCP 23
V3	R75	23	2738	REACTOR NOZZLE	NOZZLE S/G 23
V3	R75	23	2738	REACTOR NOZZLE	OULET RCP 23
V3	R75	24	2738	OUTLET S/G 24	INLET RCP 24
V3	R75	24	2738	REACTOR NOZZLE	NOZZLE S/G 24
V3	R75	24	2738	REACTOR NOZZLE	OUTLET RCP 24
V3	R75	342	2738	PCV-464	PRESSURIZER
V3	R75	343	2738	PCV-466	PRESSURIZER
V3	R75	344	2738	PCV-468	PRESSURIZER
V3	R75	350	2738	894D	LOOP 24
V3	R75	351	2738	894A	LOOP 21
V3	R75	352	2738	LOOP 22	894B
V3	R75	353	2738	894C	LOOP 23
V3	R75	355	2738	LINE 361	LINE 351
V3	R75	356	2738	LINE 361	LINE 352
V3	R75	358	2738	LINE 361	LINE 353
V3	R75	361	2738	746, 747	LINE 350
V3	R75	445	2738	LINE 81	541
V3	R75	474	2738	PT-458	580B
V3	R75	486	2738	RCP 21	PT-147
V3	R75	487	2738	RCP 21	PT-147
V3	R75	488	2738	RCP 22	PT-145
V3	R75	489	2738	RCP 22	PT-145

BOUND	TEST	LINE	DRAWING	TESTED FROM	TESTED TO
V3	R75	490	2738	RCP 23	PT-131
V3	R75	491	2738	RCP 23	PT-131
V3	R75	492	2738	RCP 24	PT-124
V3	R75	493	2738	RCP 24	PT-124
V3	R75	522	2738	LINE 527	4143
V3	R75	527	2738	RV HEAD	HCV-3101

ATTACHMENT II

TABLE 2

SUMMARY OF REPORTED INDICATIONS

QUALITY GROUP "A" AND "B" PRESSURE RETAINING COMPONENTS

QUALITY GROUP "A" PRESSURE RETAINING COMPONENTS

LEAKAGE TYPE	NUMBER FOUND	NUMBER REPAIRED	NUMBER DEFERRED
Fittings and Flanges	3	3	0
Valve Packing Leakage	11	8	3
Total Items by Status	14	11	3

QUALITY GROUP "B" PRESSURE RETAINING COMPONENTS

LEAKAGE TYPE	NUMBER FOUND	NUMBER REPAIRED	NUMBER DEFERRED
Fittings	7	6	1
Valve Packing Leakage	7	7	0
Total Items by Status	14	13	1

ATTACHMENT III

Owners Data Report for Inservice Inspections

Form NIS-1

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

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

1. OWNER - CONSOLIDATED EDISON COMPANY OF NEW YORK, 4 IRVING PLACE, NEW YORK, NEW YORK 10003

2. PLANT - INDIAN POINT, BROADWAY AND BLEAKLEY, BUCHANAN, NEW YORK 10511

3. PLANT UNIT - NO. 2

4. OWNER CERTIFICATE OF AUTHORIZATION - N/A

5. COMMERCIAL SERVICE DATE - JULY 1, 1974

6. NATIONAL BOARD NUMBER FOR UNIT - N/A

7. COMPONENTS INSPECTED -

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
Reactor Vessel	Combustion Eng.	65201	--	20756
Pressurizer	Westinghouse	33-460-1	--	6640
Steam Generator 21	Westinghouse	16A5780-1	--	732
Steam Generator 22	Westinghouse	16A5780-2	--	734
Steam Generator 23	Westinghouse	16A5780-3	--	736
Steam Generator 24	Westinghouse	16A5780-4	--	738
Regenerative Heat Exchanger	Sentry Equipment	--	--	--
Class 1 and 2 Piping	United Eng. and Constructors	--	--	--

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

1. OWNER - CONSOLIDATED EDISON COMPANY OF NEW YORK, 4 IRVING PLACE, NEW YORK,NEW YORK 10003

2. PLANT - INDIAN POINT, BROADWAY AND BLEAKLEY, BUCHANAN, NEW YORK 10511

3. PLANT UNIT - NO.2

4. OWNER CERTIFICATE OF AUTHORIZATION - N/A

5. COMMERCIAL SERVICE DATE - JULY 1,1974

6. NATIONAL BOARD NUMBER FOR UNIT - N/A

7. COMPONENTS INSPECTED -

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
Reactor Coolant Pump 22	Westinghouse	RCPCPI-02	--	--
Reactor Coolant Pump 23	Westinghouse	RCPCPI-03	--	--
Reactor Coolant Pump 24	Westinghouse	RCPCPI-04	--	--
Reactor Coolant Filter	Commercial Filters	984	--	716
Seal Water Injection Filter 22	Commercial Filters	--	--	--

FORM NIS-1 (back)

8. Examination Dates 2-3-93 to 4-15-93

9. Inspection Interval from 7-1-84 to 6-30-94

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 June 30, 1993 19 93 Signed Consolidated Edison
By P.E. Dealy Owner

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

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of -- NEW YORK and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected the components described in this Owners' Data Report during the period 2-3-93 to 4-15-93, 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 requiremnets 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 personnel injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-30 19 93

[signature] Commissions NB 10011 I, N.
Inspector's Signature National Board, State, Province and No.