Stephen B. Bram
Vice President

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October 4, 1991

Re: Indian Point Unit No. 2
Docket No. 50-247

Document Control Desk
US Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

SUBJECT: 1991 Refueling Outage Inservice Inspection and Inservice Test Programs Summary Report

Inservice inspections and tests of primary-side and secondary-side components, piping, reactor vessel and steam generators were performed during the 1991 refueling outage pursuant to Indian Point Unit No. 2's ISI and IST programs, and pursuant to Section 4.2 of the Technical Specifications. These inspections and tests are for the Second Period of the Second Interval.

A summary of the work performed, and the areas subject to examination and test, is provided in Attachments I and II. The detailed data is available on-site for review. Form NIS-1 entitled "Owners Data Report for Inservice Inspections" is also contained in Attachment III.

Should you have any questions regarding this matter, please contact Mr. Charles W. Jackson, Manager, Nuclear Safety and Licensing.

Very truly yours,

Attachments

9110150391 911004
PDR ADOCK 05000247
Q PDR

A047 1/1

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Attachment 1

Summary of Inservice Inspections Performed on
Class 1 and 2 Components and Piping
During the 1991 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 NO. 2 NUCLEAR POWER PLANT
2ND OUTAGE; 2ND PERIOD; 2ND INTERVAL
EXAMINATION SUMMARY 1991

INTRODUCTION

An Inservice Examination Program was performed for the Indian Point Unit No. 2 Nuclear Power Plant on December 13, 1990 and from February 14, 1991 thru July 3, 1991 by Westinghouse Electric Corporation-Nuclear Services Division-Inspection Services.

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 Edition up to and including Winter 1981 Addenda.

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

4. Westinghouse WCAP 12191 Transient and Fatigue Cycle Monitoring Program Transient History Evaluation Final Report for Consolidated Edison Company Indian Point Unit No. 2.

5. Volumetric examination of Class 2 RHR Piping per Indian Point Unit No. 2 commitment to United States Nuclear Regulatory Commission.

The following items were examined:

1. Reactor Vessel

2. Pressurizer

3. Steam Generators 21, 22, 23 and 24

4. Regenerative Heat Exchanger

5. Class 1 and Class 2 Piping and Supports

6. Class 1 and Class 2 Component Supports

7. Reactor Coolant Pumps 22, 23 and 24

8. Class 1 Valves

9. Reactor Coolant Filter

10. Seal Water Injection Filter 22

11. Preservice Examination on Class 2 Feedwater Piping

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 Hartford Steam Boiler Inspection and Insurance Company and Consolidated Edison Company of New York Quality Assurance Department.

Examinations resulted in the following recordable indications being noted on the basis of Procedure Recording Criteria, which generally are more critical than specified 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. Four (4) Class 1 and Class 2 Integrally Welded pipe supports.

Surface indications were evaluated by Consolidated Edison Company of New York Engineering Department, repaired and reexamined by Consolidated Edison Company of New York Quality Assurance Department and Westinghouse Nuclear Services Division - Inspection Services.

2. Visual recordable indications were recorded on the following:

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

   B. Twelve (12) Class 1 and Class 2 Piping Supports.

   C. One (1) Reactor Vessel Internals.

   D. One (1) Seal Water Injection Filter 22 Support.

   E. Two (2) Class 1 Valves.

Visual indications were evaluated by Consolidated Edison Company of New York Engineering Department and either accepted as is or repaired and reexamined by Consolidated Edison Company of New York Quality Assurance Department and Westinghouse Nuclear Services Division-Inspection Services.

Specific data relative to the above indications and their dispositions are located in Table #2.

Attachment #1

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 requirements of 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 the access provided and the limitations of component geometry.

IWB-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
	Reactor Vessel			
B6.10	Closure Head Nuts RFN-15 thru RFN-28		X	
B6.30	Closure Head Replacement Studs - RFS-17, RFS-23, RFS-26, RFS-44, RFS-15R, RFS-16R, RFS-17R, RFS-18R, RFS-20R, RFS-22R, RFS-23R, RFS-24R, RFS-26R and RFS-27R	X	X	
B6.50	Closure Head Washers - RFW-15 thru RFW-28			X
B13.10	Reactor Vessel Internals			X
	Pressurizer			
B5.40	4" Pressurizer Safety Line 70, PZRS-2	X	X	
B5.40	4" Pressurizer Safety Line 343, PZRS-4	X	X	
B5.40	4" Pressurizer Safety Line 344, PZRS-5	X	X	
B7.20	Manway Studs and Nuts - PZR-MWB-5, PZR-MWB-6, PZR-MWB-7 and PZR-MWB-8			X
	Steam Generator 21			
B2.40	Channel Head to Tubesheet Weld 21-8 355" clockwise to 406" and 0" clockwise to 80" from 0 Reference (Centerline of Hotleg Manway)	X		

IWB-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
	Steam Generator 22			
B5.70	Nozzle to Safe End Butt Weld SGS-22-4 and SGS-22-5	X	X	
	Regenerative Heat Exchanger			
B2.51	Circumferential Head Weld RGXC-2-4	X		
B3.150	Nozzle to Vessel Weld RGXN-2-4		X (6)	
B3.160	Nozzle Inside Radius Section RGXN-2-4			(2)
	Pressure Retaining Bolting			
B7.50	4" Pressurizer Safety Line 343, F1-8 Studs and 16 Nuts			X
B7.50	4" Pressurizer Safety Line 344, F1-8 Studs and 16 Nuts			X
	Circumferential Pipe Welds			
B9.11	Loop 22 Reactor Coolant Pipe - RCC-22-2, RCC-22-8 and RCC-22-9	X	X	
B9.11	14" RHR Take Off Line 10, 10-17 and 10-18	X	X	
B9.11	10" Accumulator Discharge Line 353, 353-2, 353-3, 353-8 and 353-9	X	X	
B9.11	4" Pressurizer Spray Line 61, 61-2 and 61-3	X	X	
B9.11	4" Pressurizer Safety Line 344, 344-1, 344-2	X	X	
	Longitudinal Pipe Welds			
B9.12	Loop 22 Reactor Coolant Pipe RCL-22-1, RCL-22-2, RCL-22-3 and RCL-22-4	(1)	X	
	Circumferential Pipe Welds			
B9.21	Regenerative Heat Exchanger RGXP-2-4		X	
B9.21	3" Letdown Line 19, 19-9		X	

IWB-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
	Circumferential Pipe Welds			
B9.21	3" Pressurizer Spray Line 61, 61-21, 61-22, 61-23 and 61-24		X	
B9.21	3" Letdown Line 79, 79-11 and 79-12		X	
B9.21	3" Charging Line 80, 80-2	X (5)	X (5)	
B9.21	3" Charging Line 96, 96-2	X (5)	X (5)	
B9.21	3" Charging Line 96, 96-5	X (5)	X	
B9.21	2" Letdown Line 27, 27-17		X	
	Branch Pipe Connections			
B9.31	10" Accumulator Discharge Line 353, 353-1	X	X	
B9.32	3" Pressurizer Spray Line 61, 61-37		X	
B9.32	3" Charging Line 80, 80-1	X (5)	X (5)	
B9.32	3" Charging Line 96, 96-1	X (5)	X (5)	
	Socket Welds			
B9.40	2" Letdown Line 27, 27-18		X	
B9.40	2" and 1 1/2" Seal Injection Line 41, 41-1, 41-2, 41-3, 41-4 and 41-6		X	
B9.40	2" Seal Injection Line 42, 42-6, 42-7, 42-8, 42-9 and 42-10		X	
	Integrally Welded Attachments			
B10.10	10" Accumulator Discharge Line 350, 350-A		X	
B10.10	10" Accumulator Discharge Line 353, 353-A		X	

IWB-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
	Reactor Coolant Pump 22			
B10.20	Integrally Welded Attachments RCP-22-ISW-A, RCP-22-ISW-B and RCP-22-1-ISWC		X	
	Reactor Coolant Pump 23			
B6.180	Main Flange Studs RCP-23-1 thru RCP-23-24	X		
B6.200	Main Flange Studs and Nuts RCP-23-1 thru RCP-23-24			X
	Reactor Coolant Pump 24			
B7.60	No. 1 Seal Housing Bolts PSB-24-1 thru PSB-24-18			X
--	Reactor Coolant Pump 24 Flywheel	X		
—	Reactor Coolant Pump - Spare Flywheel (4)	X	X	
	Valves			
B7.70	10" - 895A - 16 Studs and 16 Nuts			X
B7.70	10" - 897A - 16 Studs and 16 Nuts			X
B7.70	3" - 535 - 16 Studs and 16 Nuts			X
B7.70	2" - 200B - 6 Studs and 6 Nuts			X
B7.70	2" - 200C - 6 Studs and 6 Nuts			X
B12.50	10" - 895A - Interior Surface			X
B12.50	10" - 897A - Interior Surface			X
IWC-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
	Steam Generator 21			
C1.10	Shell Circumferential Weld SGC-21-4 112" Clockwise to 246" from 0 Reference (Centerline of Feedwater Nozzle)	X		
C1.10	Shell Circumferential Weld SGC-21-6 0" Clockwise to 140" from 0 Reference (Centerline of Hotleg Manway)	X		

IWC-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
C1.30	Tubesheet to Shell Weld SGC-21-7 0" Clockwise to 136" from 0 Reference (Centerline of Hotleg Manway)	X		
C2.21	Feedwater Nozzle to Vessel Weld SGN-21-2	X	X	
	Reactor Coolant Filter			
C1.10	Shell Circumferential Weld RCFC-2 15" Clockwise to 30" from 0 Reference (2" Inlet Nozzle)	X		
C1.20	Head Circumferential Welds RCFC-1 and RCFC-3-15" Clockwise to 30" from 0 Reference (2" Inlet Nozzle)	X		
	Seal Water Injection Filter 22			
C1.10	Shell Circumferential Weld SIFC-22-1 13" Clockwise to 26" from 0 Reference (2" Inlet Nozzle)	X		
C1.10	Head Circumferential Weld SIFC-22-2 13" Clockwise to 26" from 0 Reference (2" Inlet Nozzle)	X		
	Integrally Welded Attachments			
C3.20	28" Mainstream Line 1, 1-L, 1-K and 1-M		X	
C3.20	28" Mainsteam Line 1, 1-R and 1-U		X	
C3.20	18" Boiler Feed Line 5, 5-A, 5-E, 5-G and 5-L		X	
C3.20	18" Boiler Feed Line 7, 7-A		X	
C3.20	12" RHR Line 9, 9-0		X	
	Circumferential Welds			
C5.11	12" RHR Line 9, 9-36	X (3)	X	
C5.11	8" RHR Return Line 361, 361-7		X	
C5.21	28" Mainsteam Line 1, 1-17 and 1-18	X	X	
C5.21	18" Boiler Feed Line 5, 5-1, 5-1.1, 5-2 and 5-4	X (7)	X (7)	
C5.21	18" Boiler Feed Line 6, 6-1, 6-1.1 and 6-2.2	X (7)	X (7)	

IWC-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
	Circumferential Welds			
C5.21	18" Boiler Feed Line 7, 7-1, 7-1.1 and 7-2	X (7)	X (7)	
C5.21	18" Boiler Feed Line 8, 8-1, 8-1.1 and 8-2	X (7)	X (7)	
	Longitudinal Welds			
C5.22	28" Mainsteam Line 1, 1-17.1 and 1-17.2	X	X	
	Branch Pipe Connections			
C5.31	12" Mainsteam Line 1, 1-21 and 1-36		X	
IWF-2500-1 REFERENCE	**AREA AND EXTENT OF EXAMINATION**	**EXAMINATION PROCEDURE**		
		VOL.	**SURF.**	**VIS.**
	Supports and Hangers			
F-2	Seal Water Injection Filter 22, 22-SIF-ISW-A, 22-SIF-ISW-B and 22-SIF-ISW-C			X
F-2	Steam Generator 21-95' Elevation Support Bolting			X
F-2	Steam Generator 22-95' Elevation Support Bolting			X
F-2	Steam Generator 23-95' Elevation Support Bolting			X
F-2	Steam Generator 24-95' Elevation Support Bolting			X
F-2	28" Mainsteam Line 1, HMS-6			X
F-2	28" Mainsteam Line 3, MSR-23			X
F-2	18" Boiler Feed Line 5, HBF-9, PR-4 and PR-5			X
F-2	18" Boiler Feed Line 7, BFDR-6			X
F-2	12" RHR Line 9, ACH-217			X
F-2	2" SIS Line 16, H23			X
F-2	3" Letdown Line 19, CH-100 and CH-108			X

IWF-2500-1 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE		
		VOL.	SURF.	VIS.
	Supports and Hangers			
F-3	2" Seal Injection Line 41, SR-952			X
F-2	2" Seal Injection Line 42, H-A and H-D			X
F-3	2" Seal Injection Line 42, H-K			X
F-3	2" Seal Injection Line 42, SR-1109			X
F-3	2" Seal Injection Line 43, H-A and H-G			X
F-3	14" SIS Line 57, SIH-58			X
F-2	28" Mainsteam Line 3 & 4 & 18" Boiler Feed Line 7 & 8, PR-1, PR-2 and PR-3			X
F-2	3" Pressurizer Spray Line 61, PWR-90, PWR-90A, PWR-91, PWR-91A, PWR-92, PWR-94, RCH-64, SR-882 and SR-883			X
F-3	3" Pressurizer Spray Line 61, RCH-62, RCH-63 and RCH-65			X
F-2	3" Pressurizer Spray Line 61, PWR-93			X
F-3	3" Pressurizer Spray Line 61, RCH-72			X
F-3	2" Auxiliary Spray Line 64, 64-SR-8 and SR-23			X
F-3	3" Letdown Line 79, CH-120 and CH-123			X
F-3	3" Charging Line 80, CH-132, SR-916 and SR-918			X
F-2	3" Charging Line 96, CH-137, CH-138, CH-139, PWR-84 and PWR-84A			X
F-3	10" Accumulator Discharge Line 353, SIH-206			X
F-3	6" RHR Return Line 361, SIH-195, SIH-196, SR-731 AND SR-732A			x

NOTES:

1. Volumetric examination of longitudinal welds is not required per Relief Request #27.

2. Visual VT-2 conducted per Relief Request #8 by plant personnel.

3. Volumetric examination per Indian Point Unit No. 2 Commitment to Nuclear Regulatory Commission dated April 8, 1988.

4. Performed at Cheswick, PA.

5. Performed per Westinghouse WCAP 12191 Transient and Fatigue Cycle Monitoring Program Transient History Evaluation Final Report for Consolidated Edison Company Indian Point Unit No. 2.

6. Surface examination performed due to nozzle configuration.

7. Preservice Examination following modification to nozzle thermal sleeve.

IWC-2500 REFERENCE	EXAMINATIONS, INDICATIONS & DISPOSITIONS		EXAMINATION PROCEDURE		
			VOL.	SURF.	VIS.
Quality Group A					
C3.20	5-A	Welded attachment, linear indications removed, reexamined and accepted.		X	
C3.20	5-G	Welded attachment, linear indications removed, reexamined and accepted		X	
IWF-2500 REFERENCE	**EXAMINATIONS, INDICATIONS & DISPOSITIONS**		**EXAMINATION PROCEDURE**		
			VOL.	**SURF.**	**VIS.**
Supports Quality Group A & B					
F2	22-SIF	Support, boron and light corrosion, reexamined after cleaning and accepted.			X
F2.	CH-100	Support not loaded, second failure, redesigned, reexamined and accepted.			X
F2.	CH-137	Support, broken u-bolt, second failure, redesigned, reexamined and accepted.			X
F2.	PR-1	Support, loose collar, reexamined after repair and accepted.			X
F2.	PWR-84	Support, heavy boron built-up, reexamined after removal and accepted.			X
F2.	PWR-84A	Support, heavy boron built-up, reexamined after removal and accepted.			X
F3.	CH-132	Support, bent hanger rod evaluated by Engineering and accepted.			X
F3.	RCH-62	Support, loose nut, reexamined after repair and accepted.			X
F3.	RCH-63	Support, loose nut, reexamined after repair and accepted.			X

Attachment #1

Table #2

Summary of Reported Indications

Quality Group A & B

IWB-2500 REFERENCE	EXAMINATIONS, INDICATIONS & DISPOSITIONS		EXAMINATION PROCEDURE		
			VOL.	SURF.	VIS.
Quality Group A					
B6.200	RCP-23	Main Flange studs, examined in place exhibited corrosion, cleaned and reexamined. 8 of 24 were evaluated by Engineering and accepted for use during the next operating cycle. To be reexamined in 1993 Refueling Outage.			X
B7.70	200C	Bolting, examined in place exhibited corrosion, replaced reexamined and accepted.			X
B7.70	897A	Bolting, examined disassembled, corroded and damaged threads, damaged studs were replaced and the others cleaned, reexamined and accepted.			X
B10.10	350-A	Welded attachment, linear and rounded indications removed, reexamined and accepted.		X	
B10.10	353-A	Welded attachment, linear and rounded indications removed, reexamined and accepted.		X	
B12.50	897A	Valve interior arc strike and gouge in seating surface, evaluated by Engineering and accepted.			X
B13.10	R-INT	Reactor Internals, foreign objects located on support, removed during FOSAR and accepted.			X

IWC-2500 REFERENCE	EXAMINATIONS, INDICATIONS & DISPOSITIONS		EXAMINATION PROCEDURE		
			VOL.	SURF.	VIS.
Quality Group A					
C3.20	5-A	Welded attachment, linear indications removed, reexamined and accepted.		X	
C3.20	5-G	Welded attachment, linear indications removed, reexamined and accepted		X	

IWF-2500 REFERENCE	EXAMINATIONS, INDICATIONS & DISPOSITIONS		EXAMINATION PROCEDURE		
			VOL.	SURF.	VIS.
Supports Quality Group A & B					
F2	22-SIF	Support, boron and light corrosion, reexamined after cleaning and accepted.			X
F2.	CH-100	Support not loaded, reexamined and accepted.			X
F2.	CH-137	Support, broken u-bolt, second failure, redesigned, reexamined and accepted.			X
F2.	PR-1	Support, loose collar, reexamined after repair and accepted.			X
F2.	PWR-84	Support, heavy boron built-up, reexamined after removal and accepted.			X
F2.	PWR-84A	Support, heavy boron built-up, reexamined after removal and accepted.			X
F3.	CH-132	Support, bent hanger rod evaluated by Engineering and accepted.			X
F3.	RCH-62	Support, loose nut, reexamined after repair and accepted.			X
F3.	RCH-63	Support, loose nut, reexamined after repair and accepted.			X
F3.	SIH-196	Support, boron on wall connector, reexamined after cleaning and accepted.			X

IWF-2500 REFERENCE	EXAMINATIONS, INDICATIONS & DISPOSITIONS		EXAMINATION PROCEDURE		
			VOL.	SURF.	VIS.
F3.	SR-1109	Support, loose nut, reexamined after repair and accepted.			X
F3.	SR-732A	Support, loose bolting and one bolt head sheared off, reexamined after repair and accepted.			X
F3.	64-SR-8	Support, corrosion and loose bolting on clamp, reexamined after repair and accepted.			X

ATTACHMENT II

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

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

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 tenth refueling outage from February 1991 to July 1991. This testing was part of the second 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 test results are summarized in Tables 3 and 4 of this atttachment.

The test of the Quality Group "A" pressure retaining components identified 3 indications.

- 2 indications involving valve packing leakage were repaired.

- 1 indication of leakage from a fitting on a transmitter instrument was repaired.

The examinations of the Quality Group "B" pressure retaining components identifed 25 indications.

- 15 indications involving leakage at valve packing and valve bonnets were repaired.

- 2 indications involving leakage at a flange gasket were repaired.

- 1 indication involving leakage at a screwed joint was repaired.

- 4 indications involving leakage at screwed joints or fittings were deferred for repair at appropriate plant conditions.

- 3 indications involving valve leak by were deferred for appropriate plant conditions for repair.

TABLE 3

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.

INSERVICE PRESSURE TEST DATA LIST

THE DATA LIST CONSISTS OF 13 COLUMNS WHICH PROVIDE INFORMATION FOR EACH LINE OR COMPONENT TESTED IN THE PROGRAM.

LEGEND:

1. PROCEDURE NUMBER - THE COMPLETE PROCEDURE IDENTIFICATION IS PT-10Y-(SYSTEM IDENTIFIER) WHERE THE SYSTEM IDENTIFIER IS LISTED BELOW.

   A - CITY WATER HEADER
   B - CITY WATER TO AUX. BOILER FEED PUMPS
   C - COND. TRANSFER AND AUX. BOILER FEED PUMPS
   D - CONDENSATE STORAGE TANK
   E - STEAM GENERATING SYSTEMS
   F - SERVICE WATER PUMPS
   G - SERVICE WATER SYSTEMS
   H - IA CLOSED COOLING WATER
   I - HYDROGEN RECOMBINER SYSTEMS
   J - GROSS FAILED ELEMENT DETECTOR
   K - SAFETY INJECTION SYSTEMS
   L - AUXILIARY COOLANT 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. LINE NUMBER - THE LINE NUMBER TO BE TESTED. MARKED N/A FOR SMALL LINES AND COMPONENTS.

3. QA GP - QUALITY GROUP OF THE PIPING.

4. ASME SEC - APPLICABLE ASME TEST CODE.

5. 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.

6. TESTED FROM - ONE BOUNDARY FOR THE LINE TESTED. WHERE COMPONENTS ARE TESTED, THE COMPONENT IS IN PARENTHESES.

7. TESTED TO - THE OTHER BOUNDARY FOR THE LINE TESTED.

8. MPP - TEST PRESSURE (MINIMUM PERMISSIBLE PRESSURE)

9. MAP - MAXIMUM ALLOWABLE PRESSURE

10. RV PSIG - SET POINT OF THE TEST RIG RELIEF VALVE (+0,-1%) TO PREVENT SYSTEM OVER-PRESSURIZATION.

    NOTE: FOR ITEMS 8,9 AND 10 THE FOLLOWING NOTATIONS MAY APPEAR:

    ISP - INSERVICE PRESSURE
    STAT - STATIC HEAD OF A TANK AT NORMAL DESIGN CAPACITY
    MSRV - MAIN STEAM RELIEF VALVE
    SRV - SYSTEM RELIEF VALVE

BOUND CODE	PROCEDURE NUMBER	LINE NUM	QA GP	ASME SEC.	DRAWING NUMBER	TESTED FROM	TESTED TO	MPP PSIG	MAP PSIG	RV PSIG
E.01	PT-3Y2	1520	B	IWC	9321-F-2019	VALVE BFD-62-2	VALVE BFD 41	ISP	ISP	ISP
E.01	PT-3Y2	1521	B	IWC	9321-F-2019	BFD-62-3	VALVE BFD 43	ISP	ISP	ISP
E.02	PT-3Y3	1514	B	IWC	9321-F-2019	BFD-62-1	BFD 36	ISP	ISP	ISP
E.02	PT-3Y3	1515	B	IWC	9321-F-2019	BFD-62	BFD-38	ISP	ISP	ISP
E.03	PT-3Y4	1516	B	IWC	9321-F-2019	VALVE BFD-48-4	VALVE BFD-48-5	ISP	ISP	ISP
E.03	PT-3Y4	1517	B	IWC	9321-F-2019	VALVE BFD-48-6	VALVE BFD-38-7	ISP	ISP	ISP
E.03	PT-3Y4	1518	B	IWC	9321-F-2019	VALVE BFD-48-2	VALVE BFD-48-3	ISP	ISP	ISP
E.03	PT-3Y4	1519	B	IWC	9321-F-2019	VALVE BFD-48	VALVE BFD-48-1	ISP	ISP	ISP
E.04	PT-X99	1	B	IWC	9321-F-2017	VC WALL	MS-2B	1356	1407	1417
E.04	PT-X99	2	B	IWC	9321-F-2017	VC WALL	MS-2A	1356	1407	1417
E.04	PT-X99	3	B	IWC	9321-F-2017	VC WALL	MS-2C	1356	1407	1417
E.04	PT-X99	4	B	IWC	9321-F-2017	VC WALL	MS-2D	1356	1407	1417
E.04	PT-X99	5	B	IWC	9321-F-2019	S/G 22	VC WALL	1356	1407	1417
E.04	PT-X99	5	B	IWC	9321-F-2019	VC WALL	BFD-6-1	1356	1407	1417
E.04	PT-X99	6	B	IWC	9321-F-2019	VC WALL	BFD 6	1356	1407	1417
E.04	PT-X99	6	B	IWC	9321-F-2019	S/G 21	VC WALL	1356	1407	1417
E.04	PT-X99	7	B	IWC	9321-F-2019	VC WALL	BFD-6-2	1356	1407	1417
E.04	PT-X99	7	B	IWC	9321-F-2019	S/G 23	VC WALL	1356	1407	1417
E.04	PT-X99	8	B	IWC	9321-F-2019	S/G 24	VC WALL	1356	1407	1417
E.04	PT-X99	8	B	IWC	9321-F-2019	VC WALL	BFD-6-3	1356	1407	1417
E.04	PT-X99	45	B	IWC	9321-F-2729	VC WALL	S/G-22	1356	1407	1417
E.04	PT-X99	45	B	IWC	9321-F-2729	VC WALL	PCV 1215A	1356	1407	1417
E.04	PT-X99	46	B	IWC	9321-F-2729	VC WALL	PCV 1214A	1356	1407	1417
E.04	PT-X99	46	B	IWC	9321-F-2729	VC WALL	S/G 21	1356	1407	1417
E.04	PT-X99	47	B	IWC	9321-F-2729	VC WALL	S/G 23	1356	1407	1417
E.04	PT-X99	47	B	IWC	9321-F-2729	VC WALL	PCV 1216A	1356	1407	1417
E.04	PT-X99	48	B	IWC	9321-F-2729	VC WALL	PCV 1217A	1356	1407	1417
E.04	PT-X99	48	B	IWC	9321-F-2729	VC WALL	S/G 24	1356	1407	1417
E.04	PT-X99	N/A	B	IWC	9321-F-2017	(S/G 24)	N/A	1356	1407	1417
E.04	PT-X99	N/A	B	IWC	9321-F-2017	(S/G 22)	N/A	1356	1407	1417
E.04	PT-X99	N/A	B	IWC	9321-F-2017	(S/G 23)	N/A	1356	1407	1417
E.04	PT-X99	N/A	B	IWC	9321-F-2017	(S/G 21)	N/A	1356	1407	1417
E.04	PT-X99	1514	B	IWC	9321-F-2017	LINE 1518	BFD-36	1356	1407	1417
E.04	PT-X99	1515	B	IWC	9321-F-2017	LINE 1519	BFD-38	1356	1407	1417
E.04	PT-X99	1516	B	IWC	9321-F-2017	BFD-48-5	LINE 7	1356	1407	1417
E.04	PT-X99	1517	B	IWC	9321-F-2017	LINE 8	BFD-48-7	1356	1407	1417
E.04	PT-X99	1518	B	IWC	9321-F-2017	LINE 5	BFD-48-3	1356	1407	1417
E.04	PT-X99	1519	B	IWC	9321-F-2017	BFD-48-1	LINE 6	1356	1407	1417
E.04	PT-X99	1520	B	IWC	9321-F-2017	BFD-41	LINE 1516	1356	1407	1417
E.04	PT-X99	1521	B	IWC	9321-F-2017	LINE 1517	BFD-43	1356	1407	1417
I.02	PT-X24	571	B	IWC	9321-F-2727	LINES 600 & 601	VALVE 1882A	165	173	175
I.02	PT-X24	589	B	IWC	9321-F-2727	VALVE 940B	02 STAND 21	165	173	175
K.02	PT-X27	60	B	IWC	9321-F-2735	VALVES 888A,888B	VALVES 848A,848B,887B	165	173	175
K.02	PT-X27	155	B	IWC	9321-F-2735	VALVE 155	VALVE 882	165	173	175
K.02	PT-X27	183	B	IWC	9321-F-2735	LINE 155	VALVE 845	165	173	175
K.02	PT-X27	189	B	IWC	9321-F-2735	LINE 155	LINE 60	165	173	175
K.02	PT-X27	190	B	IWC	9321-F-2735	LINE 155	VALVE 883	165	173	175
K.02	PT-X27	199	B	IWC	9321-F-2735	LINE 60	VALVE 1831	165	173	175
K.02	PT-X27	205	B	IWC	9321-F-2735	LINE 155	VALVE LCV-112B	165	173	175
K.02	PT-X27	206	B	IWC	9321-F-2735	LINE 205	VALVE 288	165	173	175

BOUND CODE	PROCEDURE NUMBER	LINE NUM	QA GP	ASME SEC.	DRAWING NUMBER	TESTED FROM	TESTED TO	MPP PSIG	MAP PSIG	RV PSIG
K.02	PT-X27	467	B	IWC	9321-F-2735	LINE 60	VALVE 1843A	165	173	175
K.02	PT-X27	467	B	IWC	9321-F-2735	LINE 60	VALVE 1843C	165	173	175
K.02	PT-X27	518	B	IWC	9321-F-2735	LINE 155	VALVE 898	165	173	175
K.02	PT-X27	1567	B	IWC	9321-F-2735	LINE 60	VALVE 5225	165	173	175
K.03	PT-3Y25	51	B	IWC	9321-F-2735	CSP 21	VALVES 866A & 866B	ISP	ISP	ISP
K.03	PT-3Y25	N/A	B	IWC	9321-F-2735	(CSP 21)	N/A	ISP	ISP	ISP
K.03	PT-3Y25	181	B	IWC	9321-F-2735	CSP 21	VALVE 865A	ISP	ISP	ISP
K.03	PT-3Y25	183	B	IWC	9321-F-2735	LINE 51	LINE 181	ISP	ISP	ISP
K.03	PT-3Y25	187	B	IWC	9321-F-2735	LINE 183	VALVE 1839A	ISP	ISP	ISP
K.04	PT-3Y25	15	B	IWC	9321-F-2735	CSP 22	VALVES 866C & 866D	ISP	ISP	ISP
K.04	PT-3Y25	N/A	B	IWC	9321-F-2735	(CSP 22)	N/A	ISP	ISP	ISP
K.04	PT-3Y25	181	B	IWC	9321-F-2735	CSP 22	VALVE 865B	ISP	ISP	ISP
K.04	PT-3Y25	183	B	IWC	9321-F-2735	LINE 15	LINE 579	ISP	ISP	ISP
K.04	PT-3Y25	579	B	IWC	9321-F-2735	LINE 579	VALVE 1839B	ISP	ISP	ISP
K.05	PT-3Y26	51	B	IWC	9321-F-2735	VALVE 869A	VALVES 866A,866B	ISP	ISP	ISP
K.05	PT-3Y26	164	B	IWC	9321-F-2735	LINE 51	VALVE 878A	ISP	ISP	ISP
K.06	PT-3Y26	15	B	IWC	9321-F-2735	VALVE 869B	VALVES 866C,866D	ISP	ISP	ISP
K.11	PT-3Y40	56	B	IWC	9321-F-2735	VALVE 850A & 850B	SI PUMP 21	ISP	ISP	ISP
K.11	PT-3Y40	60	B	IWC	9321-F-2735	VALVE 848A	SI PUMP 21	ISP	ISP	ISP
K.11	PT-3Y40	N/A	B	IWC	9321-F-2735	(SI PUMP 21)	N/A	ISP	ISP	ISP
K.11	PT-3Y40	161	B	IWC	9321-F-2735	VALVE 1807A	SI PUMP 21	ISP	ISP	ISP
K.11	PT-3Y40	467	B	IWC	9321-F-2735	VALVE 1843A	SI PUMP 21	ISP	ISP	ISP
K.12	PT-3Y40	16	B	IWC	9321-F-2735	VALVE 851B & 851A	SI PUMP 22	ISP	ISP	ISP
K.12	PT-3Y40	60	B	IWC	9321-F-2735	VALVE 887B	SI PUMP 22	ISP	ISP	ISP
K.12	PT-3Y40	N/A	B	IWC	9321-F-2735	(SI PUMP 22)	N/A	ISP	ISP	ISP
K.12	PT-3Y40	161	B	IWC	9321-F-2735	VALVE 1807B	SI PUMP 22	ISP	ISP	ISP
K.12	PT-3Y40	467	B	IWC	9321-F-2735	VALVE 1843B	SI PUMP 22	ISP	ISP	ISP
K.12	PT-3Y40	518	B	IWC	9321-F-2735	VALVE 898	SI PUMP 22	ISP	ISP	ISP
K.13	PT-3Y40	16	B	IWD	9321-F-2735	LINE 16	SIP #23	ISP	ISP	ISP
K.13	PT-3Y40	60	B	IWD	9321-F-2735	SIP #23	848B	ISP	ISP	ISP
K.13	PT-3Y40	N/A	B	IWD	9321-F-2735	(SI PUMP 23)	N/A	ISP	ISP	ISP
K.13	PT-3Y40	161	B	IWD	9321-F-2735	LINE 16	1087C	ISP	ISP	ISP
K.13	PT-3Y40	467	B	IWD	9321-F-2735	SIP #23	1843C	ISP	ISP	ISP
K.15	PMT-50538	16	B	IWC	9321-F-2735	VC WALL	VALVES 856C,D,F	1733	1811	1829
K.15	PMT-50538	16	B	IWC	9321-F-2735	VC WALL	VALVES 856C,D,F	1733	1811	1829
K.15	PMT-50538	16	B	IWC	9321-F-2735	VC WALL	VALVES 850A,850B	1733	1811	1829
K.15	PMT-50538	16	B	IWC	9321-F-2735	VALVES 851B,850B	VC WALL	1733	1811	1829
K.15	PMT-50538	31	B	IWC	9321-F-2735	LINES 16 & 56	VLVS 839A-H,859C	1733	1811	1829
K.15	PMT-50538	31	B	IWC	9321-F-2735	LINE 16 & 56	839A-H,859C	1733	1811	1829
K.15	PMT-50538	56	B	IWC	9321-F-2735	VC WALL	VALVES 856A,B,E	1733	1811	1829
K.15	PMT-50538	56	B	IWC	9321-F-2735	VC WALL	VALVES 856A,B,E	1733	1811	1829
K.15	PMT-50538	56	B	IWC	9321-F-2735	VC WALL	VALVES 851A,851B	1733	1811	1829
K.15	PMT-50538	56	B	IWC	9321-F-2735	VALVES 851A; 850A	VC WALL	1733	1811	1829
K.15	PMT-50538	362	B	IWC	9321-F-2735	LINE 16	VALVES 890A,B,C,D	1733	1811	1829
K.15	PMT-50538	362	B	IWC	9321-F-2735	LINE 16	VLVS 890 A,B,C,D	1733	1811	1829
K.16	PT-X41	68	B	IWC	9321-F-2735	VALVE 863	ACC 21,22,23,24	770	788	795
K.16	PT-X41	69	B	IWC	9321-F-2735	VALVE 956H	ACC 21,22,23,24	770	788	795
K.16	PT-X41	N/A	B	IWC	9321-F-2735	(ACCUM 23)	N/A	770	788	795
K.16	PT-X41	N/A	B	IWC	9321-F-2735	(ACCUM 22)	N/A	770	788	795
K.16	PT-X41	N/A	B	IWC	9321-F-2735	(ACCUM 24)	N/A	770	788	795

BOUND CODE	PROCEDURE NUMBER	LINE NUM	QA GP	ASME SEC.	DRAWING NUMBER	TESTED FROM	TESTED TO	MPP PSIG	MAP PSIG	RV PSIG
K.16	PT-X41	N/A	B	IWC	9321-F-2735	(ACCUM 21)	N/A	770	788	795
K.16	PT-X41	339	B	IWC	9321-F-2735	LINE 353	VALVE 896C	770	788	795
K.16	PT-X41	339	B	IWC	9321-F-2735	LINE 352	VALVE 896B	770	788	795
K.16	PT-X41	339	B	IWC	9321-F-2735	LINE 351	VALVE 896A	770	788	795
K.16	PT-X41	339	B	IWC	9321-F-2735	LINE 350	VALVE 896D	770	788	795
K.16	PT-X41	350	B	IWC	9321-F-2735	ACC 24	VALVE 894D	770	788	795
K.16	PT-X41	351	B	IWC	9321-F-2735	ACC 21	VALVE 894A	770	788	795
K.16	PT-X41	352	B	IWC	9321-F-2735	ACC 22	VALVE 894B	770	788	795
K.16	PT-X41	353	B	IWC	9321-F-2735	ACC 23	VALVE 894C	770	788	795
K.16	PT-X41	362	B	IWC	9321-F-2735	VALVE 890C	ACC23	770	788	795
K.16	PT-X41	362	B	IWC	9321-F-2735	VALVE 890B	ACC22	770	788	795
K.16	PT-X41	362	B	IWC	9321-F-2735	VALVE 890A	ACC21	770	788	795
K.16	PT-X41	362	B	IWC	9321-F-2735	VALVE 890D	ACC24	770	788	795
K.17	PT-R27A	57	B	IWC	9321-F-2735	VALVE 1805	VALVE 885B	100	105	106
K.18	PT-R12	9	B	IWC	9321-F-2735	RHR PMPS 21, 22	VALVE 774	ISP	ISP	ISP
K.18	PT-R12	10	B	IWC	9321-F-2735	VALVE 731	VC WALL	ISP	ISP	ISP
K.18	PT-R12	10	B	IWC	9321-F-2735	VC WALL	RHR PUMPS 21,22	ISP	ISP	ISP
K.18	PT-R12	29	B	IWC	9321-F-2735	LINE 361	HCV-133	ISP	ISP	ISP
K.18	PT-R12	57	B	IWC	9321-F-2735	VALVE 885B	LINE 10	ISP	ISP	ISP
K.18	PT-R12	60	B	IWC	9321-F-2735	LINE 361	VC WALL	ISP	ISP	ISP
K.18	PT-R12	60	B	IWC	9321-F-2735	VC WALL	VALVES 888A & 888B	ISP	ISP	ISP
K.18	PT-R12	93	B	IWC	9321-F-2735	LINE 361	VALVE 889A	ISP	ISP	ISP
K.18	PT-R12	94	B	IWC	9321-F-2735	LINE 361	VALVE 889B	ISP	ISP	ISP
K.18	PT-R12	N/A	B	IWC	9321-F-2735	(RHR HX 21)	N/A	ISP	ISP	ISP
K.18	PT-R12	N/A	B	IWC	9321-F-2735	(RHR HX 22)	N/A	ISP	ISP	ISP
K.18	PT-R12	N/A	B	IWC	9321-F-2735	LINE 60	LINE 10	ISP	ISP	ISP
K.18	PT-R12	155	B	IWC	9321-F-2735	VALVE 882	LINE 10	ISP	ISP	ISP
K.18	PT-R12	190	B	IWC	9321-F-2735	LINE 9	VALVE 883	ISP	ISP	ISP
K.18	PT-R12	293	B	IWC	9321-F-2735	LINE 9	VALVES 1802A & 1802 B	ISP	ISP	ISP
K.18	PT-R12	294	B	IWC	9321-F-2735	TEST LINE	VALVE 990C	ISP	ISP	ISP
K.18	PT-R12	361	B	IWC	9321-F-2735	RHR HX 21	VALVE 747	ISP	ISP	ISP
K.18	PT-R12	361	B	IWC	9321-F-2735	RHR HX 22	VALVE 746	ISP	ISP	ISP
M.01	PT-X72	N/A	B	IWC	9321-F-2736	(CHG PUMP 23)	N/A	188	197	199
M.01	PT-X72	N/A	B	IWC	9321-F-2736	(CHG PUMP 22)	N/A	188	197	199
M.01	PT-X72	N/A	B	IWC	9321-F-2736	(CHG PUMP 21)	N/A	188	197	199
M.01	PT-X72	200	B	IWC	9321-F-2736	LCV 112C	CHARGING PUMP 23 SUCT	188	197	199
M.01	PT-X72	202	B	IWC	9321-F-2736	FCV 110B	LINE 200	188	197	199
M.01	PT-X72	203	B	IWC	9321-F-2736	LINE 200	CHARGING PUMP 21 SUCT	188	197	199
M.01	PT-X72	204	B	IWC	9321-F-2736	LINE 200	LINE 293	188	197	199
M.01	PT-X72	205	B	IWC	9321-F-2736	LCV 112B	LINE 200	188	197	199
M.01	PT-X72	206	B	IWC	9321-F-2736	LINE 288	LINE 200	188	197	199
M.01	PT-X72	207	B	IWC	9321-F-2736	LINE 200	VALVE 283	188	197	199
M.01	PT-X72	208	B	IWC	9321-F-2736	LINE 200	LINE 333	188	197	199
M.01	PT-X72	210	B	IWC	9321-F-2736	LINE 231	LINE 219	188	197	199
M.01	PT-X72	213	B	IWC	9321-F-2736	LINE 237	LINE 218	188	197	199
M.01	PT-X72	216	B	IWC	9321-F-2736	LINE 237	LINE 218	188	197	199
M.01	PT-X72	218	B	IWC	9321-F-2736	LINE 200	LINE 281	188	197	199
M.01	PT-X72	219	B	IWC	9321-F-2736	LINE 203	LINE 273	188	197	199
M.01	PT-X72	220	B	IWC	9321-F-2736	LINE 207	LINE 276	188	197	199
M.01	PT-X72	254	B	IWC	9321-F-2736	LINE 204	LINE 282	188	197	199

BOUND CODE	PROCEDURE NUMBER	LINE NUM	QA GP	ASME SEC.	DRAWING NUMBER	TESTED FROM	TESTED TO	MPP PSIG	MAP PSIG	RV PSIG
M.01	PT-X72	307	B	IWC	9321-F-2736	LINE 200	CHARGING PUMP 22 SUCT	188	197	199
M.01	PT-X72	347	B	IWC	9321-F-2736	LINE 208	LINE 1299C	188	197	199
M.01	PT-X72	347	B	IWC	9321-F-2736	LINE 204	VALVE 1299B	188	197	199
M.01	PT-X72	393	B	IWC	9321-F-2736	LINE 208	LINE 331	188	197	199
M.01	PT-X72	393	B	IWC	9321-F-2736	LINE 208	LINE 331	188	197	199
M.01	PT-X72	711	B	IWC	9321-F-2736	VALVE 4902	LINE 218	188	197	199
M.01	PT-X72	712	B	IWC	9321-F-2736	VALVE 4901	LINE 220	188	197	199
M.01	PT-X72	713	B	IWC	9321-F-2736	VALVE 4900	LINE 219	188	197	199
M.02A	PT-X73	750	B	IWC	9321-F-2736	VALVE 4906	LINES 751,752,753,754	3419	3589	3624
M.02A	PT-X73	751	B	IWC	9321-F-2736	LINE 750	VALVE 4907	3419	3589	3624
M.02A	PT-X73	752	B	IWC	9321-F-2736	LINE 750	VALVE 4908	3419	3589	3624
M.02A	PT-X73	753	B	IWC	9321-F-2736	LINE 750	VALVE 4909	3419	3589	3624
M.02A	PT-X73	754	B	IWC	9321-F-2736	LINE 750	VALVE 4910	3419	3589	3624
M.02B	PT-X73	N/A	B	IWC	9321-F-2736	(CHG PMP 21)	N/A	3419	3589	3624
M.02B	PT-X73	215	B	IWC	9321-F-2736	VALVE 232	LINE 217	3419	3589	3624
M.02B	PT-X73	217	B	IWC	9321-F-2736	VALVE 230	CHARGING PUMP 21	3419	3589	3624
M.02B	PT-X73	713	B	IWC	9321-F-2736	LINE 217	VALVE 4900	3419	3589	3624
M.02C	PT-X73	N/A	B	IWC	9321-F-2736	(CHG PMP 22)	N/A	3419	3589	3624
M.02C	PT-X73	212	B	IWC	9321-F-2736	VALVE 233	LINE 214	3419	3589	3624
M.02C	PT-X73	214	B	IWC	9321-F-2736	VALVE 235	CHARGE PUMP 22	3419	3589	3624
M.02C	PT-X73	712	B	IWC	9321-F-2736	VALVE 4901	LINE 214	3419	3589	3624
M.02D	PT-X73	N/A	B	IWC	9321-F-2736	(CHG PMP 23)	N/A	3419	3589	3624
M.02D	PT-X73	209	B	IWC	9321-F-2736	VALVE 238	LINE 211	3419	3589	3624
M.02D	PT-X73	211	B	IWC	9321-F-2736	VALVE 236	CHP 23	3419	3589	3624
M.02E	PT-X73	41	B	IWC	9321-F-2736	LINE 402	VALVE 250A	3419	3589	3624
M.02E	PT-X73	42	B	IWC	9321-F-2736	LINE 402	VALVE 250B	3419	3589	3624
M.02E	PT-X73	43	B	IWC	9321-F-2736	LINE 402	VALVE 250C	3419	3589	3624
M.02E	PT-X73	44	B	IWC	9321-F-2736	LINE 402	VALVE 250D	3419	3589	3624
M.02E	PT-X73	209	B	IWC	9321-F-2736	VALVE 238	LINE 212	3419	3589	3624
M.02E	PT-X73	212	B	IWC	9321-F-2736	VALVE 233	LINE 402	3419	3589	3624
M.02E	PT-X73	215	B	IWC	9321-F-2736	VALVE 232	LINE 212	3419	3589	3624
M.02E	PT-X73	402	B	IWC	9321-F-2736	VALVE 212	LINES 41,42,43,44	3419	3589	3624
M.02F	PT-X73	19	B	IWC	9321-F-2736	VALVE 205	VALVES 230,235,236	3419	3589	3624
M.02F	PT-X73	742	B	IWC	9321-F-2736	LINE 19	VALVE 4053	3419	3589	3624
M.02F	PT-X73	750	B	IWC	9321-F-2736	LINE 19	VALVE 4906	3419	3589	3624
M.03	PT-X74	17	B	IWC	9321-F-2736	VALVES 272B & 221B	VALVES 243A, B, C, D	188	197	199
M.03	PT-X74	17	B	IWC	9321-F-2736	VALVES 272B & 221B	VALVES 243A, B, C, D	188	197	199
M.03	PT-X74	78	B	IWC	9321-F-2736	LINE 17	VALVE 246	188	197	199
M.03	PT-X74	98	B	IWC	9321-F-2736	LINE 17	HCV-123	188	197	199
M.05.1	PT-X75	29	B	IWC	208168	PURIF BSTR PUMP	VALVE 4056	750	788	795
M.05.1	PT-X75	N/A	B	IWC	208168	(PURIF BSTR PUMP)	N/A	750	788	795
M.05.2	PT-X76A	27	B	IWC	9321-F-2736	NON-REGEN HX	VLVS 200 A, B, & C	750	788	795
M.05.2	PT-X76A	29	B	IWC	9321-F-2736	LINE 27	VALVE 4055 & 4056	750	788	795
M.05.2	PT-X76A	99	B	IWC	208168	VALUE 206	NON-REGEN HX	750	788	795
M.05.2	PT-X76A	N/A	B	IWC	208168	(NON REGEN HX)	N/A	750	788	795
M.12	PT-X83	17	B	IWC	9321-F-2736	VALVES 272B,221B	VCT	83	87	88
M.12	PT-X83	N/A	B	IWC	9321-F-2736	(VOL CONTR TK)	N/A	83	87	88
M.12	PT-X83	115	B	IWC	9321-F-2736	VALVE PCV 114	VCT	83	87	88
M.12	PT-X83	120	B	IWC	9321-F-2736	VALVE 357	VCT	83	87	88
M.12	PT-X83	162	B	IWC	9321-F-2736	VALVE PCV 113A	LINE 115	83	87	88

ROUND CODE	PROCEDURE NUMBER	LINE NUM	QA GP	ASME SEC.	DRAWING NUMBER	TESTED FROM	TESTED TO	MPP PSIG	MAP PSIG	RV PSIG
M.12	PT-X83	169	B	IWC	9321-F-2736	RELIEF VALVE 263	LINE 17	83	87	88
M.12	PT-X83	200	B	IWC	9321-F-2736	LCV 112C	VCT	83	87	88
M.12	PT-X83	201	B	IWC	9321-F-2736	VALVE 289	LINE 200	83	87	88
M.12	PT-X83	218	B	IWC	9321-F-2736	VALVE 281	LINE 17	83	87	88
M.12	PT-X83	219	B	IWC	9321-F-2736	VALVE 273	LINE 218	83	87	88
M.12	PT-X83	220	B	IWC	9321-F-2736	VALVE 276	LINE 218	83	87	88
M.12	PT-X83	250	B	IWC	9321-F-2736	VALVE 264	VCT	83	87	88
M.12	PT-X83	297	B	IWC	9321-F-2736	VALVE 975	LINE 250	83	87	88
M.12	PT-X83	375	B	IWC	9321-F-2736	VALVE 5453	LINE 169	83	87	88
M.12	PT-X83	436	B	IWC	9321-F-2736	VALVE 5446	LINE 250	83	87	88
M.12	PT-X83	448	B	IWC	9321-F-2736	VALVE 266C	LINE 297	83	87	88
M.12	PT-X83	545	B	IWC	9321-F-2736	VCT	VCT	83	87	88
M.12	PT-X83	616	B	IWC	9321-F-2736	VALVE 5179	LINE 120	83	87	88
M.12	PT-X83	742	B	IWC	9321-F-2736	RELIEF VALVE	LINE 17	83	87	88
V3	PT-R75	10	A	IWB	9321-F-2738	LOOP 22	VALVE 730	2335	2400	SRV
V3	PT-R75	16	A	IWB	9321-F-2738	VALVE 856F	LOOP 21	2335	2400	SRV
V3	PT-R75	16	A	IWB	9321-F-2738	VALVE 856D	LINE 352	2335	2400	SRV
V3	PT-R75	16	A	IWB	9321-F-2738	VALVE 856C	LINE 350	2335	2400	SRV
V3	PT-R75	17	A	IWB	9321-F-2738	RCP 23 SEAL	VALVE 244C	2335	2400	SRV
V3	PT-R75	17	A	IWB	9321-F-2738	RCP 21 SEAL	VALVE 244A	2335	2400	SRV
V3	PT-R75	17	A	IWB	9321-F-2738	RCP 22 SEAL	VALVE 244B	2335	2400	SRV
V3	PT-R75	17	A	IWB	9321-F-2738	RCP 24 SEAL	VALVE 244D	2335	2400	SRV
V3	PT-R75	19	A	IWB	9321-F-2738	REGEN HX	VALVE 205	2335	2400	SRV
V3	PT-R75	25	A	IWB	9321-F-2738	VALVE 956B	LINE 70	2335	2400	SRV
V3	PT-R75	26	A	IWB	9321-F-2738	VALVE 956D	PRESSURIZER	2335	2400	SRV
V3	PT-R75	27	A	IWB	9321-F-2738	REGEN HX	VLVS 200A,200B,200C	2335	2400	SRV
V3	PT-R75	31	A	IWB	9321-F-2738	VALVE 839E	LINE 353	2335	2400	SRV
V3	PT-R75	31	A	IWB	9321-F-2738	VALVE 839C	LINE 352	2335	2400	SRV
V3	PT-R75	31	A	IWB	9321-F-2738	VALVE 839D	LINE 352	2335	2400	SRV
V3	PT-R75	31	A	IWB	9321-F-2738	VALVE 839B	LINE 351	2335	2400	SRV
V3	PT-R75	31	A	IWB	9321-F-2738	VALVE 839H	LINE 350	2335	2400	SRV
V3	PT-R75	31	A	IWB	9321-F-2738	VALVE 839A	LINE 351	2335	2400	SRV
V3	PT-R75	31	A	IWB	9321-F-2738	VALVE 839F	LINE 353	2335	2400	SRV
V3	PT-R75	31	A	IWB	9321-F-2738	VALVE 839G	LINE 350	2335	2400	SRV
V3	PT-R75	41	A	IWB	9321-F-2738	VC WALL	RCP 21	2335	2400	SRV
V3	PT-R75	41	A	IWB	9321-F-2738	VALVE 250A	VC WALL	2335	2400	SRV
V3	PT-R75	42	A	IWB	9321-F-2738	VC WALL	RCP 22	2335	2400	SRV
V3	PT-R75	42	A	IWB	9321-F-2738	VALVE 250B	VC WALL	2335	2400	SRV
V3	PT-R75	43	A	IWB	9321-F-2738	VALVE 250C	VC WALL	2335	2400	SRV
V3	PT-R75	43	A	IWB	9321-F-2738	VC WALL	RCP 23	2335	2400	SRV
V3	PT-R75	44	A	IWB	9321-F-2738	VC WALL	RCP 24	2335	2400	SRV
V3	PT-R75	44	A	IWB	9321-F-2738	VALVE 250D	VC WALL	2335	2400	SRV
V3	PT-R75	56	A	IWB	9321-F-2738	VALVE 856A	LINE 351	2335	2400	SRV
V3	PT-R75	56	A	IWB	9321-F-2738	VALVE 856E	LOOP 23	2335	2400	SRV
V3	PT-R75	59	A	IWB	9321-F-2738	LOOP 21	VALVE 955A	2335	2400	SRV
V3	PT-R75	59	A	IWB	9321-F-2738	VALVE 955B	LOOP 23	2335	2400	SRV
V3	PT-R75	59	A	IWB	9321-F-2738	VALVE 956F	VALVES 955A AND 955B	2335	2400	SRV
V3	PT-R75	61	A	IWB	9321-F-2738	LOOP 23	PRESSURIZER	2335	2400	SRV
V3	PT-R75	62	A	IWB	9321-F-2738	LINE 61	LOOP 24	2335	2400	SRV
V3	PT-R75	63	A	IWB	9321-F-2738	LOOP 24	PRESSURIZER	2335	2400	SRV

BOUND CODE	PROCEDURE NUMBER	LINE NUM	QA GP	ASME SEC.	DRAWING NUMBER	TESTED FROM	TESTED TO	MPP PSIG	MAP PSIG	RV PSIG
V3	PT-R75	64	A	IWB	9321-F-2738	LINE 80	LINE 61	2335	2400	SRV
V3	PT-R75	70	A	IWB	9321-F-2738	PCV 456 AND PCV 455C	PRESSURIZER	2335	2400	SRV
V3	PT-R75	75	A	IWB	9321-F-2738	RCP 21 SEAL	VALVE 246	2335	2400	SRV
V3	PT-R75	76	A	IWB	9321-F-2738	RCP 23 SEAL	LINE 75	2335	2400	SRV
V3	PT-R75	77	A	IWB	9321-F-2738	RCP 22 SEAL	LINE 78	2335	2400	SRV
V3	PT-R75	78	A	IWB	9321-F-2738	RCP 24 SEAL	LINE 75	2335	2400	SRV
V3	PT-R75	79	A	IWB	9321-F-2738	REGEN HX	LOOP 21	2335	2400	SRV
V3	PT-R75	80	A	IWB	9321-F-2738	REGEN HX	LOOP 22	2335	2400	SRV
V3	PT-R75	81	A	IWB	9321-F-2738	LINE 79	VALVE 508B	2335	2400	SRV
V3	PT-R75	82	A	IWB	9321-F-2738	LOOP 22	VALVE 505B	2335	2400	SRV
V3	PT-R75	83	A	IWB	9321-F-2738	VALVE 511B	LOOP 23	2335	2400	SRV
V3	PT-R75	84	A	IWB	9321-F-2738	VALVE 515B	LOOP 24	2335	2400	SRV
V3	PT-R75	96	A	IWB	9321-F-2738	LINE 80	LOOP 21	2335	2400	SRV
V3	PT-R75	97	A	IWB	9321-F-2738	LOOP 21	HCV 123	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(S/G 21)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(S/G 22)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RCP 22)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(PRESSURIZER)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(S/G 23)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RVLIS HEAD)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RCP 23 SEAL)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RCP 24)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(REGEN HX)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RCP 21)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(INCORE INST)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(EXC LETDN HX)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RCP 24 SEAL)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(S/G 24)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RCP 23)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RCP 22 SEAL)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(REACTOR VESSEL)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(RCP 21 SEAL)	N/A	2335	2400	SRV
V3	PT-R75	N/A	A	IWB	9321-F-2738	(REACTOR HEAD)	N/A	2335	2400	SRV
V3	PT-R75	21	A	IWB	9321-F-2738	OUTLET S/G 21	INLET RCP 21	2335	2400	SRV
V3	PT-R75	21	A	IWB	9321-F-2738	REACTOR NOZZLE	NOZZLE S/G 21	2335	2400	SRV
V3	PT-R75	21	A	IWB	9321-F-2738	REACTOR NOZZLE	OUTLET RCP 21	2335	2400	SRV
V3	PT-R75	22	A	IWB	9321-F-2738	REACTOR NOZZLE	OUTLET RCP 22	2335	2400	SRV
V3	PT-R75	22	A	IWB	9321-F-2738	OUTLET S/G 22	NOZZLE S/G 22	2335	2400	SRV
V3	PT-R75	23	A	IWB	9321-F-2738	OUTLET S/G 23	INLET RCP 22	2335	2400	SRV
V3	PT-R75	23	A	IWB	9321-F-2738	REACTOR NOZZLE	INLET RCP 23	2335	2400	SRV
V3	PT-R75	23	A	IWB	9321-F-2738	REACTOR NOZZLE	NOZZLE S/G 23	2335	2400	SRV
V3	PT-R75	24	A	IWB	9321-F-2738	OUTLET S/G 24	OUTLET RCP 23	2335	2400	SRV
V3	PT-R75	24	A	IWB	9321-F-2738	REACTOR NOZZLE	INLET RCP 24	2335	2400	SRV
V3	PT-R75	24	A	IWB	9321-F-2738	REACTOR NOZZLE	NOZZLE S/G 24	2335	2400	SRV
V3	PT-R75	342	A	IWB	9321-F-2738	PCV 464	OUTLET RCP 24	2335	2400	SRV
V3	PT-R75	343	A	IWB	9321-F-2738	PCV 466	PRESSURIZER	2335	2400	SRV
V3	PT-R75	344	A	IWB	9321-F-2738	PCV 468	PRESSURIZER	2335	2400	SRV
V3	PT-R75	350	A	IWB	9321-F-2738	VALVE 894D	PRESSURIZER	2335	2400	SRV
V3	PT-R75	351	A	IWB	9321-F-2738	VALVE 894A	LOOP 24	2335	2400	SRV
							LOOP 21	2335	2400	SRV

BOUND CODE	PROCEDURE NUMBER	LINE NUM	QA GP	ASME SEC.	DRAWING NUMBER	TESTED FROM	TESTED TO	MPP PSIG	MAP PSIG	RV PSIG
V3	PT-R75	352	A	IWB	9321-F-2738	LOOP 22	VALVE 894B	2335	2400	SRV
V3	PT-R75	353	A	IWB	9321-F-2738	VALVE 894C	LOOP 23	2335	2400	SRV
V3	PT-R75	355	A	IWB	9321-F-2738	LINE 361	LINE 351	2335	2400	SRV
V3	PT-R75	356	A	IWB	9321-F-2738	LINE 361	LINE 352	2335	2400	SRV
V3	PT-R75	358	A	IWB	9321-F-2738	LINE 361	LINE 353	2335	2400	SRV
V3	PT-R75	361	A	IWB	9321-F-2738	VALVES 746,747	LINE 350	2335	2400	SRV
V3	PT-R75	445	A	IWB	9321-F-2738	LINE 81	VALVE 541	2335	2400	SRV
V3	PT-R75	474	A	IWB	9321-F-2738	PT-458	VALVE 580B	2335	2400	SRV
V3	PT-R75	486	A	IWB	9321-F-2738	RCP 21	PT 147	2335	2400	SRV
V3	PT-R75	487	A	IWB	9321-F-2738	RCP 21	PT 147	2335	2400	SRV
V3	PT-R75	488	A	IWB	9321-F-2738	RCP 22	PT 145	2335	2400	SRV
V3	PT-R75	489	A	IWB	9321-F-2738	RCP 22	PT 145	2335	2400	SRV
V3	PT-R75	490	A	IWB	9321-F-2738	RCP 23	PT 131	2335	2400	SRV
V3	PT-R75	491	A	IWB	9321-F-2738	RCP 23	PT 131	2335	2400	SRV
V3	PT-R75	492	A	IWB	9321-F-2738	RCP 24	PT 124	2335	2400	SRV
V3	PT-R75	493	A	IWB	9321-F-2738	RCP 24	PT 124	2335	2400	SRV
V3	PT-R75	522	A	IWB	9321-F-2738	LINE 527	VALVE 4143	2335	2400	SRV

TABLE 4

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 Screwed Joints	1	1	0
Valve Packing Leakage	2	2	0
Total Items by Status	3	3	0

QUALITY GROUP "B" PRESSURE RETAINING COMPONENTS

LEAKAGE TYPE	NUMBER FOUND	NUMBER REPAIRED	NUMBER DEFERRED	NUMBER ACCEPTED
Valve Packing Leakage	13	13	0	0
Flange Gaskets	2	2	0	0
Fittings and Screwed Joints	5	1	4	0
Body to Bonnet Leakage	2	2	0	0
Leak By Seat	3	0	3	0
Total Items by Status	25	18	7	0

Attachment III

Form NIS-1
Owners Data Report

Consolidated Edison Company of New York, Inc.
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 Construction	--	--	--

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 12-13-90 to 7-3-91

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 August 15, 19 91 Signed Con Edison Owner By P E Weedy

Certificate of Authorization No. (if applicable) - 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, Conn. have inspected the components described in this Owners Data Report during the period 2/4/91 to 8/15/91, 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 August 15, 19 91

Inspectors Signature

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