

INSERVICE INSPECTION SUMMARY REPORT
FOR REFUEL OUTAGE #10
AT
PILGRIM NUCLEAR POWER STATION

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BOSTON EDISON COMPANY
AUGUST 1995

1995 REFUEL OUTAGE 10 INSERVICE INSPECTION SUMMARY REPORT

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SECTION 1.0

**PILGRIM NUCLEAR POWER STATION
1995 REFUEL OUTAGE 10 INSERVICE INSPECTION SUMMARY REPORT**

1.0 **EXECUTIVE SUMMARY**

This report documents Inservice (ISI) and Preservice (PSI) nondestructive examinations and related augmented inspection activities performed at Pilgrim Nuclear Power Station (PNPS) for the time period from the close of Refuel Outage 9 through Refuel Outage 10. The code examinations were conducted during the third period of the section Ten Year Inspection Interval of the PNPS ISI Program.

Types of examinations performed were

ASME XI inservice and preservice piping weld surface and volumetric examinations and pipe support visual examinations.

Ultrasonic and visual examination of Salt Service Water (SSW) piping per Generic Letter 89-13, including remote visual examination of buried 'B' loop discharge piping.

Ultrasonic examination of high energy piping for evidence of flow-assisted corrosion per Generic Letter 89-08.

Ultrasonic examination of austenitic stainless steel piping welds for Intergranular Stress Corrosion Cracking (IGSCC) per Generic Letter 88-01.

Ultrasonic examination of all accessible reactor pressure vessel (RPV) shell welds.

In-vessel visual examination.

Preservice examination of Reactor Water Cleanup (RWCU) replacement piping welds in accordance with ASME XI and Generic Letter 88-01 requirements, and other replacement activities.

Visual examination of Drywell annulus air gap drain lines for leakage.

Visual examinations for leakage during Class 2 and 3 system pressure tests in accordance with Code Case N-498-1 (in lieu of the ten year hydrostatic pressure test requirements).

Examination Details:

Examinations were conducted in accordance with ASME Section XI, 1980 Edition, Winter 1980 Addenda and BECo letters to NRC 94.104 and 95.035.

General Electric Company was the inspection vendor for the October 1994 midcycle outage, the RPV shell weld examination and RWCU pipe replacement activities during RFO#10 in April and May 1995. Asea Brown Boveri (ABB/AMDATA) was the vendor for the RFO#10 ISI piping weld and support examinations. Boston Edison personnel performed some on-line examinations prior to Midcycle 10.

Regarding BECo Letter 92.048, "Revised Inspection Plan for Drywell Annulus Air Gap Drain Lines at PNPS."

The 4" annulus air gap drains were visually examined for leakage both after flood-up of the refuel cavity and prior to drain-down. No evidence of leakage was found.

Regarding BECo Letter 95.036 "Inservice Inspection Plan for 1995 Refueling Outage #10:

Invessel Visual examinations of Code Category B-N-1 and B-N-2 were completed in addition to the augmented examinations of:

- Access hole covers
- Steam dryer leveling screws
- Core Spray sparger piping (IEB 80-13)
- Jet pump adjusting screws and riser brackets
- Feedwater sparger welds (NUREG 0619).
- Visual examinations associated with the core shroud modification (Figure 1).

The visual examinations confirmed previous linear indications in steam dryer leveling screws and also reported a linear indication in the 0° access hole cover weld (NCR 95-141). Subsequent ultrasonic examination of the 0° cover revealed the visual indication to be nonrelevant. (ref. Figure 2).

Gaps were observed in the jet pump adjusting screws (NCR 95-133).

A visual indication was found in the shroud H-4 weld during the core shroud modification. The indication was outside the area of interest and accounted for by the modification.

All 48 shroud head bolts were ultrasonically examined in RFO#10 by General Electric with all bolts acceptable (ref. Figure 3).

All nondestructive weld and pipe support visual examinations were completed with the exception of Feedwater weld 6-N4D-11, a weld that is incorrectly displayed on drawings. Also pipe supports H-10-1-14SG, H-10-1-(183 to 187) were not examined as relief was requested by BECo letter to NRC 95.080.

All 56 RPV studs were ultrasonically examined by General Electric during RFO#10.

Ten Salt Service Water spools were ultrasonically examined during RFO#10 per Specifications M-591 and Generic Letter 89-13. All pipe was found acceptable.

Eleven nonconformance reports were written during RFO#10. An ultrasonic indication in HPCI weld EB-23-F66A caused a pipe replacement and subsequent scope expansion consisting of nine additional weld exams.

Preservice examination was performed for 11 Reactor Water Cleanup welds replaced in RFO#10 under PDC 92-33.

Twenty two components were examined for flow-assisted corrosion per Generic Letter 89-08 with all components acceptable.

Regarding BECo letter 95.035 "Augmented Exam of RPV Shell Welds Pursuant to 10CFR50.55 a(g)(6)":

This examination requires relief from the regulation and will be submitted under separate cover.

Regarding BECo Letter 94.104 "Inservice Inspection Plan for Pilgrim Station's October 1994 Midcycle Outage":

All examinations were completed with the following exceptions:

- Weld 3-WSD-20 was substituted for 3-WSD-21
- Weld GB-10-F28 was substituted for GB-10-F30
- Weld GB-10-F31 was substituted for GB-10-F32
- Weld GB-14-F33 was added to the outage.
- Weld GB-14-F35 was substituted for GB-14-F38
- Weld DB/DC-10-3001-2-1 was added to the outage
- Weld DC-10-F10R was added to the outage

Ultrasonic examination of ten pipe spools in the Salt Service Water System during the Midcycle 10 Outage per Generic Letter 89-13 found all pipe acceptable. Additionally, a remote internal visual examination of the "B" Loop Salt Service Water discharge piping was performed. Problem report 94.9424 was written for delaminated rubber on the buried discharge piping.

A total of eleven nonconformance reports were written, all for supports, which caused a scope expansion of 17 supports.

Regarding visual examinations for leakage during Class 2 and 3 system pressure testing:

All Class 2 and 3 piping within the code boundaries, (except for the segments noted below) has been visually examined for leakage in accordance with Code Case N-498-1 as allowed by NRC letter to Edison dated March 10, 1995. Visual examination of the following piping segments will be completed during the first period of the third 10 year interval:

Segment of 'B' Loop RHR Containment: Spray piping between valves 1001-23B and 1001-26B.

Segment of 'A' Loop RHR piping from valve 1001-43A to RHR pump P-203A (suction side).

TABLE 1

PRESERVICE VISUAL EXAMS PERFORMED DURING CYCLE 10

COMPONENT	METHOD	MR	DATE	DATA SHEET #
H-10-1-116	VT-3	19402113	11/15/94	VT-10-94021
1 1/8"-12 HEX NUTS (MRIR#94-1163)	VT-1	N/A	02/25/95	94-V-0001
1 1/2" PIPING (RHR)	VT-2	19101286	08/02/94	VT-10-94002
1 1/2" PIPING (RHR)	VT-2	19101285	08/02/94	VT-10-94001
H-10-1-SS20	VT-3	19202239	04/19/93	VT-1-93032
H-1-1-SD2	VT-3	19202235	04/19/93	VT-1-93019
SS-2-30-07	VT-3	19202232	04/30/93	VT-2-93010
SRV MAIN STAGE BODY	VT-3	19403182	10/27/94	VT-1-94024
SRV BODY S/N 1208	VT-3	19302403	09/30/93	VT-1-93020
HEX BOLT (MRIR #84-597)	VT-1	19302403	09/30/93	N/A
HEX BOLT (MRIR #79-01)	VT-1	19302403	09/30/93	N/A
H-29-1-5SR	VT-3	19100471	11/07/94	VT-29-94004
1201-2 VALVE	VT-3	19401363	04/14/95	VT-12-95004
1201-5 VALVE	VT-3	19401361	04/14/95	VT-12-95005
2301-8 VALVE	VT-3	19302600	04/26/95	VT-23-95010
H-23-1-80	VT-3	19401360	04/27/95	VT-23-95007
H-23-1-82	VT-3	19401360	04/27/95	VT-23-95009
H-23-1-81	VT-3	19401360	04/27/95	VT-23-95008
H-23-1-6	VT-3	19401362	05/10/95	VT-23-95014
SS-14-3-03	VT-3	19401333	04/08/95	VT-14-95011
H-12-1-7	VT-3	19302083	05/12/95	VT-12-95007
H-12-1-8	VT-3	19302083	05/10/95	VT-12-95008
H-12-1-12	VT-3	19401363	05/12/95	VT-12-95009
H-12-1-20	VT-3	19401361	05/23/95	VT-12-95010
H-10-1-155	VT-3	19500423	04/15/95	VT-10-95034
H-10-1-1025	VT-3	19401118	04/14/95	VT-10-95032
H-10-1-280	VT-3	19500422	04/15/95	VT-10-95033
H-6-1-SS2A	VT-3	19501162	04/20/95	VT-6-95003
H-6-1-SS1A	VT-3	19501162	04/20/95	VT-6-95002
WELD 12-BC-15R	VT-2	19302861	07/24/93	VT-12-93006
PSV-1401-28B WELDS	VT-2	19101278	10/04/94	VT-14-94005
1201 STEAM SUPPLY (new welds)	VT-2	19401278	06/05/95	VT-23-95017
2301-5 VALVE REPLMT. WELDS	VT-2	19401362	06/05/95	VT-23-95016
2301-3 VALVE REPLMT. WELDS	VT-2	19400658	06/05/95	VT-23-95015

TABLE 2

MCO#10 NONCONFORMANCE REPORTS FOR WELDS AND SUPPORTS

<u>NCR NO.</u>	<u>DESCRIPTION</u>	<u>DISPOSITION</u>	<u>MR</u>
NCR 94-32(C)	H-26-1-3 BENT ROD	ACC-AS-IS	19302420
NCR 94-33(C)	H-10-1-108S MISSING/LOOSE NUTS	REWORK	19302415
NCR 94-34(C)	H-23-1-8 LOOSE NUT	REWORK	19302416
NCR 94-36(C)	H-23-1-11 LOOSE LOWER NUT & BENT ROD	REWORK/AAI	19302416
NCR 94-42(C)	H-30-1-54 EXCESSIVE CORROSION	ACCEPT-AS-IS	19302418
NCR 94-58(C)	H-1-1-HC3 SPRING CAN OUT OF TOLERANCE	ACCEPT-AS-IS	19302417
NCR 94-59(C)	H-6-1-SS-2 PISTON SETTING OUT OF TOLERANCE	ACCEPT-AS-IS	19302413
NCR 94-67(C)	H-23-1-10* LOOSE BOLTING ASSEMBLY	REWORK	19302416
NCR 94-74(C)	H-1-1-SC2* STRUCTURAL STEEL INTERFERENCE	ACCEPT-AS-IS	19302417
NCR#94-71(C)	H-1-1-HC1 LOOSE NUT AT ATTACHMENT	REWORK	19302417
NCR#94-72(C)	H-1-1-HD1 LOOSE NUT AT ATTACHMENT	REWORK	19302417

TABLE 3

RFO#10 NONCONFORMANCE REPORTS FOR WELDS AND SUPPORTS

<u>NCR NO.</u>	<u>DESCRIPTION</u>	<u>DISPOSITION</u>	<u>MR</u>
NCR95-038(C)	H-10-1-164 NOT SUPPORTING LOAD	ACCEPT-AS-IS	19401802
NCR95-042(C)	H-10-1-120SR LACK OF THREAD ENGAGEMENT AT CPLG; LOOSE LOCK	REWORK	19401802
NCR95-054(C)	2-VB-202-5B SAW CUT ON NUT	ACCEPT-AS-IS	19401797
NCR95-063(C)	HE-26-F248 REJECTABLE LINEAR INDICATION	REWORK	19401794
NCR95-067(C)	GB-10-6-2B 1/2" LINEAR INDIC.	REWORK	19401798
NCR95-074(C)	H-10-1-176 BOUND PADDLE	ACCEPT	19401802
NCR95-084(C)	EB-23-F66A PLANAR REFLECTOR	REPAIR	19401793
NCR95-101(C)	HE-30-68PS CORROSION >10%	ACCEPT AS IS	19401803
NCR95-127(C)	*EB-23-2-1G LINEAR INDICATION OUTSIDE EXAM AREA	REWORK	19401793
NCR95-127(C)	*EB-23-2-1B LINEAR INDICATION OUTSIDE EXAM AREA	REWORK	19401793
NCR95-139(C)	*EB-23-1-1D REJECTABLE LINEAR INDICATION (MT)	REWORK	19401793

TABLE 4

MIDCYCLE 10 INSERVICE EXAMINATIONS PERFORMED BY BOSTON ED.30N

COMPONENT	DESCRIPTION	SYSTEM	ISOMETRIC	EXAM
3-WSD-20	PIPE TO PIPE	CRD	ISI-I-3-1	MT
3-WSD-17	PIPE TO PIPE	CRD	ISI-I-3-1	MT
GB-14-1-1D	PIPE TO ELBOW	CS	ISI-I-14-2B	MT
GB-14-F34	PIPE TO VALVE	CS	ISI-I-14-2B	PT
GB-14-F2	ELBOW TO PIPE	CS	ISI-I-14-2B	MT
GB-14-F33	VALVE TO PIPE	CS	ISI-I-14-2B	PT
GB-14-3-4D	PIPE TO WELDOLET	CS	ISI-I-14-2B	MT
GB-14-1-1C	ELBOW TO PIPE	CS	ISI-I-14-2B	MT
HL-14-F11	PIPE TO VALVE	CS	ISI-I-14-2B	MT
HD-14-2-1G	PIPE TO FLANGE	CS	ISI-I-14-2B	MT
GB-14-F3A	PIPE TO PIPE	CS	ISI-I-14-2B	MT
GB-14-F35	PIPE TO PIPE	CS	ISI-I-14-2B	MT
GB-14-F39	PIPE TO VALVE	CS	ISI-I-14-2B	MT
GB-14-3-4E	REDUCER TO PIPE	CS	ISI-I-14-2B	MT
GB-10-9-4A-B	ELBOW TO PIPE	RHR	ISI-I-10-4B	MT
GB-10-9-4C-C	PIPE TO ELBOW	RHR	ISI-I-10-4B	MT
GB-10-F59A	PIPE TO VALVE	RHR	ISI-I-10-5B	MT
GB-10-10-2C	TEE TO ELBOW	RHR	ISI-I-10-5B	MT
GB-10-10-2E	TEE TO PIPE	RHR	ISI-I-10-5B	MT
GB-10-12-2D	WELDOLET TO PIPE	RHR	ISI-I-10-5B	MT
GL-10-F61	VALVE TO WELDOLET	RHR	ISI-I-10-5B	MT
GB-10-F29	ELBOW TO PIPE	RHR	ISI-I-10-5B	MT
HL-10-1-1B	ELBOW TO PIPE	RHR	ISI-I-10-5B	MT
GB-10-F28	ELBOW TO ELBOW	RHR	ISI-I-10-5B	MT
GB-10-F31	ELBOW TO PIPE	RHR	ISI-I-10-5B	MT
GB-10-2-1A-D	ELBOW TO ELBOW	RHR	ISI-I-10-5B	MT

TABLE 4

MIDCYCLE 10 INSERVICE EXAMINATIONS PERFORMED BY BOSTON EDISON

COMPONENT	DESCRIPTION	SYSTEM	ISOMETRIC	EXAM
GB-14-22HL1(4)	SUPPORT LUGS	CS	ISI-I-14-2B	MT
DB-23-51HL1(4)	SUPPORT LUGS	HPCI	ISI-I-23-5	MT
GB-10-19HL1(4)	SUPPORT LUGS	RHR	ISI-I-10-4B	MT
H-3-1-17	RIGID SUPPORT	CRD	ISI-I-3-1	VT-3
H-3-1-29	STRUT	CRD	ISI-I-3-1	VT-3
H-3-1-30	RESTRAINT	CRD	ISI-I-3-1	VT-3
H-3-1-41	STRUT	CRD	ISI-I-3-1	VT-3
H-3-1-47	RESTRAINT	CRD	ISI-I-3-1	VT-3
H-3-1-15	RIGID SUPPORT	CRD	ISI-I-3-1	VT-3
H-3-1-16	RIGID SUPPORT	CRD	ISI-I-3-1	VT-3
H-14-1-9	RIGID HANGER	CS	ISI-I-14-2B	VT-3
H-14-1-55	RIGID HANGER	CS	ISI-I-14-2B	VT-3
H-14-1-33	RIGID HANGER	CS	ISI-I-14-2B	VT-3
H-23-1-9	SPRING HANGER	HPCI	ISI-I-23-2	VT-3/4
H-23-1-11	SPRING HANGER	HPCI	ISI-I-23-2	VT-3/4
H-23-1-6	SPRING HANGER	HPCI	ISI-I-23-2	VT-3/4
H-23-1-7	RIGID HANGER	HPCI	ISI-I-23-2	VT-3
H-23-1-8	SPRING HANGER	HPCI	ISI-I-23-2	VT-3/4
H-23-1-28S	RIGID HANGER	HPCI	ISI-I-23-2	VT-3
H-23-1-17	RIGID HANGER	HPCI	ISI-I-23-3	VT-3
H-23-1-15SS	SNUBBER	HPCI	ISI-I-23-3	VT-3/4
H-23-1-16	RIGID HANGER	HPCI	ISI-I-23-3	VT-3
H-23-1-3	RIGID HANGER	HPCI	ISI-I-23-5	VT-3
H-1-1-37	RIGID HANGER	MS	ISI-I-1-1	VT-3
H-1-1-23	RIGID HANGER	MS	ISI-I-1-1	VT-3
H-30-1-46	RIGID HANGER	RBCCW	ISI-I-30-1	VT-3

TABLE 4

MIDCYCLE 10 INSERVICE EXAMINATIONS PERFORMED BY BOSTON EDISON

COMPONENT	DESCRIPTION	SYSTEM	ISOMETRIC	EXAM
H-30-1-104	RIGID HANGER	RBCCW	ISI-I-30-1	VT-3
H-30-1-32SH	RIGID HANGER	RBCCW	ISI-I-30-2	VT-3
H-30-1-33SR	RIGID HANGER	RBCCW	ISI-I-30-2	VT-3
H-30-1-53	RIGID HANGER	RBCCW	ISI-I-30-2	VT-3
H-30-1-54	RIGID HANGER	RBCCW	ISI-I-30-2	VT-3
H-30-1-58	RIGID HANGER	RBCCW	ISI-I-30-2	VT-3
H-26-1-6	GUIDE	RCIC	ISI-I-13-4	VT-3
H-26-1-2	GUIDE	RCIC	ISI-I-13-4	VT-3
H-26-1-3	RIGID HANGER	RCIC	ISI-I-13-4	VT-3
H-26-1-5	GUIDE	RCIC	ISI-I-13-4	VT-3
H-26-1-4	GUIDE	RCIC	ISI-I-13-4	VT-3
H-26-1-1	RIGID HANGER	RCIC	ISI-I-13-4	VT-3
H-10-1-30SR	LATERAL RESTRAINT	RHR	ISI-I-10-2B	VT-3
H-10-1-55	RIGID SUPPORT	RHR	ISI-I-10-2B	VT-3
H-10-1-SG17	LATERAL RESTRAINT	RHR	ISI-I-10-2B	VT-3
H-10-1-56	RIGID SUPPORT	RHR	ISI-I-10-2B	VT-3
H-10-1-99S	LATERAL RESTRAINT	RHR	ISI-I-10-3B	VT-3
H-10-1-92S	SPRING HANGER	RHR	ISI-I-10-3B	VT-3/4
H-10-1-108S	LATERAL RESTRAINT	RHR	ISI-I-10-4B	VT-3
H-10-1-107S	RIGID HANGER	RHR	ISI-I-10-4B	VT-3
H-10-1-11	RIGID HANGER	RHR	ISI-I-10-5B	VT-3
H-10-1-105S	LATERAL RESTRAINT	RHR	ISI-I-10-5B	VT-3
H-10-1-12	SPRING HANGER	RHR	ISI-I-10-5B	VT-3/4
H-10-1-18	SPRING HANGER	RHR	ISI-I-10-5B	VT-3/4
H-10-1-LT1	SPRING HANGER	RHR	ISI-I-10-5B	VT-3/4
H-10-1-LT2	SPRING HANGER	RHR	ISI-I-10-5B	VT-3/4

TABLE 4

MIDCYCLE 10 INSERVICE EXAMINATIONS PERFORMED BY
BOSTON EDISON

COMPONENT	DESCRIPTION	SYSTEM	ISOMETRIC	EXAM
H-29-1-15	RIGID HANGER	SSW	ISI-I-29-1	VT-3
H-29-1-21	RIGID HANGER	SSW	ISI-I-29-1	VT-3
H-29-1-24	RIGID HANGER	SSW	ISI-I-29-1	VT-3

PILGRIM NUCLEAR POWER STATION
REACTOR SHROUD VISUAL INSPECTION
TENTH REFUELING AND INSPECTION

SUMMARY

EXAMINATION SUMMARY

During the period of April, 1995, General Electric Nuclear Energy personnel performed In Vessel Visual Inspection of the Pilgrim Reactor Shroud. This section details the techniques utilized, examination procedure, examination personnel and the results of the inspections.

EXAMINATION PROCEDURE

TP95-083 Revision No. 0, Procedure For In-vessel Inspection Of RPV Core Support Shroud Welds.

EXAMINATION PERSONNEL

The following is a list that identifies the certification levels of the General Electric visual examination personnel that performed the In Vessel Inspection.

Name	Visual Level
M. Stamm	Level III
Dan Thomas	Level II
Dave Thomas	Level II
E. Wall	Level II
J. Bzenas	Level II
T. McAndrew	Level II

EXAMINATION TECHNIQUES

The examinations were performed using remote CCTV equipment, hand held camera mounted lighting, and VHS videotape recording equipment. System resolution was verified using both a .0005" Mil Diameter Wire and a .001" Diameter wire attached to a holding fixture. Resolution was verified on each videotape recorded.

WORKSCOPE


The following identifies the Pilgrim Invessel (RPV) Internals that were scheduled for inspection. These inspection were performed in accordance with Procedure TP95-083 Rev 0.

1. Accessible Gusset Welds, Shroud Support Plate and Vessel Wall at 45°, 135°, 225° and 315°.(VT-1 Enhanced)
2. Vertical Welds V15, V16, V17 & V18 ID and OD, Intersecting Weld H4.(VT-1 Enhanced)
3. Accessible Core Plate Hold Downs at 45°, 135°, 225° and 315°.(VT-3)
4. Aligner Pins at 0°, 90°, 180° and 270°.(VT-3)
5. Ring Segment Welds V9, V10, V11, V12, V13 and V14.(Enhanced VT-1)

EXAMINATION RESULTS

No Relevant Indications were reported during the Invessel Visual Examination.(TVVI)

FIGURE 2

 GE Nuclear Energy		EXAMINATION SUMMARY SHEET	
PROJECT: PILGRIM 1FX4V		PROCEDURE: TP95-109	REV: 0 FRR: N/A N/A N/A
SYSTEM: RPV		N/A	REV: N/A FRR: N/A N/A N/A
WELD NO.: Access Hole Cover @ 0°			
CONFIGURATION: AHC TO SHROUD LEDGE		<input type="checkbox"/> MT <input type="checkbox"/> PT <input checked="" type="checkbox"/> UT <input type="checkbox"/> VT	
EXAMINER: P. JOHNSON	LEVEL: III	WELD TYPE: <input checked="" type="checkbox"/> CIRCUMFERENTIAL <input type="checkbox"/> LONGITUDINAL <input type="checkbox"/> OTHER N/A	
EXAMINER: N/A	LEVEL: N/A		
EXAMINER: N/A	LEVEL: N/A		
		CAL SHEET NO.(S): C-01,02,03,04,05,06, & 07	
<p>During the automated ultrasonic examination of the above referenced weld, no indications associated with IGSCC were recorded by the Smart 2000 system utilizing 45° shear wave and 60° Refracted Longitudinal (RL) wave search units. The visual indication recorded during the Spring 1995 IVVI examination could not be confirmed with UT.</p> <p>ID geometry was recorded with both the 45° shear and 60° RL search units.</p> <p>Approximately 45% of the weld circumference was not examined from the ledge side of the weld due to the proximity of the reactor vessel and the shroud wall.</p> <p>IVVI tapes and previous data were reviewed prior to this summary.</p>			
<p>NOTE: Prior to the Ultrasonic Examination of the 0 degree Access Hole Cover, the weld was brushed using a Honda motor attached to a pole. This brushing was done so an exploratory Enhanced VT-1 could be performed of the previously reported IVVI indication identified during the 1995 Spring Outage. This indication was Examined using a .0005" mil wire. During the exam, camera angles and lighting were changed to evaluate the indication. This indication, surface irregularities, did not indicate that it had any depth. During the Ultrasonic examination of the access hole cover, no indications were recorded. The only Ultrasonic reflectors that were recorded was inside geometry.</p> <p>Note made by M. Stamm, GE-NE, Project Manager, Level III</p> <p><i>Michael Stamm</i> LV III 5/24/95</p>			
SUMMARY BY <i>Paul Johnson</i> III 5-13-95 GE REVIEW <i>Michael Stamm</i> III 5/24/95		REVIEWED BY <i>Bruce Phipps</i> 5-24-95 DATE <i>BEG III</i>	
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APRIL 25, 1995

Boston Edison Company
Pilgrim Nuclear Power Station
Plymouth MA 02360

SUBJECT: ULTRASONIC EXAMINATION - SHROUD HEAD HOLD DOWN BOLTING
PILGRIM NUCLEAR POWER STATION

SUMMARY

During Pilgrim Nuclear Power Station Refueling Outage (PNPS) number ten, General Electric Nuclear Energy (GENE) examination personnel performed an ultrasonic (UT) examination on all 48 shroud head hold down bolts attached to the steam separator for indications of cracking. Of the 48 bolts examined, no indications of cracking were detected.

INTRODUCTION

Over the years, cracking has been detected in the shroud head hold down bolting associated with Boiling Water Reactors (BWR). The cracking in these bolts (BWR 4's and earlier) has been confined to a creviced region created by a 304 stainless steel ring welded to an alloy 600 series inconel shaft. Typically, this cracking is IGSCC in nature and is located approximately 9.5 inches up from the bottom end of the shaft.

DISCUSSION

The steam separator, because of radiation activation, and contamination, is stored underwater (storage pool) for shielding purposes when removed from the reactor pressure vessel. To examine the shroud head hold down bolting attached to the steam separator remote ultrasonic techniques (UT) are used. The examination of the 48 shroud hold down bolts were completed, using a movable pick located over the equipment storage pool and the steam separator. The UT fixture by design is shaped like a shoe and is attached to 30 feet of one inch diameter aluminum poles. The UT fixture with an ultrasonic transducer mounted on its bottom end, looking up, is slipped over the bottom end of the bolt, an air cylinder is then actuated, locking the UT fixture to the bolt to be examined. Bolt interrogation is then commenced, by ultrasonic test instrumentation.

PROCEDURE USED

GE Nuclear Energy Test Procedure UT-PIL-501V1 Rev. 0, "UT Procedure For Remote Examination of Shroud Head Hold Down Bolting" (PNPS Temporary Procedure No. TP95-082)

EXAMINATION PERSONNEL

M. Stamm Level III
J. Gebhart Level I
R. Sheridan Level I

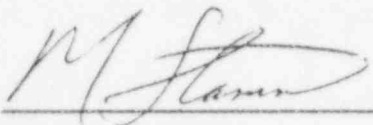
EQUIPMENT

1. Special UT fixture (patented) for shroud head hold down bolts.
2. Staveley Sonic 136 ultrasonic instrument.
3. KB-Aerotech 0.5 inch. flat focus, immersion, 2.25 MHz UT transducer
4. 600 series Inconel calibration reference standard containing a 5% of volume EDM notch. This reference block is used to calibrate the test system.
5. Water and Ultra-Gel used as couplant.

TEST RESULTS

All 48 shroud head hold down bolts attached to the PNPS steam separator were examined ultrasonically for indications of cracking. No indications of cracking were detected in any of the 48 bolts examined.

All data and supporting documents pertaining to these examinations are included as attachments to this report.



UT Level III, GE-Nuclear Energy

SECTION 2.0

As required by the Provisions of the ASME Code Rules

[illegible]

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (back)

8. Examination Dates 5-13-93 to 6-4-95 9. Inspection Interval from 12-10-82 to 6-30-95

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

11. Abstract of Conditions Noted. See ISI Summary Report

12. Abstract of Corrective Measures Recommended and Taken
See ISI Summary Report and NIS-2 Forms

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 8/10 19 95 Signed Boston Edison By L. M. Farrelly
Owner QA Manager

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of MASS and employed by FACTORY MUTUAL of ROXBURY, MA have inspected the components described in this Owners' Data Report during the period 5-13-93 to 6-4-95 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 8-10 19 95 Commissions MA 1420
Inspector's Signature [Signature] National Board, State, Province and No.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Co. Date 4-11-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19501125
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System SSW

5. (a) Applicable Construction Code B31.1 1967 Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
29-HO-39A				MK 64		New	No
29-HO-3930A				MK 64		New	No

7. Description of Work * See Remarks

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test

Other ☐ Pressure psi Test Temp °F

* 'A' side only implemented on FRN 85-28-18. FRN remains open for 'B' side.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks * Add new valves and piping per FRN 85-28-18. * This was added to provide
Applicable Manufacturer's Data Reports to be attached
connection point for the residual chloride monitoring sys.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date

Signed R. Schifano QC II Date 8/8 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
 Province of MASS and employed by Factory Mutual System of
Norwood, Massachusetts have inspected the components described in this Owner's Report
 during the period 5-13-93 to 6-4-95, 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.

R. Schifano Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-11 19 95

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

1. Owner Boston Edison Co. Date 2-28-95
 Name
 800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
 600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401192
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
 Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III 1968 Edition, Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
RV-203-3A	Target Rock	Pilot from #1040 to #1208			68	Replacement	Yes

7. Description of Work see remarks

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test at flange in accordance with plant procedures VT-2.

IWB 5000 Other ☐ Pressure _____ psi Test Temp. _____ °F

The safety relief valve set pressure is calibrated by the vendor. No additional testing is required.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Installed spare pilot assembly in RV-203-3A and replaced bolting/nuts.
Applicable Manufacturer's Data Reports to be attached
Completed VT-1 for Bolting.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date

Signed [Signature] QC DM Date 8/8 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS. and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-13-93 to 6-11-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-11-95

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Co. Date 9-22-94
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19302605
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System RCIC

ANSI

5. (a) Applicable Construction Code B31.1 1967 Edition, Addenda Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
MO-1301-17	Velan				68	Repair	No

7. Description of Work Machined the ID area of body bore and installed new pressure seal gasket.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A
 Certificate of Authorization No. _____ N/A Expiration Date _____
 Signed R. Schifano QC PM Date 8/8 19 95
 Owner or Owner's Designee, Title _____

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS. and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-13-93 to 6-4-95 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.

R. Schifano Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-11 1995

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

1. Owner Boston Edison Co. Date 2-9-95
Name
800 Boylston Street, Boston, MA Sheet 1 of 1
Address
2. Plant Pilgrim Nuclear Power Station Unit #1
Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401198
Address Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
Address
4. Identification of System Main Steam System #01
USAS/ANSI
5. (a) Applicable Construction Code B31.1 1967 Edition, Addenda Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
RV-203-3D	Target Rock	Pilot from #1208 to #1054			68	Replacement	Yes
		main from #77 to #08					

7. Description of Work see remarks
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test at flange in accordance with plant procedures VT-2.
Other ☐ Pressure _____ psi Test Temp. _____ °F
VT-2 leak check of valve body and mechanical joint.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Installed spare SRV pilot. Replaced body bolting/nuts, completed VT-1.
Applicable Manufacturer's Data Reports to be attached

Note: SRV set pressures are calibrated by the vendor for Tech. Specs. No additional
testing is required.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date
 Signed A. Schifano RCDM Date 8/8 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
 Province of MASS and employed by Factory Mutual System of
Norwood, Massachusetts have inspected the components described in this Owner's Report
 during the period 5-13-93 to 6-4-93 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.

J. S. Mar... .. Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-11-95

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Co. Date 2-9-95
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401196
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System Main Steam System #01

USAS/ANSI

5. (a) Applicable Construction Code B31.1 1967 Edition, Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements, 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
RV-203-3C	Target Rock	Pilot from #1046 to #1049			68	Replacement	Yes

7. Description of Work see remarks

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test at flange in accordance with plant procedures VT-2.

Other ☐ Pressure _____ psi Test Temp. _____ °F

VT-2 leak check of valve body and mechanical joint.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Installed spare SRV pilot. Replaced body bolting/nuts, completed VT-1.
Applicable Manufacturer's Data Reports to be attached

Note: SRV set pressures are calibrated by the vendor for Tech. Specs. No additional
testing is required.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed Al Schuf QC DM Date 8/8 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS. and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-13-93 to 6-4-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature MA 1420
 Commissions National Board, State, Province, and Endorsements

Date 8-11 19 95

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

1. Owner Boston Edison Co. Date 2-9-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19202346
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System Main Steam System #01
USAS/ANSI
 5. (a) Applicable Construction Code B31.1 1967 Edition, Addenda Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
RV-203-4B	Target Rock	body was # BK 6309	<u> </u>	<u> </u>	68	Replacement	Yes
		to # BK 6262					

7. Description of Work Install spare body RV-203-4B. Replaced bolting/nuts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test at flange joints in accordance with plant procedures VT-2.

Other ☐ Pressure _____ psi Test Temp. _____ °F

VT-2 leak check of valve body and mechanical joint.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____
Applicable Manufacturer's Data Reports to be attached

Note: SRV set pressures are calibrated by the vendor for Tech. Specs. No additional testing is required.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A

Certificate of Authorization No. _____ N/A Expiration Date _____

Signed Q. Schip QCOM Date 8/8 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS. and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-13-93 to 6-4-95, 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.

P. S. Hagan Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8/11 19 95

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

1. Owner Boston Edison Co. Date 2-9-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401201
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System Main Steam System #01
USAS/ANSI
 5. (a) Applicable Construction Code B31.1 1967 Edition Addenda Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
RV-203-4A	Target Rock	body #6302 was not changed out			68	Replacement	Yes

7. Description of Work Replaced bolting/nuts
 8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test at flange joints in accordance with plant procedures VT-2.
 Other ☐ Pressure _____ psi Test Temp _____ °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Data Reports to be attached

Note: SRV set pressures are calibrated by the vendor for Tech. Specs. No additional testing is required.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A

Certificate of Authorization No. _____ N/A Expiration Date _____

Signed R. Schaefer Owner Date 8/8 19 95
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS. and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-13-93 to 6-4-95 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.

R. Schaefer Commissions MA 1420
Inspector's Signature National Board, State, Province, and Endorsements

Date 8/11/95

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

1. Owner Boston Edison Co. Date 3-21-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
 3. Work Performed by Boston Edison Company Repair Organization P.O. No. Job No. etc.
 Name Type Code Symbol Stamp N/A
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System HPCI

5. (a) Applicable Construction Code ASME III 1989 Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
MO-301-3	Ring-O				95	Replace	Yes
Piping				10" line ffrom valve to HPCI turbine	95	Replace	No

7. Description of Work Replace Valve & Piping

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure ≈ 1000 psi Test Temp. ≈ 560 °F

NO Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A _____

Certificate of Authorization No. _____ N/A _____ Expiration Date _____

Signed Q. Schmitt QCDM Date 8/17 19 95
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-21-95 to 6-4-95 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.

V. S. [Signature] Commissions MA 1420
Inspector's Signature National Board, State, Province, and Endorsements

Date 8-17 19 95

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

1. Owner Boston Edison Co. Date 2-9-95
 Name
800 Boylston Street, Boston, MA
 Address
 Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401194
 Address
 Repair Organization P.O. No. Job No. etc.

3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Main Steam System #01
 USAS/ANSI

5. (a) Applicable Construction Code B31.1 1967 Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
RV-203-38	Target Rock	Pilot from #1048 to #1025			68	Replacement	Yes

7. Description of Work see remarks

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ inservice leak test at flange in accordance with plant procedures VT-2.

Other ☐ Pressure _____ psi Test Temp. _____ °F

VT-2 leak check of valve body and mechanical joint.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Installed spare SRV pilot. Replace body bolting/nuts, completed VT-1.
Applicable Manufacturer's Data Reports to be attached

Note: SRV set pressures are calibrated by the vendor for Tech. Specs. No additional
testing is required.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A _____

Certificate of Authorization No. _____ N/A _____ Expiration Date _____

Signed Q. Schifano QC DM Date 8/8/ 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-13-93 to 6-4-95 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.

JB. Aguirre Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-11-95

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

1. Owner Boston Edison Co. Date 3-20-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# P9500188
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System HPCI Steam

5. (a) Applicable Construction Code B31.1 1967 Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Steam Line Rupture Disc.	BS&B Safety Systems	—	—	—	—	Replace	No

7. Description of Work See remarks

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Inservice Leak Test ☒

Other ☒ Pressure psi Test Temp °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replacement Bolting/nuts associated with the installation of the HPCI exhaust
Applicable Manufacturer's Data Reports to be attached
Rupture Disc.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date
 Signed Q. Schifone QC DM Date 8/17 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-20-95 to 6-4-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-17- 19 95

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

1. Owner Boston Edison Co. Date 12-1-94
 Name
 800 Boylston Street, Boston, MA
 Address
2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
 600 Rocky Hill Road, Plymouth, MA 02360 MR No. 19302219-7
 Address Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
 Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address
4. Identification of System Control Rod Drive Units
5. (a) Applicable Construction Code ASME sec. III 1967 Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Control Rod Drive Unit	Rebuild by BECo	*see remarks	—	—	95	Rebuild	Yes

7. Description of Work Rebuild Control Rod Drive Unit replaced in RFO#10.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure _____ psi Test Temp _____ °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks An in service inspection shall be performed of the assembled CRD Unit
Applicable Manufacturer's Data Reports to be attached
when used in the vessel with no visible leaks allowed.

All replacement parts have been reviewed and certified to assure that the appropriate
parts are being utilized. Also all Sect. XI replacement parts have been procured and
documented with appropriate MRIR #, also all applicable testing (CRD units) have been
completed in accordance with procedure 3.M.4-1.1.

* Applicable serial number to be noted in this box for the control rod drive
unit that is being rebuilt for the appropriate MWI.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed A. Schifano QC DM Date 8/17 1995
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Norwood, Massachusetts and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 12-1-94 to 6-4-95 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.

A. Schifano Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-17-1995

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

1. Owner Boston Edison Co. Date 4-20-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19500995
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Rx. Recirc. System

5. (a) Applicable Construction Code ASME III 1992 Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
2-HO-261-64B	Rockwell	—	—	—	86	Replace	No

7. Description of Work Replace above per FRN 95-03-72.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ In Service Leak Test ☒

☒ Other ☒ Pressure _____ psi Test Temp _____ °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WORK COMPLETED PER MR/MWP
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date 8/17

Signed D. Schifano QC DM Date 8/17 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-20-95 to 6-4-95 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.

D. Schifano Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-17 19 95

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

1. Owner Boston Edison Co. Date 8-17-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
MR# 19401360
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System HPCI

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
H23-1-80	Bergen Paterson	—	N/A	—	—	Repair	N/A
H23-1-81	Bergen Paterson	—	N/A	—	—	Replacement	N/A
H23-1-82	Bergen Paterson	—	N/A	—	—	Replacement	N/A

7. Description of Work 1) Re-set spring can; 2) & 3) replaced spring cans.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

N/A

Other ☐ Pressure psi Test Temp. °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A

Certificate of Authorization No. _____ N/A Expiration Date _____

Signed Ol Schep QC DM Date 8/18 19 95
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period _____ to 8-18-95 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.

JS-Mark _____ Commissions MA 1420
Inspector's Signature National Board, State, Province, and Endorsements

Date 8-18-95

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

1. Owner Boston Edison Co. Date 2-9-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401201
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Main Steam System # 01

5. (a) Applicable Construction Code USAS/ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
RV-203-4A	Target Rock	body #6302 was not changed out.	<u>—</u>	<u>—</u>	68	replacement	yes

7. Description of Work Replaced bolting/nuts. *See remarks.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Inservice leak test at flange joints ☒ in accordance with paint procedure.

* Other ☐ Pressure psi Test Temp. °F
 other: VT-2 leak check of valve body and meachancial joint.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks *Note: SRV set pressures are calibrated by the vendor per
Applicable Manufacturer's Data Reports to be attached
Tech Spec. No additional testing is required.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date

Signed [Signature] QCAM Date 8/18 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2-9-95 to 6-4-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-18 19 95

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

1. Owner Boston Edison Co. Date 2-10-95
 Name
800 Boylston Street, Boston, MA
 Address
 Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401367
 Address Repair Organization P.O. No. Job No. etc.

3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System RHR

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
MO-1001-34A	Anchor Darling	—	—	—	69	REPLACE	No

7. Description of Work Installation of pressure relief valve/piping of use bonnet cavity on MO-1001-34A.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Per PDC 93-10K, perform an Inservice ☒ leak test at normal operating pressure
 *Other ☒ Pressure psi Test Temp °F to verify no visible leaks.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replacement work completed PER MR/MWP.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A

Certificate of Authorization No. _____ N/A Expiration Date _____

Signed D. Schifano GCDM Date 8/18 19 95
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2-10-95 to 6-4-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
Inspector's Signature National Board, State, Province, and Endorsements

Date 8-18-95

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

1. Owner Boston Edison Co. Date 1-25-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19403488
 Address
 3. Work Performed by Boston Edison Company Repair Organization P.O. No. Job No. etc.
 Name Type Code Symbol Stamp N/A
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System Salt Service Water

5. (a) Applicable Construction Code B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
FE-6240 Bolting	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	Replace	No

7. Description of Work Replace Flange Bolting as required

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ In Service Leak Test at flange connection. ☒
 Acceptance is no leak.
☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WORK COMPLETED PER MR/MWP.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A _____

Certificate of Authorization No. _____ N/A _____ Expiration Date _____

Signed Q. Schifano QCOW Date 8/18 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1-25-95 to 6-4-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-18-95

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

1. Owner Boston Edison Co. Date 4-20-95
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19500995
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System Rx. Recirc. System

5. (a) Applicable Construction Code ASME III 1992 Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacemement	ASME CODE Stamped (Yes or No)
2-HO-261-64B	Rockwell	—	—	—	86	Replace	No

7. Description of Work Replace above per FRN 95-03-72.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ In Service Leak Test *

*Other ☐ Pressure _____ psi Test Temp. _____ °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WORK COMPLETED PER MR/MWP.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A

Certificate of Authorization No. _____ N/A Expiration Date _____

Signed Q Schifano QCIM Date 8/8 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-20-95 to 6-4-95, 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.

VS by MR _____ Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-18 19 95

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

1. Owner Boston Edison Co. Date 9-9-94
Name
800 Boylston Street, Boston, MA
Address
Sheet 1 of 1

2. Plant Pilgirm Nuclear Power Station Unit #1
Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401287
Address
Repair Organization P.O. No. Job No. etc.

3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
Address
Expiration Date N/A

4. Identification of System A Recirc Pump

5. (a) Applicable Construction Code USAS B31.1 1967 Edition, Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Snubber SS-2-30-05	Bergen Pateson	400	—	—	—	Replace	No

7. Description of Work Remove and replace snubber per MWP 19401287-1.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

* Other ☐ Pressure _____ psi Test Temp. _____ °F
* Pre-Installation

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information on items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WORK COMPLETED PER MR/MWP
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date

Signed R. Sch QC DM Date 8/18 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-9-95 to 6-4-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-18-95

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

1. Owner Boston Edison Co. Date 9-9-94
 Name
 800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
 600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401329
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
 Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System B Recirc Loop

5. (a) Applicable Construction Code USAS B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Snubber SS-2-20-04	Bergen Pateson	414	—	—	—	Replace	No

7. Description of Work Remove and replace snubber per MWP 19401329-1.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

*Other ☐ Pressure _____ psi Test Temp. _____ °F

*Pre-Installation

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WORK COMPLETED PER MR/MWP
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A

Certificate of Authorization No. _____ N/A Expiration Date _____

Signed Q. Schifano QCNM Date 8/8 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
 Province of MASS and employed by Factory Mutual System of
Norwood, Massachusetts have inspected the components described in this Owner's Report
 during the period 9-9-94 to 6-4-95 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.

VB. Hume Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-18 19 95

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

1. Owner Boston Edison Co. Date 9-9-94
800 Boylston Street, Boston, MA
 Name Address Sheet 1 of 1
 2. Plant Pilgirm Nuclear Power Station Unit #1
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401333
 Name Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System Core Spray

5. (a) Applicable Construction Code USAS B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Snubber SS-14-3-03	Bergen Paterson	408	—	—	—	Replace	No

7. Description of Work Remove and replace snubber per MWP 19401333-1.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

* Other ☐ Pressure _____ psi Test Temp. _____ °F

* Pre-Installation

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/4 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A

Certificate of Authorization No. _____ N/A Expiration Date _____

Signed Schulz QC DM Date 8/13 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
 Province of MASS and employed by Factory Mutual System of
Norwood, Massachusetts have inspected the components described in this Owner's Report
 during the period 9-9-94 to 6-4-95 and state that to the
 best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's
 Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations
 and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any
 manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-18 19 95

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

1. Owner Boston Edison Co. Date 3-9-95
 Name 800 Boylston Street, Boston, MA
 Address 800 Boylston Street, Boston, MA Sheet 1 of 2
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name 600 Rocky Hill Road, Plymouth, MA 02360
 Address 600 Rocky Hill Road, Plymouth, MA 02360 See List Page 2 of 2 SEE 632 R-0
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by ABB Type Code Symbol Stamp N/A
 Name Windsor, CT Authorization No. N/A
 Address Windsor, CT Expiration Date N/A

4. Identification of System Control Rod Drive

5. (a) Applicable Construction Code ASME III 1968 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
CRD Housing Bolting	—	—	—	See List Page 2 of 2 for drive numbers <u>SEE 632 R/O</u>	—	replaced	No

7. Description of Work Replaced housing cap screws per S.E.E. 632 Rev. 0.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Inservice Leak Check ☒

☒ Other ☒ Pressure — psi Test Temp. — °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A _____
 Certificate of Authorization No. _____ N/A _____ Expiration Date _____
 Signed Q. Schre QCDH Date 8/17 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-9-95 to 8-4-95 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.

Q. Schre Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-17 19 95

NIS-2 ATTACHMENT

page 2 of 2

RFO #10 CONTROL ROD DRIVE CHANGEOUTS WITH BOLTING (CAP
SCREWS) REPLACEMENT

CRD No.

MAINTENANCE REQUEST No.

46-31	19401389
14-47	19203608
50-39	19303833
06-31	19203729
10-23	19401344
02-15	19303646
06-19	19303830
30-23	19500628
22-35	19500629
38-15	19500630
10-07	19500631
14-23	19500632
42-07	19500633
46-35	19500634

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Co. Date 5-17-95
 Name
600 Rocky Hill Road, Plymouth MA 02360 Sheet 1 of 1 ~~2 w/attachment~~
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 P.O. # LSP001198 MR# 19403427
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by General Electric Nuclear Energy Type Code Symbol Stamp N/A
 Name Authorization No. N/A
275 Curtner Ave, San Jose, CA 95125 Expiration Date N/A
 Address

4. Identification of System Reactor Pressure Vessel
ASME B&PV
 5. (a) Applicable Construction Code Code Sec. 111, 1965 Edition, thru Summer 66 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1990W80 (See Attached Information)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Reactor Pressure Vessel	Combustion Engineering	CE66107	20763	contract 21466	1967	see attached	Yes
Reactor Core Shroud	sun shipbuilding	N/A	N/A	contract 42175	1968	replacement see attached	No
Shroud Stabilizers	GE Nuclear Energy	Individual Parts Only	N/A	DRF B11-00617	1995	new components	No

7. Description of Work Install four sets of axial and radially acting shroud stabilizers.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 N/A Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Provided permanent modification for the reactor vessel core shroud.
Applicable Manufacturer's Data Reports to be attached
Modification consisted of four sets of axial and radially acting shroud stabilizers
installed 90 degrees apart around perimeter of shroud in the jet pump annulus,
per BECo PDC 94-43 and evaluation report per IWA-7220.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____
 Certificate of Authorization No. _____ Expiration Date _____
 Signed QC DM Date 8/4, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
 Province of MASS and employed by Factory Mutual System of
Norwood, Mass. have inspected the components described in this Owner's Report
 during the period 5-17-95 to 8-1-95, 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.

US Ryan Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4- 19 95

(12/82)

REF

- Attachments: 1) PDC94-43 evaluation report per IWA-7220 (3 pages)
 2) PDC 94-43 narraive (22 pages)

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

1. Owner Boston Edison Co. Date 07-14-93
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR#'s 19301996, 0992, 1994, 0800, 0099
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System Salt Service Water

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
MO-3813 Butterfly Valve	Pratt	—	—	MR#957	—	replace	No
MO-3800 Butterfly Valve	Pratt	Mono Flange II,CS	—	MK#957	93	replace	No
MO-3808 Butterfly Valve	Pratt	—	—	MK#957	93	replace	No
29-HO-3837 Butterfly Valve	Pratt	Mono Flange II,CS	—	MK#956K		replace	No
29-HO-3828 Butterfly Valve	Pratt	Mono Flange II, CS	—	MK956K	92	replace	No

7. Description of Work See Remarks

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice Leak Test.

Other ☐ Pressure _____ psi Test Temp _____ °F

Valves ~~are to be~~ hydrotested by the mfg. vendor & supply C.of C.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replaced valves per the MR's. Also, replaced associated bolts and nuts. Replacement
Applicable Manufacturer's Data Reports to be attached
material is "Q" and is recorded in the MR's.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed RSchifano Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
 Province of MASS and employed by Factory Mutual System of
Norwood, Massachusetts have inspected the components described in this Owner's Report
 during the period 7-14-95 to 8-1-95 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.

W. J. G. A. Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 9-9-94
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
2. Plant Pilgirm Nuclear Power Station Unit #1
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401292
 Address Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A
4. Identification of System Feedwater
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-6-10-03 Snubber	Bergen Paterson	440	—	—	—	replace	No

7. Description of Work Remove and replace snubber per MWVP#19401292-1
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure psi Test Temp. °F
 Pre-installation test.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replacement completed per MR #19401292.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed R. Schaefer QC DM Date 8/4 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-9-94 to 8-1-95 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.

US Hyatt Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 9-13-94
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19101281, 1286
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ASME III 1980 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
PSV-1001-22B Safety Valve	Anderson Greenwood	—	—	—	92	replace	Yes
PSV-8006 Safety Valve	Anderson Greenwood	—	—	—	92	replace	Yes
PSV-8007 Safety Valve	Anderson Greenwood	—	—	—	92	replace	Yes

7. Description of Work Replace PSV's (one for one replacement) and fabricate a new inlet pipe to facilitate installation.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure 250 psig psi Test Temp AMB °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Notes: 1. Performed an in-service leak test at flange connection.
Applicable Manufacturer's Data Reports to be attached
2. The replacement relief valve is tested and pressure set at the manufactures facility,
relief set pressure 200 psig. 3. The modified inlet suction piping was
hydrostatic tested at 250 psig for 10 minutes.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date _____
 Signed R. Schiller QC DM Date 8/4 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-13-94 to 8-1-95 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.

U.S. Ryan Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 9-9-94
800 Boylston Street, Boston, MA
 Name Address Sheet 1 of 1
 2. Plant Pilgrim Nuclear Power Station Unit #1
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401246
 Name Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System Core Spray

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition — Addenda — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-14-3-02 Snubber	Pacific Scientific	462			92	replacement	No

7. Description of Work Remove & replace snubber per MWP#19401246-1

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure _____ psi Test Temp _____ °F
 Pre-installation test

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replacement completed per MR# 19401246.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed A. Schifano QCDM Date 8/4 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-9-94 to 8-1-95, 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.

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U.S. Ryan Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 04-11-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
MR No. 19501162
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Feedwater
 5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
H6 1-SS2A Snubber						repair	No
Boil w/stud						replaced	No

7. Description of Work Modify H6-1-552A per FRN#95-01-25&30.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure psi Test Temp °F
 Visual of Welds

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Per FRN #95-01-25 & 30. Modified/Repaired
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date

Signed D. Schipke QCUM Date 8/4 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-11-95 to 8-1-95 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.

D. Schipke Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 3-23-95
800 Boylston Street, Boston, MA
 Address 800 Boylston Street, Boston, MA Sheet 1 of 1
 2. Plant Pilgrim Nuclear Power Station Unit #1
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401362
 Address 600 Rocky Hill Road, Plymouth, MA 02360 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by General Electric Company Type Code Symbol Stamp N/A
640 Freedom Business Center, King of Prussia, PA 19406 Authorization No. N/A
 Address 640 Freedom Business Center, King of Prussia, PA 19406 Expiration Date N/A
 4. Identification of System High Pressure Coolant Injection

5. (a) Applicable Construction Code ASME III 1992 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
MO-2301-5 Gate Valve	Ring-O	—	—	—	95	replace	Yes
							No

7. Description of Work Replace MO-2301-5 with new Ring-O valve

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Code Case #N-416-1

Other ☒ Pressure psi Test Temp AMBT °F
 VT-2 during Class #1 Hydro

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replacement of MO-2301-5 completed per MR#19401362.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed [Signature] QC DM Date 8/4 19 95
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-23-95 to 8-1-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA-1420
Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 8-15-94
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19402113
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
H10-1-116 Support						replace	No

7. Description of Work Replace support per FRN #93-10G-02 & 08

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure — psi Test Temp — °F
 Pre-installation test

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replaced support per MR #19402113.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed Q. S. Schifano QC D M Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 8-15-94 to 8-1-95, 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.

V. S. Rye Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4 1995

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

1. Owner Boston Edison Co. Date 04-25-95
 Name 800 Boylston Street, Boston, MA
 Address 800 Boylston Street, Boston, MA Sheet 1 of 1
2. Plant Pilgrim Nuclear Power Station Unit #1
 Name 600 Rocky Hill Road, Plymouth, MA 02360 MR No. 19501278
 Address 600 Rocky Hill Road, Plymouth, MA 02360 Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Rocky Hill Road, Plymouth, MA Expiration Date N/A
4. Identification of System HPCI
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Replace HPCI tee with pipe	—	—	—	—	95	replace	No

7. Description of Work Replace the HPCI Steam Supply Tee from old aux. boiler attachment with straight pipe.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Code Case #N-416-1
 Other ☒ Pressure psi Test Temp °F
Inservice leak test at normal system operating pressure.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replacement completed per MR #19501278
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed R. Schifone QC DM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-25-95 to 8-1-95 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.

W. Schifone Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 04-26-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
MR No. 19302083
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Reactor Water Cleanup

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacemement	ASME CODE Stamped (Yes or No)
Replace portions of RWCU Piping	—	—	—	—	95	replace	No

7. Description of Work Replace sections of RWCU Piping per PDC #92-33

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Code Case #N-416-1 Class 1
 Hydro PNPS #2.1.8.5

Other ☒ Pressure CL-1 psi Test Temp — °F
Rx-Hydro

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks RWCU pipe replacement completed per PDC#92-33 and MR#19302083.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date

Signed R Schifone QCDM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-26-95 to 8-1-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 09-07-94
 Name
 800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Sheet 1 of 1
 Name
 600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
 MR No. 19400753
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
 Rocky Hill Road, Plymouth, MA Authorization i.e. N/A
 Address
 Expiration Date N/A
4. Identification of System Core Spray Valve #MO-1400-25B
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacemement	ASME CODE Stamped (Yes or No)
MO-1400-25B Flexible Wedge	Walworth Valve	—	—	—	—	repair	No

7. Description of Work Repair flexible wedge.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice Leak test
 Other ☐ Pressure psi Test Temp °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Completed per evaluation form and MR#19400753.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed R. Schifano QC D M Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-7-94 to 8-1-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Co. Date 04-20-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
MR No. 19500995
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Reactor Recirculation

5. (a) Applicable Construction Code ASME III 1992 Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
2-HO-261-64B VALVE	Rockwell	—	—	—	86	replace	No

7. Description of Work Per FRN #95-03-72

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Completed per PDC#95-03-72 and MR #19500995. VALVE REPLACEMENT
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date

Signed P. Schifano QC DM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-20-95 to 8-1-95 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.

P. Schifano Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 02-27-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR No. 19401364
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Core Spray Valve #MO-1400-25A

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
MO-1400-25A VALVE	Walworth Crane	—	—	—	—	repair	No

7. Description of Work Per PDC #94-18H

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks PER PDC #94-18H modify valve #MO-1400-25A drill disc and add smart stem.
Applicable Manufacturer's Data Reports to be attached
Completed and documented in MR#19401364.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date
 Signed R. Schifone QC DM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2-27-95 to 8-1-95, 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.

MS. H. K. Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 04-06-95
 Name
800 Boylston Street, Boston, MA
 Address
 Sheet 1 of 1

2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR No. 19501140 and #19501139
 Address
 Repair Organization P.O. No. Job No. etc.

3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System RCIC

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-13-10-05 Snubber	Bergen Paterson	—	—	—	—	replace	No
SS-13-10-06 Snubber	Bergen Paterson	—	—	—	—	replace	No

7. Description of Work Remove and replace per MR#19501140 & 19501139

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure psi Test Temp °F
 Pre-installation test

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Tested, removed, and replaced per MR# 19501140 and #19501139.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date ←
 Signed R. Schifone QC DM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-6-95 to 8-1-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-7-95

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

1. Owner Boston Edison Co. Date 04-21-95
800 Boylston Street, Boston, MA
 Name Address Sheet 1 of 1
 2. Plant Pilgrim Nuclear Power Station Unit #1
600 Rocky Hill Road, Plymouth, MA 02360 MR # 19201723
 Name Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System TBCCW

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
E-122A Heat Exchanger	EFCO	<u>—</u>	<u>—</u>	<u>—</u>	67	repair	Yes

7. Description of Work Performed repairs to the partition plates to channel and performed a hydro-static test of the channel.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Ref. NCR's 95-113 & 116
 Other ☒ Pressure 165 psig psi Test Temp. AMB °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Repaired the heat exchanger partition plates per the requirements of the maintenance
Applicable Manufacturer's Data Reports to be attached
request.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A _____

Certificate of Authorization No. _____ N/A _____ Expiration Date _____

Signed R Schifone QC DM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by Factory Mutual System of _____
Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-21-95 to 8-1-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 11-08-94
 Name 800 Boylston Street, Boston, MA
 Address 600 Rocky Hill Road, Plymouth, MA 02360
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name 600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address 600 Rocky Hill Road, Plymouth, MA 02360 MR # 19402948
 3. Work Performed by Boston Edison Company Repair Organization P.O. No. Job No. etc.
 Name Rocky Hill Road, Plymouth, MA Type Code Symbol Stamp N/A
 Address Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Expiration Date N/A

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ASME III 1989 Edition, 80 Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
MO-1001-348 VALVE	Anchor Valve			Model #1035-5	70	repair	Yes

7. Description of Work Per PDC #93-10G and FRN's (SEE REMARKS)

8. Tests Conducted: Hydraulic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice Leak Test
 Other ☐ Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Installed a new stem and larger yoke on valve.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date
 Signed R. Schifano QC DM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11-8-94 to 8-1-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Co. Date 03-23-95
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR # 19401361
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by General Electirc Company Type Code Symbol Stamp N/A
 Name
600 Freedom Business Center, King of Prussia, PA 19406 Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Reactor Water Clean Up

5. (a) Applicable Construction Code ASME III 1992 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
MO-1201-5 Gate Valve	Ring-O	—	—	—	95	replace	Yes
MO-1201-2 Gate Valve	Ring-O	—	—	—	95	replace	Yes

7. Description of Work Replaced MO1201-2 & MO1201-5 with new ring-o valves.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Code Case #N-498-1
 Other ☒ Pressure — psi Test Temp — °F VT-2 during Class #1 Hydro

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Both valves were replaced general electric per MR 19401361.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date
 Signed R. S. Schifano QC DM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-3-95 to 8-1-95, 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.

R. S. Schifano Commissions MA-4420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Co. Date 06-29-95
 Name 800 Boylston Street, Boston, MA
 Address 600 Rocky Hill Road, Plymouth, MA 02360
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name MR # 19302417
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System Main Steam

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
H-1-1-HC1 Support	—	—	—	—	—	repair	No
H-1-1-HD1 Support	—	—	—	—	—	repair	No

7. Description of Work Repair supports per FRN #94-01-44

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure — psi Test Temp. — °F
PRE INSTALLATION TEST

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Repairs completed per MR and FRN.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed R. Schifano QC DM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6-29-95 to 8-1-95 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.

R. Schifano Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 09-09-94
Name
800 Boylston Street, Boston, MA
Address
Sheet 1 of 1
2. Plant Pilgrim Nuclear Power Station Unit #1
Name
600 Rocky Hill Road, Plymouth, MA 02360 MR # 19401235, 19501136
Address
Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
Address
Expiration Date N/A
4. Identification of System Main Steam
5. (a) Applicable Construction Code ANSI B31.1, 1967 Edition, — Addenda, — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-1-10-02 Snubber	Bergen Paterson	437	—	—	—	replace	No
SS-1-10-19 Snubber	Bergen Paterson	—	—	—	—	replace	No
SS-1-10-26 Snubber	Bergen Paterson	—	—	—	—	replace	No

7. Description of Work Remove and replace snubbers per MR's.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure psi Test Temp °F
Pre-Installation Test

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Completed per required maintenance request.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed Ol Schyn QCOM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-7-94 to 8-1-95, 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.

J. S. Ryan Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 6-29-95
800 Boylston Street, Boston, MA
 Name _____
 Address _____
 2. Plant Pilgirm Nuclear Power Station Unit #1
600 Rocky Hill Road, Plymouth, MA 02360
 Name _____
 Address _____
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address _____ Expiration Date N/A
 Repair Organization P.O. No. Job No. etc. _____
 4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, _____ Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
H10-1-1025 Support	Bergen Paterson	—	—	—		repair	No
H10-1-155 Support	Bergen Paterson	—	—	—	95	replace	No
H10-1-280 Support	Bergen Paterson	—	—	—	95	replace	No
H10-1-120SR Support	—	—	—	—		repair	No
H10-1-SG16 Support	—	—	—	—		repair	No

7. Description of Work See Remarks

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure _____ psi Test Temp. _____ °F
 Pre-installation test

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Modify H10-1-1025 per FRN #94-01-09&56, repair and replace H10-1-155 and
Applicable Manufacturer's Data Reports to be attached
H10-1-280 per FRN#94-18F-01, 08&09, documentation change only for H10-1-120SR
per FRN #95-01-19, repair H10-1-SG16 per FRN #93-01-53, 12 & 34.
Completed per MR#19500423, #19401118, #2447, #2436 and 19301461.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed R. Sch QC DM Date 8/3/95 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6-29-95 to 8-1-95 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.

V. D. G. W. Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 9-9-94
 Name
 800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
 600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401332
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
 Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-10-20-02 Snubber	Bergen Paterson	405	—	—	—	replace	No

7. Description of Work Replace Snubber per MWP#19401332-1

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure psi Test Temp. °F
 Pre-installation test.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replaced snubber per MR #19401332.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed A. Schifano QC DM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-7-94 to 8-1-95 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.

V.S. Hagan Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 5-6-94
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19201160
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ASME Sec. VIII, Div. 1 1986 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1990 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
PSV-1001-44 Safety Valve	Anderson Greenwood	N200014			94	replace	Yes

7. Description of Work Replace relief valve - reused original bolting/nuts

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice Leak test with no visible leaks at the flange connections.

Other ☐ Pressure _____ psi Test Temp _____ °F

Pre-installation test.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks * Valve was hydrostatically tested by the vendor, Anderson Greer wood
Applicable Manufacturer's Data Reports to be attached
in accordance with spec No 5-9065-052, reference MRIR # 94-0 4.

Completed per MR#19201160.

Valve was purchased "Q" from Anderson Greenwood, MRIR# 94-0834.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed A. Sch Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
 Province of MASS and employed by Factory Mutual System
 of 5-6-94 Norwood, Massachusetts have inspected the components
 described in this Owner's Report during the period 5-6-94 to 8-7-95 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.

W. J. [Signature] Commissions MA 1400
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4 19 95

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

1. Owner Boston Edison Co. Date 9-9-94
Name
800 Boylston Street, Boston, MA Sheet 1 of 1
Address
2. Plant Pilgirm Nuclear Power Station Unit #1
Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401237
Address Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
Address

4. Identification of System HPCI

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-23-10-02 Snubber	Bergen Paterson	65				replace	No

7. Description of Work Remove and replace snubber per MR#19401237.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure psi Test Temp °F
Pre-installation Test

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Snubber replaced per MR #19401237.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed R. Schifano QC DM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 8-9-94 to 8-1-95 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.

INS. by [Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4 19 95

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

1. Owner Boston Edison Company Date 9-23-94
Name
800 Boylston St. Boston, MA
Address
 2. Plant Pilgrim Nuclear Power Station Sheet 1 of 1
Name
Rocky Hill Road, Plymouth, MA Unit I
Address Target Rock Corp; P.O. 112250B
 3. Work Performed by Target Rock Corp & Owner Repair Organization P.O. No., Job No., etc. N/A MRIR# 95-1507
Name Type Code Symbol Stamp
Westinghouse Western Service Centre Authorization No. N/A
Address Expiration Date N/A
Main Steam

4. Identification of System _____
 5. (a) Applicable Construction Code ASME IIIC 19 68 Edition, S-70 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 Winter 80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Safety Relief Valve	Target Rock Corp.	s/n Body 180 Cartridge #1054		BECO: RV203-3A	1980	repaired	yes
		Cartridge 1049					
		Body 74					
		and Main Stage s/n 008					

7. Description of Work Pilot seat removal and Weld repaired for new seat. Also studs, bolts and nuts replaced as required.

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks The repaired pilot seat was rebuilt by Target Rock Service Reps
and a certification test was performed by Target Rock to verify name
plate set point. Also replaced body to base studs (#83), bolts (#107)
and nuts (#115). All parts are in kind replacements provided by
Target Rock Corp.

CERTIFICATE OF COMPLIANCE REPAIR AND

We certify that the statements made in the report are correct and this REPAIR AND conforms to the rules of the
 ASME Code, Section XI. REPAIR OR REPLACEMENT

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. Schaefer for FNF QA Manager Date 2/14 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
 of Province of MA and employed by FACTORY MUTUAL SYSTEMS of
NORWOOD, MA have inspected the components described
 in this Owner's Report during the period 9/23/94 to 2-14-95, and state that
 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
 examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
 inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date FEB 14 1995

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Boston Edison Co.</u>	Date <u>4-21-94</u>
Name	
<u>800 Boylston Street, Boston, MA</u>	Sheet <u>1</u> of <u>1</u>
Address	
2. Plant <u>Pilgirm Nuclear Power Station</u>	Unit <u>#1</u>
Name	
<u>600 Rocky Hill Road, Plymouth, MA 02360</u>	<u>MR# 90-29-106</u>
Address	
3. Work Performed by <u>Boston Edison Company</u>	Repair Organization P.O. No. Job No. etc.
Name	Type Code Symbol Stamp <u>N/A</u>
<u>Rocky Hill Road, Plymouth, MA</u>	Authorization No. <u>N/A</u>
Address	Expiration Date <u>N/A</u>

4. Identification of System	Salt Service Water
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5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, 1 Addenda, 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacment	ASME CODE Stamped (Yes or No)
29-CK-3880-E Check Valve	Crane				68	repair	No

7. Description of Work Rebuild valve #29-CK-3880E

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

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks DWG #M117BC5-2 Rev. E3 Documents all upgraded parts use for
Applicable Manufacturer's Data Reports to be attached
valve #29-CK-3880 rebuild. Body to body bolts were changed to

monel; disc is Monel.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date —

Signed R. Schifano GEDM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure vessel Inspectors and the State or
 Province of MASS and employed by Factory Mutual System
 of 4-21-94 Norwood, Massachusetts have inspected the components
 described in this Owner's Report during the period 4-21-94 to 8-1-95, 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.

RS. Schifano Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8.4.19.95

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

1. Owner Boston Edison Co. Date 5-10-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
MR# 19500312
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
Expiration Date N/A

4. Identification of System Salt Service Water

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Flange Conn. D/S of valve 29-HO-3887					95	repair	No

7. Description of Work Repace bolting and nuts on flange D/S of valve 29-HO-3887.

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

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replacement bolts are A-307-Grade-B, replacement.
Applicable Manufacturer's Data Reports to be attached
Nuts are A-563-Grade-A. All material is "Q". Completed per MR#19500312

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed R. Schifano QCIM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-10-95 to 8-1-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1422
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8.4 19 95

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

1. Owner Boston Edison Co. Date 4-1-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19203768
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Feedwater

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, ☒ Addenda, ☒ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Check Valve #62-B	Anchor Carling				68	repair	No

7. Description of Work Replace bonnet bolting/nuts, soft seat, pressure seal gasket and hinge pin bushings.

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

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Completed per MR#19203768. Documented
Applicable Manufacturer's Data Reports to be attached
MRIR#s and stock symbols of material in work package.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed A. Schifano QC DM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-1-95 to 8-1-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 4-13-95
Name
800 Boylston Street, Boston, MA Sheet 1 of 1
Address

2. Plant Pilgirm Nuclear Power Station Unit #1
Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19203902
Address Repair Organization P.O. No. Job No. etc.

3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
Address

4. Identification of System Feedwater

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, ☒ Addenda, ☐ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Check Valve #58A	Anchor Darling	<u> </u>	<u> </u>	<u> </u>	67	repair	No

7. Description of Work Open, inspect & replace soft seats, pressure seal gasket, hinge pin bushing

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

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Opened and inspected valve internal work. Documented replaced internal parts in
Applicable Manufacturer's Data Reports to be attached
MR #19203902

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed Al Schifano QC DM Date 8/3, 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-13-95 to 8-1-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions MA 1420
 Date 8-4-95 National Board, State, Province, and Endorsements

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

1. Owner Boston Edison Co. Date 9-9-94
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
MR# 19401234
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Feedwater

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-6-10-02 Snubber	Bergen Paterson	430	—	—	—	replace	No

7. Description of Work Remove and replace snubber per MWP#19401234-1

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure psi Test Temp °F
 Pre-installation test.

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replaced Snubber per MR #19401234.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A _____

Certificate of Authorization No. _____ N/A _____ Expiration Date _____

Signed Al Schifano QC DM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-2-94 to 8-1-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 2-3-95
Name
800 Boylston Street, Boston, MA
Address
Sheet 1 of 1
2. Plant Pilgirm Nuclear Power Station Unit #1
Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19403473, MR#19403472
Address
Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
Address
Expiration Date N/A
4. Identification of System Salt Service Water
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
29-HO-3842 Butterfly Valve	Pratt	Mono Flange II, CS	<u> </u>	MK#994	94	replace	No
29-HO-3829 Butterfly Valve	Pratt	Mono Flange II, CS	<u> </u>	MK#994	94	replace	No

7. Description of Work Replace valves, bolting & nuts as required.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test.
Other ☒ Pressure psi Test Temp °F
- * Valve ~~to be~~ hydrotested by the mfg. (Pratt) the valve body ~~will be~~ tested to 450 psig for 10 min vendor ~~will~~ supply C of C.
- Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/4 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Valves were replaced with 150 lb wafer type butterfly valves (Mark #994).
Applicable Manufacturer's Data Reports to be attached
The enhanced valves were replaced per FRN's #95-03-06 & #95-03-07.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed [Signature] QC DM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2-3-95 to 8-1-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 07-25-94
Name
800 Boylston Street, Boston, MA
Address
Sheet 1 of 1
2. Plant Pilgirm Nuclear Power Station Unit #1
Name
600 Rocky Hill Road, Plymouth, MA 02360 MR#'s 19401255, 19401254, 19401245, 19401244
Address
Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
Address
Expiration Date N/A
4. Identification of System Main Steam
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, / Addenda, / Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-1-10-06 Snubber	Anchor Darling	475	/	/	/	replace	No
SS-1-10-03 Snubber	Anchor Darling	474	/	/	/	replace	No
SS-1-10-04 Snubber	Bergen Paterson	423	/	/	/	replace	No
SS-1-10-06 Snubber	Bergen Paterson	17	/	✓	✓	replace	No

7. Description of Work Remove and replace snubbers per MR's.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
Pre-Installation Test

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Snubbers were a one for one replacement. All other materials were used.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed R. S. Schifone Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-25-94 to 8-1-95 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.

R. S. Schifone Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4-95

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

1. Owner Boston Edison Co. Date 04-18-95
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR No. 19501029
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

4. Identification of System Reactor Vessel Vent
 5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
4-HO-49 VALVE	Hancock	—	—	—	68	repair	No

7. Description of Work Replaced valve
if required, machine bonnet gasket or bolting surface and replace bonnet bolting.
 8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice Leak Test
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Completed per MR#19501029 and FRN 95-3-82
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A _____

Certificate of Authorization No. _____ N/A _____ Expiration Date _____

Signed R. Schifone 8/3/95 QC DM Date 8/3/95 19 95
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-18-95 to 8-1-95 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.

V. Ryan _____ Commissions MA-1420
Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 09-09-94
 Name 800 Boylston Street, Boston, MA
 Address 800 Boylston Street, Boston, MA Sheet 1 of 1
2. Plant Pilgirm Nuclear Power Station Unit #1
 Name 600 Rocky Hill Road, Plymouth, MA 02360 MR#'s 19401236, 19401287, 19401331, 19401330
 Address 600 Rocky Hill Road, Plymouth, MA 02360 Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address Rocky Hill Road, Plymouth, MA Expiration Date N/A
4. Identification of System (3) Reactor Core Isolation Cooling ? Reactor Recirculation, Residual Heat Removal
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
SS-10-30-05 Snubber	Bergen Paterson	448	—	—	—	replace	No
SS-13-10-06 Snubber	Bergen Paterson	400	—	—	—	replace	No
SS-2-20-03 Snubber	Bergen Paterson	403	—	—	—	replace	No
SS-2-20-02 Snubber	Bergen Paterson	404	—	—	—	replace	No

7. Description of Work Remove and replace snubbers per maintenance requests.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure psi Test Temp. °F
Pre-installation test

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Work completed per required maintenance requests.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date —
 Signed R. S. Dwyer QC D in Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-9-94 to 8-1-95 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.

R. S. Dwyer Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8-4 19 95

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

1. Owner Boston Edison Co. Date 1-20-95
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgirm Nuclear Power Station Sheet 1 of 1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 Unit #1
 Address
MR No. P9401344
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
Expiration Date N/A
 4. Identification of System Core Spray

5. (a) Applicable Construction Code B31.1 1967 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1990W80 (See Attached Information)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
14-CK-35 'Q' valve internals	VELAN					replacement	No

7. Description of Work If required replace 'Q' valve internals per dwg M132A-8-3

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 N/A Other ☒ Pressure psi Test Temp. °F
 Functional testing per MR P9401344 requirements

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replaced valve internals per MR# P9401344
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____

Certificate of Authorization No. _____ Expiration Date _____

Signed RS Schaffner QC DIM Date 8/4 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Mass. have inspected the components described in this Owner's Report during the period 1-20-95 to 8-1-95 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.

RS Schaffner Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4-95

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

1. Owner Boston Edison Co. Date 07-22-93
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR No. 19302861
 Address
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Reactor Recirculation Water Cleanup

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition. Addenda. Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
Reactor Vessel Drain Valve Piping	Conval	Model 12G3-105		12-HO-65		repair	No

7. Description of Work Weld repair of pipe to valve weld at upstream end of 1201-65 (weld #12-BC-15R).

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure 1133 psi Test Temp <100 °F In accordance with ASME XI
 (1.10 X 1030 psig) IWA 4400 and IWB 5222.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks All work completed and documented in MR #19302861.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date

Signed QC Sch QC DM Date 8/4 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7-22-95 to 8-2-95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MA-1420
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-4- 19 95

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

1. Owner Boston Edison Co. Date 12-15-92
Name
800 Boylston Street, Boston, MA
Address
Sheet 1 of 1
2. Plant Pilgrim Nuclear Power Station Unit #1
Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19101278
Address
Repair Organization P.O. No. Job No. etc.
3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
Address
Expiration Date N/A
4. Identification of System Core Spray
5. (a) Applicable Construction Code ASME III 1986 Edition. — Addenda. — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or No)
PSV-1401-28B Safety Valve	Anderson Greenwood	Model #81P	<u>—</u>	<u>—</u>	92	replacement	Yes

7. Description of Work See Remarks on Reverse side
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure 550 psig psi Test Temp AMB °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replaced PSV-1401-28B with a new Anderson Greenwood Valve. Also, the upstream
Applicable Manufacturer's Data Reports to be attached
Piping was revised to accommodate for the inlet flange size difference. Also new
bolting was installed. The replacement relief valve was tested and pressure
set at the manufactures facility. Relief set pressure 500 psig.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date _____
 Signed R. Schifano QC DM Date 8/3 19 95
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Factory Mutual System of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 12-15-92 to 8-1-95 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.

R. Schifano Commissions MA 1420
 Inspector's Signature National Board, State, Province, and Endorsements
 Date 8.4.95

SECTION 3.0

SYMBOLS

VALVES



GATE/GLOBE

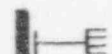


BUTTERFLY

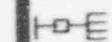


CHECK (FLOW →)

SUPPORTS



RESTRAINT (SR)



SNUBBER (SS)



SWAY BRACE (SB)



GUIDE (SG)



SPRING HANGER (SH)



ANCHOR (SA)



RIGID HANGER (RH)



SUPPORT LUG (HL)

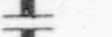


STIFFENER COLLAR (SC)

OTHER



NOZZLE



FLANGE CONNECTION



REDUCER



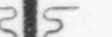
WELD



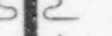
Weldolet



SOCKET WELD



EXPANSION BELLAWS



INTEGRAL WELD

NOTATION



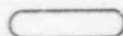
VALVE #



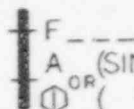
SUPPORT #



SPOOL #



PENETRATION #



FIELD WELD

(SINGLE LETTER)
OR
DIGIT

SHOP WELD



CLASS BOUNDARY



INFORMATION ONLY - N.N.S.

CONTINUATION ON
INDICATED DRAWING
("TO" OR "FROM" DENOTES
INTERVENING LINE
NOT SHOWN)ABBREVIATIONS
PS - PIPE STANCHION
OR TRUNNION

PIPE DATA

ID	PIPE IDENTIFICATION
MATL	MATERIAL CS-CARBON STEEL SS-STAINLESS "
NPS	NOMINAL PIPE SIZE
NWT	" WALL THICKNESS
MWT	MINIMUM " "
NC	NOMINAL CIRCUMFERENCE

IDENTIFICATION

ID #s CONSIST OF;
VALVES

G.E. SUPPLIED _ 01 _
(MANUAL/MO/AO/CK/SYS #) (VLV #)
HAND OPERATED _ -HO- _
(SYS #) (VLV #)
CHECK VALVE _ -CK- _
(SYS #) (VLV #)

SUPPORTS

H _ -I- _
(SYSTEM #) (SUPPORT #)

WELDS (CLASS 2)

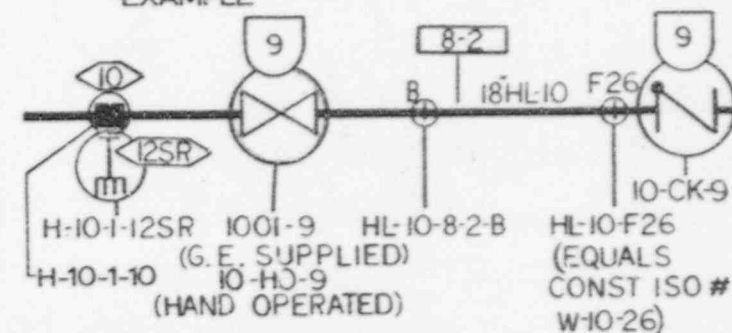
SHOP

_ - _ - _
(LINE #) (SPOOL #) (WELD #)

FIELD

_ - _ - F _
(LINE #) (WELD #)

EXAMPLE

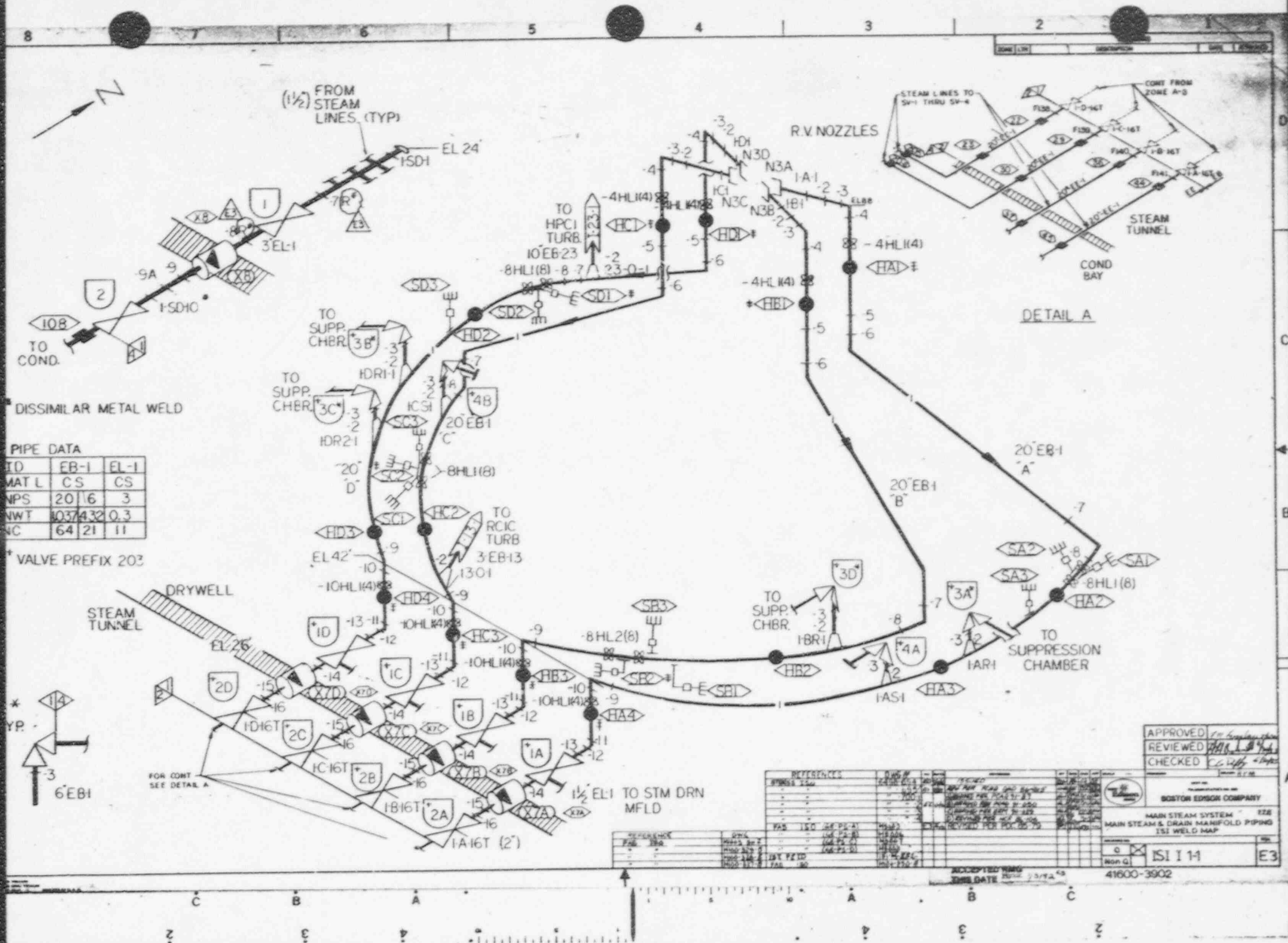


APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

40151 ISSUED E1 REVISED PER PCAQ 91-030 E2 REVISED PER PCAQ 91-103		BOSTON EDISON COMPANY ISOMETRIC LEGEND ISI WELD MAP	
TITLE ISI I O		E2	

ACCEPTED RMD
DATE 1/11/12 E2

41600-3901



The top view shows a circular base with a central hole. A rectangular protrusion is located at the top center of the circle. The protrusion has a small circular hole in its center. The overall shape is symmetrical about the vertical centerline.

The diagram shows a trapezoidal container with a central vertical support. To the right is a circular cross-section divided into two halves by a vertical line, with a yin-yang symbol inside. The left half is white and the right half is black.

DETAIL H

A diagram showing a circular object with a central point. A horizontal line extends from the center to the left, and another line extends from the center downwards and to the left, forming an angle labeled 20° .

HANGER LUG 1" R
DETAIL 'F'

SEE
NOTE 1

NOTE:

I. WELD I.D. PREFIXED
W/ VALVE I.D.

Use restricted to
reference

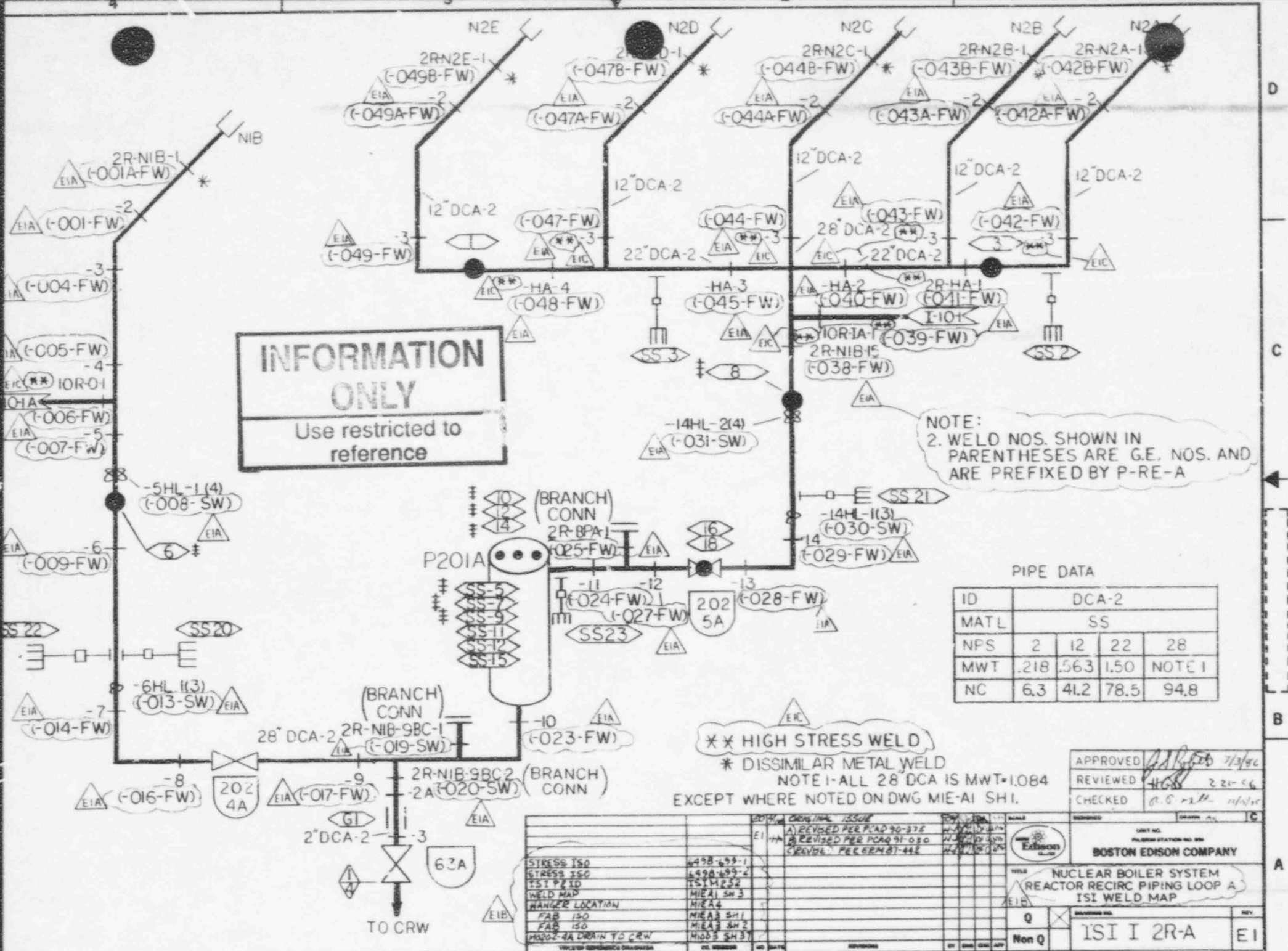
APPROVED	<i>[Signature]</i> 7/6/83
REVIEWED	<i>[Signature]</i> 7/6/83
CHECKED	<i>[Signature]</i> 7/6/83

DATE	DESIGNED	DRAWN	APP	C
	SHEET NO. PULMONA STATION NO. 200 BOSTON EDISON COMPANY			

1111.2	RECIRCULATION LOOP DETAILS
--------	-------------------------------

Q	<input checked="" type="checkbox"/>	ENCLOSURE NO.	REV.
Non Q		ISI-I-2-0	0

[illegible]



INFORMATION ONLY
Use restricted to reference

NOTE:
2. WELD NOS. SHOWN IN PARENTHESES ARE G.E. NOS. AND ARE PREFIXED BY P-RE-A

PIPE DATA

ID	DCA-2			
MATL	SS			
NPS	2	12	22	28
MWT	.218	.563	1.50	NOTE 1
NC	6.3	41.2	78.5	94.8

XX HIGH STRESS WELD

* DISSIMILAR METAL WELD

NOTE 1-ALL 28 DCA IS MWT=1.084 EXCEPT WHERE NOTED ON DWG MIE-A1 SH1.

APPROVED *[Signature]* 7/13/86
REVIEWED *[Signature]* 2-21-86
CHECKED *[Signature]* 11/13/86

BOSTON EDISON COMPANY

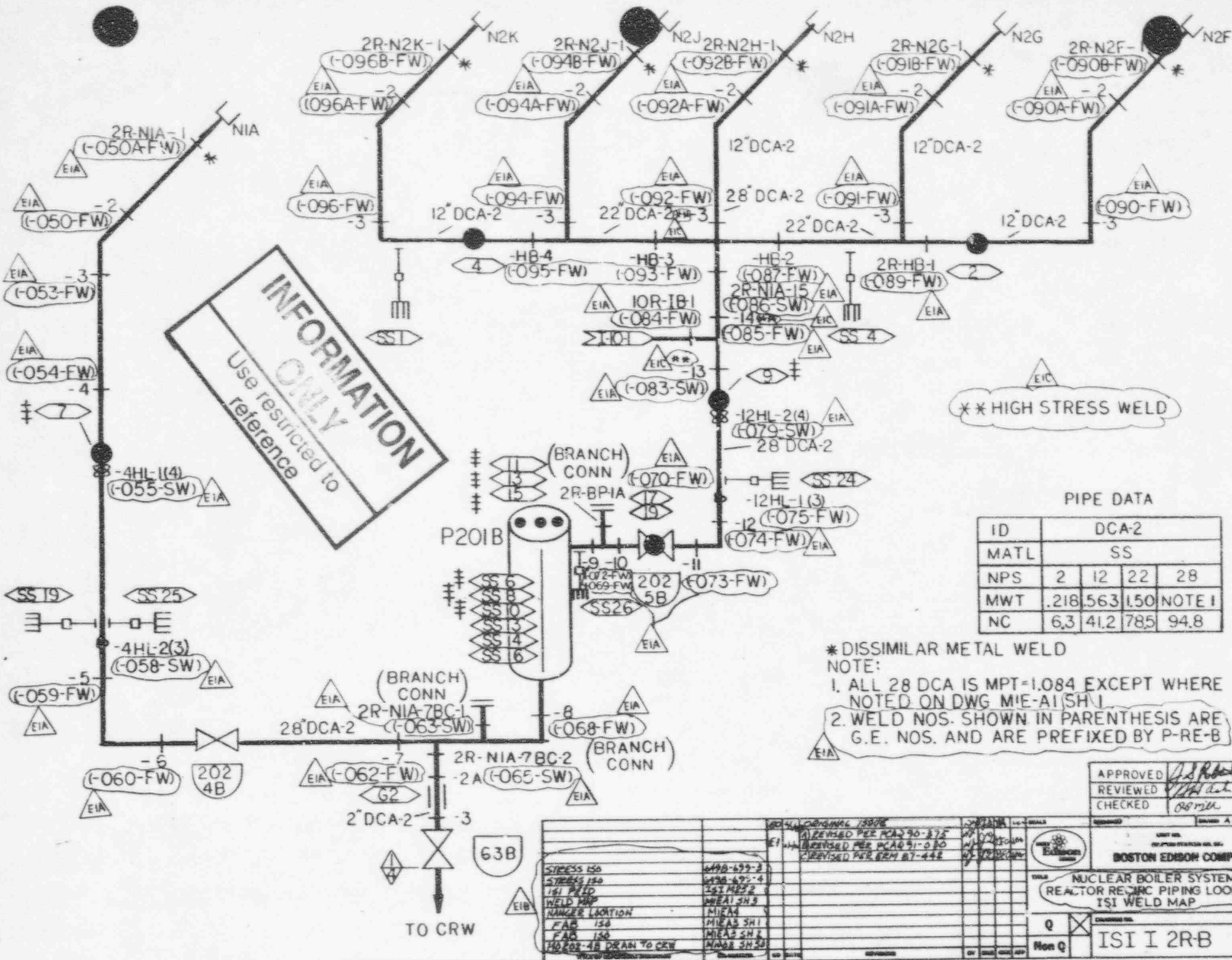
NUCLEAR BOILER SYSTEM
REACTOR RECIRC PIPING LOOP A
ISI WELD MAP

Q Non Q
ISI I 2R-A E1

STRESS ISO	4498-699-1
STRESS ISO	4498-699-2
ISI P2 ID	ISI MP252
WELD MAP	MIEA1 SH 3
WANGER LOCATION	MIEA4
FAB ISO	MIEA3 SH1
FAB ISO	MIEA3 SH2
MWD-4A DRAIN TO CRW	MWD3 SH3

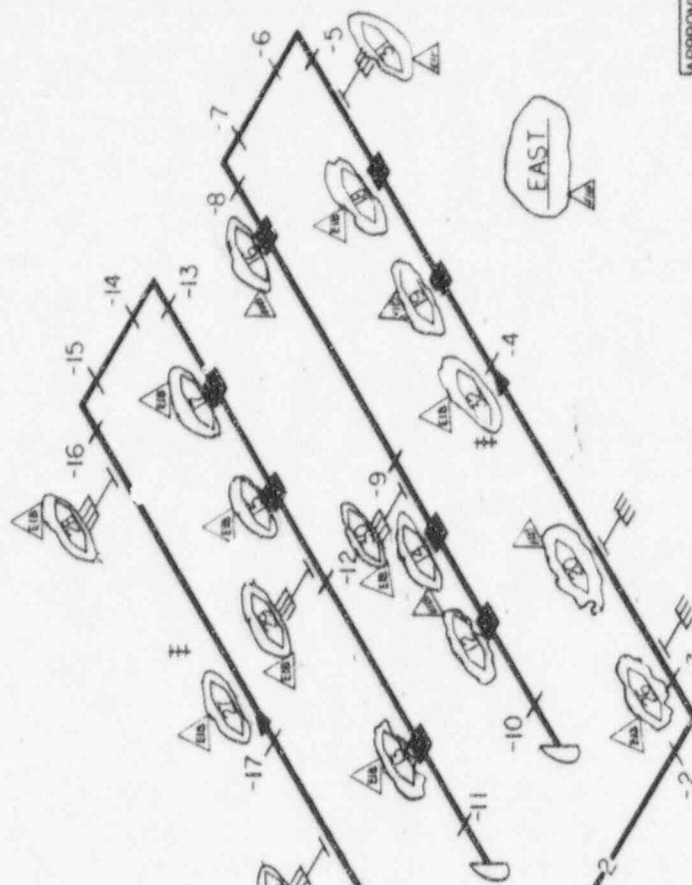
ACCEPTED RMG
THIS DATE

41600-4271



ACCEPTED RMG
THIS DATE 2/19/82

41604224



CRD RETURN CUT & CAPPED

NOZZLE
N10

CLASS I

INFORMATION ONLY

a restricted to
reference

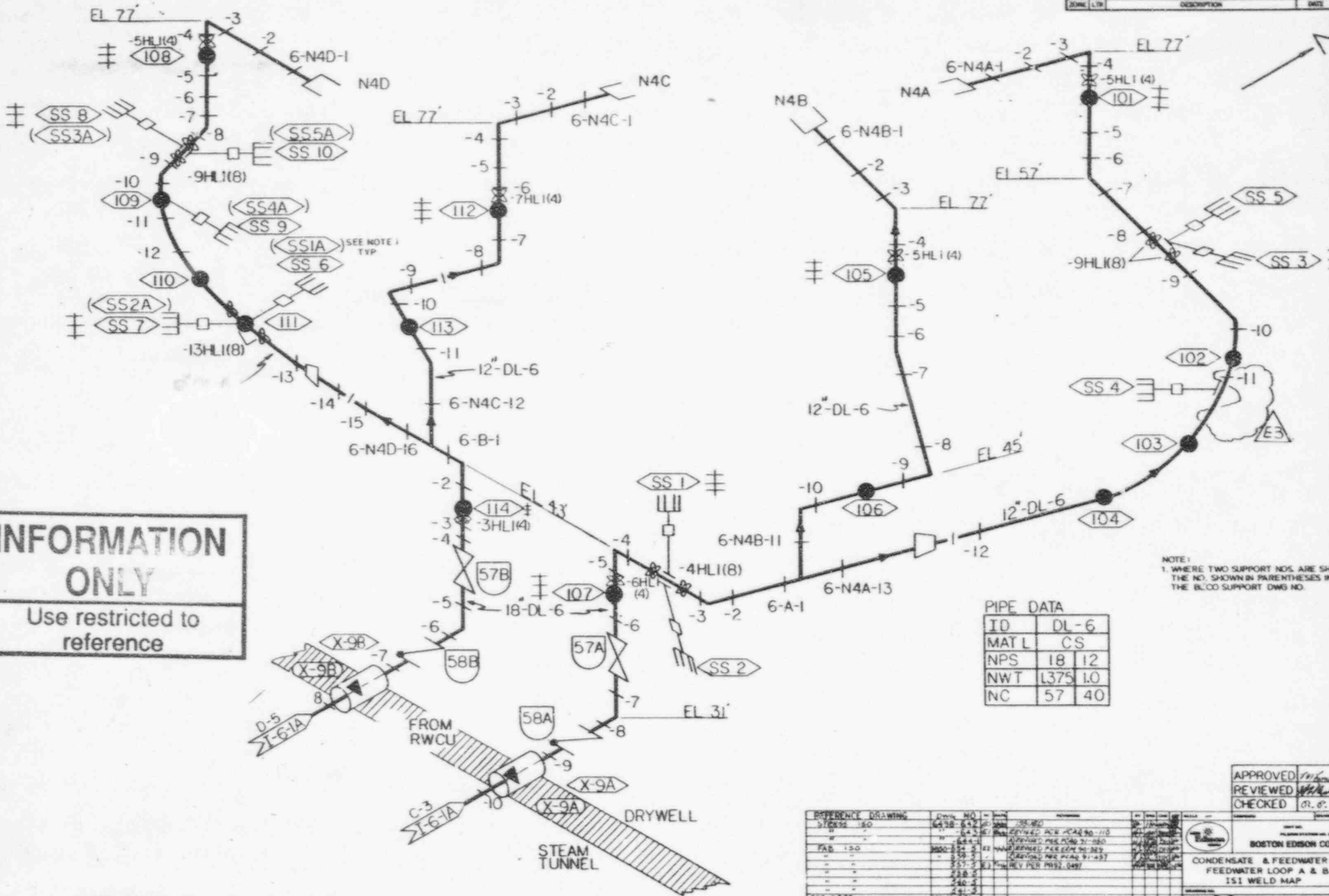
PIPE DATA			
ID	EB-3	EB3	
NATL	CS	CS	
NOS	12"	6"	
NWAT	688	432	
NC	38	19	

APPROVED	10/26/80	30
REVIEWED	10/26/80	30
CHECKED	10/26/80	30
EASTON EMBSON COMPANY 10000 INDUSTRIAL AVENUE NEWTON, MASSACHUSETTS 02459 TEL: (617) 552-1234		
ISI-I-3-i		

g	ISI-I-3-1
Mon Q	

41600-3906

INFORMATION ONLY
Use restricted to reference



NOTE:
1. WHERE TWO SUPPORT NOS. ARE SHOWN, THE NO. SHOWN IN PARENTHESES IS THE BLOC SUPPORT DWG NO.

PIPE DATA

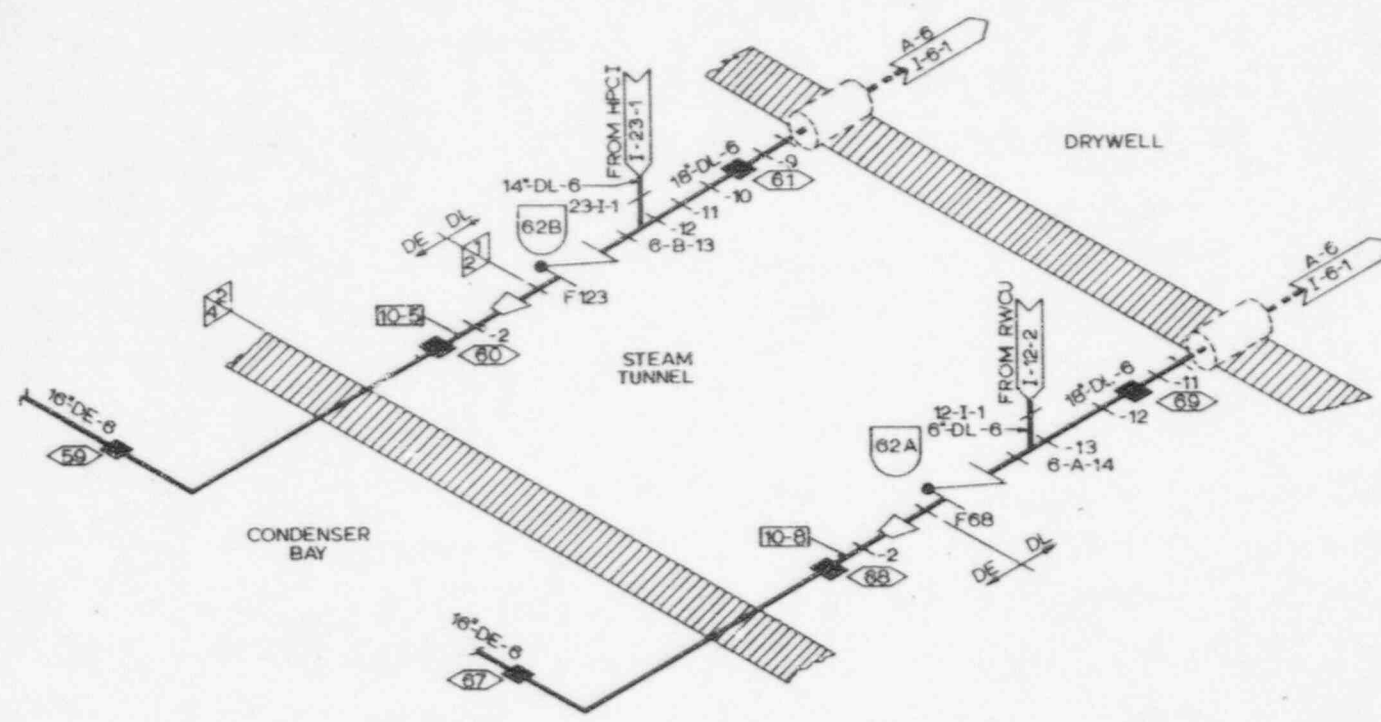
ID	DL-6
MAT L	CS
NPS	18 12
NWT	L375 L0
NC	57 40

APPROVED	REVIEWED	CHECKED
DATE	DATE	DATE

REFERENCE DRAWING	DATE	NO.	BY	CHKD	APPD
31000-180	10-1-80	1	...	...	...
31000-180	10-1-80	2	...	...	...
31000-180	10-1-80	3	...	...	...
31000-180	10-1-80	4	...	...	...
31000-180	10-1-80	5	...	...	...
31000-180	10-1-80	6	...	...	...
31000-180	10-1-80	7	...	...	...
31000-180	10-1-80	8	...	...	...
31000-180	10-1-80	9	...	...	...
31000-180	10-1-80	10	...	...	...

ACCEPTED RMG	THIS DATE
41600-3907	

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



INFORMATION
 OL
 Use restricted to
 reference

PIPE DATA

ID	DL-6	DE-6
MATL	CS	CS
NPS	18	16
NWT	1375	1219
NC	57	50

PHILADELPHIA STATION BOSTON Edison COMPANY	
CONDENSATE & FEEDWATER SYSTEM FEEDWATER LOOPS A & B ISI WELD MAP	
Q	ISI 1 6-1A
41600-1328	



PIPE DATA

HIGH STRESS WELDS
BECO WELD NOS

LOOP A	LOOP B
10R-1A-1	10R-1B-1
10R-1A-2	10R-1B-2
10R-1A-3	10R-1B-3
10R-1A-5	10R-1B-5
10R-1A-6	10R-1B-6
10R-1A-7	10R-1B-7
10R-1A-8	10R-1B-8
10R-1A-14	10R-1B-9
	10R-1B-14

TABLE 1

15418

4-8894 8875 900-88-78

2. NEW YORK, NEW YORK, NEW YORK, NEW YORK

3-REV PER KAL 00-575
C REV PER KAL 00-575

0-REV PER PAGE 01-0

U.S. GOVERNMENT PRINTING OFFICE: 1969

E-24V P62 GRM 57-4

[illegible]

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1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

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NOTES

1. WELD NOS. SHOWN IN PARENTHESES FOR RECIRC LOOP "A" ARE G.E. NOS. AND ARE PREFIXED BY P-SH+A

2. WELD NOS. SHOWN IN PARENTHESES FOR RECIRC. LOOP "B" ARE G. NOS. AND ARE PREFIXED BY P-RH-B.

BOSTON EDISON COMPANY

RESIDUAL HEAT REMOVAL SYSTEM
RHR PIPING LOOPS A & B
TEST WELD MAP

RISI 110-



ID	DCA10	ELI
MATL	SS	CS
NPS	20	
NWT	786	1.03
NC	64	

* HIGH STRESS WELD

TO
RHR
PUMP

[illegible]

8

7

6

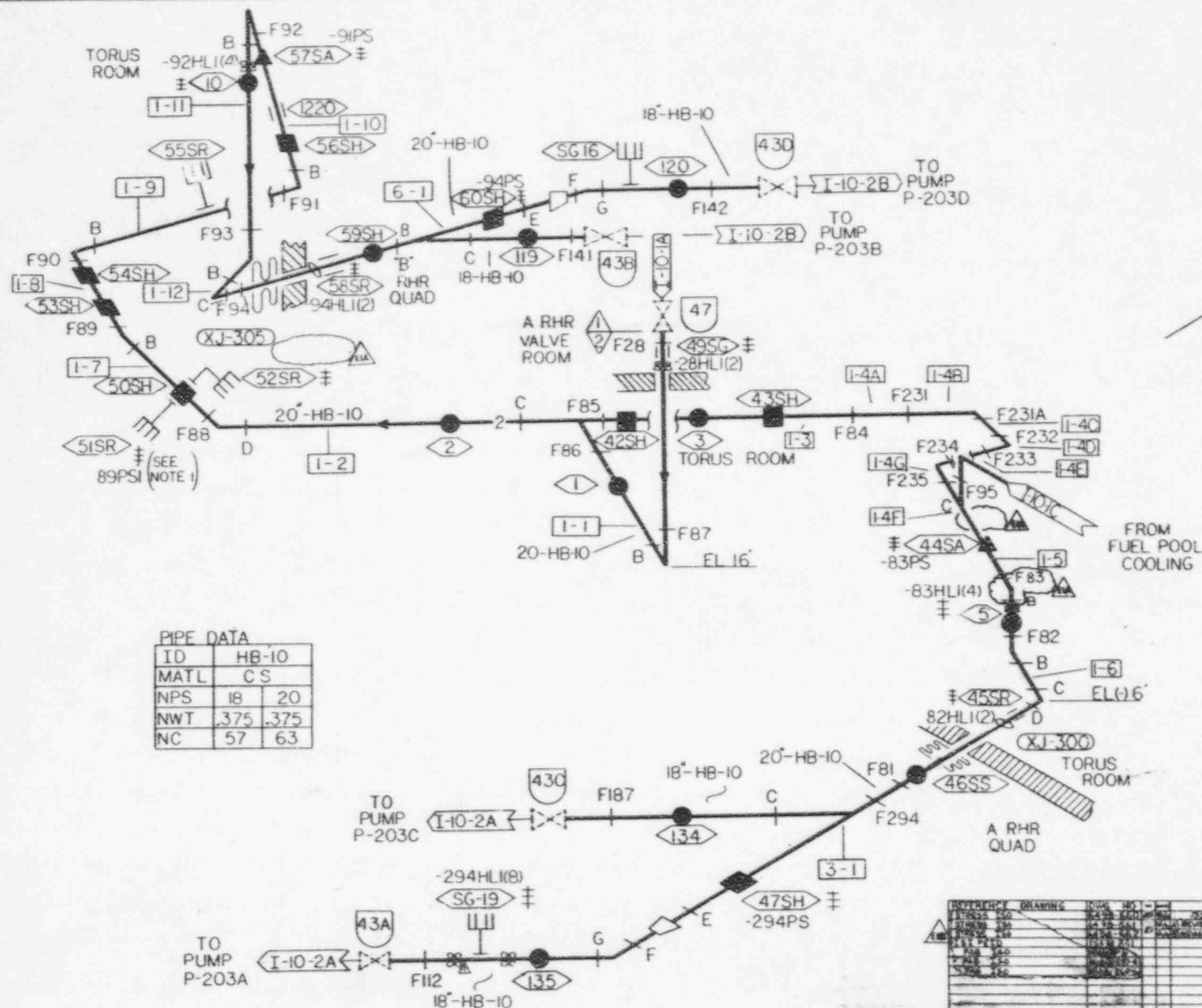
5

4

3

2

1



INFORMATION ONLY
Use restricted to reference

APPROVED
REVIEWED
CHECKED

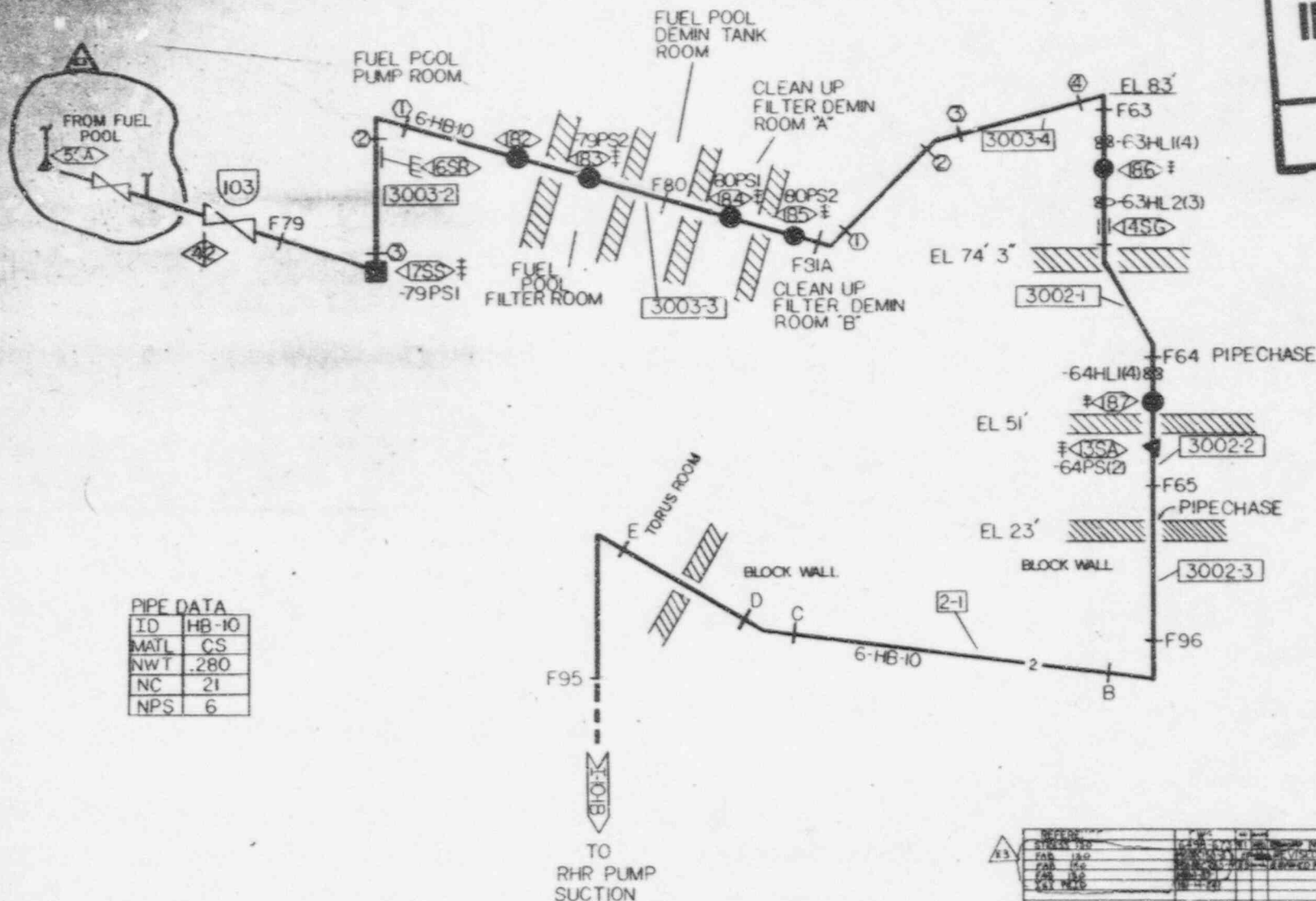
BOSTON SENIOR COMPANY
RESIDUAL HEAT REMOVAL SYSTEM
RHR PUMP SUCTION CROSS CONNECTION
ISI WELD MAP

ISI-I 10 18

41600-423

INFORMATION ONLY

Use restricted to
reference



PIPE DATA

ID	HB-10
MATL	CS
NWT	.280
NC	21
NPS	6

APPROVED
REVIEWED
CHECKED

DATE
BY
DATE
BY

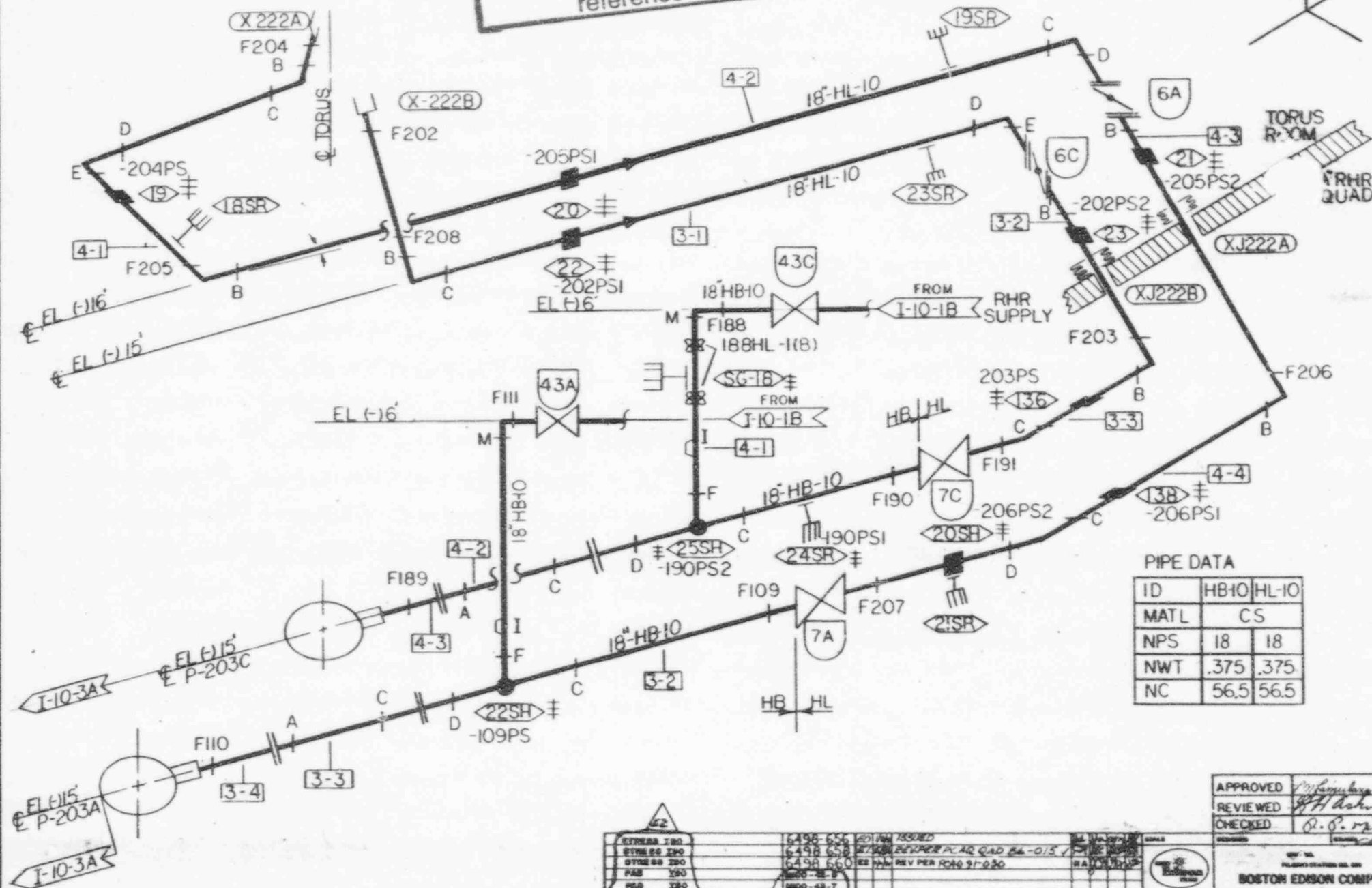
REVISION
NO. 1
DESCRIPTION

ISI I 10-1C

ACCEPTED THIS DATE

INFORMATION ONLY

Use restricted to reference



PIPE DATA

ID	HB10	HL10
MATL	CS	
NPS	18	18
NWT	.375	.375
NC	56.5	56.5

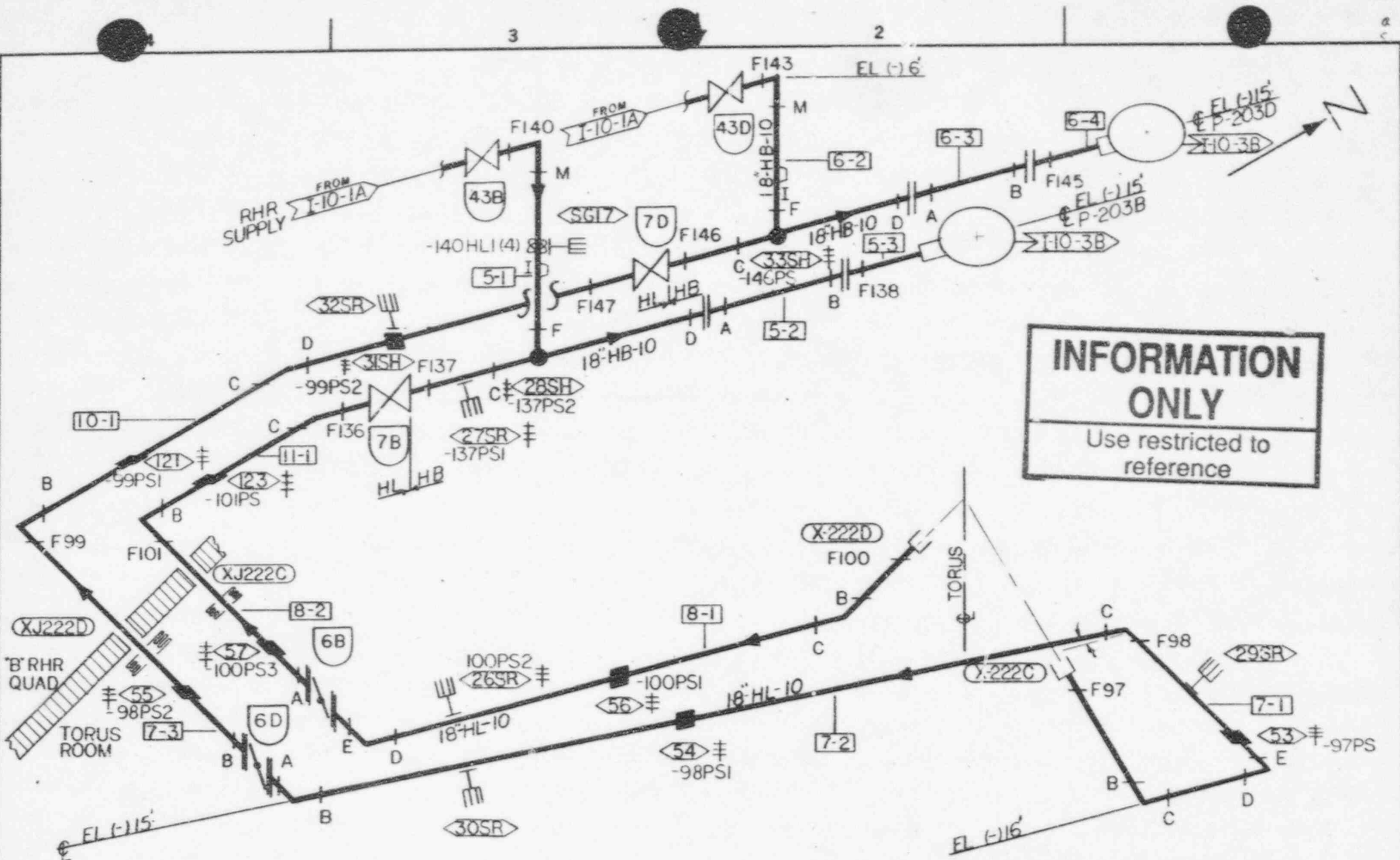
APPROVED *[Signature]* 7/1/83
 REVIEWED *[Signature]*
 CHECKED *[Signature]*

BOSTON EDISON COMPANY

RHR SYSTEM
 P203A/C SUCTION
 ISI WELD MAP

ISI I 10-2A

ITEM NO.	DESCRIPTION	REV	DATE	BY	CHK	APP
1	ISSUED					
2	REVISED					
3	REVISED					
4	REVISED					
5	REVISED					
6	REVISED					
7	REVISED					
8	REVISED					
9	REVISED					
10	REVISED					



PIPE DATA

ID	HBIO	HL-10
MATL	CS	
NPS	18	18
NWT	.375	.375
NC	56.5	56.5

WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
WELD ID	WELD NO.	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED

APPROVED	7/1/03
REVIEWED	7/1/03
CHECKED	7/1/03

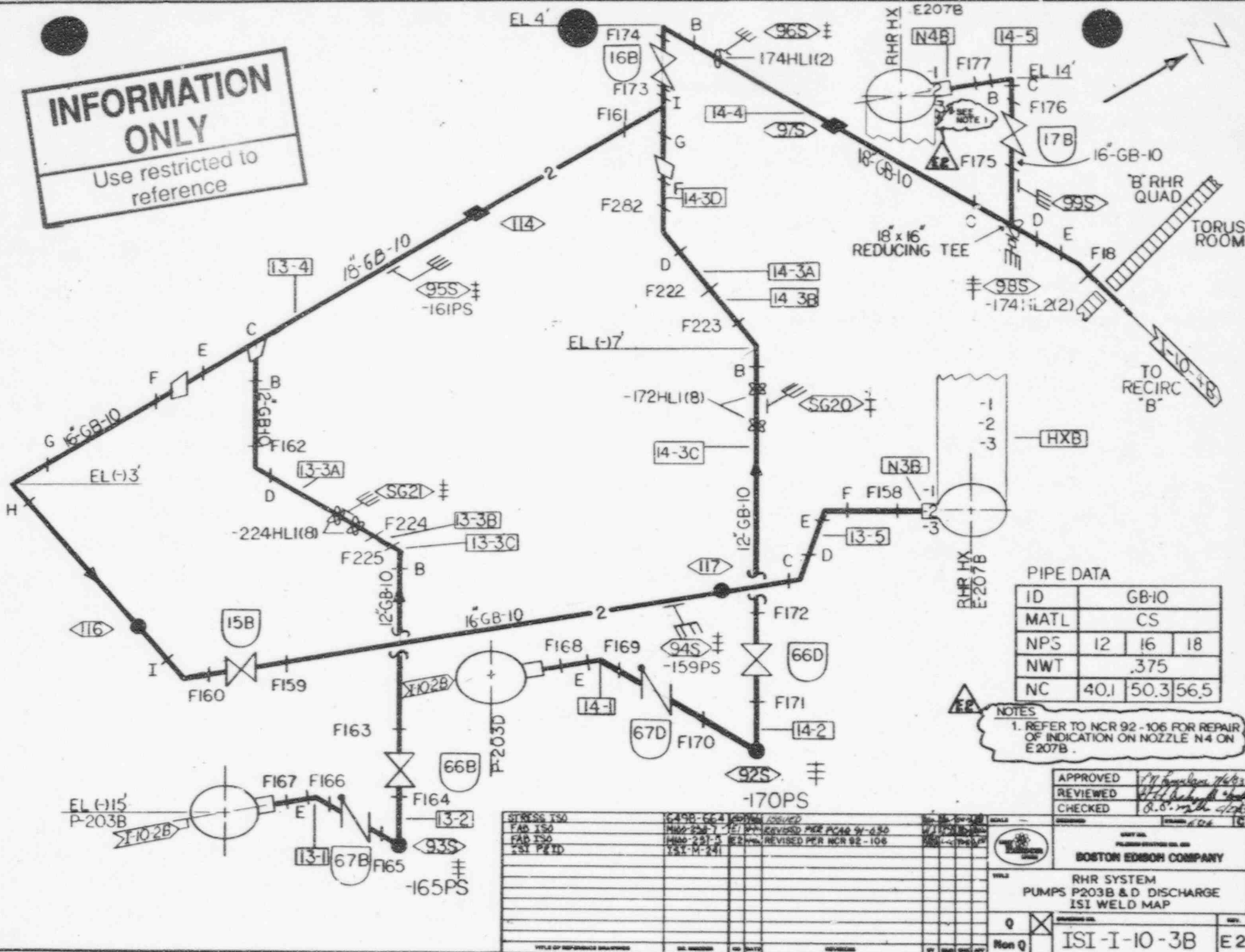
BOSTON EDISON COMPANY

RHR SYSTEM
RHR PUMPS P203BED SUCTION
ISI WELD MAP

ISI-I-10-2B

INFORMATION ONLY

Use restricted to reference



PIPE DATA

ID	GB-10		
MATL	CS		
NPS	12	16	18
NWT	.375		
NC	40.1	50.3	56.5

NOTES

1. REFER TO NCR 92-106 FOR REPAIR OF INDICATION ON NOZZLE N4 ON E207B.

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

BOSTON Edison COMPANY

RHR SYSTEM
PUMPS P203B & D DISCHARGE
ISI WELD MAP

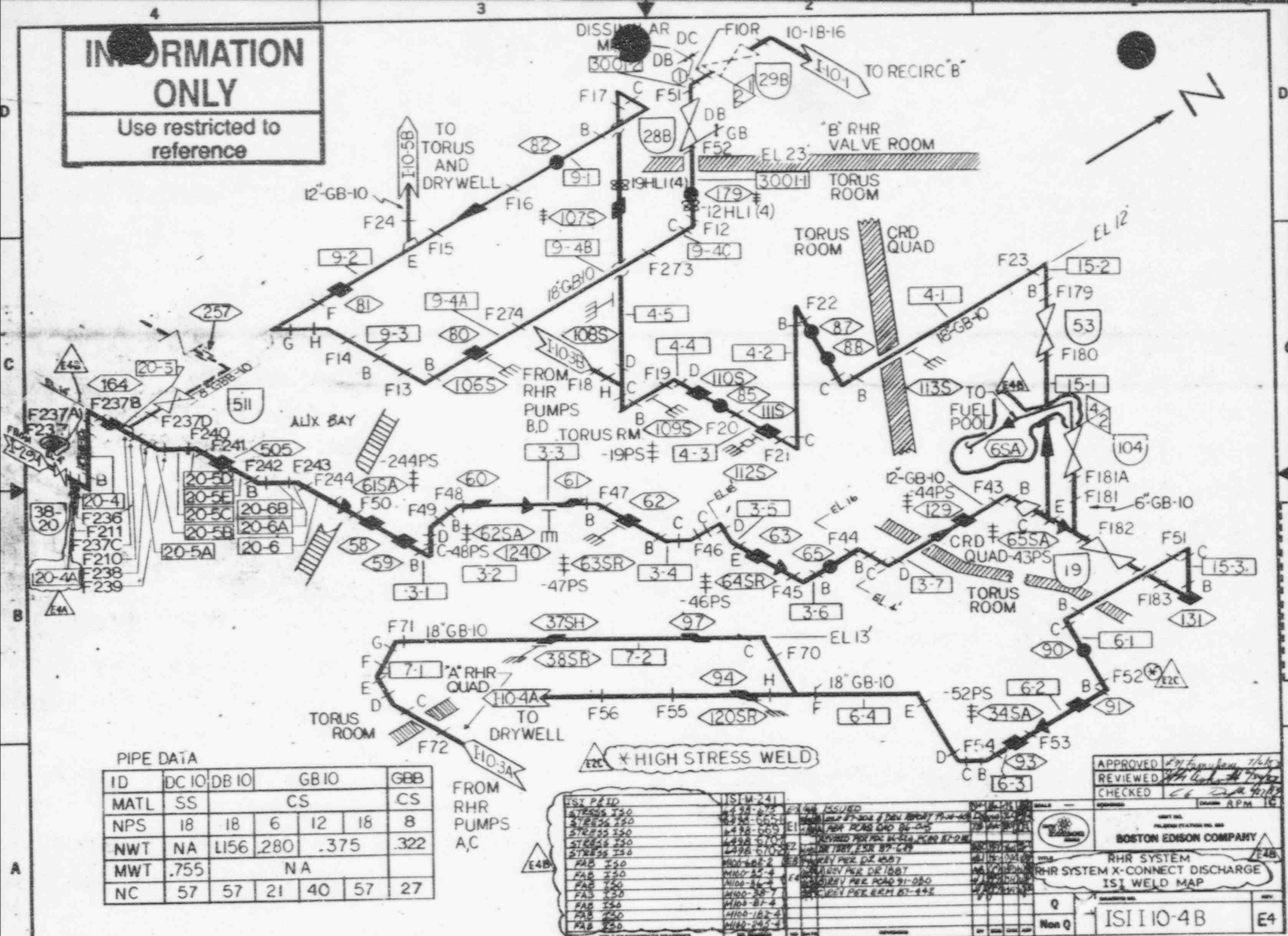
ISI-I-10-3B

E2

ACCEPTED RMD:2
DATE: 06-11-19

41600 3913

Use restricted to
reference



ID	DC IO	DB IO	GB IO			GBB
MATL	SS	CS				CS
NPS	18	18	6	12	18	8
NWT	NA	LI56	280	.375		.322
MWT	.755	NA				
NC	57	57	21	40	57	27

FROM
RHR
PUMPS
A.C

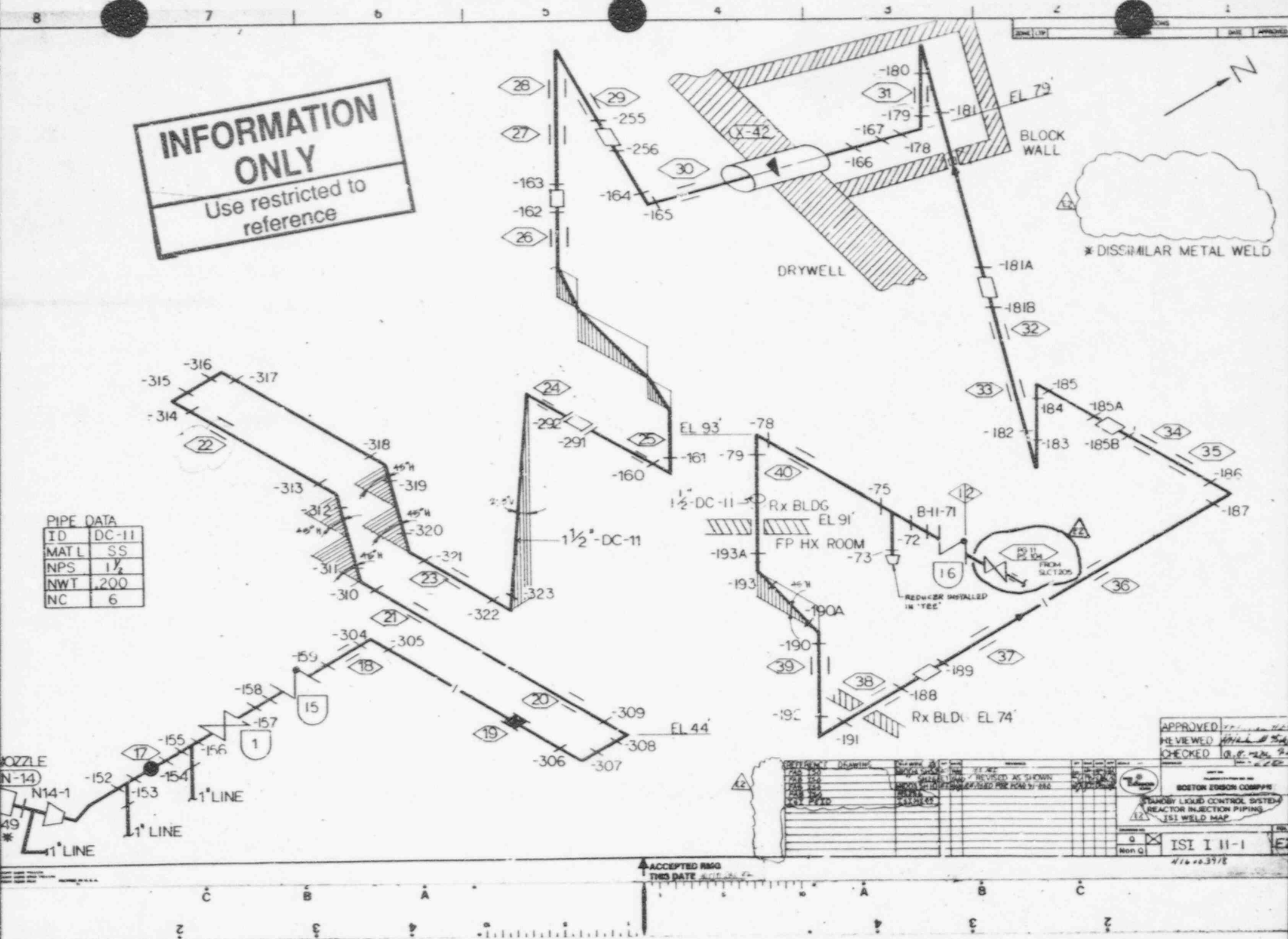
△ * HIGH STRESS WELD

[illegible]

416003915

INFORMATION ONLY
Use restricted to reference

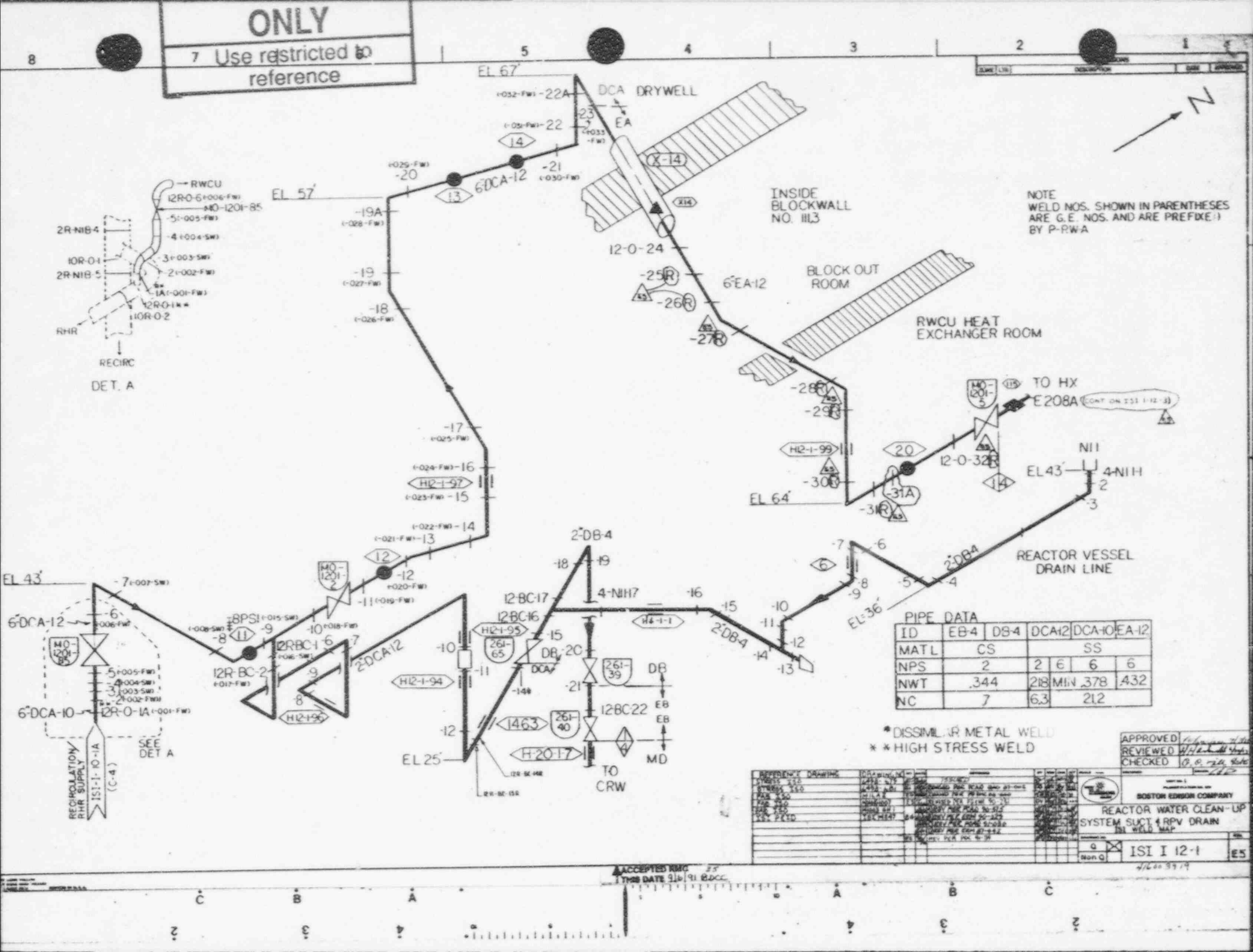
PIPE DATA	
ID	DC-11
MATL	SS
NPS	1 1/2
NWT	200
NC	6



APPROVED	REVIEWED	CHECKED
BOSTON Edison COMPASS		
STANDBY LIQUID CONTROL SYSTEM		
REACTOR INJECTION PIPING		
ISI WELD MAP		
ISI I II-1		
4/16/83		

ONLY

7 Use restricted to reference



NOTE
WELD NOS. SHOWN IN PARENTHESES
ARE G.E. NOS. AND ARE PREFIXED
BY P-PWA

RWCU HEAT
EXCHANGER ROOM

REACTOR VESSEL
DRAIN LINE

PIPE DATA

ID	EB-4	DB-4	DCA12	DCA10	EA-12
MATL	CS			SS	
NPS	2	2	6	6	6
NWT	.344	.218	MIN	.378	.432
NC	7	63		212	

* DISSIMILAR METAL WELD
* * HIGH STRESS WELD

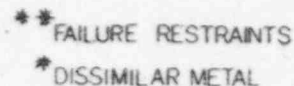
APPROVED
REVIEWED
CHECKED

BOSTON EDISON COMPANY
REACTOR WATER CLEAN-UP
SYSTEM SUCT. RPV DRAIN
SYSTEM WELD MAP

ISI I 12-1

ACCEPTED
DATE 9/1/91

Use figure
reference



PIPE DATA			
ID	DL-6	DA-12	DL-12
MATL	CS	SS	CS
NPS	6	4	6
NWT	0.562	0.337	0.562
NC	21	14	21

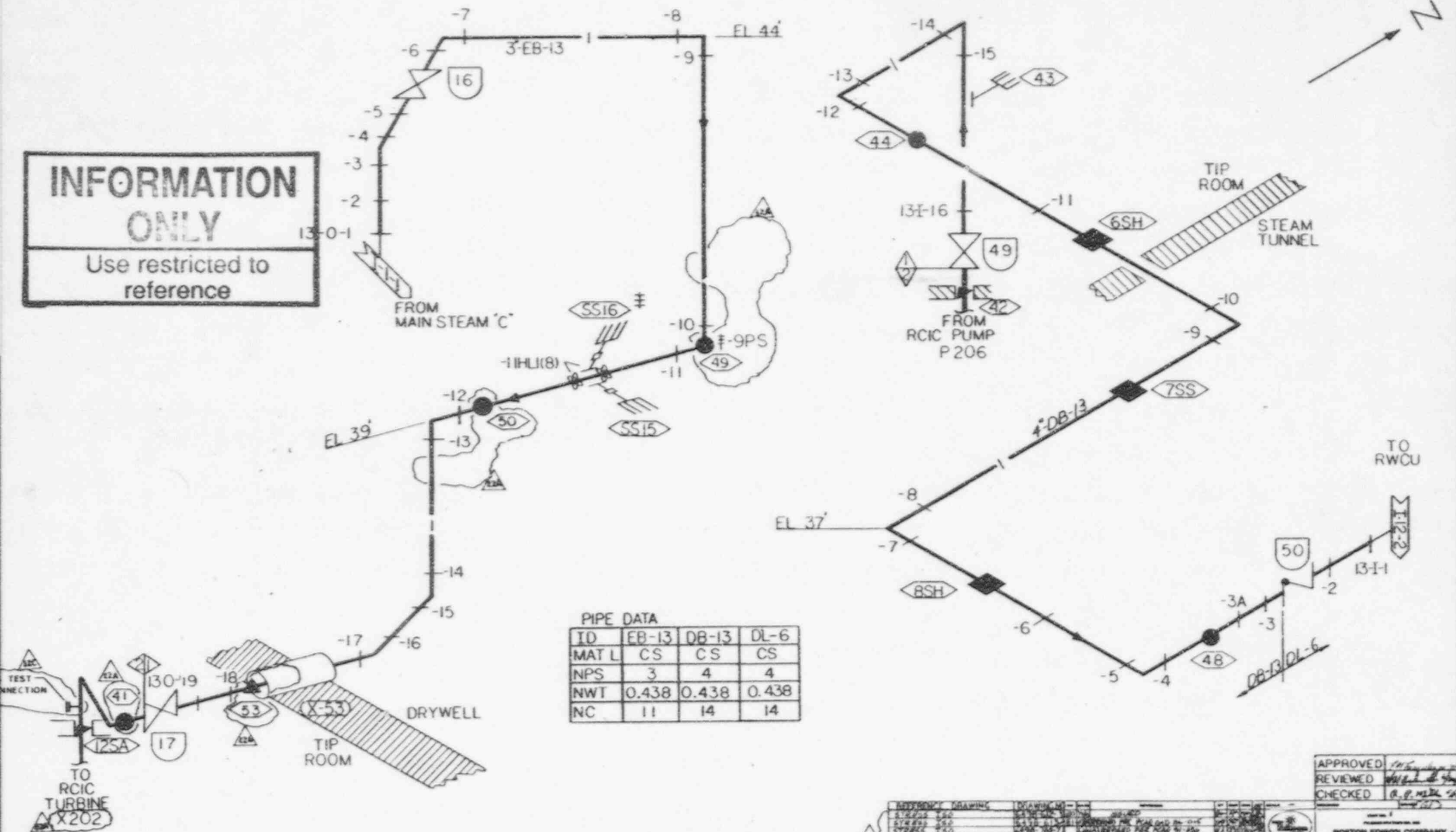
ACCEPTED RAFO
DATE 2-4-75 F.D.

[illegible]ACCEPTED RWD
DATE:

4600-3920

INFORMATION ONLY

Use restricted to
reference

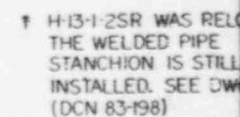


PIPE DATA

ID	EB-13	DB-13	DL-6
MAT L	CS	CS	CS
NPS	3	4	4
NWT	0.438	0.438	0.438
NC	11	14	14

APPROVED	REVIEWED	CHECKED
DATE	DATE	DATE
BOSTON EDISON COMPANY		
RCIC SYSTEM		
TURBINE STEAM FROM MS LINE "C"		
AND PUMP DISCH IS: WELD MAP		
ISI I 13-1		
P1600-921		

Use restricted to
reference

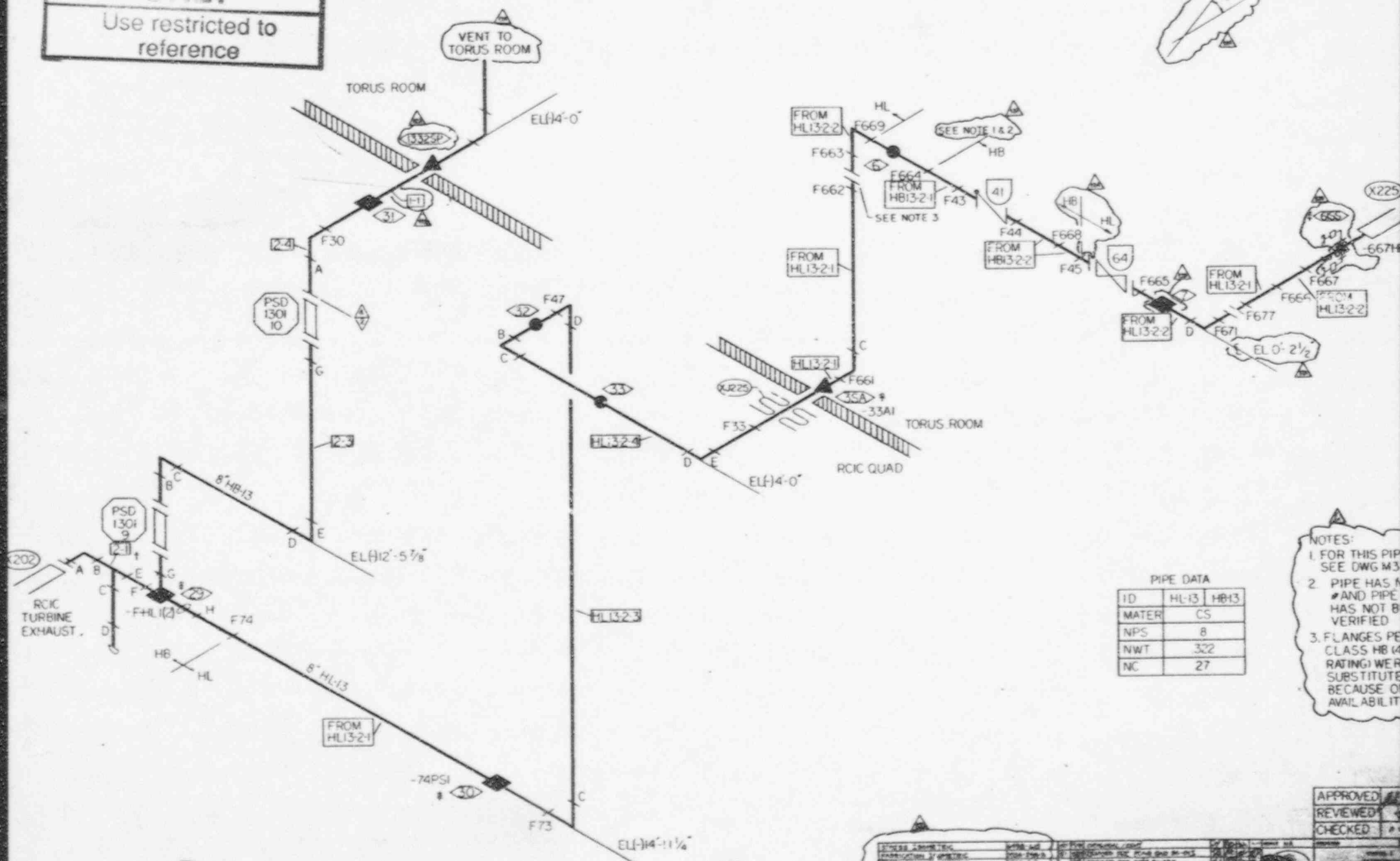


ID	HD13	HL1
MATL	CS	
NPS	6	
NWT	.280	
NC	21	

[illegible]

INFORMATION ONLY

Use restricted to
reference



PIPE DATA		
ID	HL-13	HB-13
MATER	CS	
NPS	8	
NWT	322	
NC	27	

- NOTES:
1. FOR THIS PIPE SEE DWG M3
 2. PIPE HAS NOT BEEN VERIFIED
 3. FLANGES PER CLASS HB (4 RATING) WERE SUBSTITUTED BECAUSE OF AVAILABILITY

APPROVED
REVIEWED
CHECKED

NO.	DESCRIPTION	DATE	BY	FOR
1	DESIGN	10/1/80	J. J. J.	J. J. J.
2	REVISION	10/1/80	J. J. J.	J. J. J.
3	REVISION	10/1/80	J. J. J.	J. J. J.
4	REVISION	10/1/80	J. J. J.	J. J. J.
5	REVISION	10/1/80	J. J. J.	J. J. J.
6	REVISION	10/1/80	J. J. J.	J. J. J.
7	REVISION	10/1/80	J. J. J.	J. J. J.
8	REVISION	10/1/80	J. J. J.	J. J. J.
9	REVISION	10/1/80	J. J. J.	J. J. J.
10	REVISION	10/1/80	J. J. J.	J. J. J.



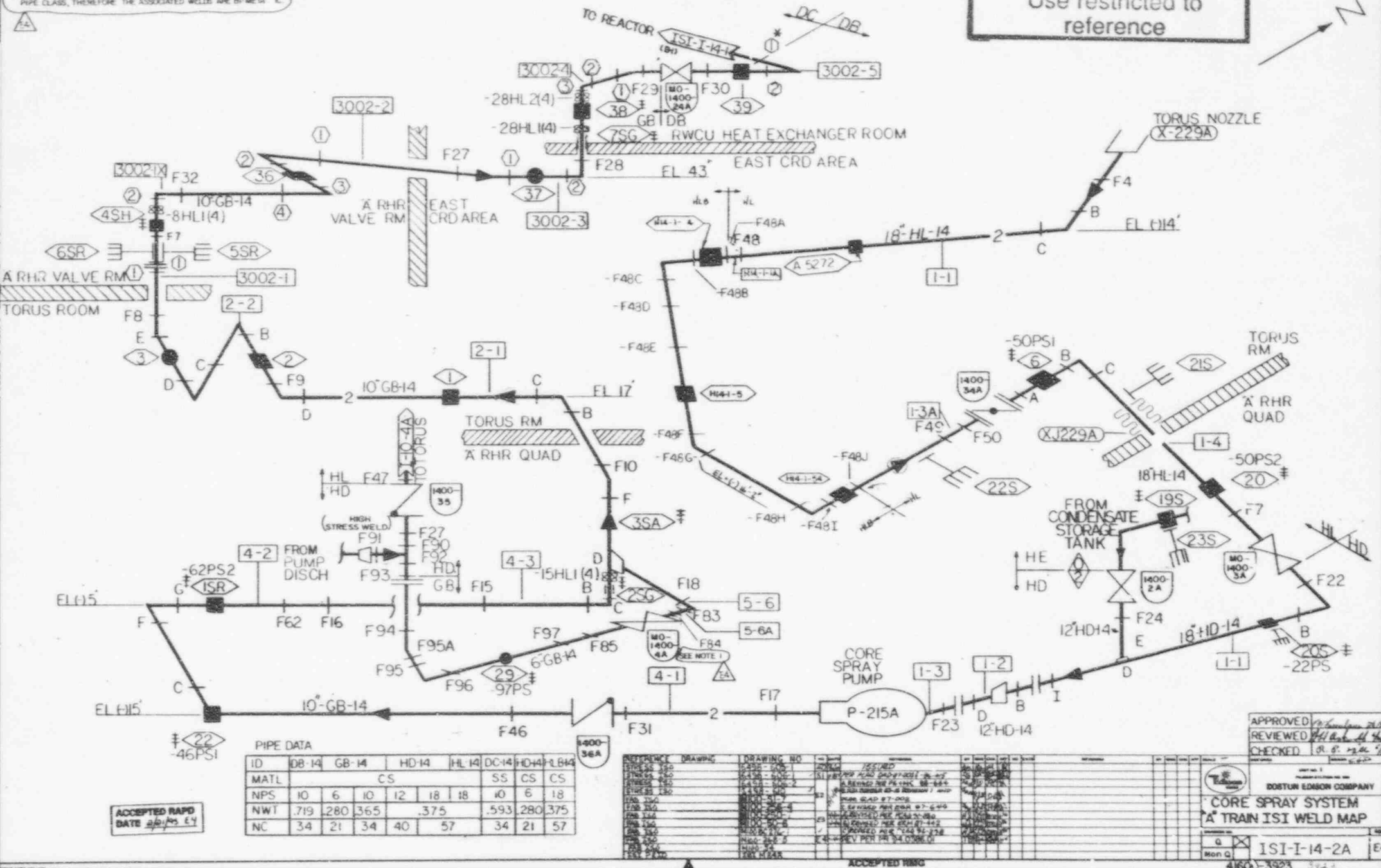
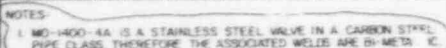
PIPE DATA	
ID	HE-28
MATL	CS
NPS	6
NWT	.280
NC	21

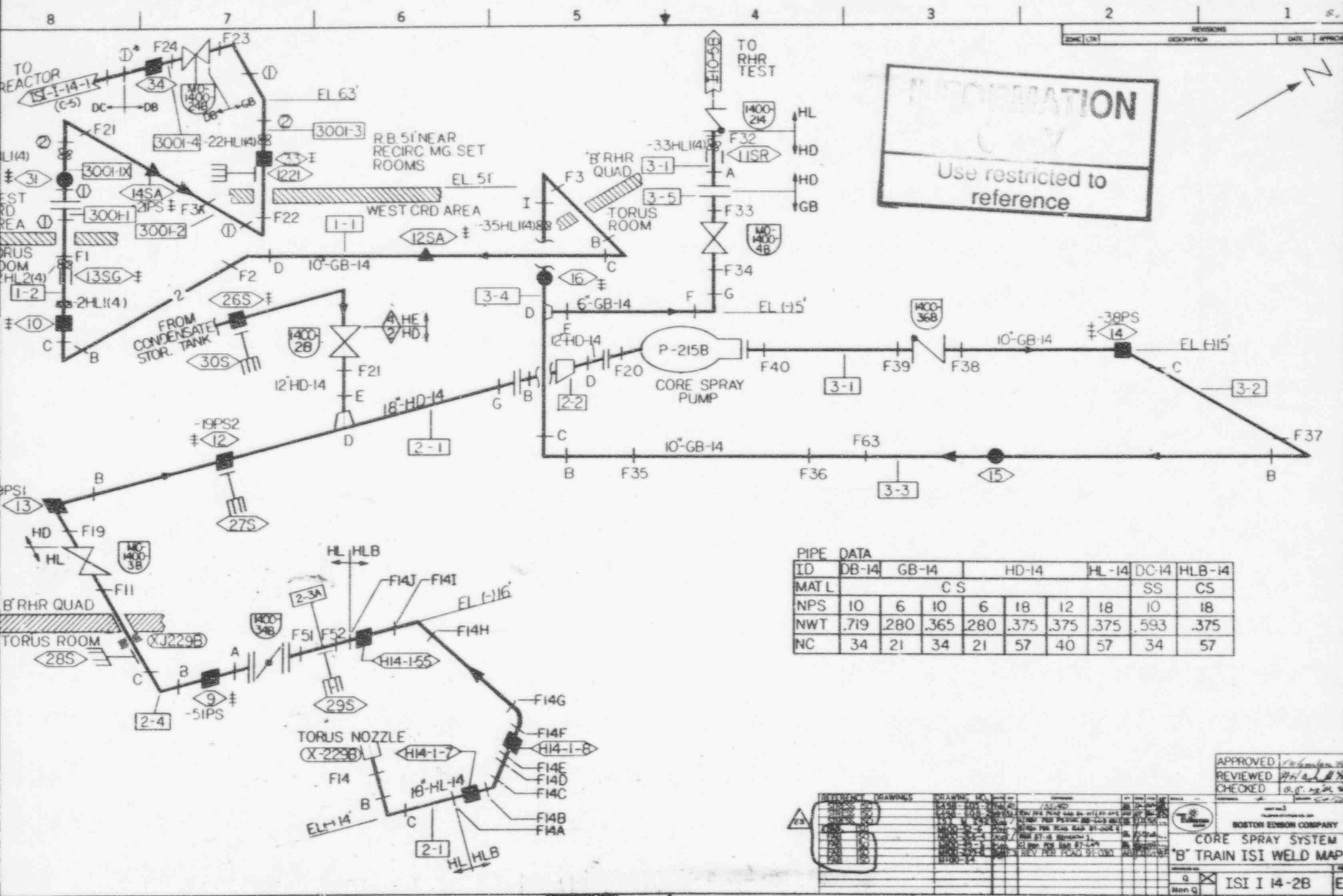
[illegible]

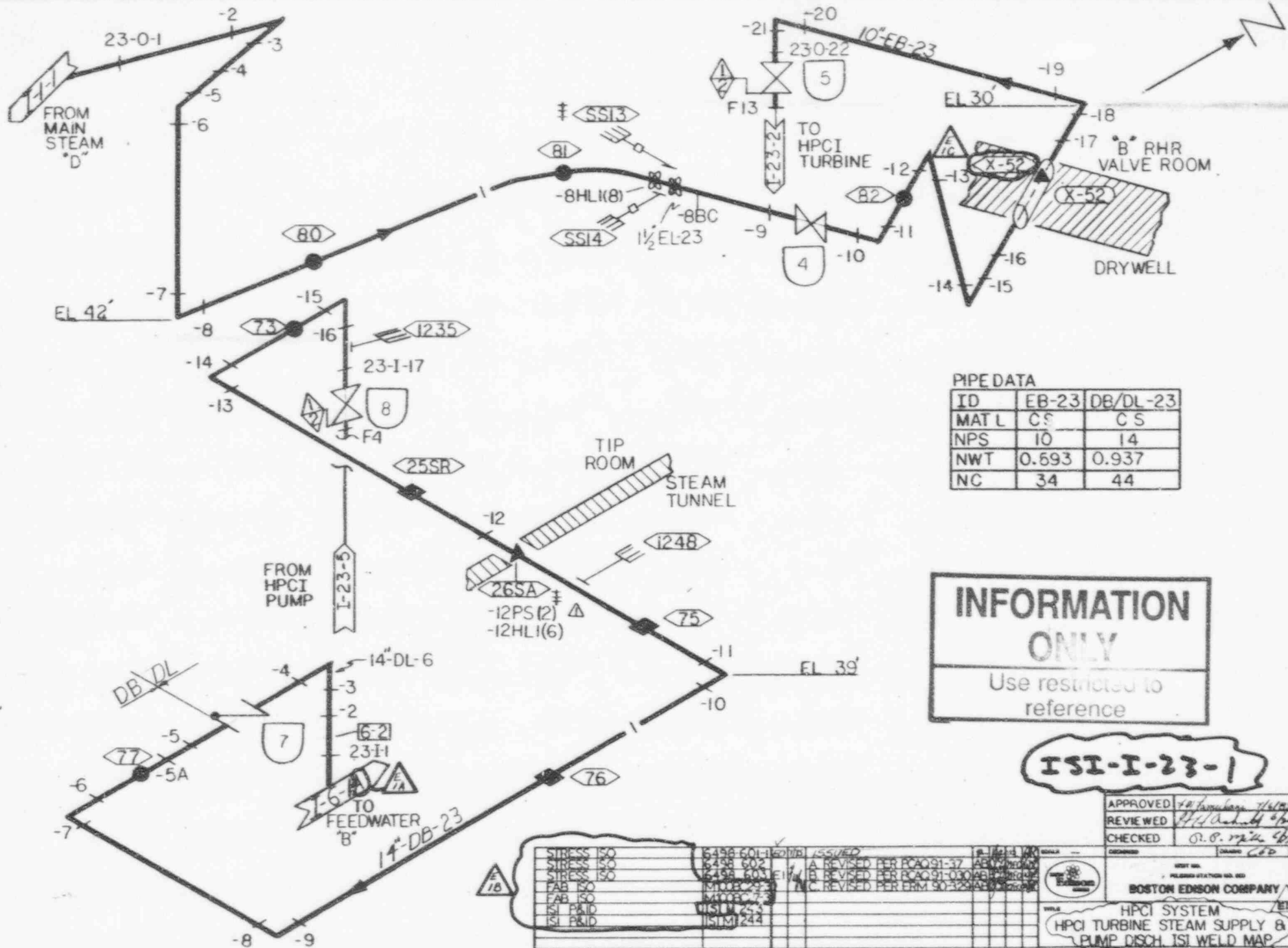
ACCEPTED FOR PUBLICATION
DATE: 2008/05/14

Use restricted to
reference

Use restricted to
reference







PIPE DATA

ID	EB-23	DB/DL-23
MAT L	C S	C S
NPS	10	14
NWT	0.693	0.937
NC	34	44

INFORMATION ONLY

Use restricted to reference

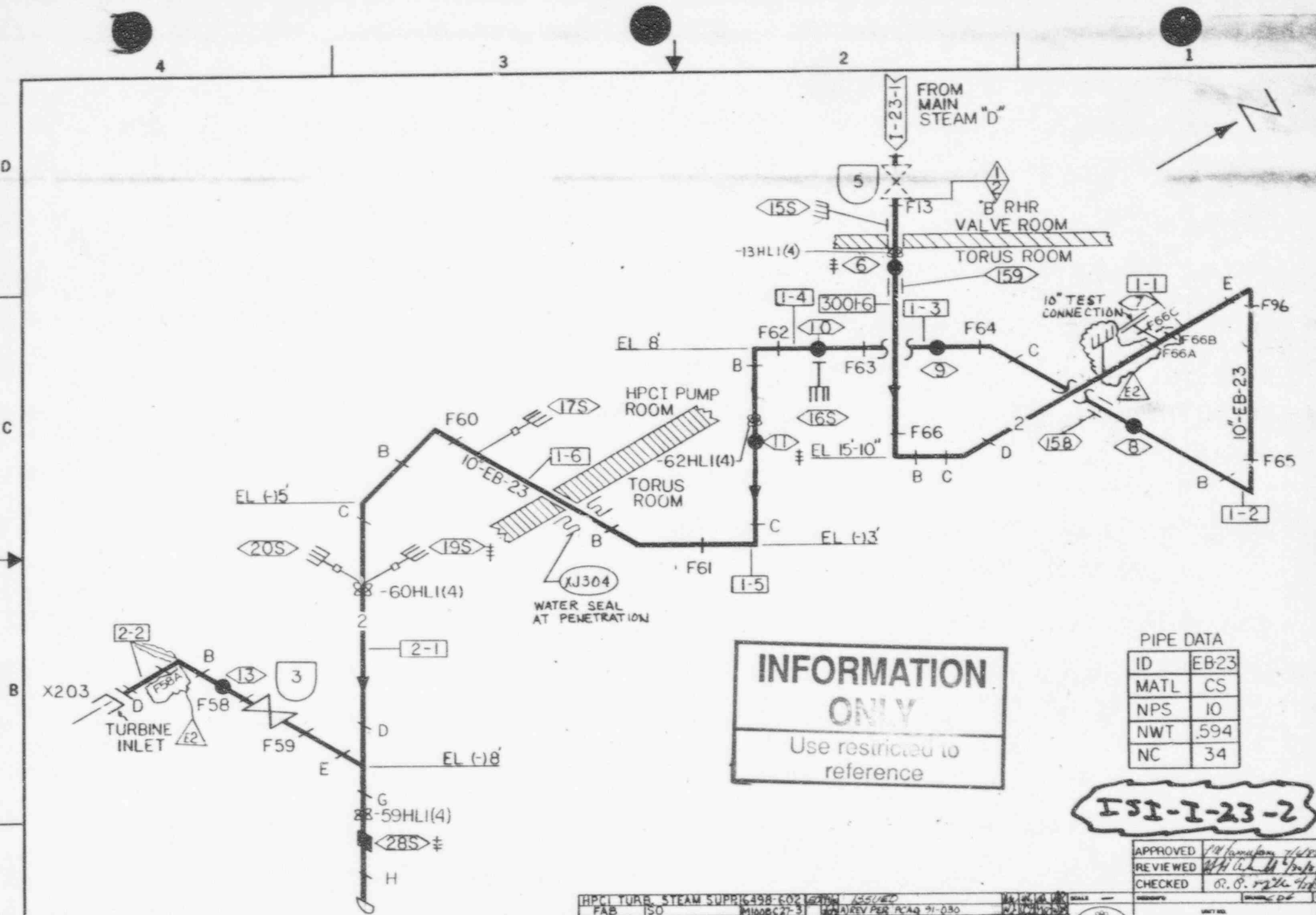
ISI-I-23-1

APPROVED	10/10/91
REVIEWED	10/10/91
CHECKED	10/10/91
DRAWN	10/10/91

BOSTON EDISON COMPANY

HPCI SYSTEM
HPCI TURBINE STEAM SUPPLY & PUMP DISCH. ISI WELD MAP

STRESS ISO	10/10/91
STRESS ISO	10/10/91
STRESS ISO	10/10/91
FAB ISO	10/10/91
ISI PAID	10/10/91
ISI PAID	10/10/91



INFORMATION ONLY

Use restricted to reference

PIPE DATA

ID	EB23
MATL	CS
NPS	10
NWT	.594
NC	34

ISI-1-23-2

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

HPCI TURB. STEAM SUPPLY 498-602		REVISED
FAB ISO	M1000-27-3	REV PER PCAQ 91-030
FAB ISO	M100-38-4	REV PER DCN 91-70336
FAB ISO	M100-189-4	REV PER PDC 87-43A
HPCI SYSTEM ISY PRD	ISI-M-43	REV PER PDC 87-43A
HPCI SYSTEM ISY PRD	ISI-M-244	

UNIT NO. _____

FILED STATION NO. 000

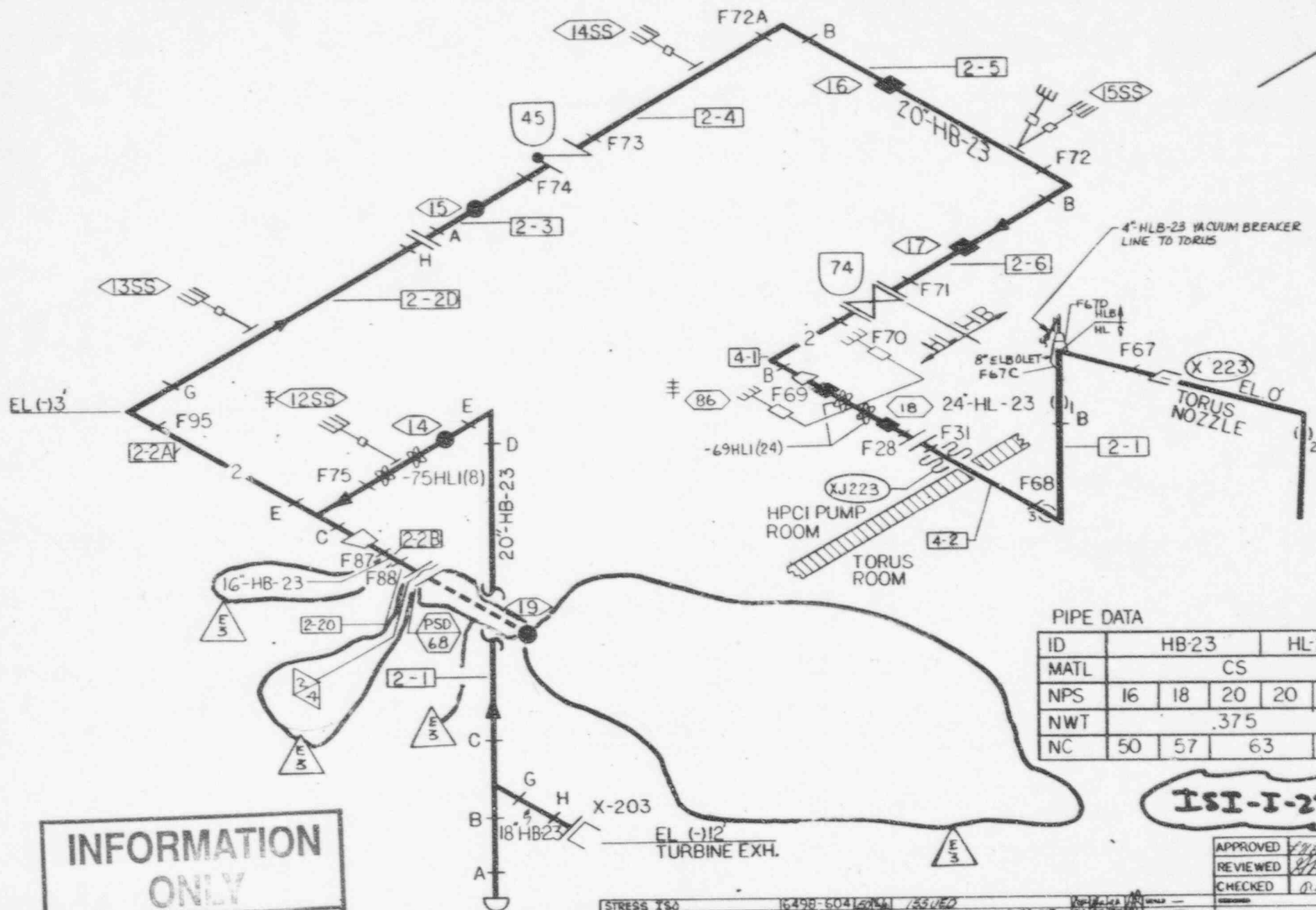
BOSTON EDISON COMPANY

TITLE: **HPCI SYSTEM TURBINE STEAM SUPPLY ISI WELD MAP**

DATE: _____

BY: _____

FOR: _____



PIPE DATA

ID	HB-23			HL-23	
MATL	CS				
NPS	16	18	20	20	24
NWT	.375				
NC	50	57	63	75	

ISI-I-23-3

INFORMATION ONLY
Use restricted to reference

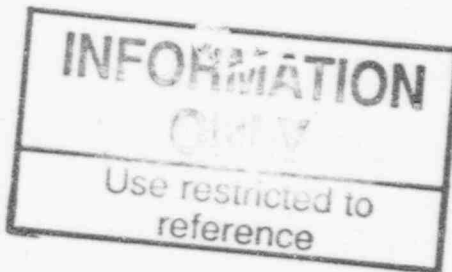
ACCEPTED RAPD
DATE 6/6/95 E3

STRESS ISO	6498-604	REVISED PER PLC 22-29
FAB ISO	M100-220-8	REVISED PER PLC 22-29
FAB ISO	M100-197-8	REVISED PER PLC 22-29
FAB ISO	M100-57-4	REVISED PER PLC 22-29
HPCI SYSTEM-ISI P&ID	ISI-M-243	REVISED PER PLC 22-29
HPCI TURB EXHAUST	M100C54	REVISED PER PLC 22-29
VACUUM BREAKER PIPING	CIA171	REVISED PER PLC 22-29
SUPPRESSION CHAMBER		REVISED PER PLC 22-29
PENETRATION X228		REVISED PER PLC 22-29

APPROVED: [Signature]
REVIEWED: [Signature]
CHECKED: [Signature]

BOSTON EDISON COMPANY

HPCI SYSTEM
TURBINE EXHAUST SYSTEM
ISI WELD MAP



ID	HD23	HL23	HE26
MA7L	CS		
NPS	16		
NWT	.375		
NC	50		

ISI-I-23-4

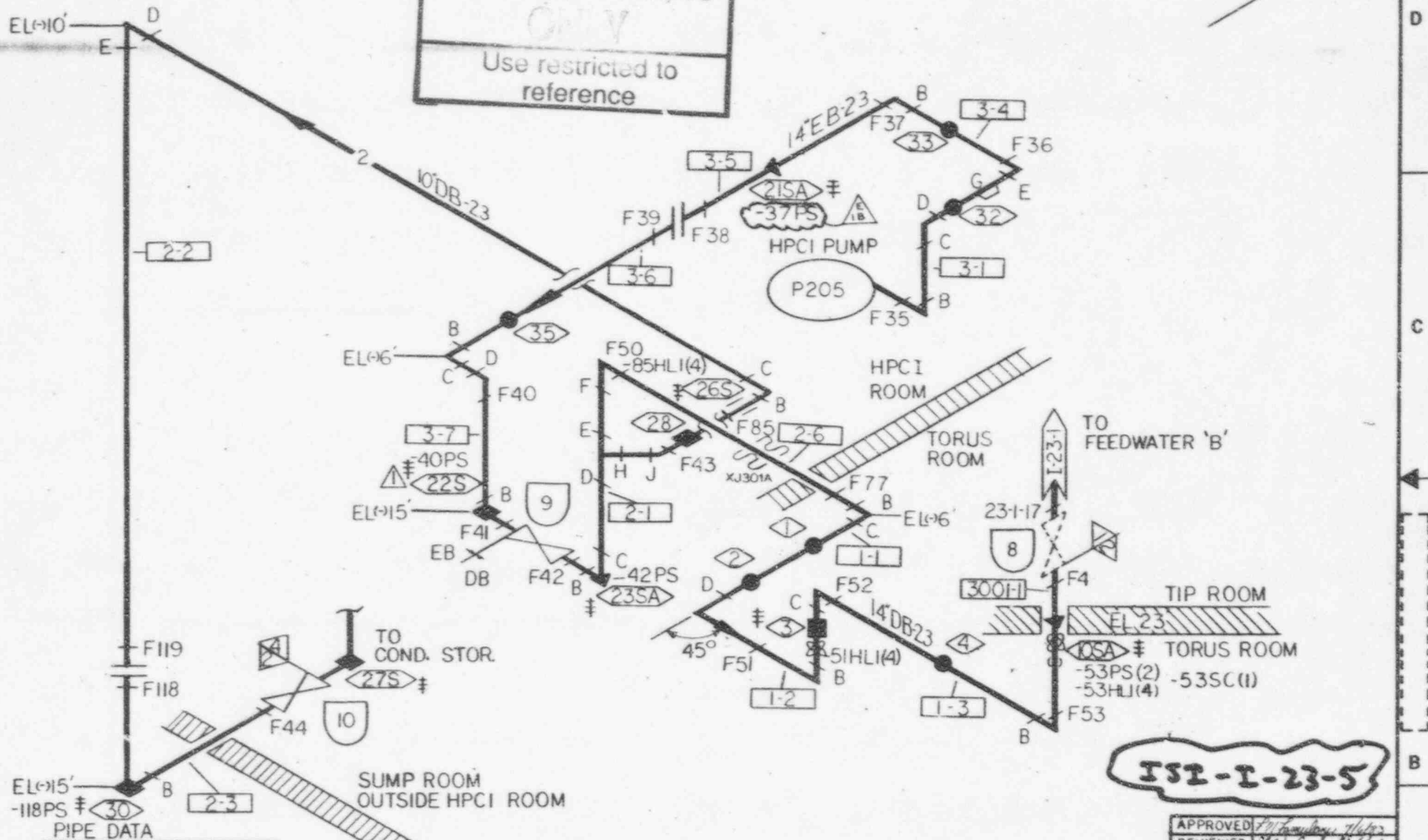
APPROVED	E. M. Lomax, 7/6/83
REVIEWED	D. H. Rabin, 7/6/83
CHECKED	C. B. Dill, 9/6/83
DATE PREPARED	JANUARY 1984

BOSTON EDISON COMPANY

HPCI SYSTEM
HPCI PUMP SUCTION
ISI WELD MAP

STRESS ISO	5498-600	REVISED
FAB ISO	MMA-18-5	REV. PER PCAQ QAD 86-015
FAB 160	MMA-18-2	REVISED PER PCAQ QAD 87-0
FAB ISO	MMA-25-1	REVISED PER PCAQ 97-030
FAB ISO	MMA-11-9	
ISI PAID	ISEM244	
ISI PAID	ISEM244	

INFORMATION
ONLY
Use restricted to
reference



PIPE DATA			
ID	DB-23	EB-23	
MATL	CS		
NPS	10	14	14
NWT	.719	.938	.750
NC	34	44	

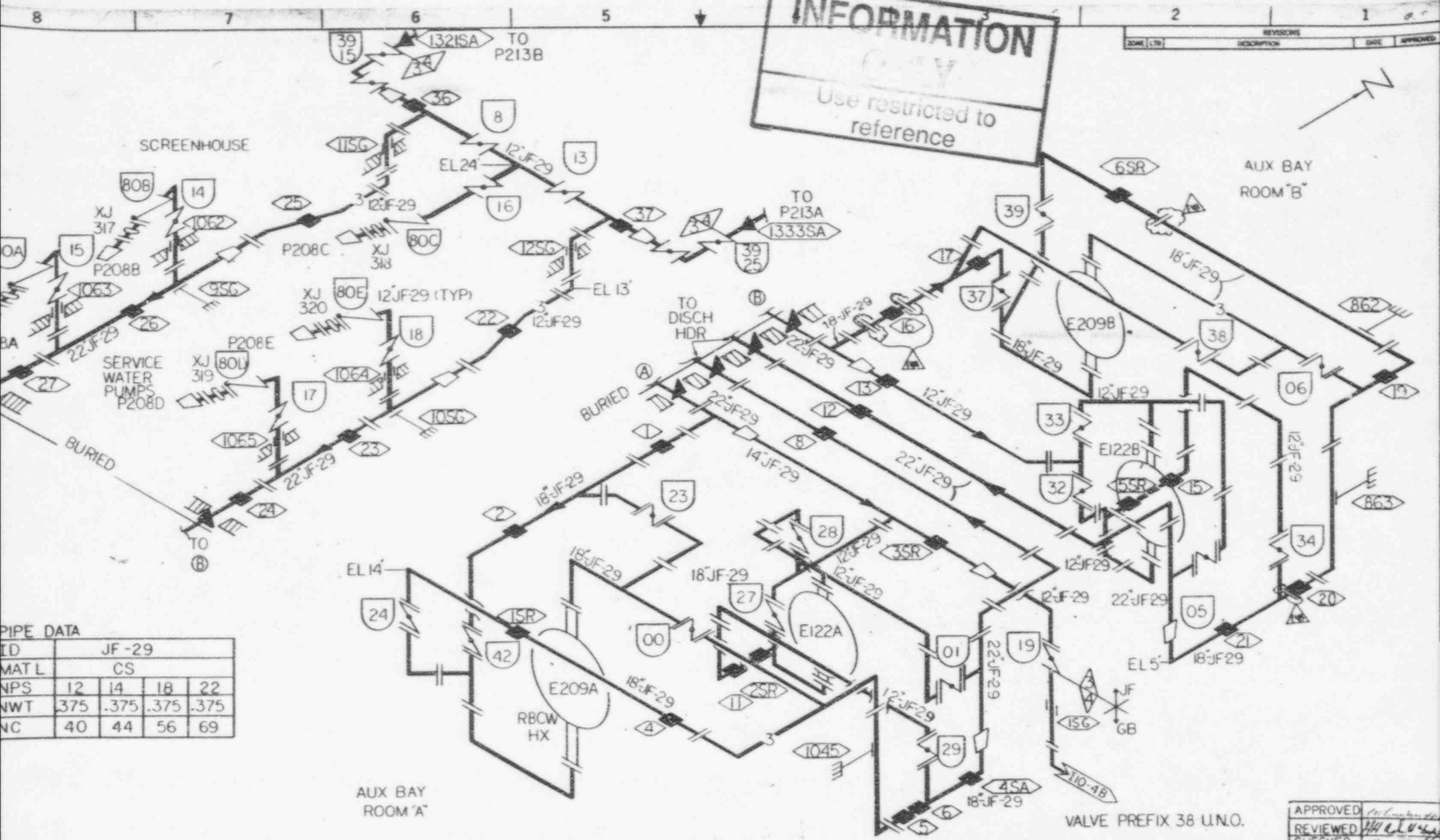
HPCI
ROOM

STRESS	ISO	16498-601-1	REV. PER PCAQ 91-030
STRESS	ISO	16498-601-2	REV. PER PCAQ 91-030
FAB	ISO	M100-7119	REV. PER PCAQ 91-030
FAB	ISO	M100-9-7	
FAB	ISO	M100-191-6	
ISI	P&ID	ISI M243	
ISI	P&ID	ISI M244	

ISI-1-23-5

APPROVED: *[Signature]*
REVIEWED: *[Signature]*
CHECKED: *[Signature]*
DATE: *[Date]*

BOSTON EDISON COMPANY
HPCI SYSTEM
HPCI PUMP DISCH TO REACTOR
ISI WELD MAP



PIPE DATA

ID	JF-29			
MAT L	CS			
NPS	12	14	18	22
NWT	.375	.375	.375	.375
NC	40	44	56	69

REFERENCE	DWG. #	REFERENCES	DWG. #
PAB 130	MIN 7227	ATMOS 130	MIN 7227
PAB 131	MIN 7228	ATMOS 131	MIN 7228
PAB 132	MIN 7229	ATMOS 132	MIN 7229
PAB 133	MIN 7230	ATMOS 133	MIN 7230
PAB 134	MIN 7231	ATMOS 134	MIN 7231
PAB 135	MIN 7232	ATMOS 135	MIN 7232
PAB 136	MIN 7233	ATMOS 136	MIN 7233
PAB 137	MIN 7234	ATMOS 137	MIN 7234
PAB 138	MIN 7235	ATMOS 138	MIN 7235
PAB 139	MIN 7236	ATMOS 139	MIN 7236
PAB 140	MIN 7237	ATMOS 140	MIN 7237
PAB 141	MIN 7238	ATMOS 141	MIN 7238
PAB 142	MIN 7239	ATMOS 142	MIN 7239
PAB 143	MIN 7240	ATMOS 143	MIN 7240
PAB 144	MIN 7241	ATMOS 144	MIN 7241
PAB 145	MIN 7242	ATMOS 145	MIN 7242
PAB 146	MIN 7243	ATMOS 146	MIN 7243
PAB 147	MIN 7244	ATMOS 147	MIN 7244
PAB 148	MIN 7245	ATMOS 148	MIN 7245
PAB 149	MIN 7246	ATMOS 149	MIN 7246
PAB 150	MIN 7247	ATMOS 150	MIN 7247
PAB 151	MIN 7248	ATMOS 151	MIN 7248
PAB 152	MIN 7249	ATMOS 152	MIN 7249

APPROVED _____

REVIEWED _____

CHECKED _____

DATE _____

BY _____

PROJECT NO. _____

SHEET NO. _____

BOSTON EDISON COMPANY

SERVICE WATER SYSTEM

SERVICE WATER SUPPLY & RETURN - E209

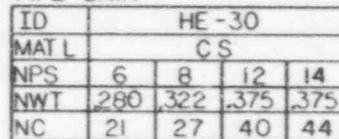
A & B, E122A & B ISI WELD MAP

Q Non Q

IS:129-1

416003930

Use restricted to
reference

[illegible]

ACCEPTED MANUSCRIPT
THIS DATE 2017

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

EXP

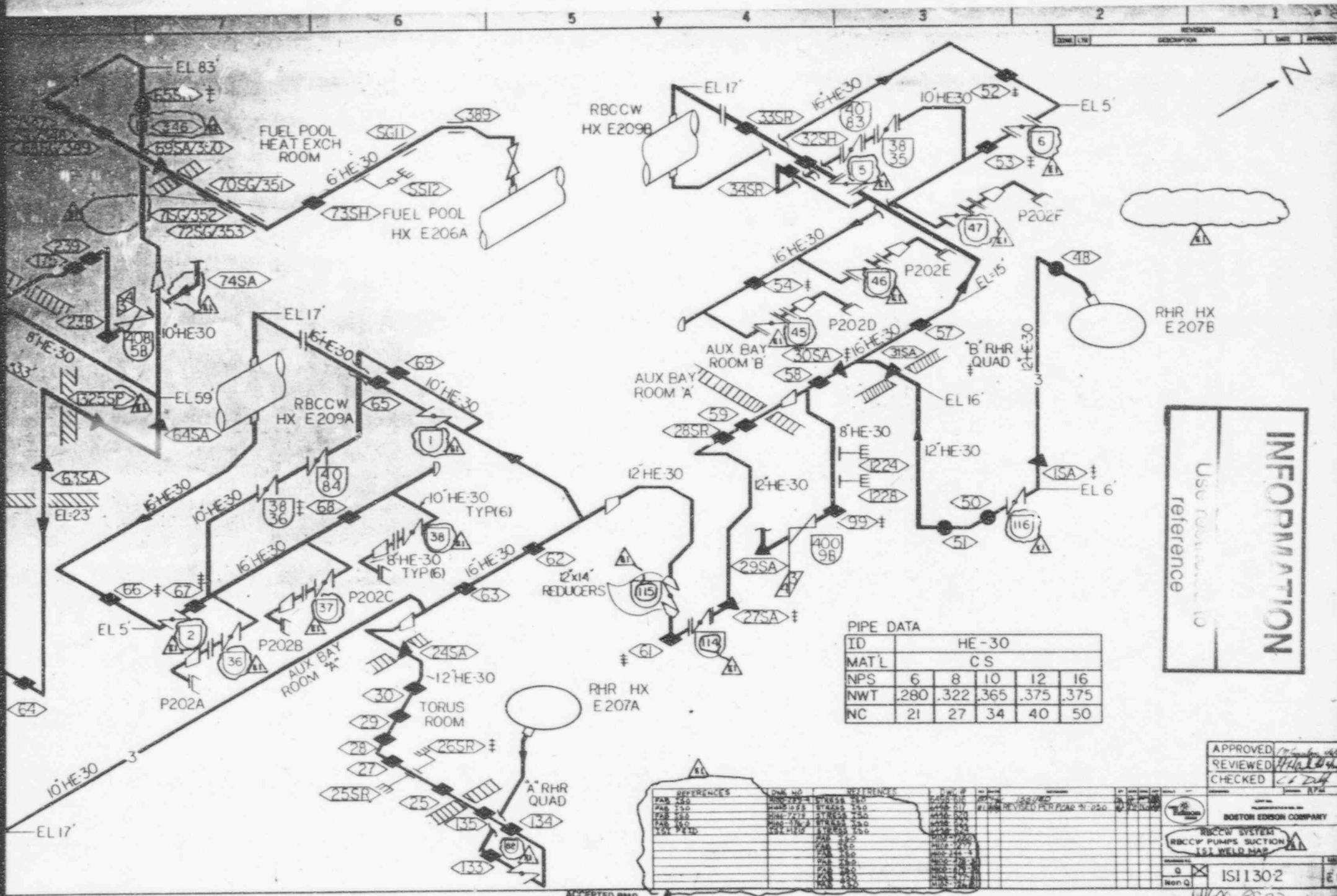
BOSTON EDISON COMPANY

RBCCW SYSTEM

CCW PUMPS DISCH

ISI WELD MAP

ISI I 30-1



INFORMATION
 Use reference to

PIPE DATA

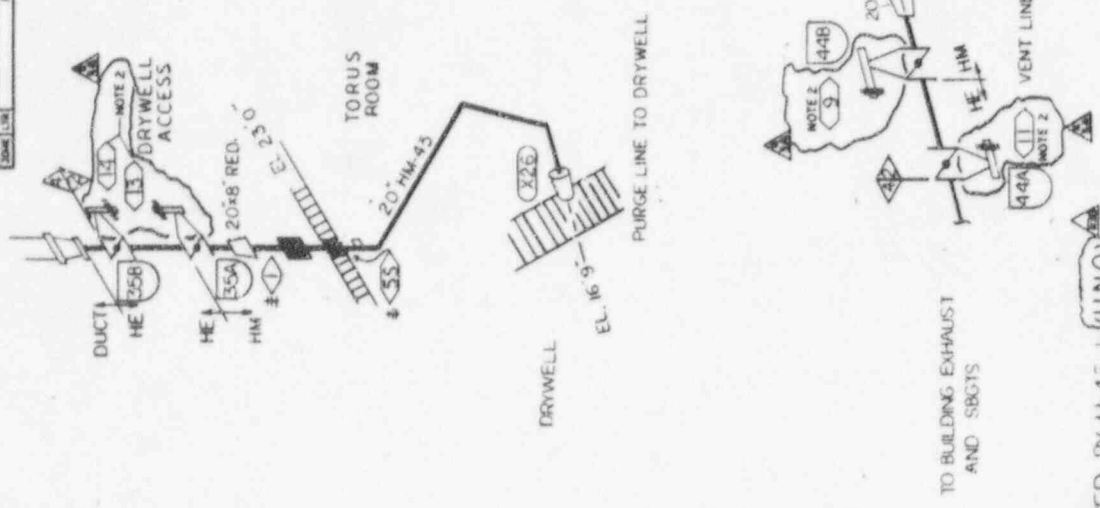
ID	HE-30				
MAT'L	C S				
NPS	6	8	10	12	16
NWT	.280	.322	.365	.375	.375
NC	21	27	34	40	50

REFERENCES

REV	DATE	DESCRIPTION	BY	CHKD
1	10/1/80	ISSUED FOR CONSTRUCTION	W. J. B.	W. J. B.
2	10/1/80	REVISED PER P202A	W. J. B.	W. J. B.
3	10/1/80	REVISED PER P202B	W. J. B.	W. J. B.
4	10/1/80	REVISED PER P202C	W. J. B.	W. J. B.
5	10/1/80	REVISED PER P202D	W. J. B.	W. J. B.
6	10/1/80	REVISED PER P202E	W. J. B.	W. J. B.
7	10/1/80	REVISED PER P202F	W. J. B.	W. J. B.

APPROVED _____
 REVIEWED _____
 CHECKED _____
 BOSTON Edison COMPANY
 RBCCW SYSTEM
 RBCCW PUMPS SUCTION
 1ST WELD MAP
 10/1/80
 41600-58-82

ACCEPTED RMD

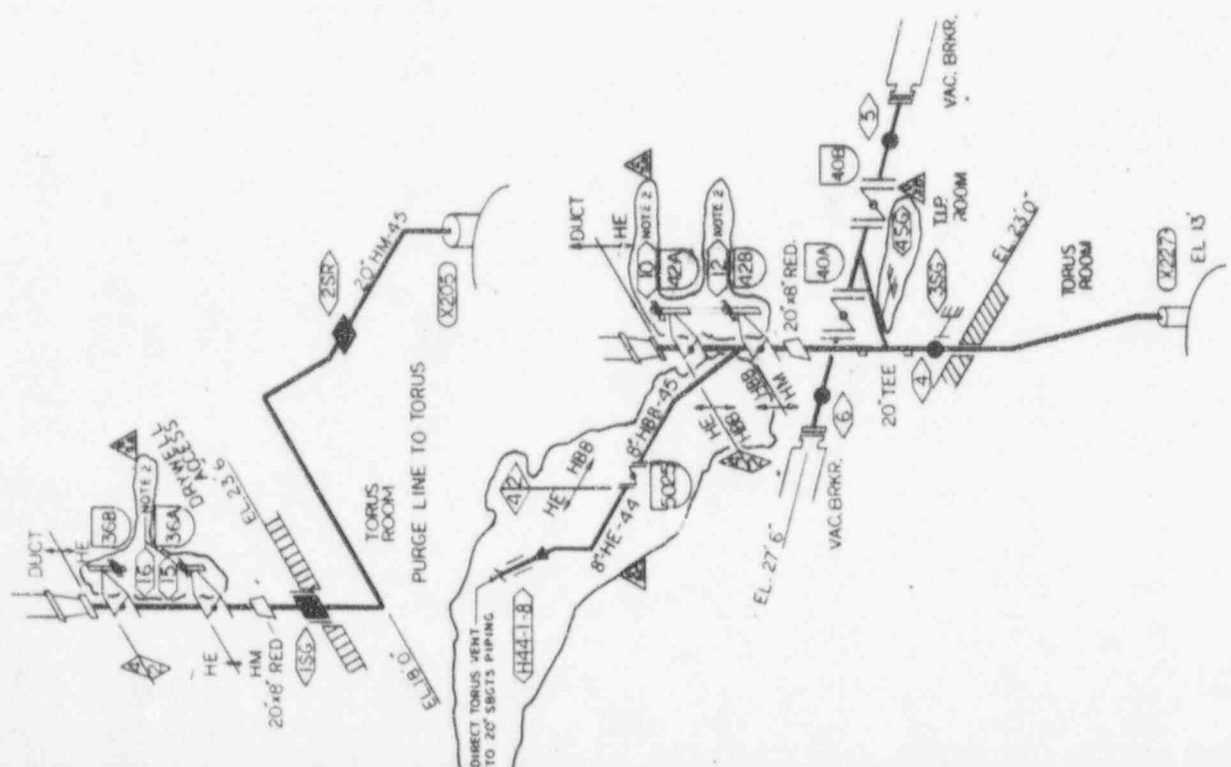


INFORMATION

Use restricted to reference

NOTES:

1. ALL SUPPORTS PREFIXED BY H-43-1 (UNO)
2. TIEBACK SUPPORTS FOR VALVE ACTUATORS



APPROVED: _____

REVIEWED: _____

CHECKED: _____

BOSTON DESIGN COMPANY

CONTAINMENT ATMOSPHERIC CONTROL SYS

DRYWELL & TORUS PURGE & VENT PIPING

131 WELD MAP

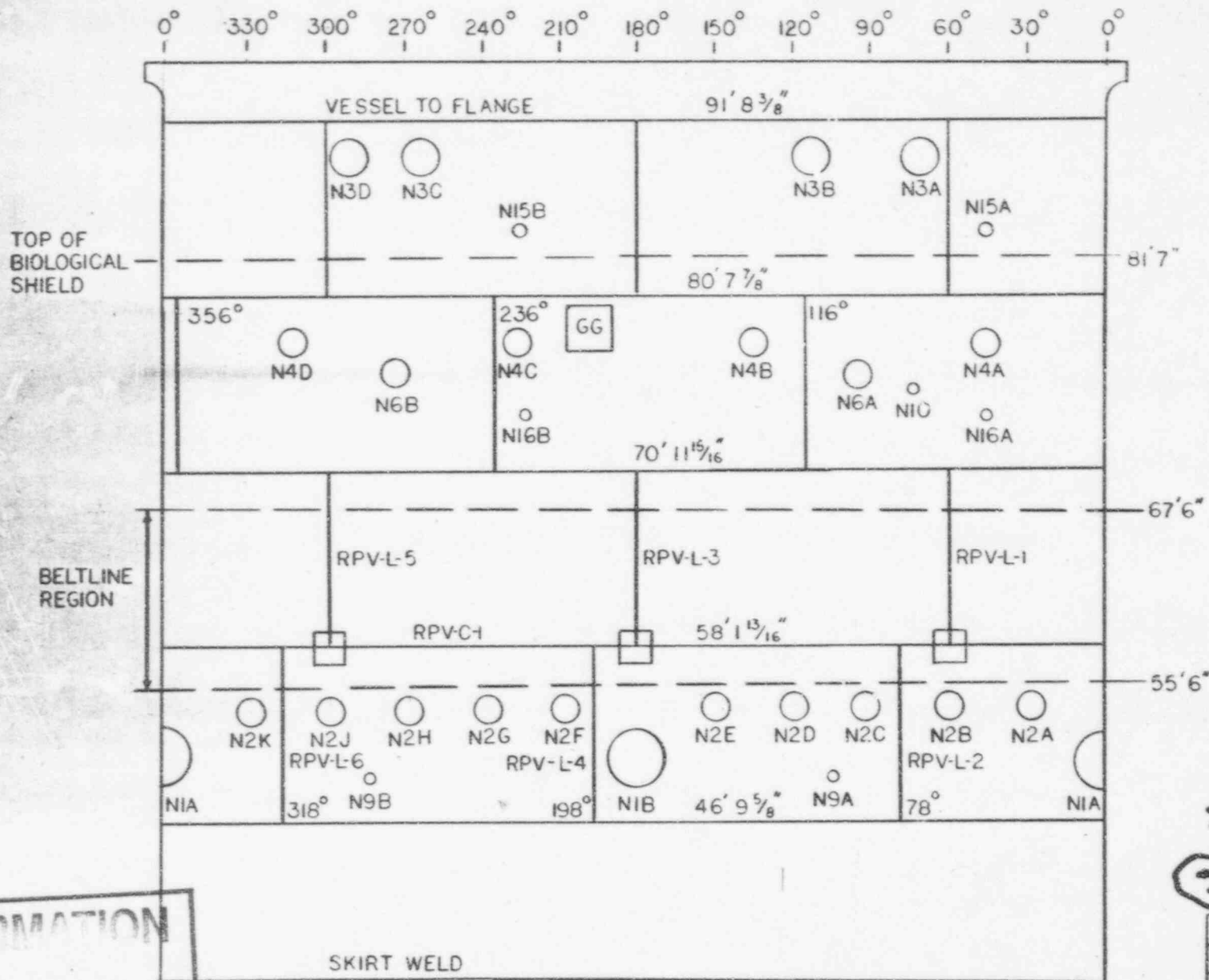
ISI150-1

Rev. Q

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VENT LINE FROM TORUS



INFORMATION

Use restricted to
reference

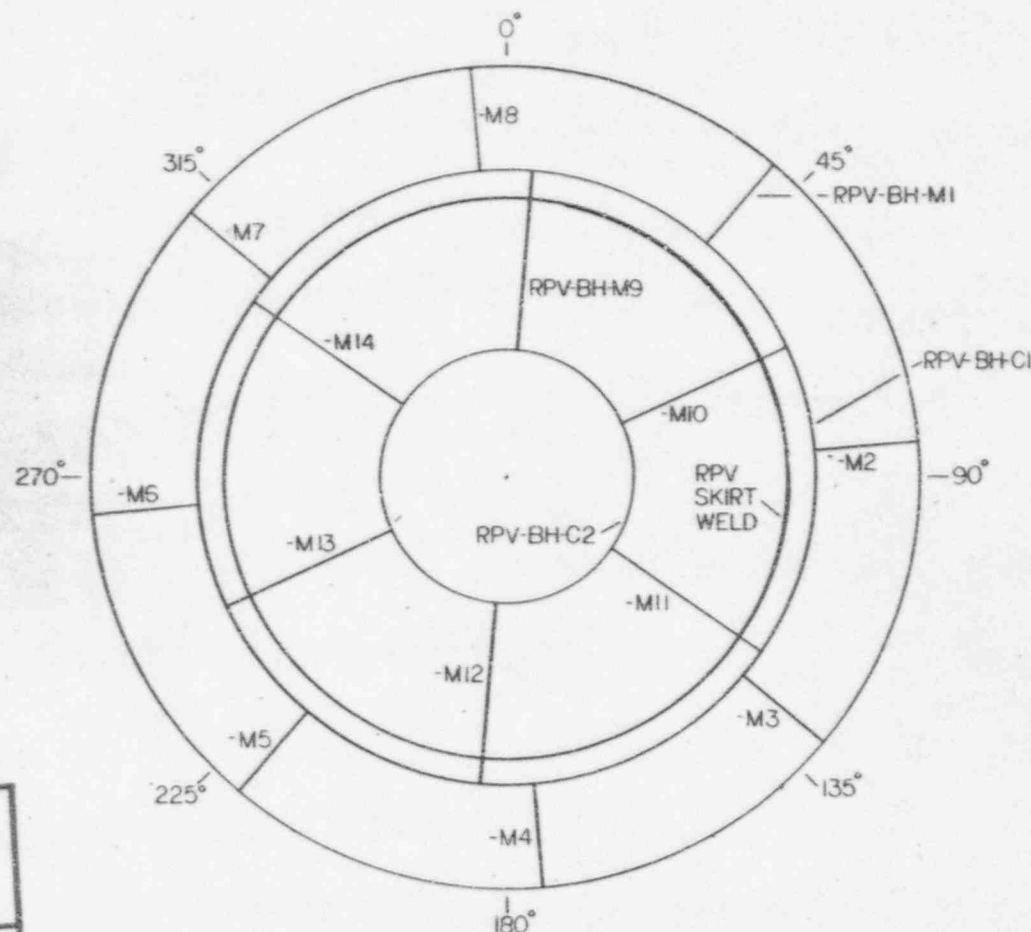
252-I-54-1

252-I-54-1

APPROVED	MR. [Signature]
REVIEWED	MR. [Signature]
CHECKED	MR. [Signature]
DESIGNED	AK [Signature]

NUCLEAR BOILER SYSTEM
REACTOR VESSEL WELDS & NOZZLES
IST WELD MAP

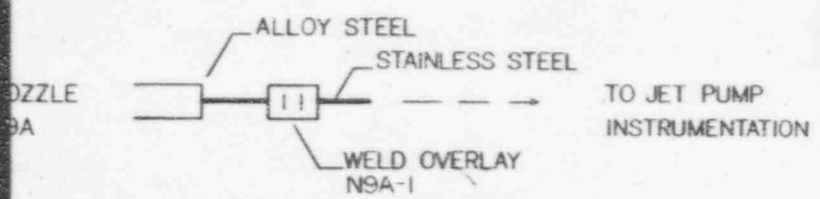
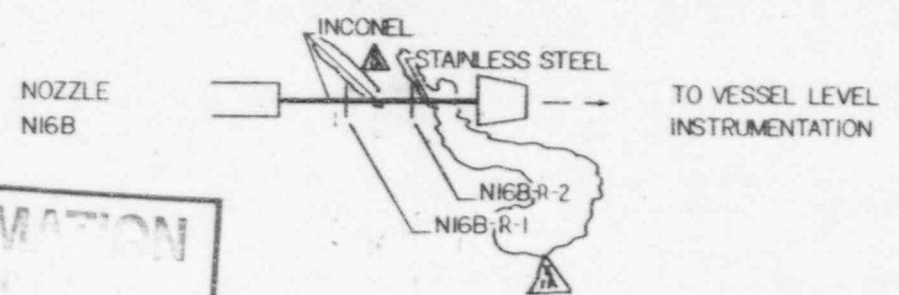
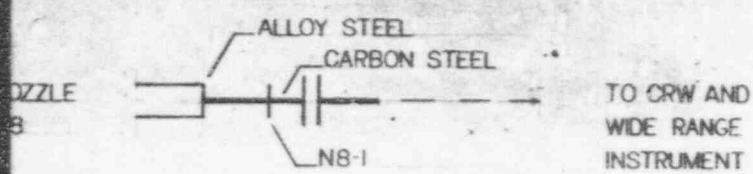
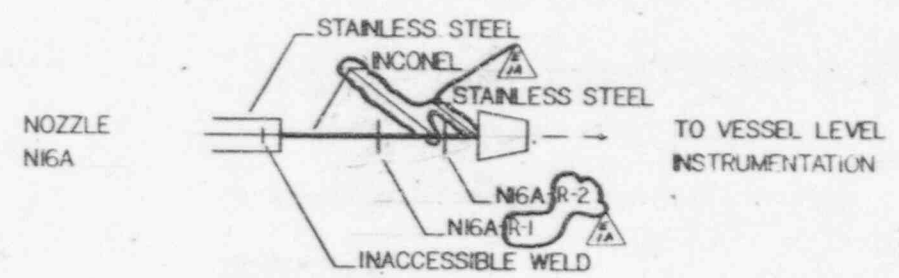
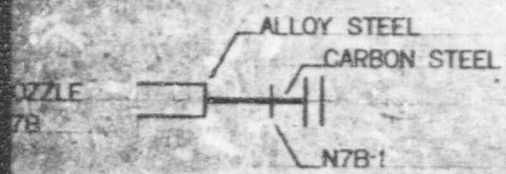
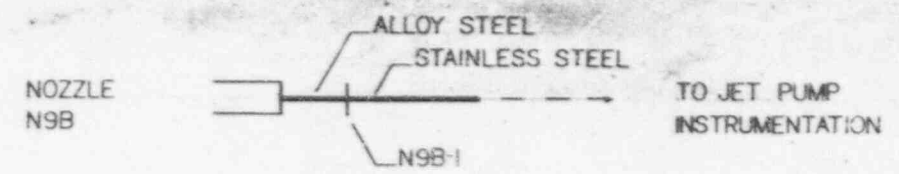
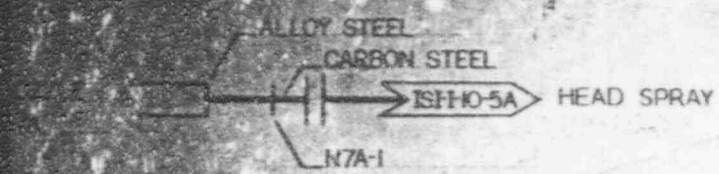
LINE	DESCRIPTION	DATE	APPROVED



INFORMATION
ONLY
 Use restricted to
 reference

APPROVED	REVIEWED	CHECKED
BOSTON Edison COMPANY NUCLEAR BOILER SYSTEM REACTOR VESSEL BOTTOM HEAD WELDING (SI WELD)		
Q	Non Q	ISI-1543

ACCEPTED FOR THIS DATE 10/10/79



INFORMATION
ON
Use restricted to reference

REVISION	DATE	BY	CHKD	APP'D
1	10/15/54	ISI		
2	11/15/54	ISI		
3	12/15/54	ISI		
4	1/15/55	ISI		
5	2/15/55	ISI		
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8	5/15/55	ISI		
9	6/15/55	ISI		
10	7/15/55	ISI		
11	8/15/55	ISI		
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80	5/15/61	ISI		
81	6/15/61	ISI		
82	7/15/61	ISI		
83	8/15/61	ISI		
84	9/15/61	ISI		
85	10/15/61	ISI		
86	11/15/61	ISI		
87	12/15/61	ISI		
88	1/15/62	ISI		
89	2/15/62	ISI		
90	3/15/62	ISI		
91	4/15/62	ISI		
92	5/15/62	ISI		
93	6/15/62	ISI		
94	7/15/62	ISI		
95	8/15/62	ISI		
96	9/15/62	ISI		
97	10/15/62	ISI		
98	11/15/62	ISI		
99	12/15/62	ISI		
100	1/15/63	ISI		

APPROVED _____
REVIEWED _____
CHECKED _____

BOSTON DESIGN COMPANY

NUCLEAR BOILER SYSTEM
REACTOR VESSEL NOZZLES
ISI WELD MAP

ISI-1-54-4