

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

Prepared by *David A. Parker* Date 8-8-95
Reviewed by *John G. Gagnier* Date 8/8/95
Approved by *John Self* Date 8/8/95

BOSTON EDISON COMPANY
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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 VISSUAL 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 Invessel 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 veified 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 In vessel (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 In vessel 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 N/A
SYSTEM: RPV	N/A REV: N/A FRR: N/A N/A N/A
WELD NO.: Access Hole Cover @ 0°	<input type="checkbox"/> MT <input type="checkbox"/> PT <input checked="" type="checkbox"/> UT <input type="checkbox"/> VT
CONFIGURATION: AHC TO SHROUD LEDGE	
EXAMINER: P. JOHNSON LEVEL: III	WELD TYPE: <input checked="" type="checkbox"/> CIRCUMFERENTIAL
EXAMINER: N/A LEVEL: N/A	<input type="checkbox"/> LONGITUDINAL <input type="checkbox"/> OTHER N/A
EXAMINER: N/A LEVEL: N/A	CAL SHEET NO.(S): C-01,02,03,04,05,06, & 07

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.

ID geometry was recorded with both the 45° shear and 60° RL search units.

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.

IVVI tapes and previous data were reviewed prior to this summary.

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.

Note made by M. Stamm, GE-NE, Project Manager, Level III

Michael Stamm LV III
 5/24/95

SUMMARY BY <i>Paul Johnson</i>	LEVEL III	DATE 5-13-95	REVIEWED BY <i>Bruce Pupa</i>	DATE 5-24-95	PAGE: 1 OF: 10 <small>FORM UT-09 REV. 7</small>
GE REVIEW <i>Michael Stamm</i>	LEVEL III	DATE 5/23/95	REVIEWED BY BCG III	DATE	

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

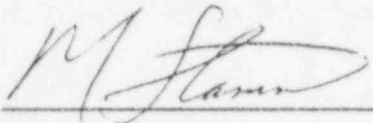
EQUIPMENT

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

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS
 As required by the Provisions of the ASME Code Rules

1. Owner Boston Edison Company
(Name and Address of Owner)

2. Plant Pilgrim Nuclear Power Station, RFD#1, Rocky Hill Road,
(Name and Address of Plant) Plymouth, MA

3. Plant Unit #1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 12-9-72 6. National Board Number for Unit 20763

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Eng.	66107	66207	20763
Piping	Bechtel	N/A	N/A	N/A
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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 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. Farulaxi
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
[Signature] Commissions MA 1420
Inspector's 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 Sheet 1 of 1
 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 Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

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 RC II m 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 Sheet 1 of 1
 Address

2. Plant Pilgirm 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 Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

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 6-1-95 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 8-11-95

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 Pilgirm 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 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 _____
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. Schyler QCAM 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 6-1-95, 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 8-11 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 Pilgirm Nuclear Power Station Unit #1
 Name _____
600 Rocky Hill Road, Plymouth, MA 02380 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 RCOM 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.

J.S. Moran 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

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station Unit #1

Name

600 Rocky Hill Road, Plymouth, MA 02360

Address

MR# 19401196

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

Address

Authorization No. N/A

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-203-3C	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 [Signature] QC DM Date 6/8 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.

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

Date 8/1 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# 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 Replacemement	ASME CODE Stamped (Yes or No)
RV-203-4B	Target Rock	body was # BK 6309	—	—	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 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] 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.

[Signature] 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
 Sheet 1 of 1

2. Plant Pilgirm 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 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. 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.

[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 3-21-95

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

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

Address

Authorization No. N/A

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

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 [Signature] 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.

[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 Sheet 1 of 1
 Address

2. Plant Pilgirm 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 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-203-38	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 _____ 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 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.

[Signature] 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 3-20-95

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

Address

MR# P9500188

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

Address

Authorization No. N/A

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 Ol Schifone QCIM 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 Sheet 1 of 1
 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 visable 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 applicalbe 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 conrol 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 _____ 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.

[Signature] _____ 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 Sheet 1 of 1
 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 _____ 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 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 _____

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.

[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 8-17-95
 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# 19401360
 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)
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 Schifer 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.

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

Date 8-18-1995

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 Pilgirm 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

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 Replacment	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 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 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 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 2-10-95
 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# 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 Sheet 1 of 1
 Address

2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19403488
 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 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	—	—	—	—	—	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 R. Schifano 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 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 5-18 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 4-20-95

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

Address

MR# 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

Address

Authorization No. N/A

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 Replacment	ASME CODE Stamped (Yes or No)
2-HO-261-64B	Rockwell	<u> </u>	<u> </u>	<u> </u>	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 [Signature] _____ Date 8/8 19 95
Owner or Owner's Designee, Title QC/M

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.

[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 9-9-94
 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# 19401287
 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 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 OC 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 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, 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# 19401329
 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 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 [Signature] QC/M 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.

[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 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# 19401333
 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 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	<u> </u>	<u> </u>	<u> </u>	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 D. Schen 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/0</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 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 _____
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 [Signature] QCDA 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 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

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 Pilgirm 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
 ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____
 Certificate of Authorization No. _____ Expiration Date _____
 Signed QC Schifano 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 Sheet 1 of 1
 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 R. Schibae 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.

[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 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# 19401292
 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)
SS-6-10-03 Snubber	Bergen Paterson	440	—	—	—	replace	No

7. Description of Work Remove and replace snubber per MWP#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 QCQM 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.

OS Mark 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 9-13-94
 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# 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 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 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 Replacment	ASME CODE Stamped (Yes or No)
PSV-1001-22B Safety Valve	Anderson Greenwood	—	—	—	92	replace	Yes
PSV-8006 Safety Valve	Andreson 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 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 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. Schifano 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 9-13-94 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.

[Signature] 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 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# 19401246
 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 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. Schifone 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.

D.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 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 No. 19501162
 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 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 wstud						replaced	No

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

8. Tests Conducted: Hydrostatic Pneumatic Normal 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. Schipani 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 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.

J.S. 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 3-23-95
 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# 19401362
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by General Electric Company Type Code Symbol Stamp N/A
 Name Authorization No. N/A
640 Freedom Business Center, King of Prussia, PA 19406 Expiration Date N/A
 Address

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 Replacment	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 _____ 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 [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

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Name

600 Rocky Hill Road, Plymouth, MA 02360

Address

Unit #1

MR# 19402113

Repair Organization P.O. No. Job No. etc.

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Type Code Symbol Stamp N/A

Authorization No. N/A

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)
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 _____ 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. Schiavone 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.

[Signature] 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 Sheet 1 of 1
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR No. 19501278
 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)
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 _____ 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 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.

[Signature] 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 04-26-95
 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 No. 19302083
 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 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 _____ 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 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 4-26-95 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 Sheet 1 of 1
 Address _____
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name _____
600 Rocky Hill Road, Plymouth, MA 02360 MR No. 19400753
 Address _____ Repair Organization P.O. No. Job No. etc. _____
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name _____ Authorization i/o. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address _____

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. 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 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 8-4-1995

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 04-20-95
 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 No. 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 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 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 4-20-95 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.

[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 02-27-95
 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. 19401364
 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 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 J. 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.

J.S. Nye 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 Sheet 1 of 1
 Address
 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 Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

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.

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[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 04-21-95
 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 # 19201723
 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 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	—	—	—	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 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 _____ 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 Sheet 1 of 1
 Address _____
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name _____
600 Rocky Hill Road, Plymouth, MA 02360 MR # 19402948
 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 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 <i>VALVE</i>	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 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 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 Authorization No. N/A
600 Freedom Business Center, King of Prussia, PA 19406 Expiration Date N/A
 Address

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. 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.

[Signature] 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

Sheet 1 of 1

2. Plant Pilgirm Nuclear Power Station Unit #1

Name

600 Rocky Hill Road, Plymouth, MA 02360

Address

MR # 19302417

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

Address

Authorization No. N/A

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: Supplements: 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 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 8/3 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.

[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 09-09-94
 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 # 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 Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

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 QCQM 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 6-29-95
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgirm Nuclear Power Station Unit #1
 Name MR#19500423, 19401118
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19402447, 19402436, 19301461
 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)
H10-1-1025 Support	Bergen Paterson	—	—	—		repair	No
H10-1-155 Support	Bergen Paterson	—	—	—	95	replace	No
H10-1-280 Support	Bergen Paterson	—	—	—	95	repalce	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.

R. Sch 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 Sheet 1 of 1
 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 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)
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 7-9-94 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.

[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 5-6-94
 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# 19201160
 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 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 ASME Code, Section XI. ~~repair or replacement~~

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 5694 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. ... 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 Pilgrim 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 _____ 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 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.

[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
Name
800 Boylston St. Boston, MA
Address

Date 9-23-94
 Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station
Name
Rocky Hill Road, Plymouth, MA
Address

Unit I
Target Rock Corp; P.O.112250B

3. Work Performed by Target Rock Corp & Owner
Name
Westinghouse Western Service Centre
Address
Main Steam

Repair Organization P.O. No., Job No., etc. N/A MRIR# 95-1507
 Type Code Symbol Stamp _____
 Authorization No. N/A
 Expiration Date N/A

4. Identification of System _____
 5. (a) Applicable Construction Code ASME I ICL I 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 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 N/A

Signed [Signature] Date 2/14, 19 95
Owner or Owner's Designee, Title QA Manager

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, 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 4-21-94
 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# 90-29-106
 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)
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
ASME Code, Section XI
repair or replacement

Type Code Symbol Stamp _____ N/A _____

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

Signed R. Schone 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. JER 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
 Sheet 1 of 1

2. Plant Pilgirm Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19500312
 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)
Flange Conn. D/S of valve 29-HO-3887	—	—	—	—	95	repair	No

7. Description of Work Replce 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. Scalfone 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.

Inspector's Signature [Signature] Commissions MA 1422
 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 Pilgirm 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 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 #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 Replacment	ASME CODE Stamped (Yes or No)
Check Valve #58A	Anchor Darling	/	/	/	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.

[Signature] Commissions MA 1490
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
 Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR# 19401234
 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)
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 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 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 A. Schube 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 7-9-94 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.

[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 Sheet 1 of 1
 Address
 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 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)
29-HO-3842 Butterfly Valve	Pratt	Mono Flange II, CS	<input checked="" type="checkbox"/>	MK#994	94	replace	No
29-HO-3829 Butterfly Valve	Pratt	Mono Flange II, CS	<input checked="" type="checkbox"/>	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 1/2 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 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 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 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 Sheet 1 of 1
 Address

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 Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	replace	No
SS-1-10-03 Snubber	Anchor Darling	474	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	replace	No
SS-1-10-04 Snubber	Bergen Paterson	423	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	replace	No
SS-1-10-06 Snubber	Bergen Paterson	17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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 A. 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.

[Signature] 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 04-18-95
 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 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

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

Sheet 1 of 1

2. Plant Pilgirm Nuclear Power Station Unit #1

Name

600 Rocky Hill Road, Plymouth, MA 02360

Address

MR#'s 19401236, 19401287, 19401331, 19401330

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

Address

Authorization No. N/A

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. Schone 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. Schone 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 Sheet 1 of 1
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
600 Rocky Hill Road, Plymouth, MA 02360 MR No. P9401344
 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 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 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 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 repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp —

Certificate of Authorization No. — Expiration Date —

Signed Q.S. Schone 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.

Q.S. Schone 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 _____ Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address _____

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 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 Schm 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.

Inspector's Signature _____ Commissions MA-1420
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 Sheet 1 of 1
 Address _____
 2. Plant Pilgirm 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 _____ Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address _____

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			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 Ol 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.

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

Date 8.4.1995


SECTION 3.0

SYMBOLS

VALVES

 GATE/GLOBE









 BUTTERFLY

 CHECK (FLOW →)



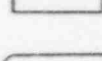
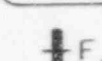
SUPPORTS



-  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 BELLOWS
-  INTEGRAL WELD

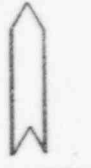
NOTATION


-  VALVE #
-  SUPPORT #
-  SPOOL #
-  PENETRATION #

 F (SINGLE LETTER) FIELD WELD
 (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

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 --1--
 (SYSTEM #) (SUPPORT #)

WELDS (CLASS 2)

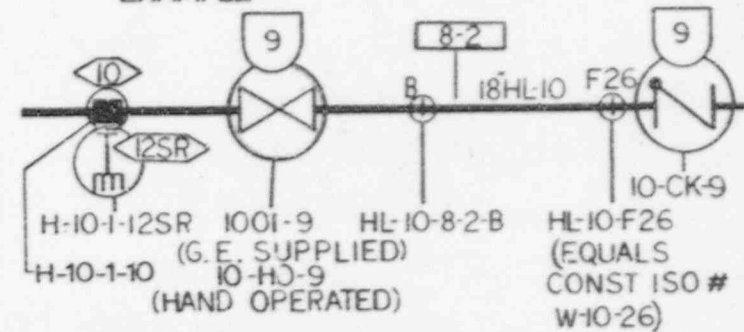
SHOP

-- -- --
 (LINE #) (SPOOL #) (WELD #)

FIELD

--F--
 (LINE #) (WELD #)


EXAMPLE



PIPE DATA

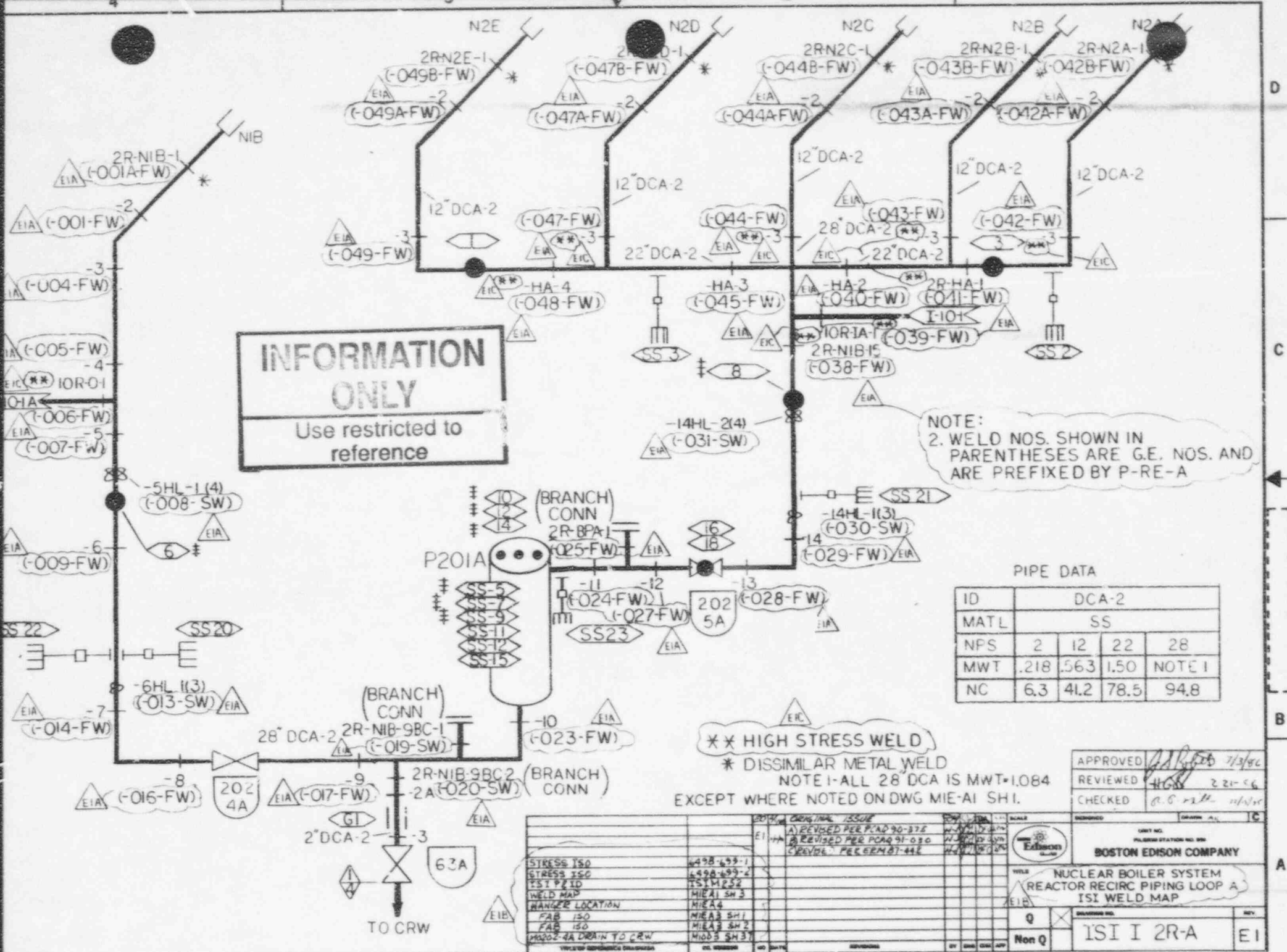
ID	PIPE IDENTIFICATION
MATL	MATERIAL CS-CARBON STEEL SS-STAINLESS "
NPS	NOMINAL PIPE SIZE
NWT	" WALL THICKNESS
MWT	MINIMUM " "
NC	NOMINAL CIRCUMFERENCE

APPROVED *[Signature]*
 REVIEWED *[Signature]*
 CHECKED *[Signature]*

NO. OF ISSUES	ISSUED	DATE	BY	REVISION	DATE	BY
1	REVISED PER PCAQ 91-030					
2	REVISED PER PCAQ 91-103					
						
BOSTON EDISON COMPANY TITLE ISOMETRIC LEGEND ISI WELD MAP Non C						
						E2

ACCEPTED RMD
 DATE 1/12/82

41600-3901



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			
NFS	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\"/>

APPROVED: *[Signature]* 7/13/80
REVIEWED: *[Signature]* 2-21-86
CHECKED: *[Signature]* 11/2/80

NO.	DATE	DESCRIPTION	BY	CHKD	APP
1		ORIGINAL ISSUE			
2		A) REVISED PER P.O. 90-375			
3		B) REVISED PER P.O. 91-020			
4		C) REVISED PER P.O. 87-442			
5					
6					
7					
8					
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49					
50					

EDISON
BOSTON EDISON COMPANY

NUCLEAR BOILER SYSTEM
REACTOR RECIRC PIPING LOOP A
ISI WELD MAP

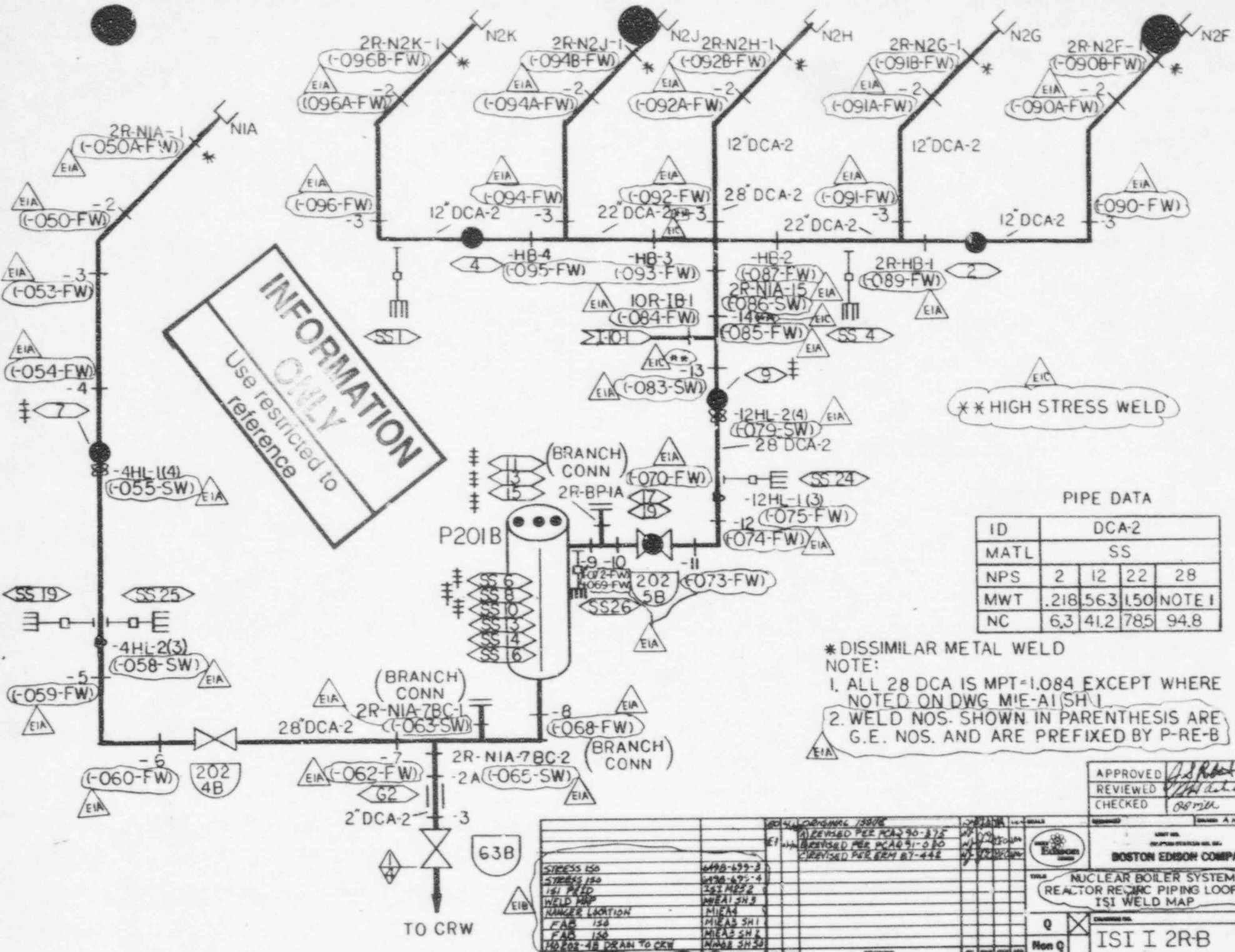
Q Non Q

ISI I 2R-A

EI

ACCEPTED RMG
THIS DATE

41600-4271



INFORMATION ONLY
 Use restricted to reference

** HIGH STRESS WELD

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

* DISSIMILAR METAL WELD
 NOTE:
 1. ALL 28 DCA IS MPT=1.084 EXCEPT WHERE NOTED ON DWG M/E-A1(SH)
 2. WELD NOS. SHOWN IN PARENTHESIS ARE G.E. NOS. AND ARE PREFIXED BY P-RE-B

APPROVED	<i>[Signature]</i> 7/4/68
REVIEWED	<i>[Signature]</i> 7/10/68
CHECKED	<i>[Signature]</i> 7/11/68

REV	DESCRIPTION	DATE	BY	CHKD
1	ORIGINAL ISSUE			
2	REVISED PER PCA 90-272			
3	REVISED PER PCA 91-080			
4	REVISED PER GEM 87-442			

BOSTON EDISON COMPANY
 NUCLEAR BOILER SYSTEM
 REACTOR RECIRC PIPING LOOP B
 ISI WELD MAP

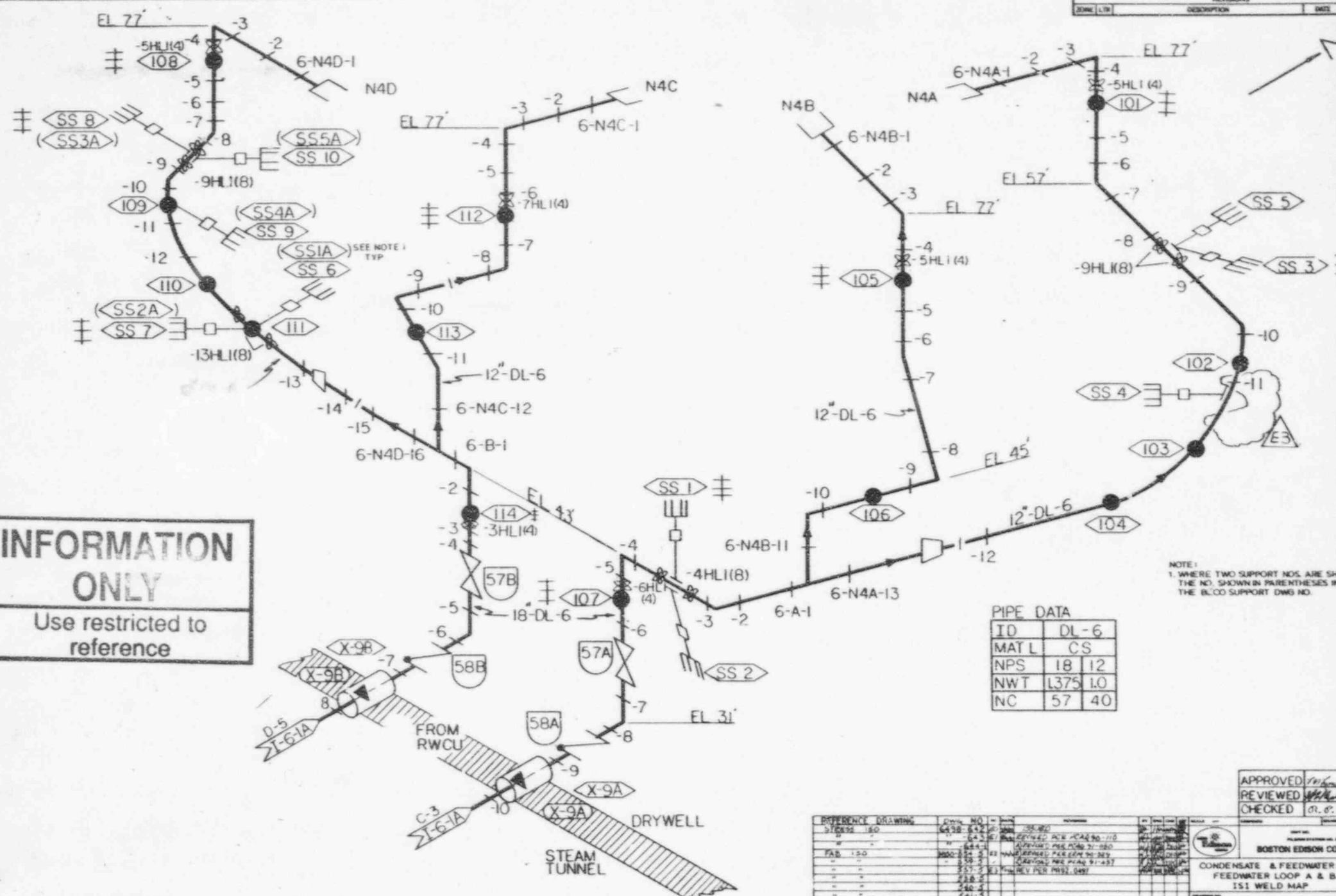
Q CHANGED TO
 Non Q

ISI I 2R-B

ACCEPTED RMG
 THIS DATE 2/19/68

41604224

REV	DATE	DESCRIPTION	BY

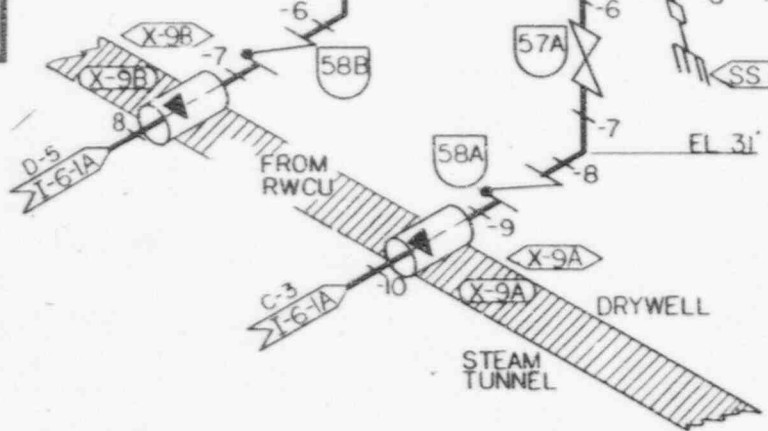


INFORMATION ONLY
Use restricted to reference

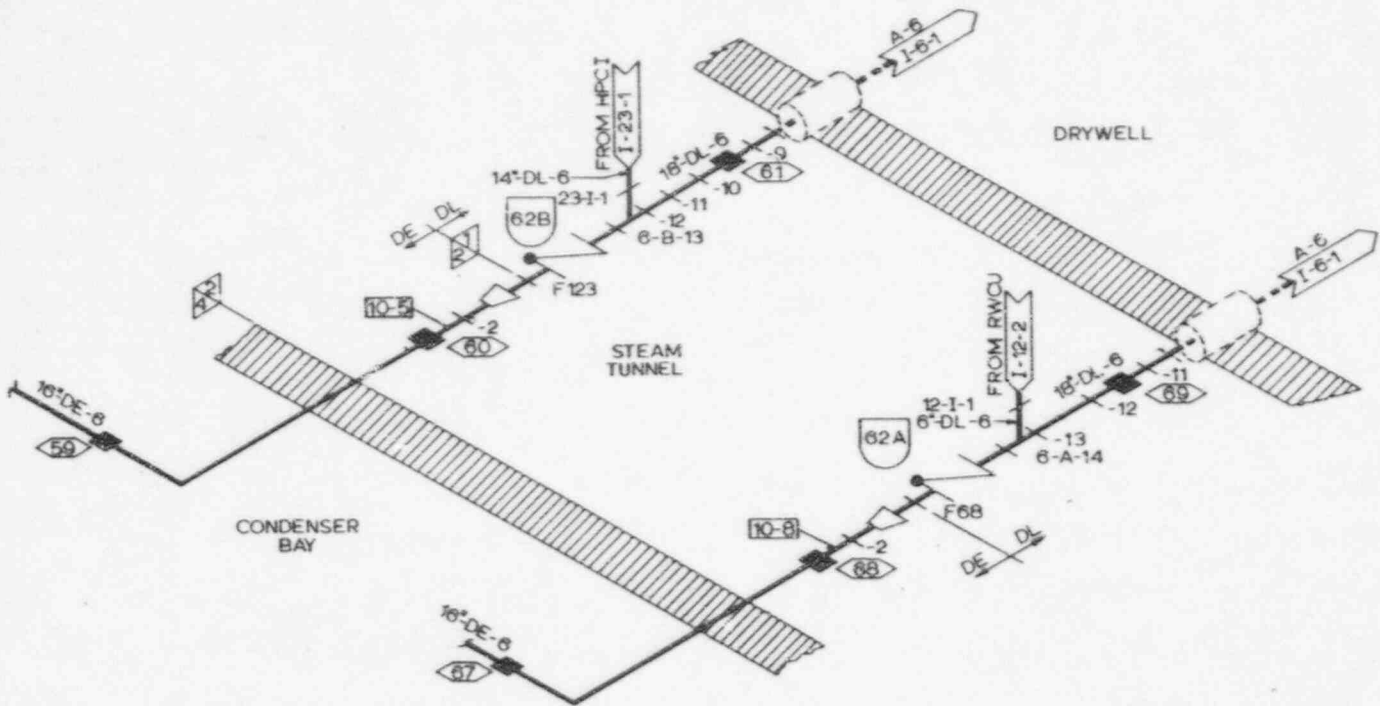
NOTE:
1. WHERE TWO SUPPORT NOS. ARE SHOWN, THE NO. SHOWN IN PARENTHESES IS THE BLDG SUPPORT DWG NO.

PIPE DATA

ID	DL-6
MAT L	CS
NPS	18 12
NWT	L375 1.0
NC	57 40



8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



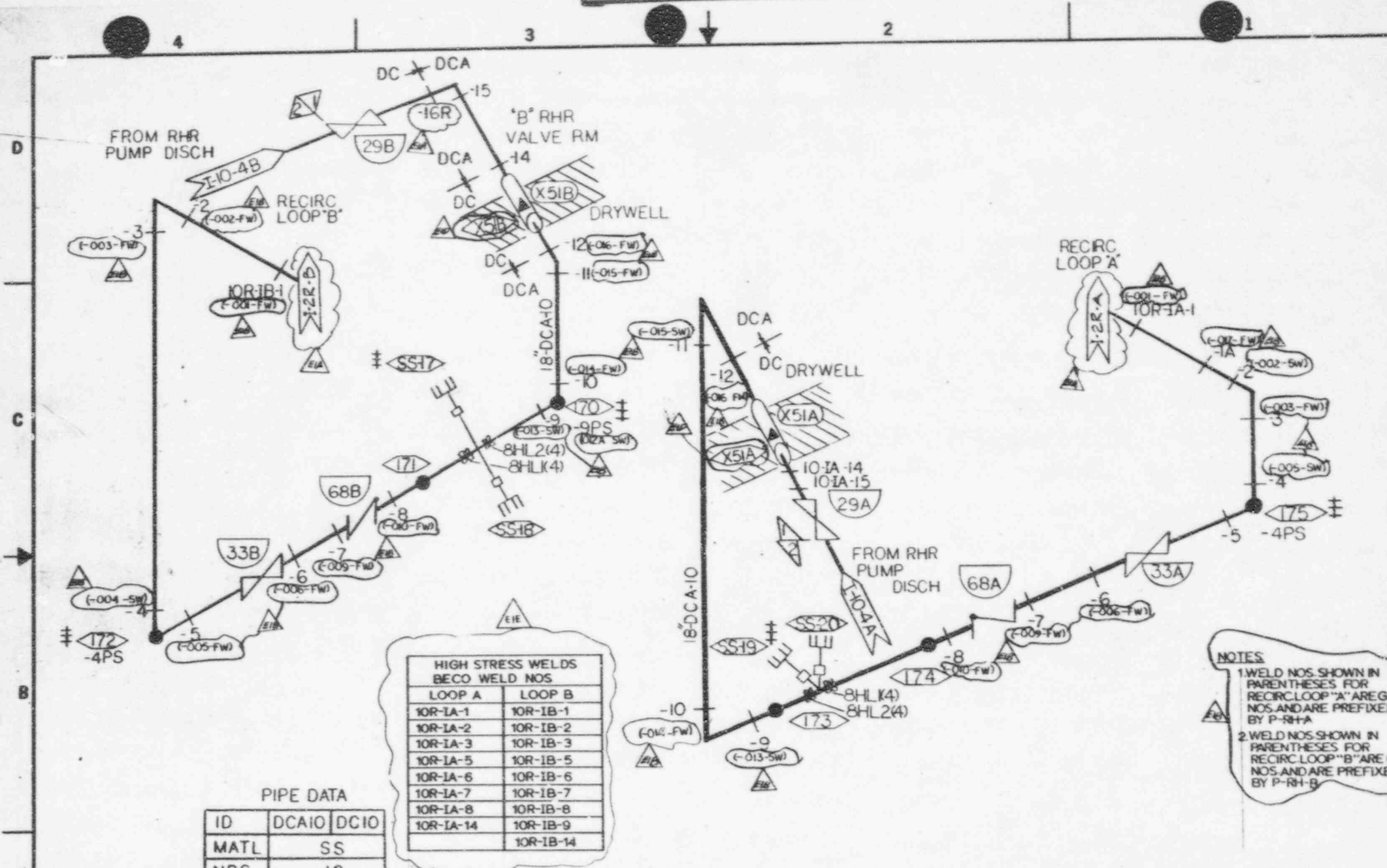
INFORMATION
 Use restricted to
 reference

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	
10-DE-6 14-DL-6 16-DL-6 18-DL-6 12-I-1 6-DL-6 6-A-14 F123 F68 62A 62B 1-23-1 1-12-2 A-6 1-6-1 10-B 10-B 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	41600-1328 ACCEPTED DATE 11/11/88 BY [Signature] 41600-1328

C | B | A | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8



HIGH STRESS WELDS
BECO WELD NOS

LOOP A	LOOP B
10R-IA-1	10R-IB-1
10R-IA-2	10R-IB-2
10R-IA-3	10R-IB-3
10R-IA-5	10R-IB-5
10R-IA-6	10R-IB-6
10R-IA-7	10R-IB-7
10R-IA-8	10R-IB-8
10R-IA-14	10R-IB-9
	10R-IB-14

PIPE DATA

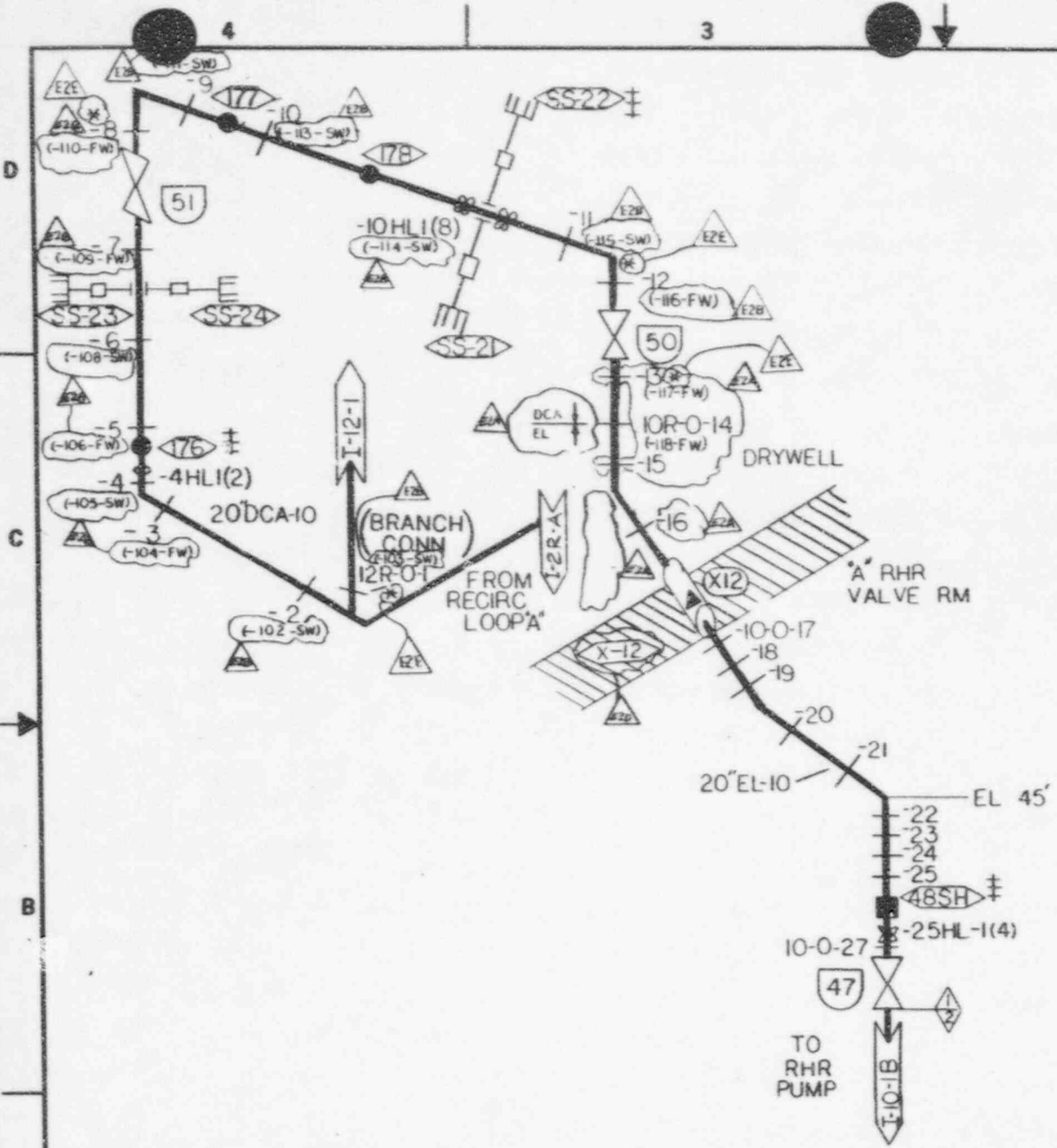
ID	DCA10	DC10
MATL	SS	
NPS	18	
NWT	.755	.755
NC	57	

NOTES

1. WELD NOS. SHOWN IN PARENTHESES FOR RECIRC LOOP "A" ARE GEN NOS. AND ARE PREFIXED BY P-RH-A
2. WELD NOS. SHOWN IN PARENTHESES FOR RECIRC LOOP "B" ARE GEN NOS. AND ARE PREFIXED BY P-RH-B

DESCRIPTION	REV	DATE	BY	CHKD	APP'D
STRESS ISO (LOOP A)	0-000	7			
STRESS ISO (LOOP A)	0-000	000			
STRESS ISO (LOOP B)	0-000	000			
STRESS ISO (LOOP B)	0-000	000			
ISSUED					
A-REV PER POCAS-78					
B-REV PER POCAS-90-375					
C-REV PER POCAS-91-034					
D-REV PER ERM 95-349					
E-REV PER ERM 97-442					

RESIDUAL HEAT REMOVAL SYSTEM
RHR PIPING LOOPS A & B
WELD MAP



PIPE DATA

ID	DCA IO	ELIO
MATL	SS	CS
NPS	20	
NWT	.786	1.031
NC	64	

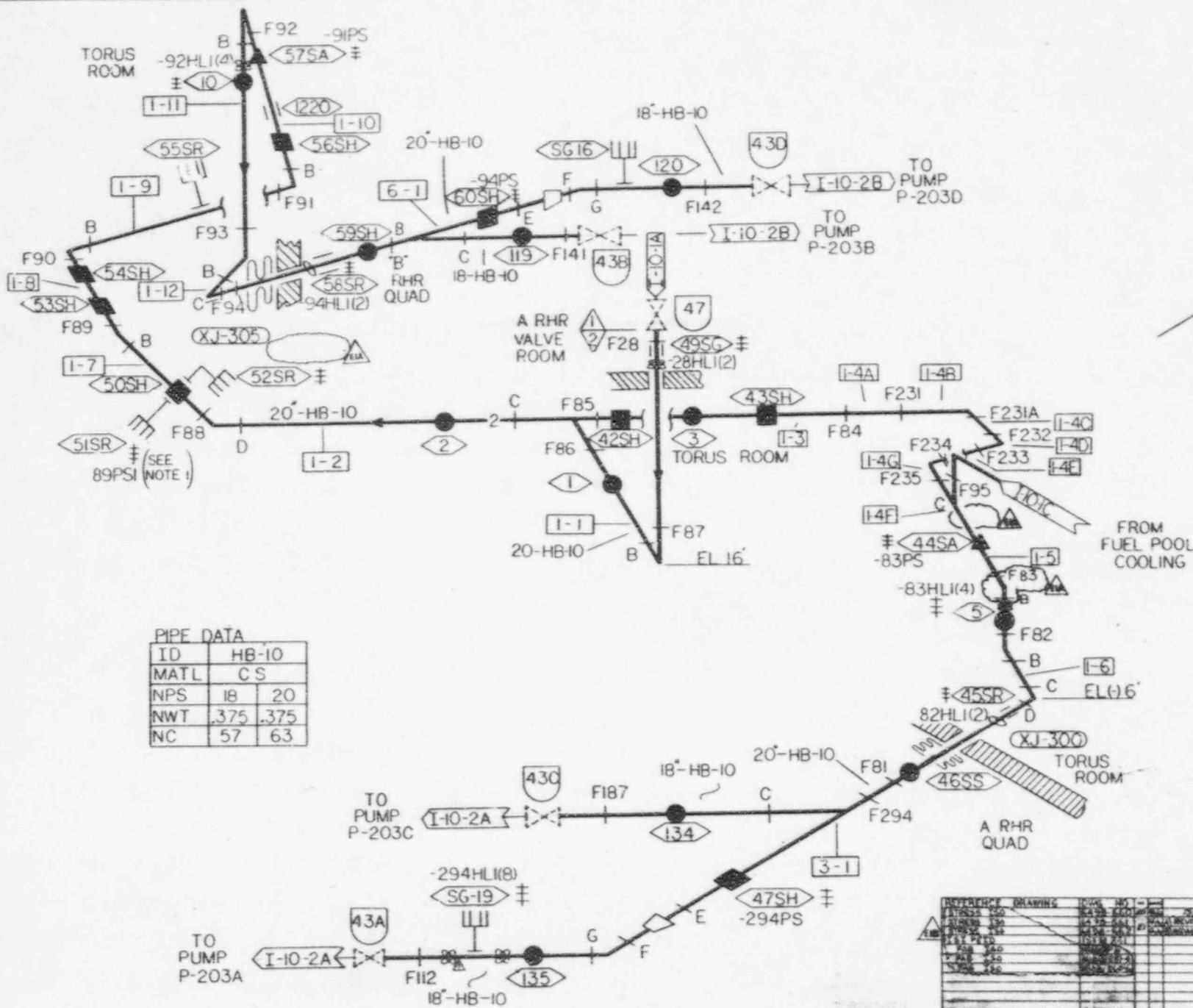
NOTE:
WELD NOS SHOWN IN PARENTHESES ARE
G.E. NOS AND ARE PREFIXED BY P-RE-A

* HIGH STRESS WELD

STRESS ISO	ISSUED	SCALE	REVISION	DATE
SYNOPSIS	ISSUED	SCALE	REVISION	DATE
WELD MAP	ISSUED	SCALE	REVISION	DATE
HANGER LOCATION	ISSUED	SCALE	REVISION	DATE
FAB. ISO.	ISSUED	SCALE	REVISION	DATE
FAB. ISO. FAO-5001	ISSUED	SCALE	REVISION	DATE

UNIT NO.	PLANT STATION NO.	DATE
BOSTON EDISON COMPANY		
RESIDUAL HEAT REMOVAL SYSTEM RHR SUPPLY IST WELD MAP		
Q	Non Q	IST I 10-1A
		E2

NO.	DESCRIPTION	DATE

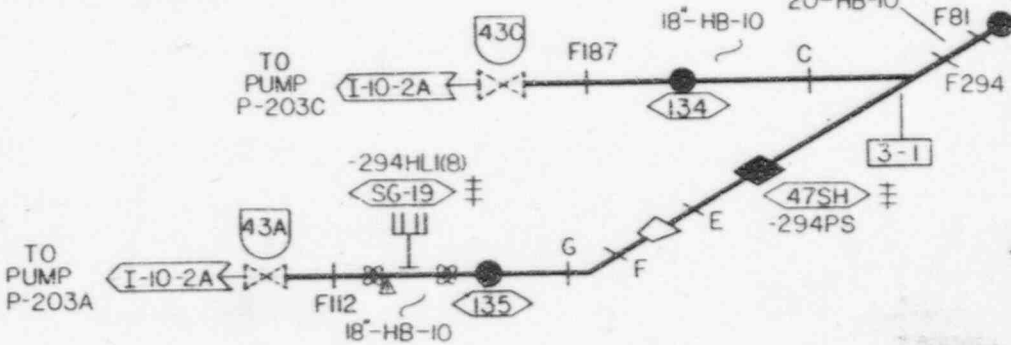


PIPE DATA

ID	HB-10
MATL	C S
NPS	18 20
NWT	.375 .375
NC	57 63

INFORMATION ONLY
Use restricted to reference

NOTE 1:
H-10-1-51SR WAS REDESIGNED OR PIPE STATION STILL INSTALLED



NO.	DATE	BY	CHKD	APP'D

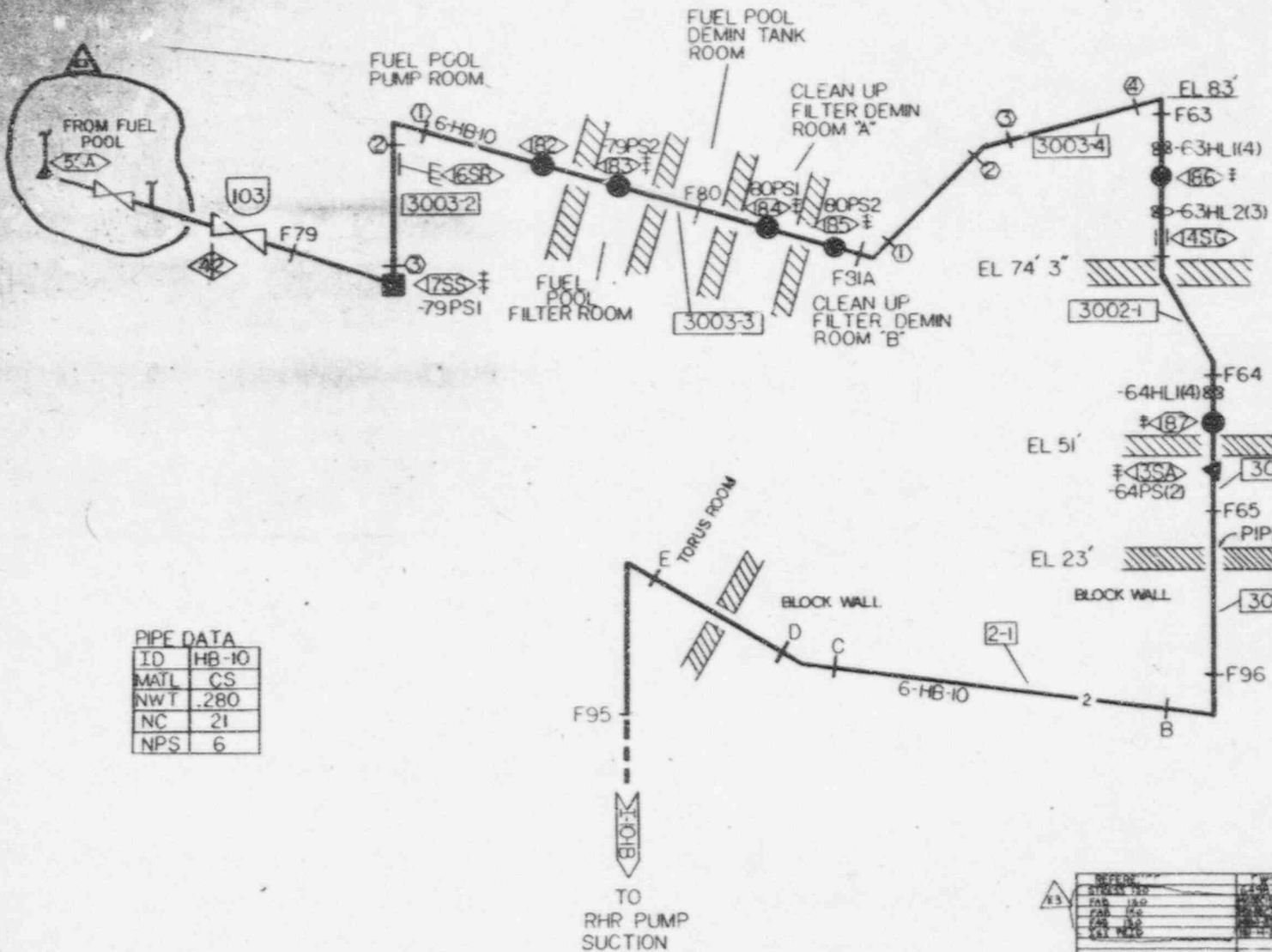
APPROVED
REVIEWED
CHECKED

BOSTON EDISON COMPANY
RESIDUAL HEAT REMOVAL SYSTEM
RHR PUMP SUCTION CROSS CONNECTION
ISI WELD MAP

ISI-I 10 1B
41600-423

ACCEPTED RHD
DATE 01/10/82

INFORMATION ONLY
Use restricted to reference



PIPE DATA

ID	HB-10
MATL	CS
NWT	.280
NC	21
NPS	6

APPROVED	
REVIEWED	
CHECKED	

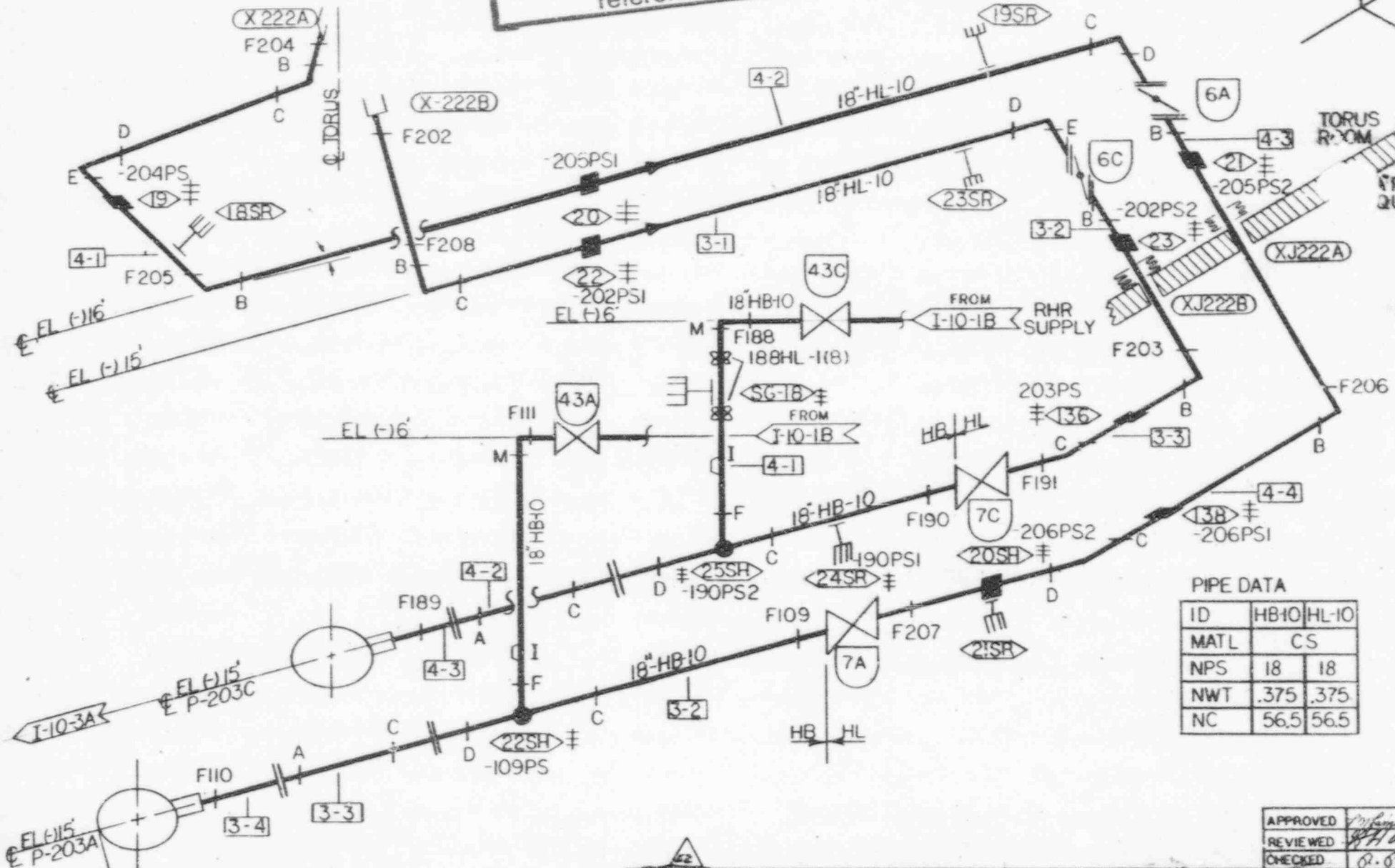
BOSTON EDISON COMPANY
 RHR SYSTEM
 FUEL POOL COOLING TO RHR
 SUCTION X-CONNECT SEE WELD

ISI I 10-1C
 Non Q

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

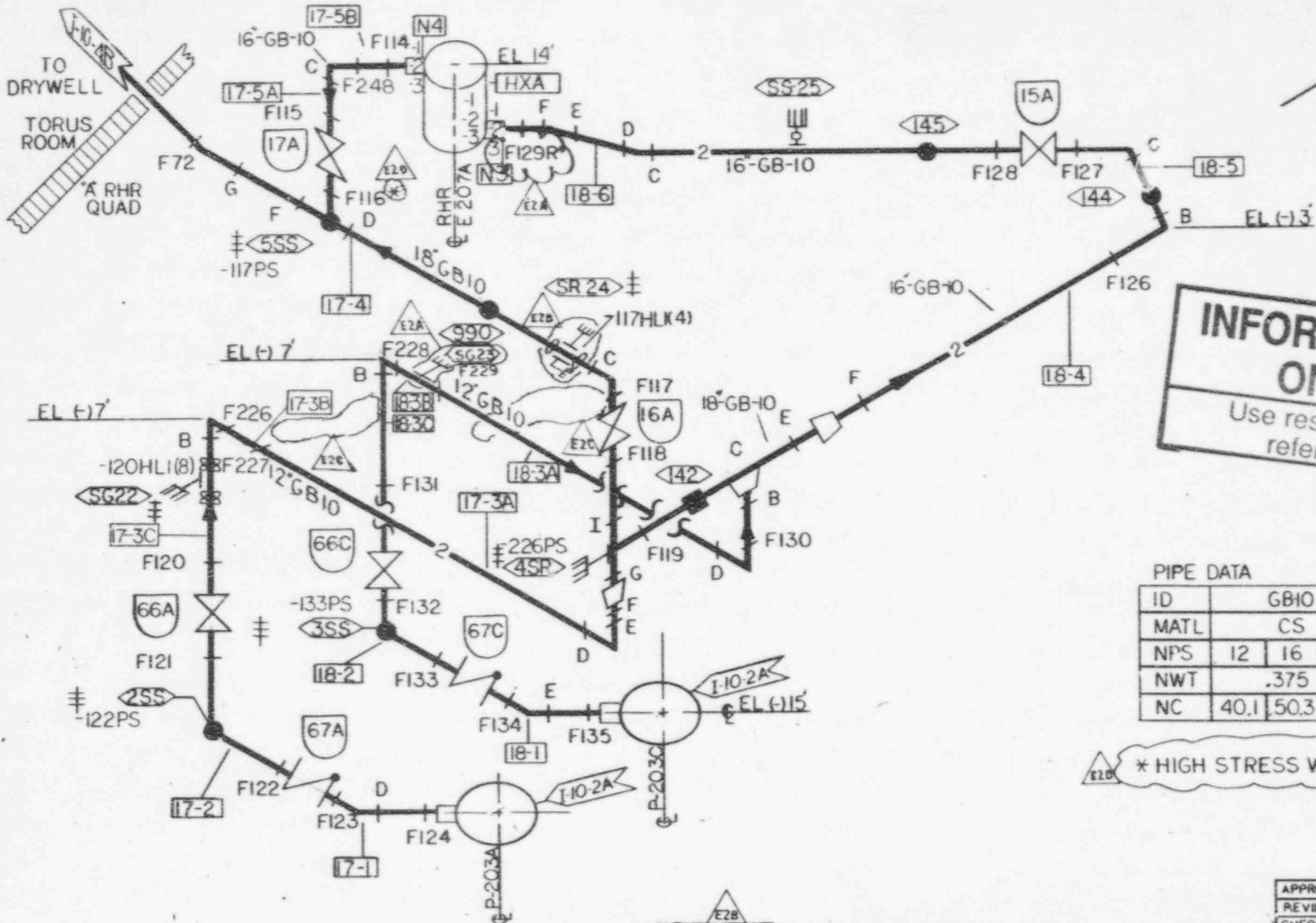
APPROVED *[Signature]* 7/1/83
 REVIEWED *[Signature]*
 CHECKED *[Signature]*

NO.	DATE	BY	DESCRIPTION
6498-656	7/1/83	...	...
6498-658	...	...	...
6498-660	...	...	...

BOSTON EDISON COMPANY

RHR SYSTEM
 P203A C SUCTION
 ISI WELD MAP

ISI I 10-2A E2



INFORMATION ONLY
Use restricted to reference

PIPE DATA

ID	GB10		
MATL	CS		
NPS	12	16	18
NWT	.375		
NC	40.1	50.3	56.5

E2B * HIGH STRESS WELD

APPROVED *[Signature]*
REVIEWED *[Signature]*
CHECKED *[Signature]*

STRESS 150	150-163	150-163	150-163
FAB 150	150-163	150-163	150-163
FAB 150	150-163	150-163	150-163
ISI P-10	150-163	150-163	150-163

BOSTON EDISON COMPANY

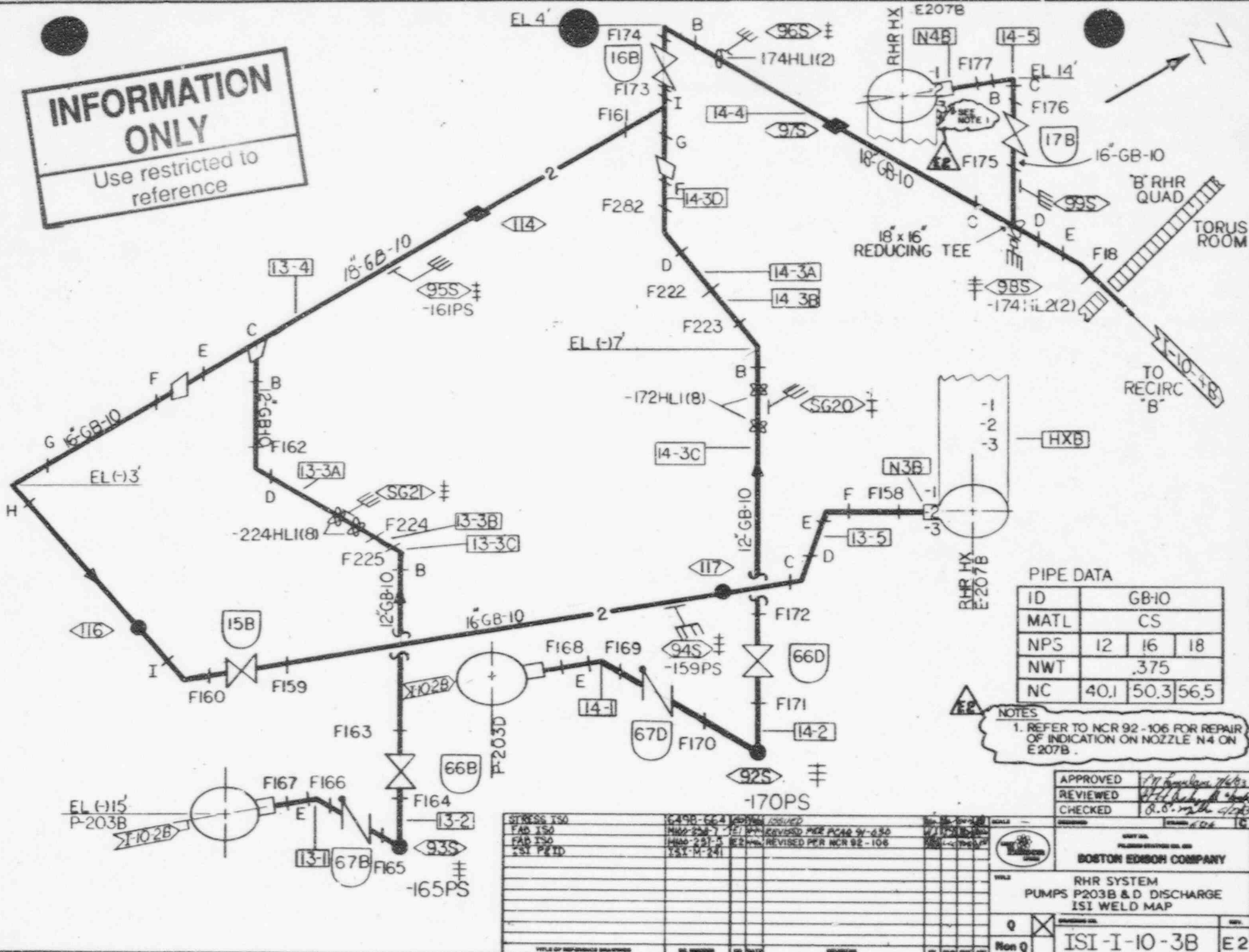
RHR SYSTEM
PUMPS P203A & C DISCHARGE
ISI WELD MAP

SCALE: 1" = 10'-0"

DATE: 10/1/83

PROJECT: ISI I 10-3A E2

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 [Signature]
REVIEWED [Signature]
CHECKED [Signature]

STRESS ISO	C-450-EE-4	REVISED PER NCR 92-106
FAD ISO	M-221-2	REVISED PER NCR 92-106
FAD ISO	M-221-2	REVISED PER NCR 92-106
ISI PRTD	ISI-M-241	

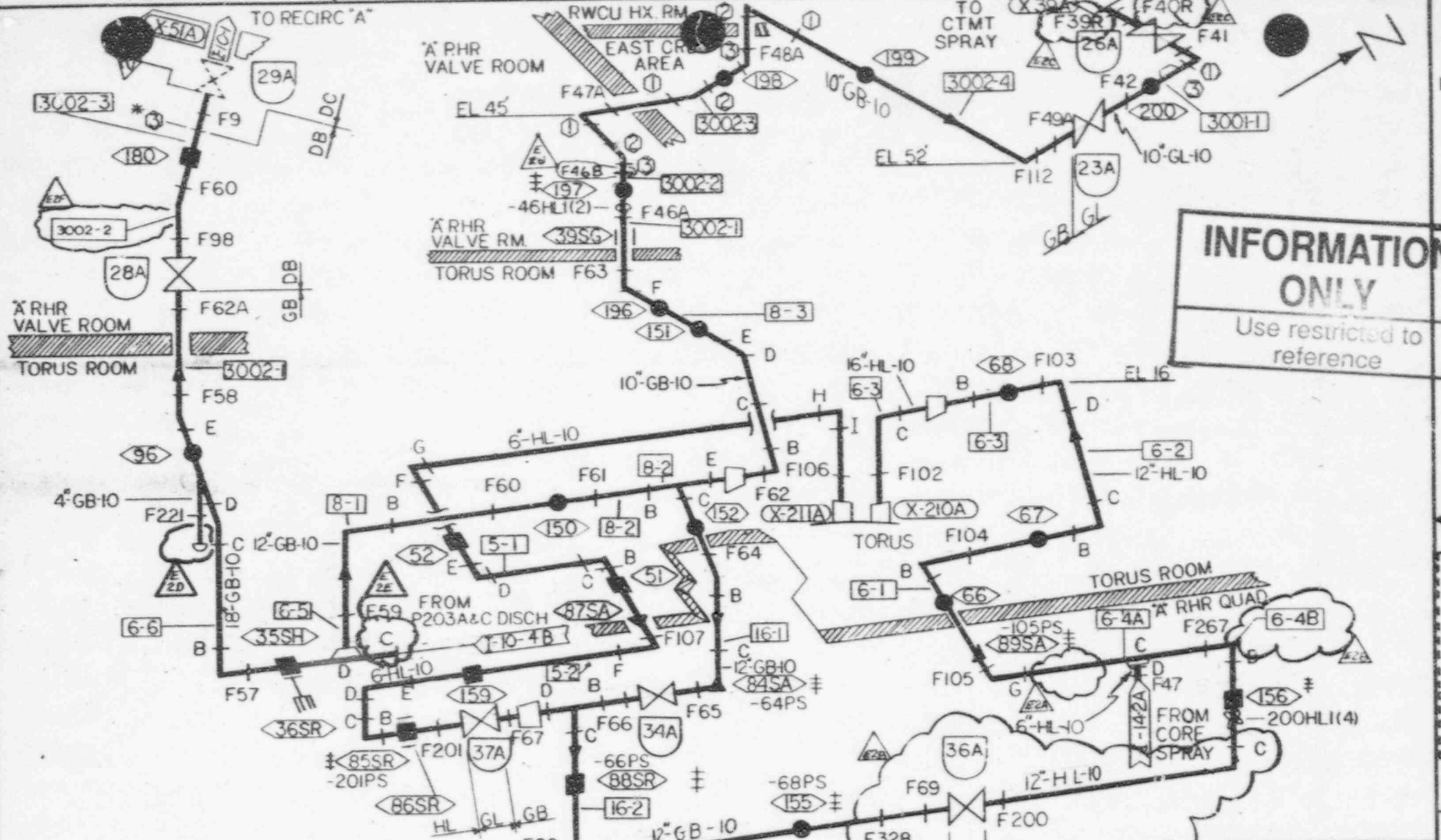
BOSTON EDISON COMPANY

RHR SYSTEM
PUMPS P203B & D DISCHARGE
ISI WELD MAP

Q Non Q

ISI-I-10-3B E2

ACCEPTED RMD:2
DATE: 08/11/17
41600 3913



INFORMATION ONLY
Use restricted to reference

PIPE DATA

ID	GL-10	GB-10	HL-10	HL-10	DB-10	DC-10	HL-10
MATL		CS				SS	CS
NPS	10	10	12	18	12	16	18
NWT	.365		.375			1.156	.280
NC	34	34	40	57	40	50	57
							21

* DISSIMILAR METAL WELD

STRESS 100	STRESS 150	STRESS 180	STRESS 190	STRESS 195	STRESS 200	STRESS 210	STRESS 220	STRESS 230	STRESS 240	STRESS 250	STRESS 260	STRESS 270	STRESS 280	STRESS 290	STRESS 300
FAB 100	FAB 150	FAB 180	FAB 190	FAB 195	FAB 200	FAB 210	FAB 220	FAB 230	FAB 240	FAB 250	FAB 260	FAB 270	FAB 280	FAB 290	FAB 300
MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3	MOODCR-3

REV.	DATE	DESCRIPTION
1	11/11/88	ISSUED
2	11/11/88	REV. PER P&ID 100-87-43
3	11/11/88	REV. PER P&ID 85-75
4	11/11/88	REV. PER P&ID 85-88A
5	11/11/88	REV. PER P&ID 86-20
6	11/11/88	REV. PER P&ID 91-030
7	11/11/88	REV. PER P&ID 8-090
8	11/11/88	REV. PER P&ID 70-230

APPROVED
REVIEWED
CHECKED

BOSTON EDISON COMPANY

RHR SYSTEM DISCH TO DRYWELL & TORUS TSY WELD MAP

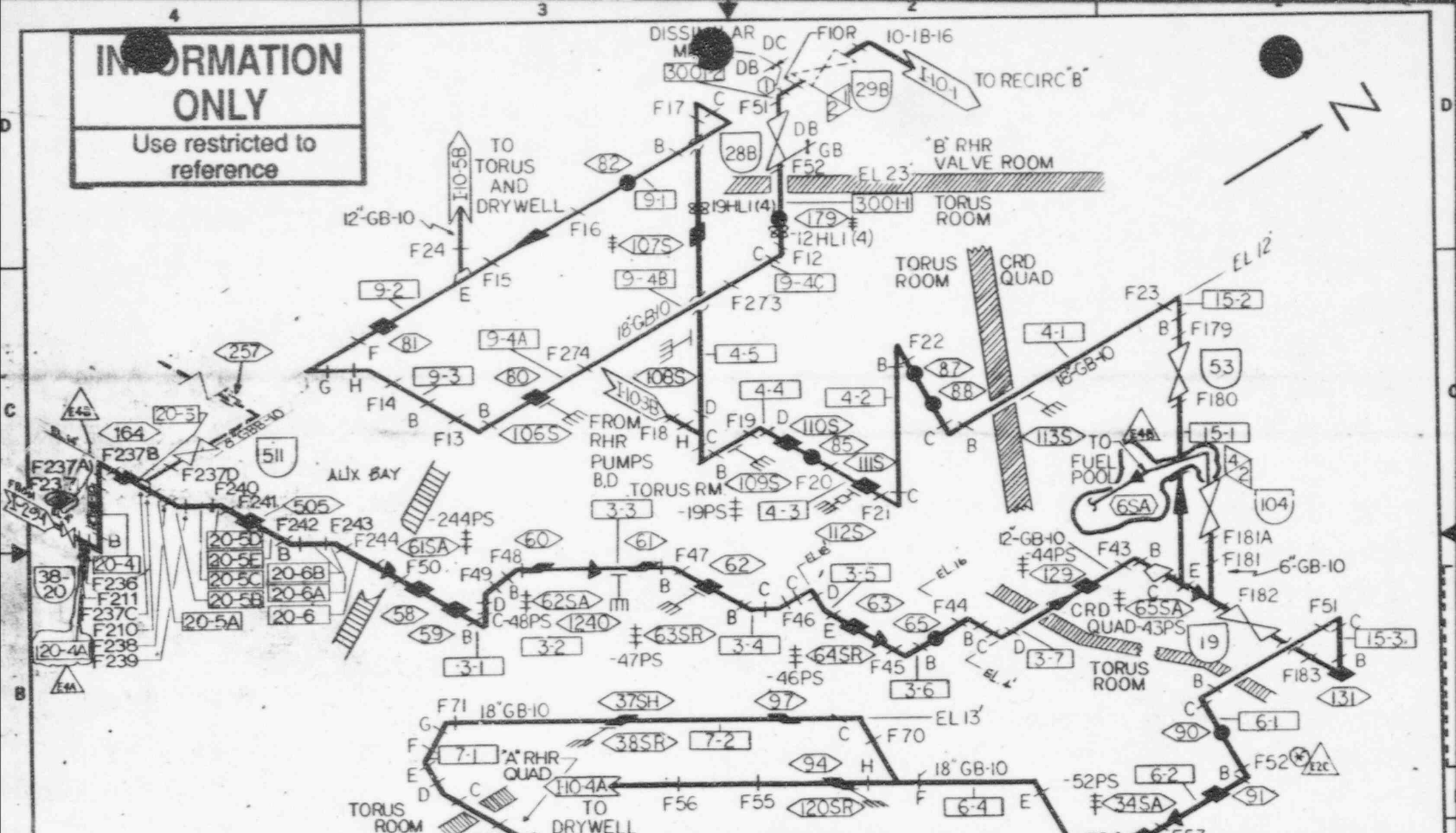
ISI I 10-4A E2

ACCEPTED RING THIS DATE 11/11/88

4/600.3914

INFORMATION ONLY

Use restricted to reference



PIPE DATA

ID	DC IO	DB IO	GB IO		GBB
MATL	SS		CS		CS
NPS	18	18	6	12	18
NWT	NA	LI56	.280	.375	.322
MWT	.755		NA		
NC	57	57	21	40	57

FROM RHR PUMPS A,C

⚡ HIGH STRESS WELD

ISI P2 ID	ISI M-241	REVISED	DATE	BY	CHKD	APP'D
STRESS 150	4-28-87	REV PER DE 11-14-87				
STRESS 150	4-28-87	REV PER DE 06-25-87				
STRESS 150	4-28-87	REV PER DE 06-25-87				
STRESS 150	4-28-87	REV PER DE 06-25-87				
STRESS 150	4-28-87	REV PER DE 06-25-87				
FAB 150	4-28-87	REV PER DE 06-25-87				
FAB 150	4-28-87	REV PER DE 06-25-87				
FAB 150	4-28-87	REV PER DE 06-25-87				
FAB 150	4-28-87	REV PER DE 06-25-87				
FAB 150	4-28-87	REV PER DE 06-25-87				
FAB 150	4-28-87	REV PER DE 06-25-87				

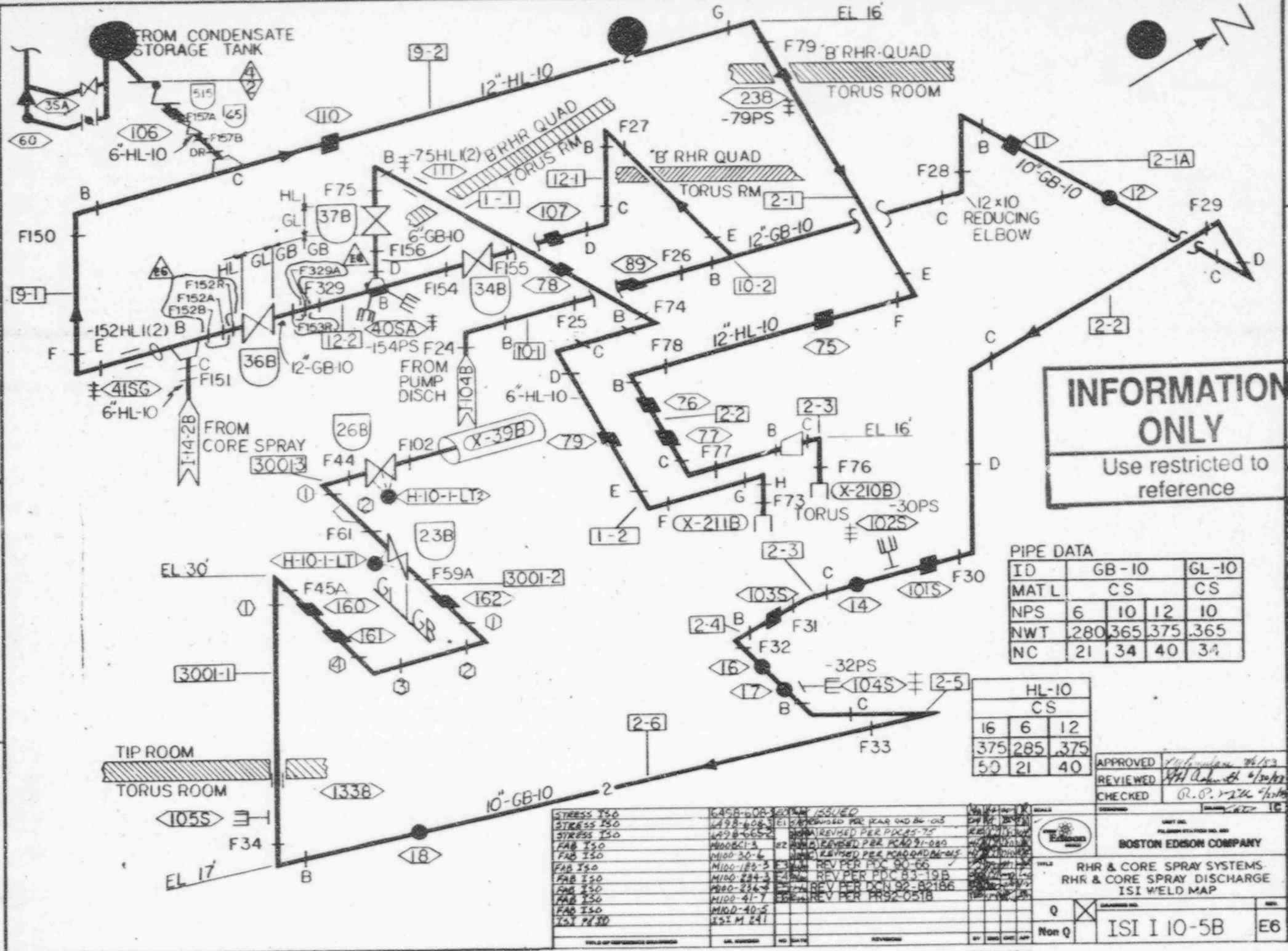
APPROVED: [Signature]
 REVIEWED: [Signature]
 CHECKED: [Signature]

BOSTON EDISON COMPANY

RHR SYSTEM X-CONNECT DISCHARGE ISI WELD MAP

ISI 10-4B

416003915



INFORMATION ONLY
Use restricted to reference

PIPE DATA

ID	GB-10	GL-10
MAT L	CS	CS
NPS	6 10 12 10	
NWT	280 365 375 365	
NC	21 34 40 34	

HL-10		
CS		
16	6	12
375	285	375
50	21	40

APPROVED: [Signature]
REVIEWED: [Signature]
CHECKED: [Signature]

NO.	DATE	BY	REVISION
1	10-20-6	...	REVISED PER PDC 84-015
2	11-28-6	...	REVISED PER PDC 85-75
3	12-28-6	...	REVISED PER PDC 86-010
4	1-20-7	...	REVISED PER PDC 86-010
5	1-20-7	...	REVISED PER PDC 86-010
6	1-20-7	...	REVISED PER PDC 86-010
7	1-20-7	...	REVISED PER PDC 86-010
8	1-20-7	...	REVISED PER PDC 86-010
9	1-20-7	...	REVISED PER PDC 86-010
10	1-20-7	...	REVISED PER PDC 86-010
11	1-20-7	...	REVISED PER PDC 86-010
12	1-20-7	...	REVISED PER PDC 86-010
13	1-20-7	...	REVISED PER PDC 86-010
14	1-20-7	...	REVISED PER PDC 86-010
15	1-20-7	...	REVISED PER PDC 86-010
16	1-20-7	...	REVISED PER PDC 86-010
17	1-20-7	...	REVISED PER PDC 86-010
18	1-20-7	...	REVISED PER PDC 86-010
19	1-20-7	...	REVISED PER PDC 86-010
20	1-20-7	...	REVISED PER PDC 86-010

BOSTON EDISON COMPANY
RHR & CORE SPRAY SYSTEMS
RHR & CORE SPRAY DISCHARGE
ISI WELD MAP
Q Non Q
ISI I 10-5B E6

ACCEPTED RMG
THIS DATE

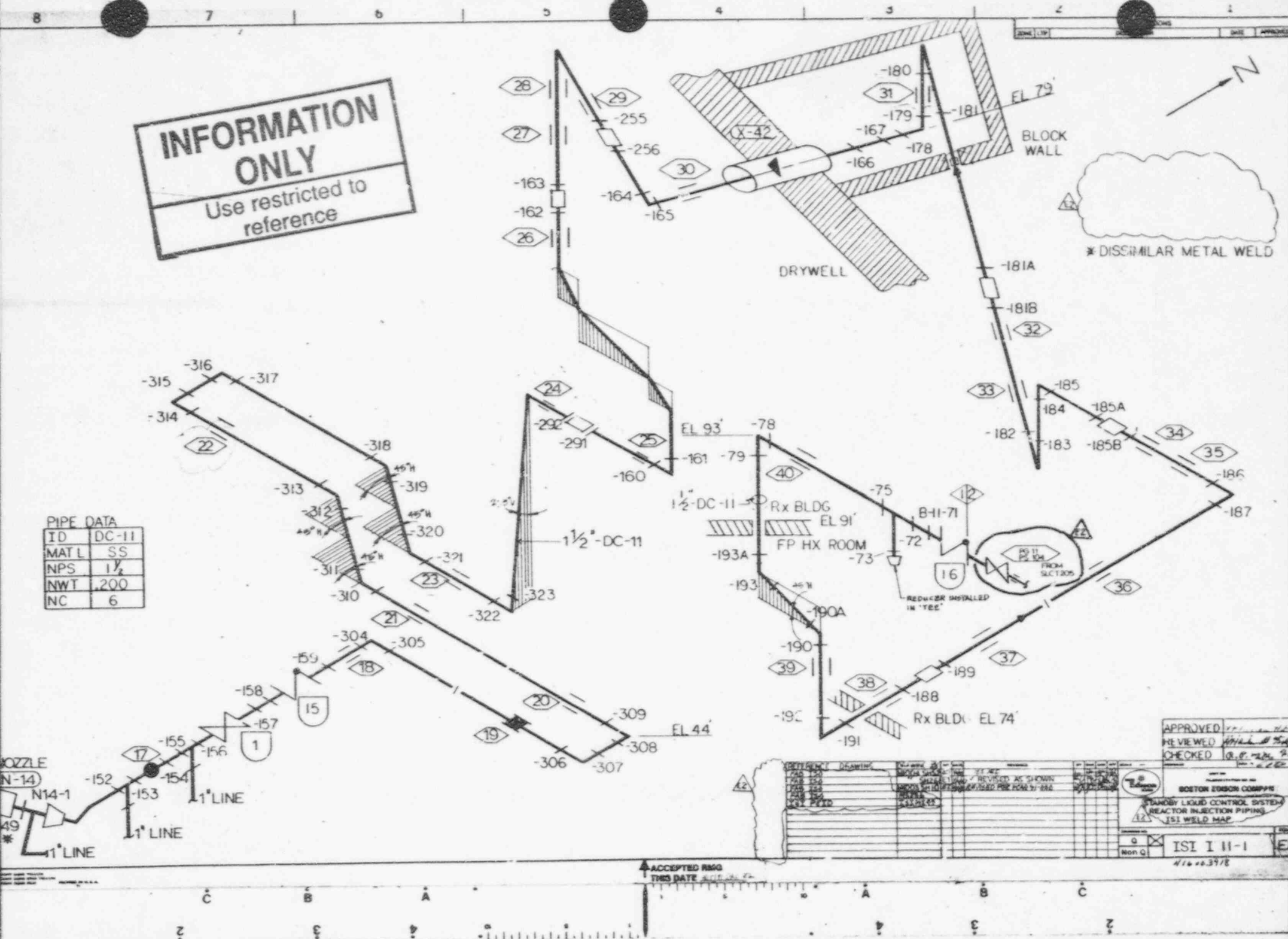
ACCEPTED RMD
DATE 8 Dec 9/1992

41600-3917

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

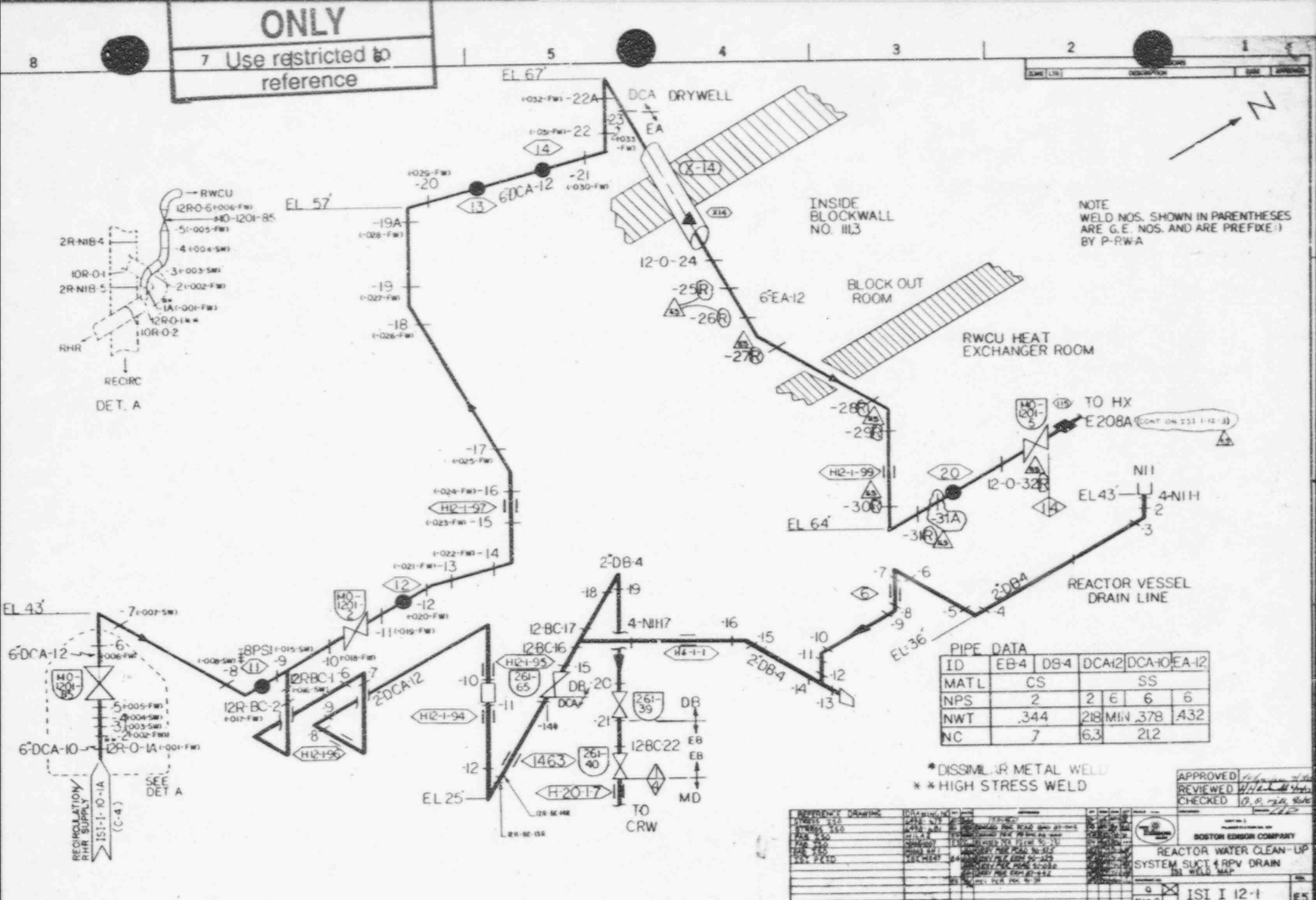
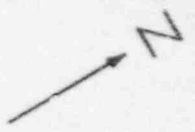
ISI I II-1
 4/10/03/78

ACCEPTED RING THIS DATE _____

ONLY

7 Use restricted to reference

DATE	DESCRIPTION	DATE	APPROVED



NOTE
WELD NOS. SHOWN IN PARENTHESES
ARE G.E. NOS. AND ARE PREFIXED
BY P-PWA

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	6.3		21.2	

* DISSIMILAR METAL WELD
** HIGH STRESS WELD

APPROVED
REVIEWED
CHECKED

BOSTON EDISON COMPANY
REACTOR WATER CLEAN-UP
SYSTEM SUCTION PIPE DRAIN
WELD MAP

ISI I 12-1 E5

REVISION	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

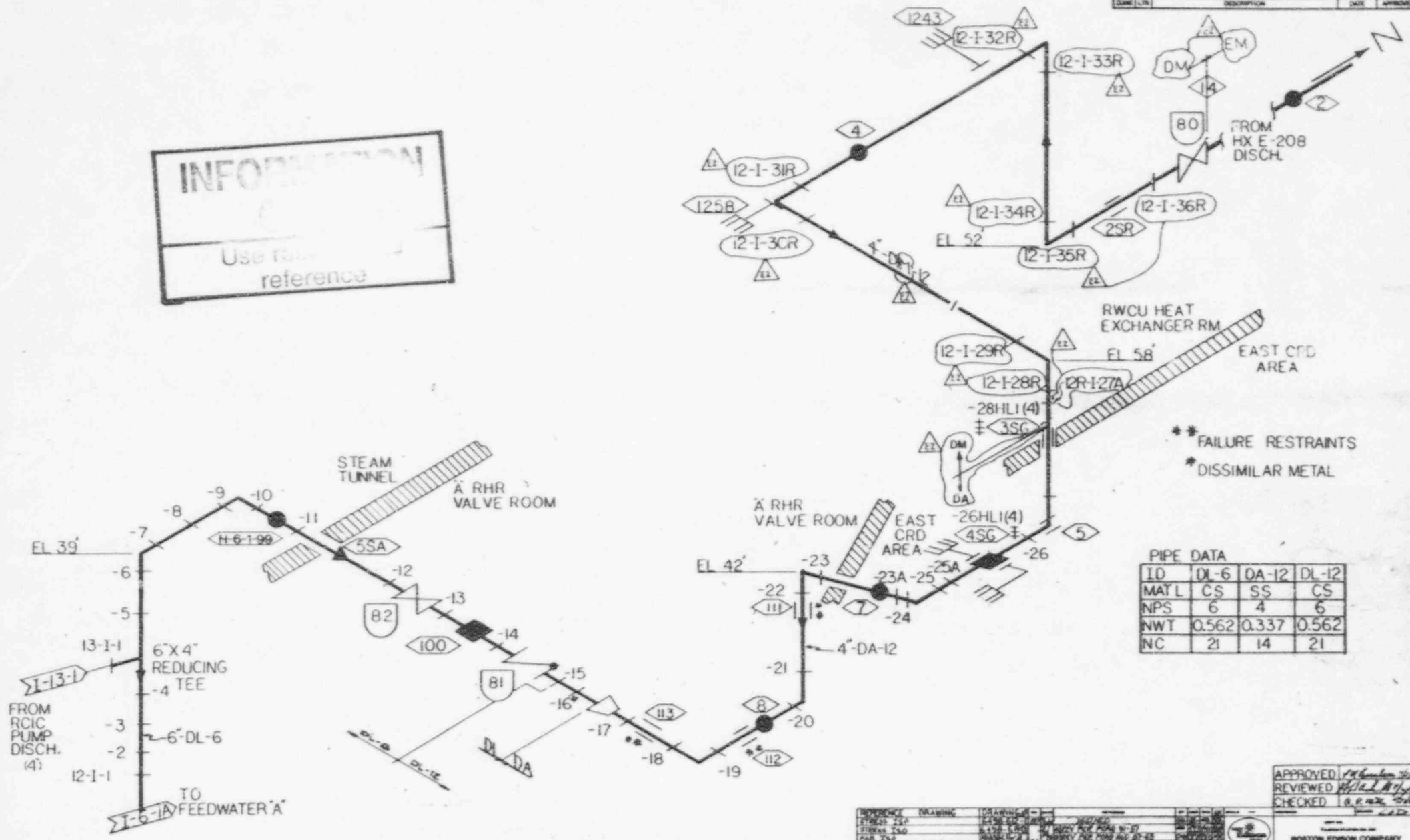
ACCEPTED 9/16/91
THIS DATE 9/16/91 B.D.C.



INFORMATION

Use this reference

DATE (LR)	DESCRIPTION	DATE	APPROVED



** FAILURE RESTRAINTS
* DISSIMILAR METAL

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 RWD
DATE 4/9/75 EB

APPROVED [Signature]
REVIEWED [Signature]
CHECKED [Signature]

REVISION	DATE	DESCRIPTION
1	11/13/74	ISSUED FOR CONSTRUCTION
2	11/13/74	REVISED TO SHOW REVISIONS
3	11/13/74	REVISED TO SHOW REVISIONS
4	11/13/74	REVISED TO SHOW REVISIONS
5	11/13/74	REVISED TO SHOW REVISIONS
6	11/13/74	REVISED TO SHOW REVISIONS
7	11/13/74	REVISED TO SHOW REVISIONS
8	11/13/74	REVISED TO SHOW REVISIONS
9	11/13/74	REVISED TO SHOW REVISIONS
10	11/13/74	REVISED TO SHOW REVISIONS

BOSTON EDISON COMPANY
REACTOR WATER CLEAN-UP
SYSTEM HX E 208 DISCH
ESI WELD MAP

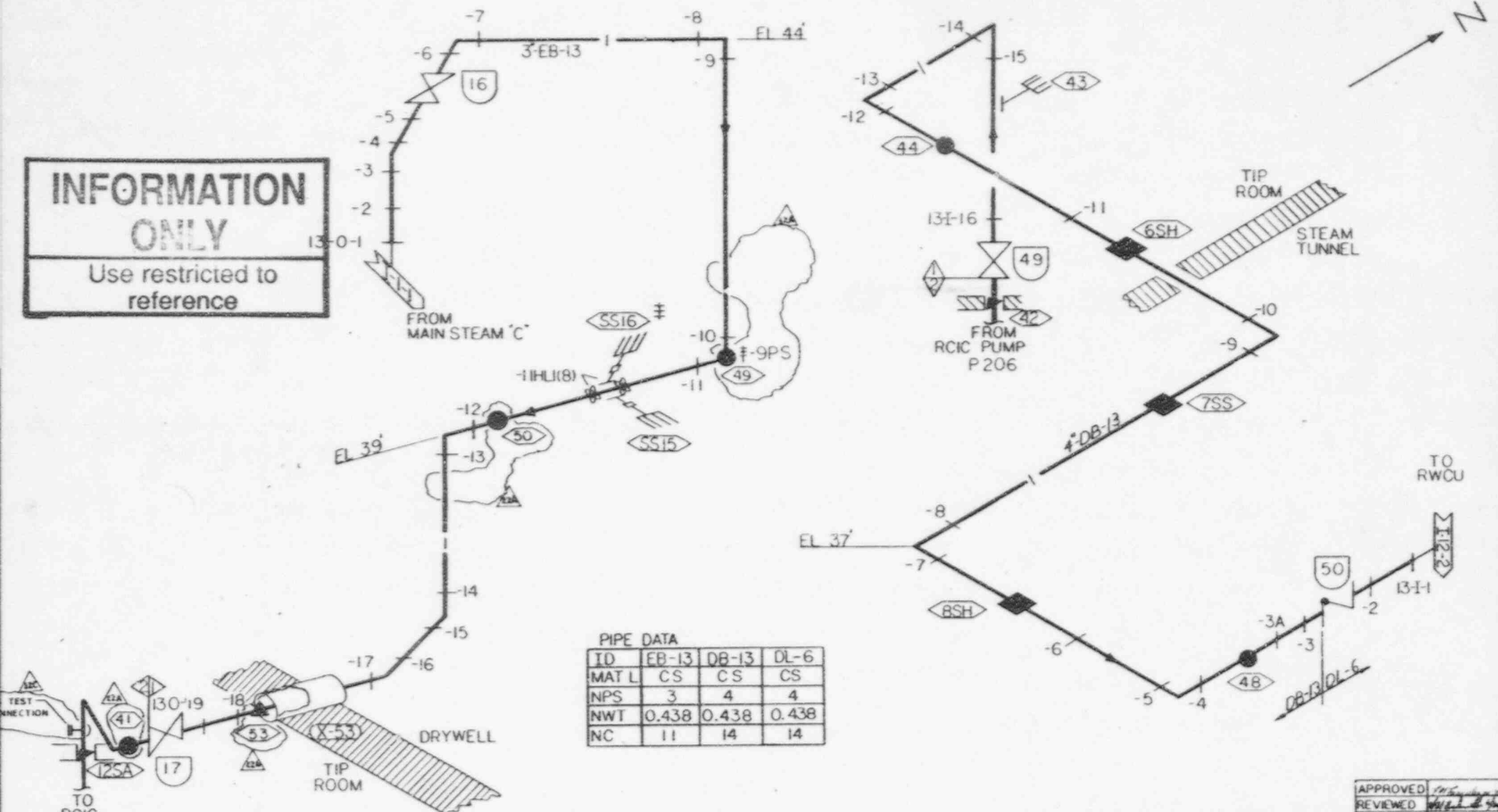
Mon O
41600-3920

ACCEPTED RWD
DATE



ZONE	LINE	DESCRIPTION	SIZE	APPLIC.
------	------	-------------	------	---------

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

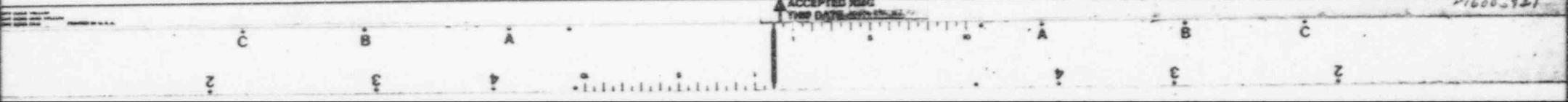
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REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

BOSTON EDISON COMPANY

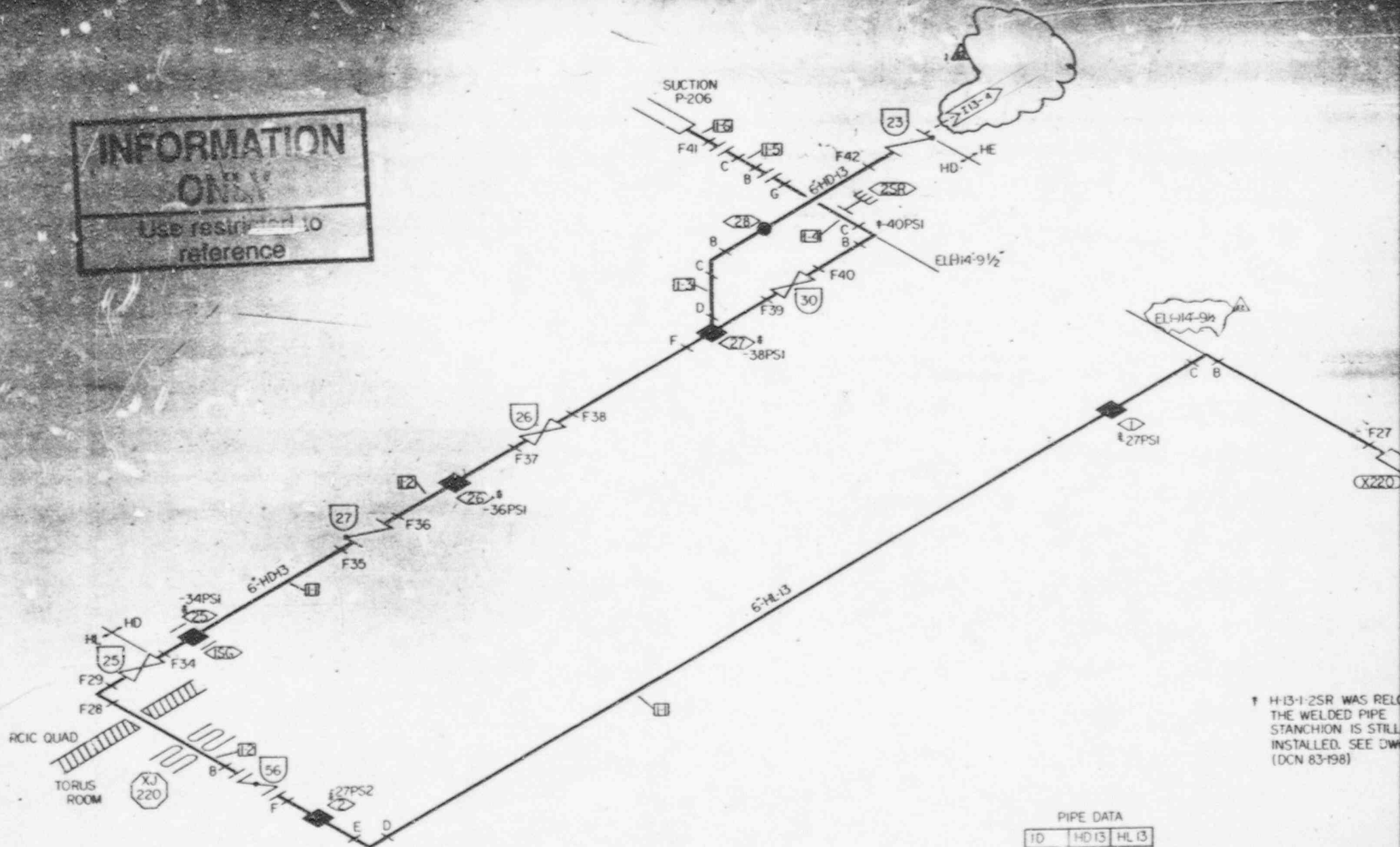
RCIC SYSTEM
TURBINE STEAM FROM MS LINE 'C'
AND PUMP DISCH ISI WELD MAP

ISI I 13-1

1600-921



INFORMATION ONLY
 Use reference to reference



† H-13-1-2SR WAS RELOCATED. THE WELDED PIPE STANCHION IS STILL INSTALLED. SEE DWG (DCN 83-198)

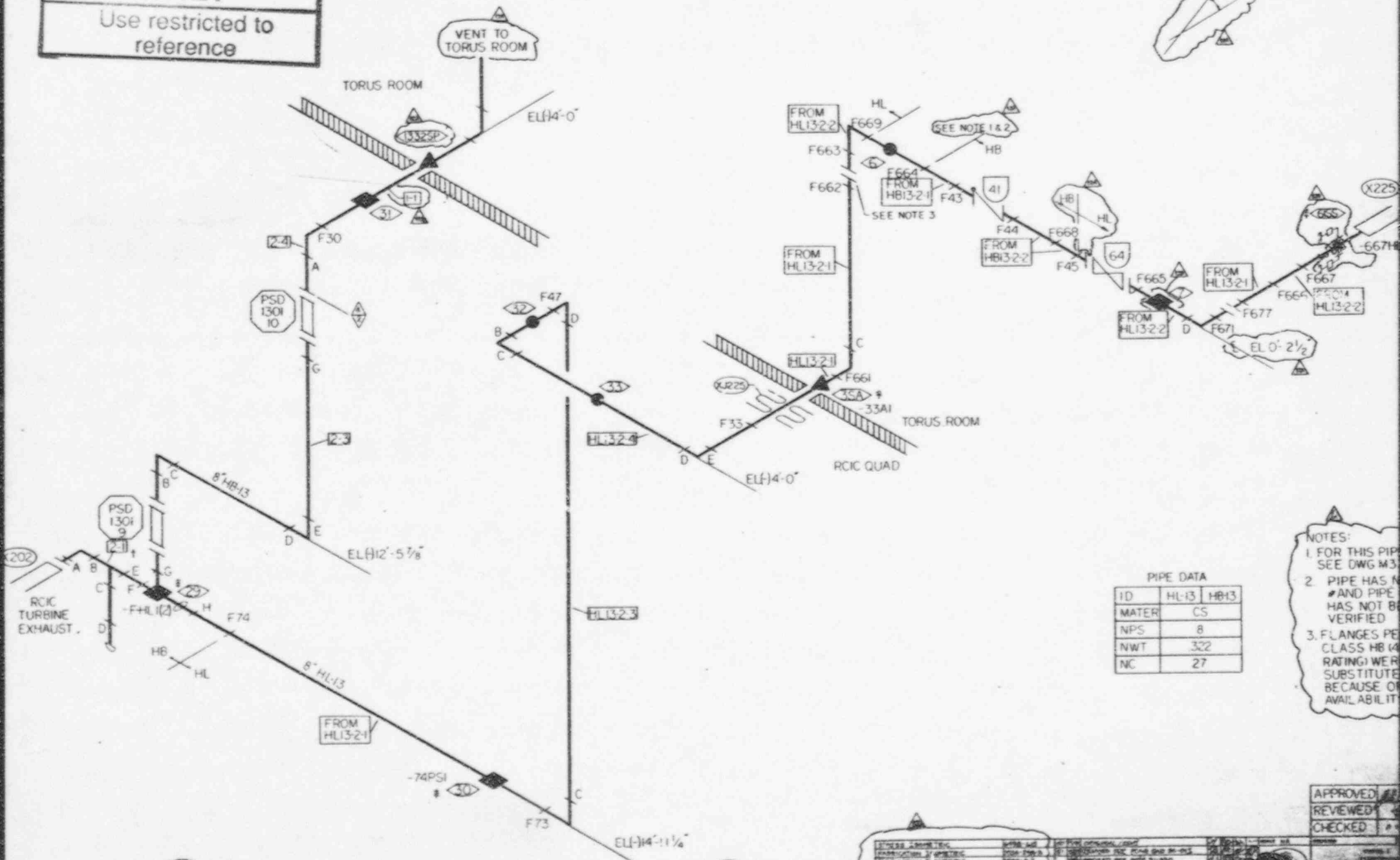
PIPE DATA

ID	HD 13	HL 13
MATL	CS	
NPS	6	
NWT	.280	
NC	21	

APPROVED	
REVIEWED	
CHECKED	

DATE	BY	REVISION

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 N AND PIPE HAS NOT B VERIFIED
 3. FLANGES PE CLASS HB (4 RATING) WER SUBSTITUTE BECAUSE OF AVAIL ABIL IT

APPROVED
REVIEWED
CHECKED

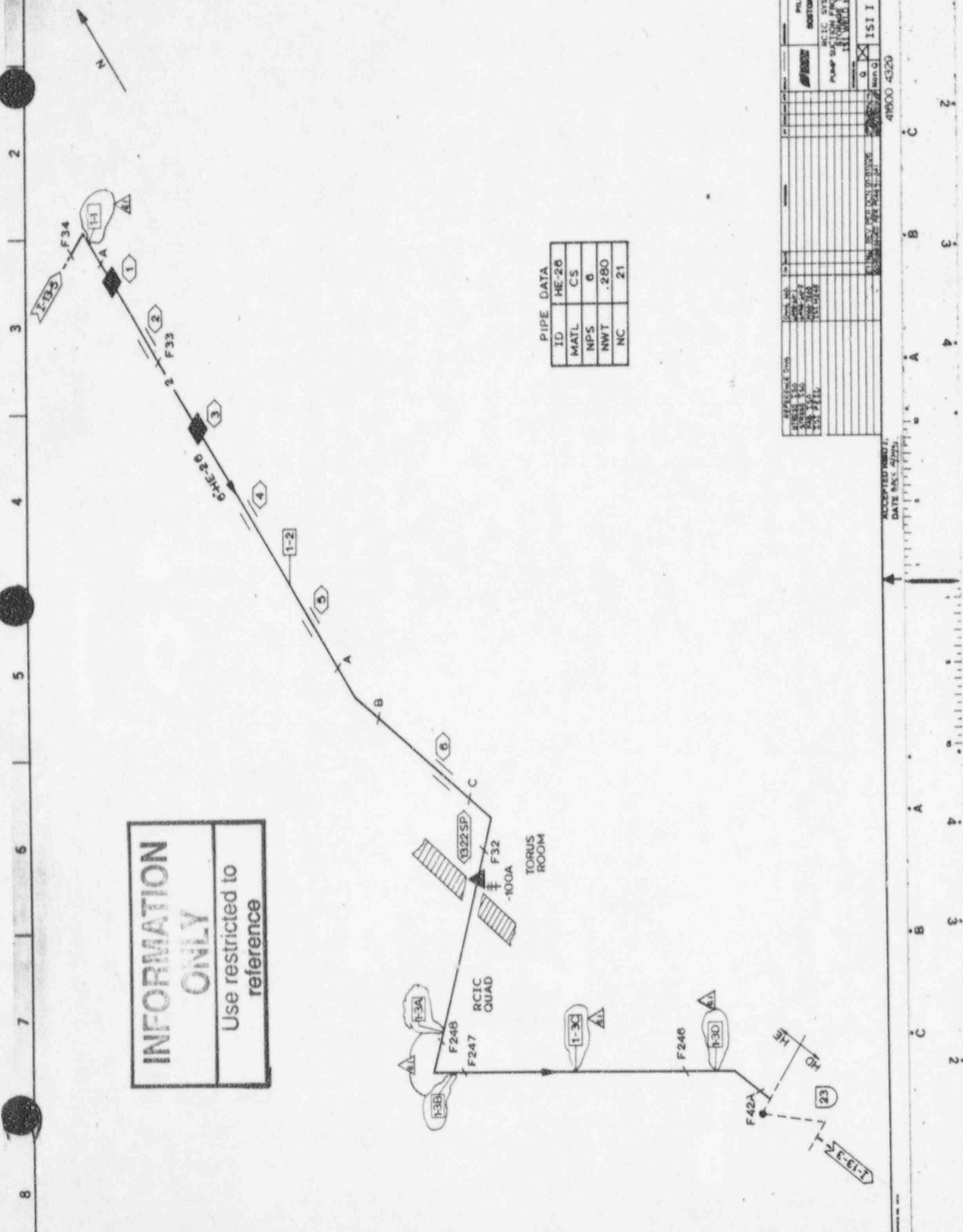
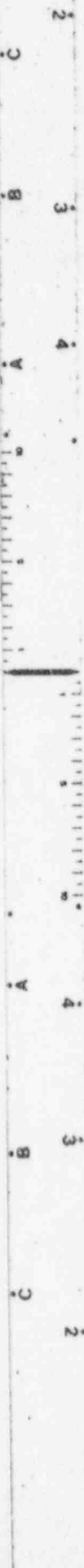
NO.	DESCRIPTION	DATE	BY	FOR
1	DESIGN APPROVED	10/18/00	...	...
2	CONSTRUCTION APPROVED	10/18/00	...	...
3	OPERATION APPROVED	10/18/00	...	...
4	MAINTENANCE APPROVED	10/18/00	...	...
5	...	...	...	...

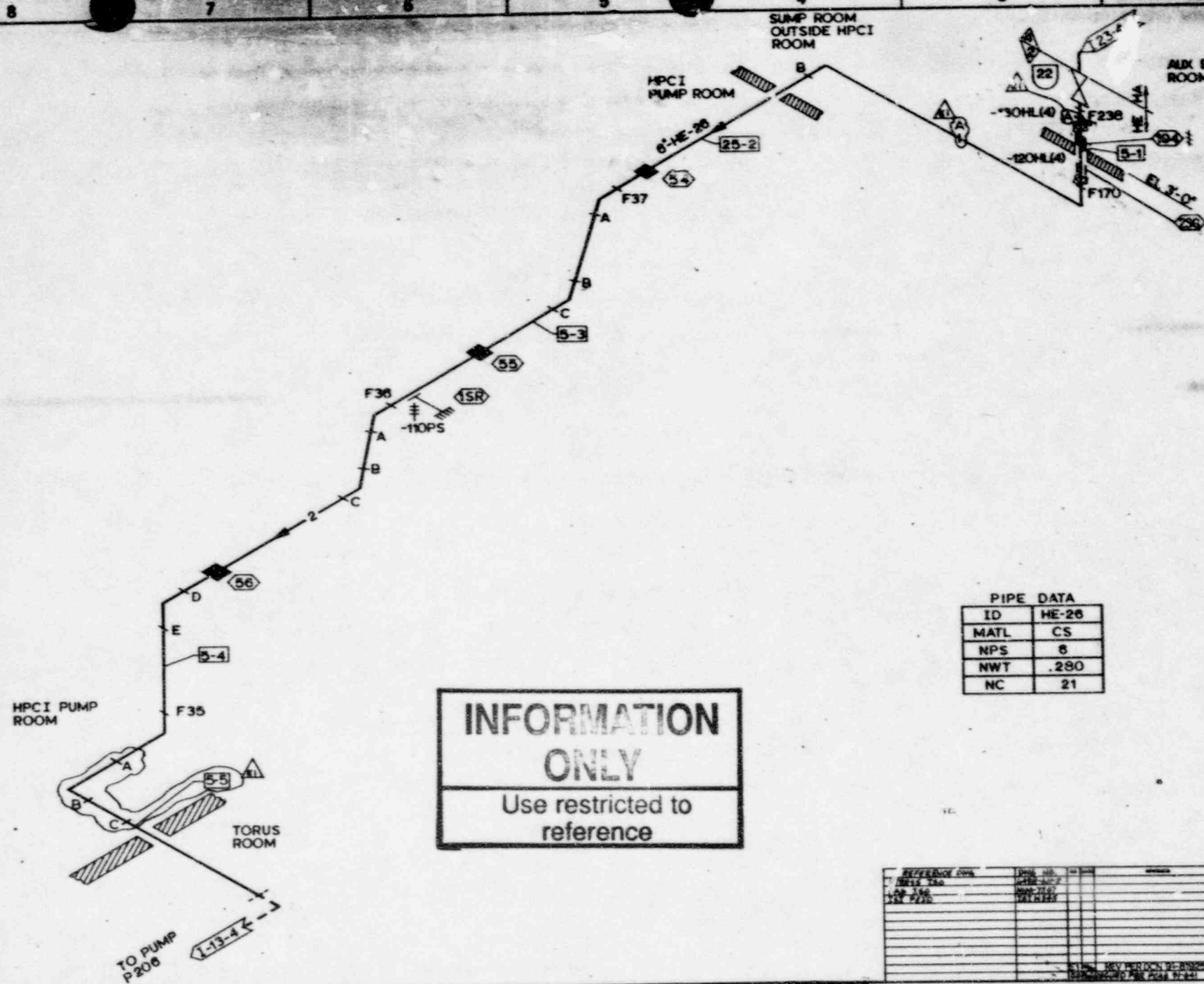
INFORMATION ONLY
Use restricted to reference

PIPE DATA	
ID	HE-2B
MATL	CS
NPS	6
NWT	.280
NC	21

PROJECT NAME	RCIC SYSTEM
OWNER	PHILGEM STATION
DESIGNER	BOSTON EDISON COMPANY
DATE	11/13/84
SCALE	1" = 100'
PROJECT NO.	41000-4320
REV.	
NO.	
DATE	
BY	
CHECKED BY	
DATE	
APPROVED BY	
DATE	
REVISIONS	
NO.	
DATE	
DESCRIPTION	

ACCEPTED REVISION
DATE BACK UP





**INFORMATION
ONLY**

Use restricted to
reference

PIPE DATA

ID	HE-26
MATL	CS
NPS	6
NWT	.280
NC	21

REFERENCE CODE	DATE	BY	REVISION	DESCRIPTION
ISI 13-5	11/18/87	WJH	1	ISSUED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	2	REVISED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	3	REVISED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	4	REVISED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	5	REVISED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	6	REVISED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	7	REVISED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	8	REVISED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	9	REVISED FOR CONSTRUCTION
ISI 13-5	11/18/87	WJH	10	REVISED FOR CONSTRUCTION

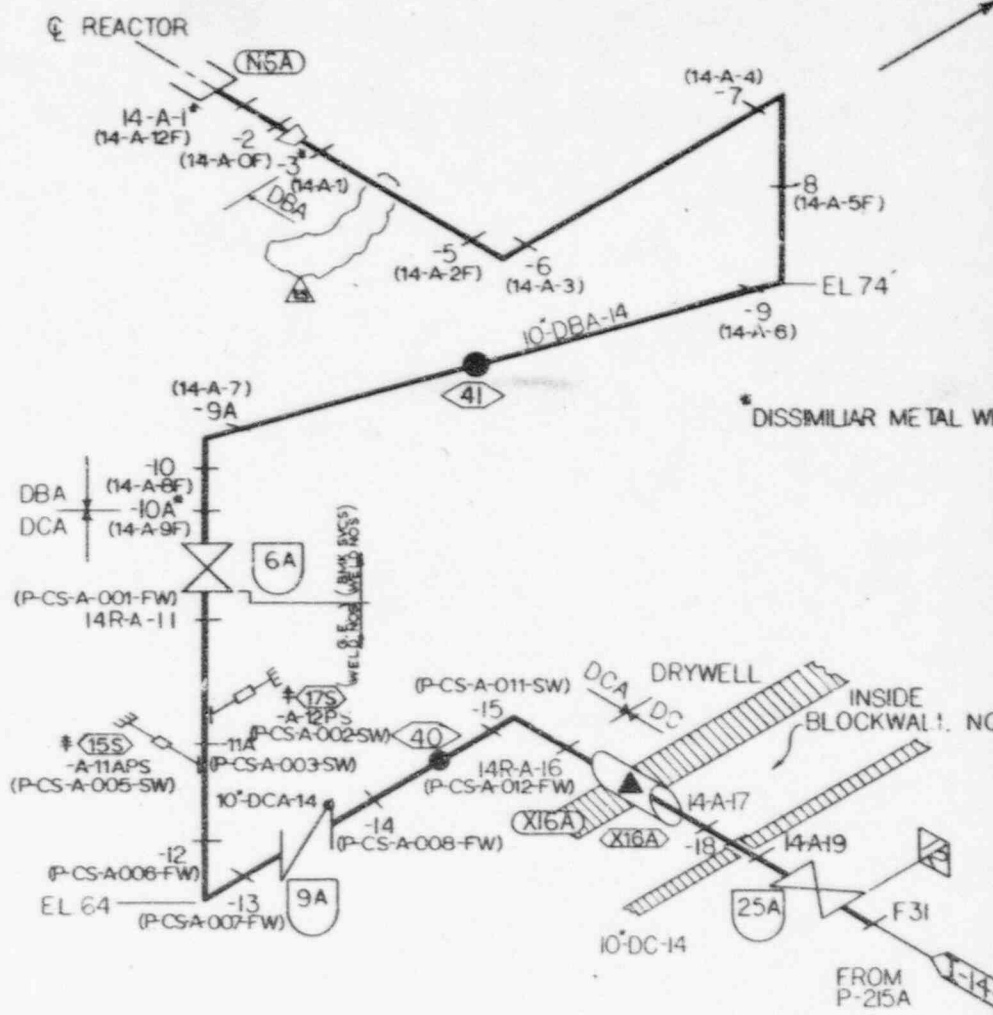
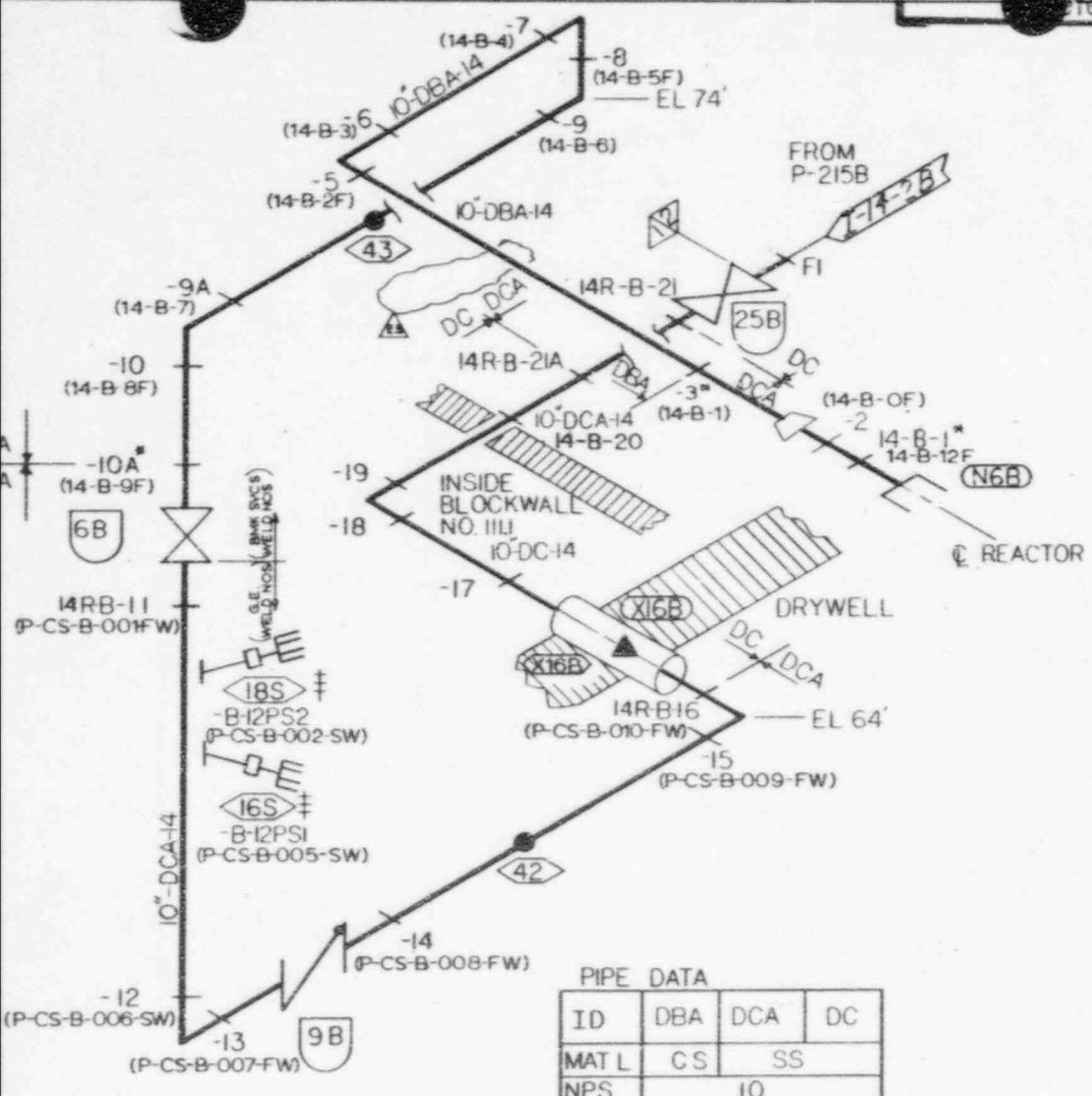
PILGRIM STATION
BOSTON Edison COMPANY
N.C. SYSTEM
PUMP SUCTION FROM CONDENSATE
STORAGE TANK
SEE WELD MAP
41600 4330

ACCEPTED REVISED
DATE 11/18/87



Use restricted to reference

ZONE	LIB	DESCRIPTION	DATE



PIPE DATA

ID	DBA	DCA	DC
MAT L	CS	SS	
NPS	10		
NWT	.594	MIN .519	.593
NC	34		

HIGH STRESS WELDS BECO WELD NOS.

LOOP A	LOOP B
14-A-3	14-B-3
14-A-5	14-B-5
14-A-6	14-B-6
14-A-7	14-B-7
14-A-10A	14-B-10A

REFERENCE DRAWING	DRAWING NO.	DATE	DESCRIPTION	BY	CHKD	APPD

APPROVED	
REVIEWED	
CHECKED	

Non G
 ISI I 14 I

ACCEPTED RMG
THIS DATE: 11/18/83

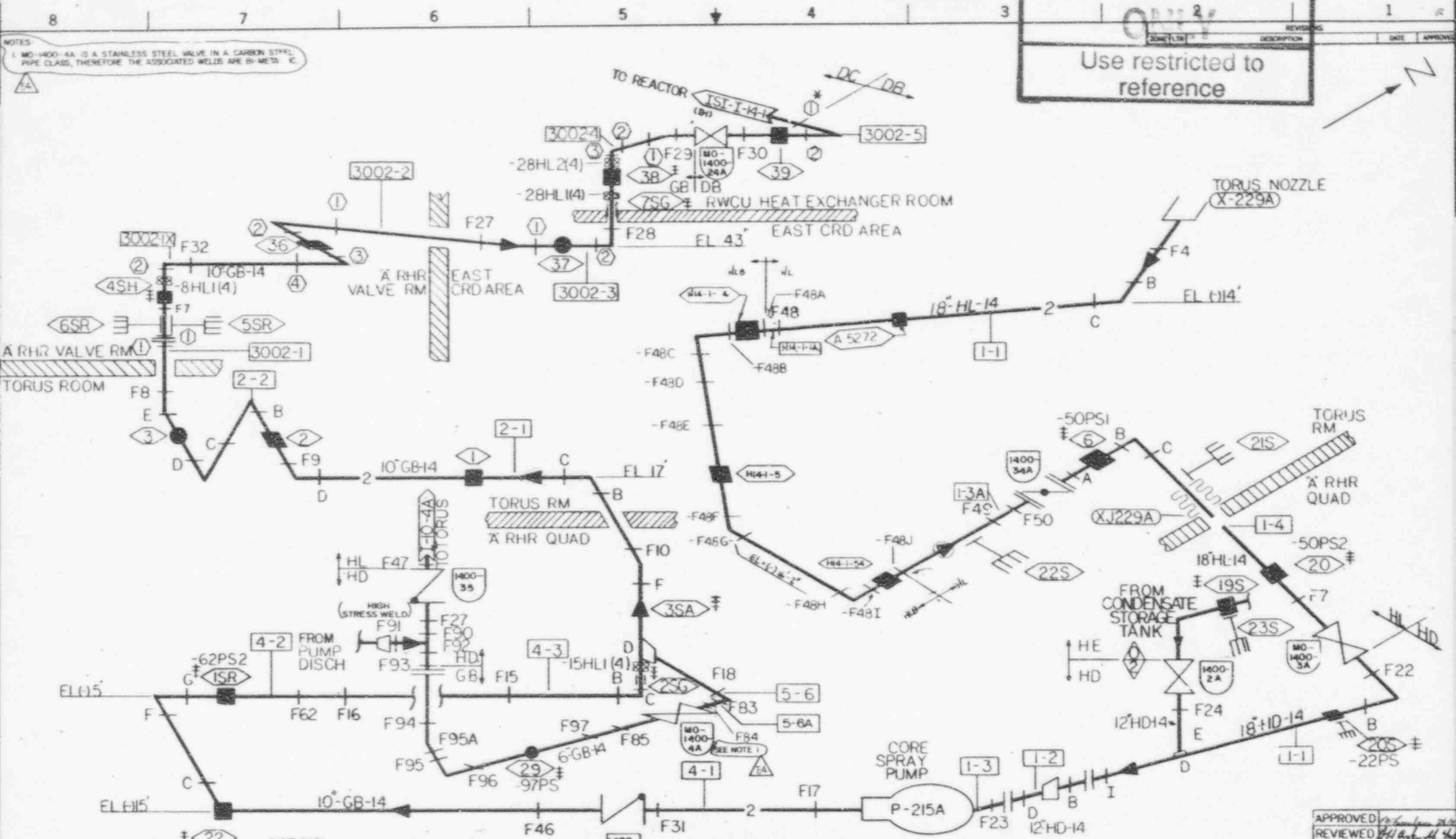
41600-3922

INFORMATION

Use restricted to reference

NOTES
 1. MO-1400-4A IS A STAINLESS STEEL VALVE IN A CARBON STEEL PIPE CLASS, THEREFORE THE ASSOCIATED WELDS ARE BI-METAL IC.

14



PIPE DATA

ID	DB-14	GB-14	HD-14	HL-14	DC-14	HD-14	HL-14	FL-14
MATL	CS	CS	CS	CS	CS	CS	CS	CS
NPS	10	6	10	12	18	18	10	6
NWT	.719	.280	.365	.375	.593	.280	.375	
NC	34	21	34	40	57	34	21	57

REFERENCE	DRAWING	DRAWING NO.	ISSUED	BY	DATE	REVISION	DESCRIPTION	DATE	APPROVED
ISI-I-14-1									
ISI-I-14-2									
ISI-I-14-3									
ISI-I-14-4									
ISI-I-14-5									
ISI-I-14-6									
ISI-I-14-7									
ISI-I-14-8									
ISI-I-14-9									
ISI-I-14-10									
ISI-I-14-11									
ISI-I-14-12									
ISI-I-14-13									
ISI-I-14-14									
ISI-I-14-15									
ISI-I-14-16									
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ISI-I-14-18									
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ISI-I-14-97									
ISI-I-14-98									
ISI-I-14-99									
ISI-I-14-100									

APPROVED
 REVIEWED
 CHECKED

BOSTON EDISON COMPANY
 CORE SPRAY SYSTEM
 'A' TRAIN ISI WELD MAP

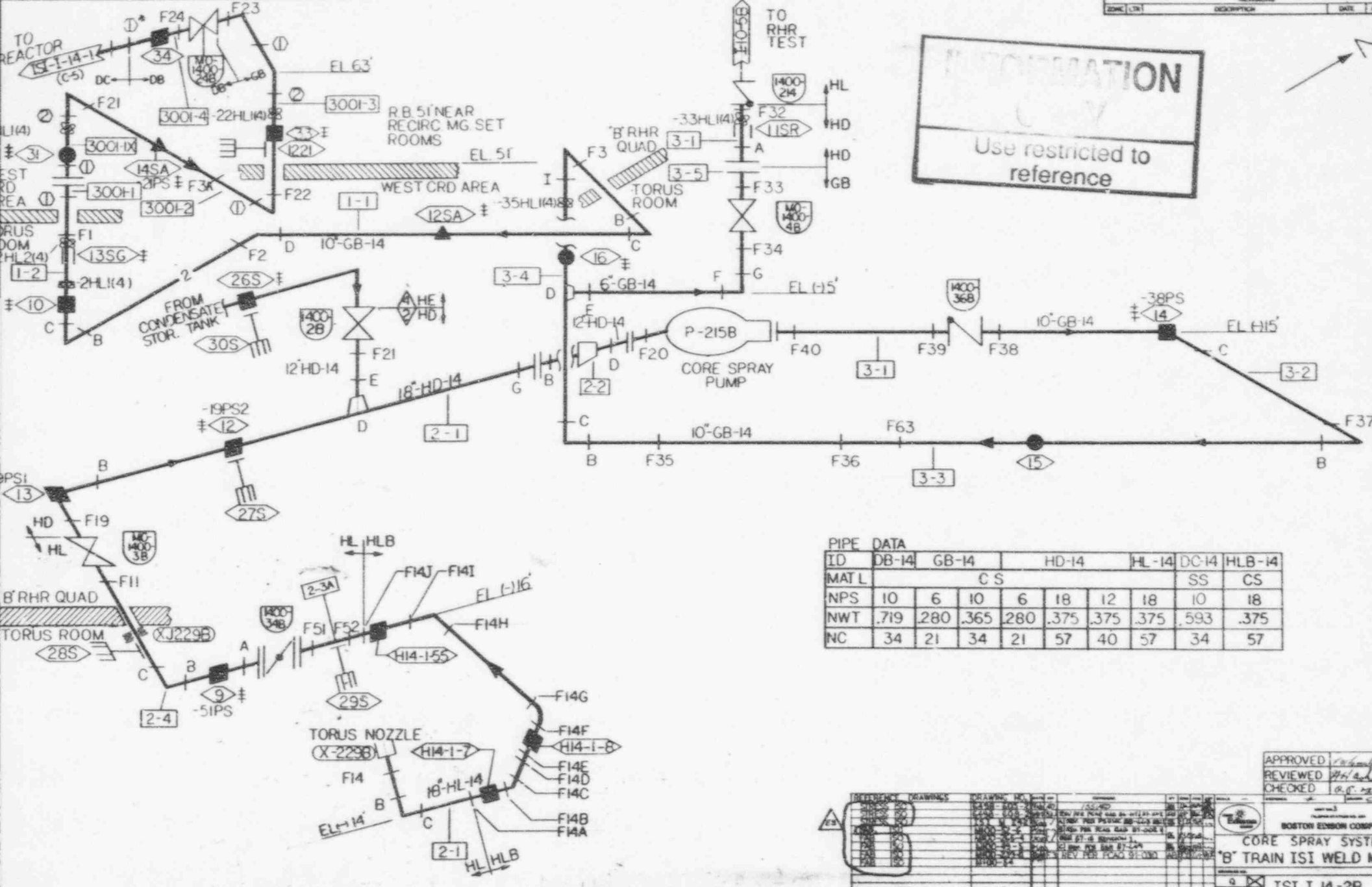
ISI-I-14-2A

ACCEPTED RAPD
 DATE 10/15/84

ACCEPTED WING

4601-3923

REV	DESCRIPTION	DATE	APPROVED



INFORMATION
 Use restricted to reference

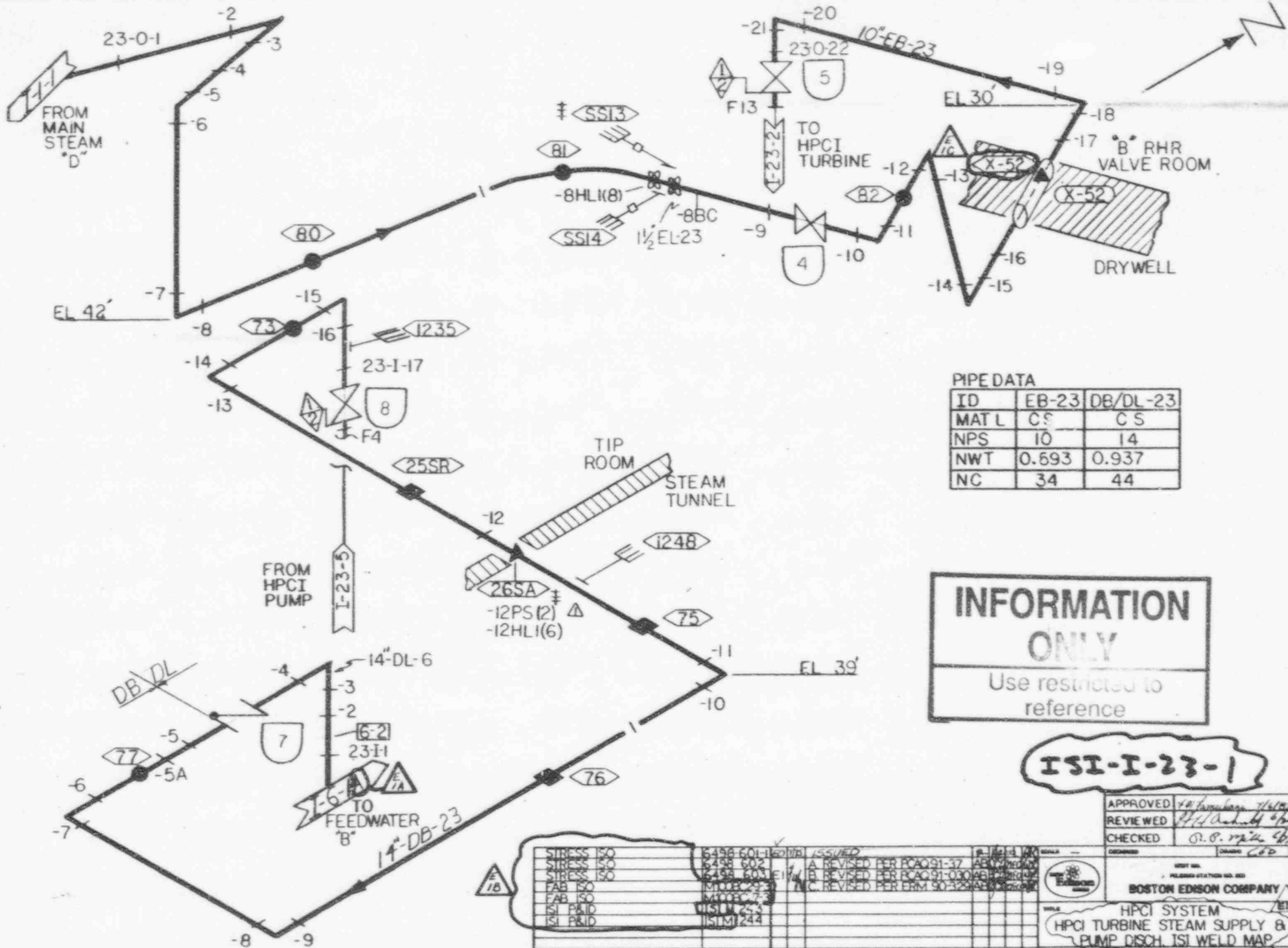
PIPE DATA

ID	DB-14	GB-14	HD-14	HL-14	DC-14	HLB-14	
MAT L	C S					SS	CS
NPS	10	6	10	6	18	12	18
NWT	.719	.280	.365	.280	.375	.375	.593
NC	34	21	34	21	57	40	57

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

REFERENCE DRAWINGS	DRAWING NO.	DATE	BY	CHKD.

BOSTON EDISON COMPANY
CORE SPRAY SYSTEM
'B' TRAIN ISI WELD MAP
 ISI I 14-2B



PIPE DATA

ID	EB-23	DB/DL-23
MAT L	CS	CS
NPS	10	14
NWT	0.693	0.937
NC	34	44

INFORMATION ONLY

Use restricted to reference

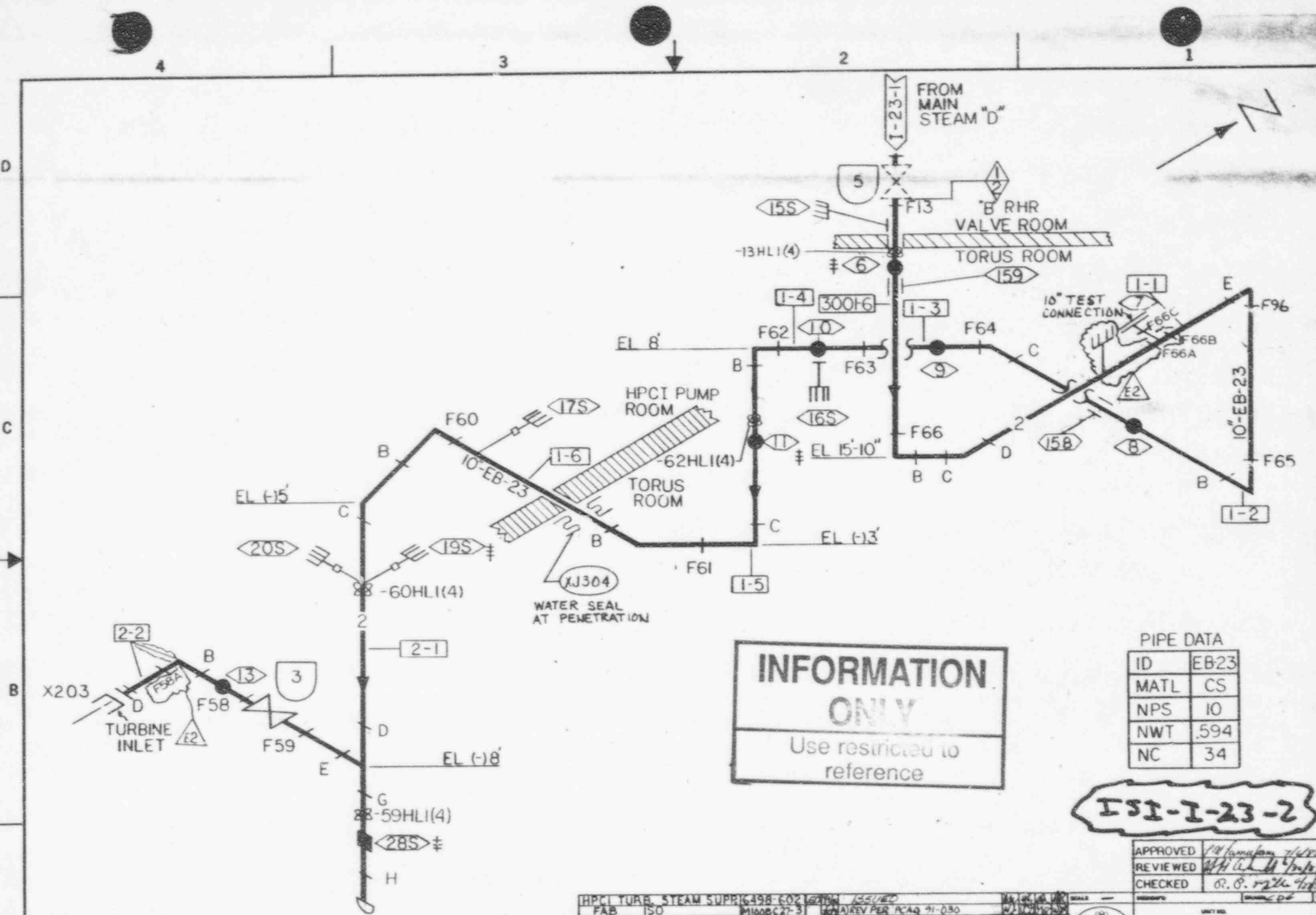
ISI-I-23-1

STRESS ISO	6498-601-1	ISSUED	6-14-10
STRESS ISO	6498-602	A REVISED PER PCAQ91-37	6-14-10
STRESS ISO	6498-603	B REVISED PER PCAQ91-030	6-14-10
FAB ISO	WISDM 25-3	C REVISED PER ERM 90-320	6-14-10
ISI PAID	WISDM 25-3		
ISI PAID	WISDM 25-3		

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>
DESIGNED	<i>[Signature]</i>

BOSTON EDISON COMPANY

HPCI SYSTEM
HPCI TURBINE STEAM SUPPLY &
PUMP DISCH. ISI WELD MAP



INFORMATION ONLY
Use restricted to reference

PIPE DATA

ID	EB23
MATL	CS
NPS	10
NWT	.594
NC	34

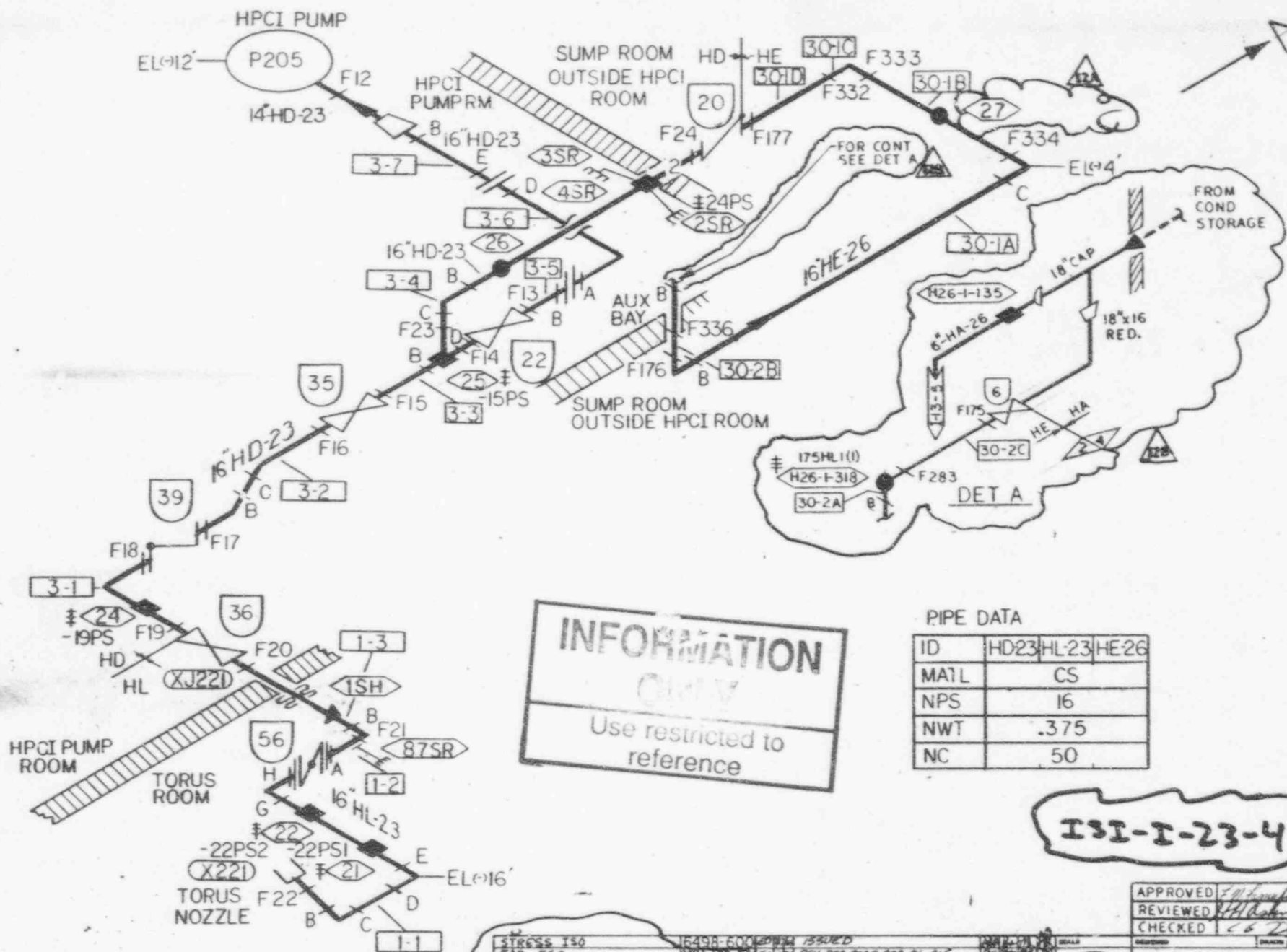
ISI-I-23-2

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

HPCI TURB. STEAM SUPPLY	649B-E02	ISSUED	
FAB	ISO	M100C-27-3	REV PER PCAQ 91-030
FAB	ISO	M100-58-4	REV PER DCN 91-70336
FAB	ISO	M100-183-4	REV PER PDC 87-43A
HPCI SYSTEM ISY PRD	IS-M-243	E22	REV PER PDC 87-43A
HPCI SYSTEM ISY PRD	IS-M-244		

BOSTON EDISON COMPANY

HPCI SYSTEM
TURBINE STEAM SUPPLY
ISI WELD MAP



INFORMATION
ONLY
 Use restricted to
 reference

PIPE DATA

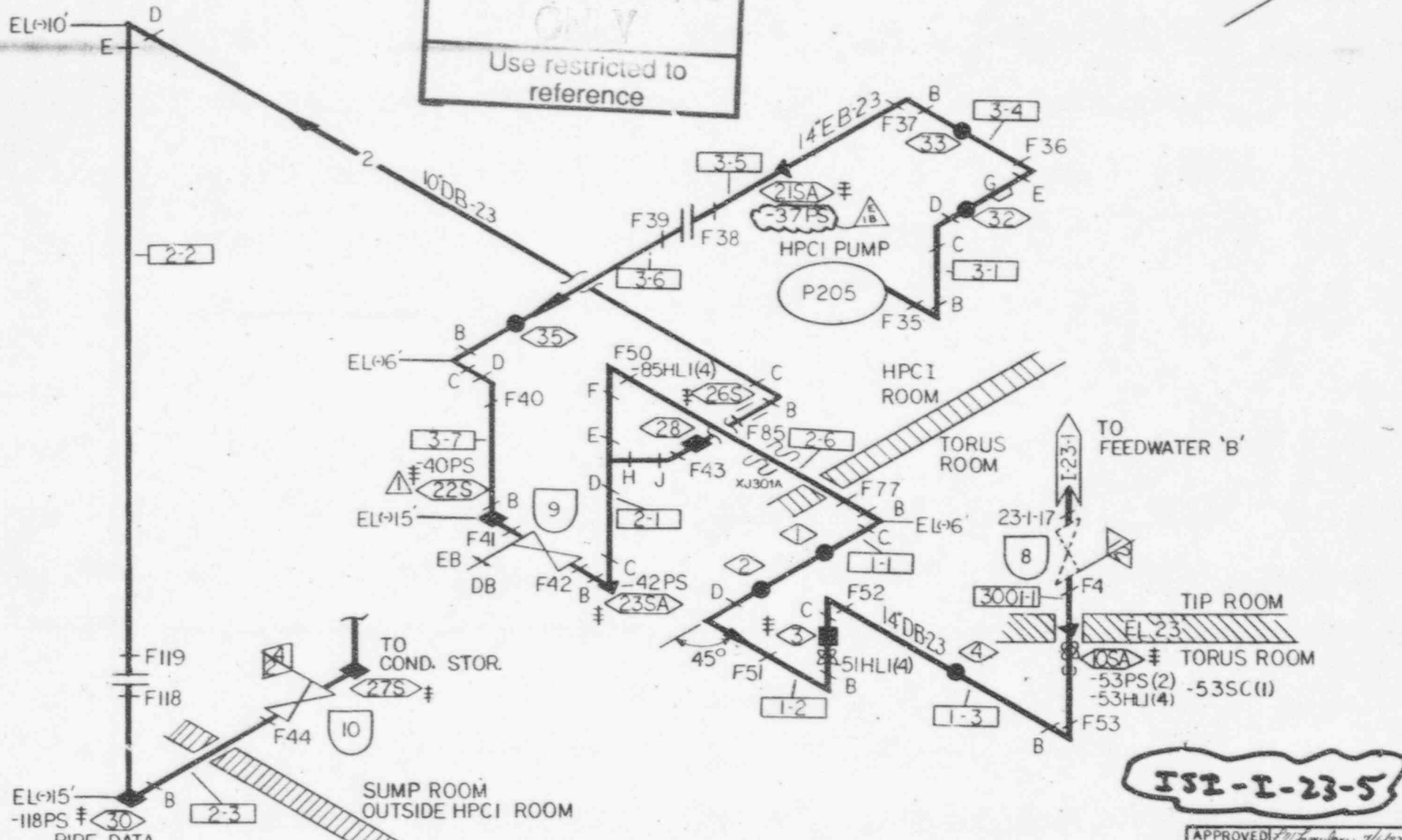
ID	HD23	HL-23	HE-26
MATL		CS	
NPS		16	
NWT		.375	
NC		50	

ISI-I-23-4

STRESS ISO	REV	DATE	BY	CHKD
FAB 150	1	11/11/83	REV PER PCAQ 6AD 86-013	
FAB 160	1	11/11/83	REV PER PCAQ 6AD 87-025	
FAB 150	1	11/11/83	REV PER PCAQ 91-650	
FAB 150	1	11/11/83		
ISI P/ID				
ISI P/ID				

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>
DATE	11/11/83
SCALE	AS SHOWN
BOSTON EDISON COMPANY HPCI SYSTEM HPCI PUMP SUCTION ISI WELD MAP	

INFORMATION ONLY
Use restricted to reference



ISI-1-23-5

APPROVED *[Signature]*
REVIEWED *[Signature]*
CHECKED *[Signature]*

PIPE DATA

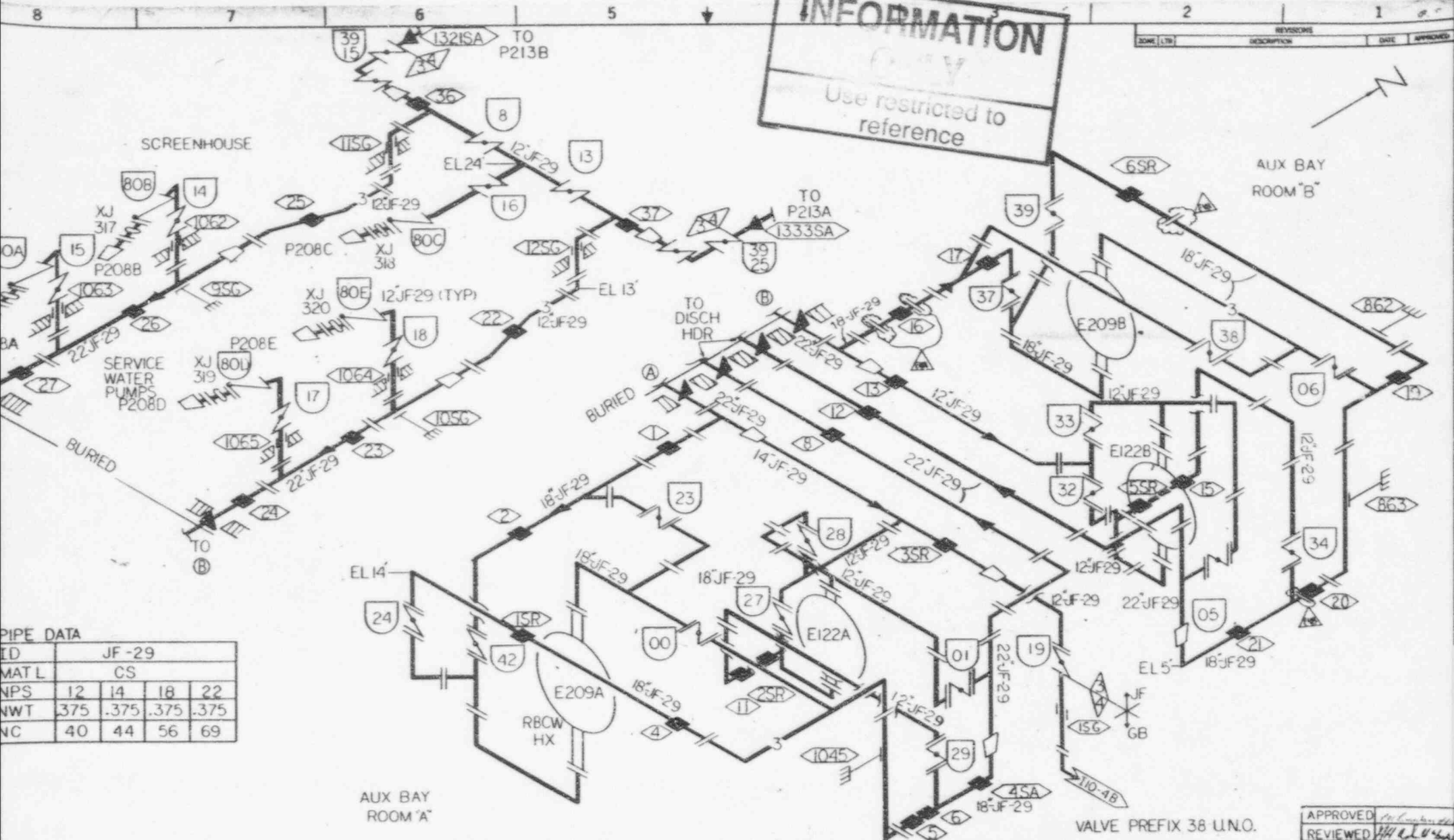
ID	DB-23	EB-23
MATL	CS	
NPS	10	14
NWT	.719	.938
NC	34	44

STRESS ISO	6498-601-1	REV. 1/23/40	DATE	
STRESS ISO	6498-601-2	REV. PER PCAQ 91-030	DATE	
FAB ISO	M100-7119	REV. PER PCAQ 91-030	DATE	
FAB ISO	M100-9-7	REV. PER PCAQ 91-030	DATE	
FAB ISO	M100-191-6		DATE	
ISI P&ID	ISI M243		DATE	
ISI P&ID	ISI M244		DATE	

BOSTON EDISON COMPANY

HPCI SYSTEM
HPCI PUMP DISCH TO REACTOR
ISI WELD MAP

INFORMATION
 Use restricted to reference



PIPE DATA

ED	JF-29			
MAT L	CS			
NPS	12	14	18	22
NWT	.375	.375	.375	.375
NC	40	44	56	69

REFERENCE	DWG. #	REFERENCES	DATE	BY	CHKD.	APP. BY
FAB 120	MS-7227	ATNESS 150	12-28-50	...	...	...
FAB 120	MS-7160	STRASS 150	1-14-51	...	...	...
FAB 120	MS-7229	STRASS 150	4-12-51	...	...	...
127 PA 120	REEMTIE	...	...	...	...	...
FAB 120	...	...	...	...	...	...
FAB 120	...	...	...	...	...	...
FAB 120	...	...	...	...	...	...
FAB 120	...	...	...	...	...	...
FAB 120	...	...	...	...	...	...
FAB 120	...	...	...	...	...	...
FAB 120	...	...	...	...	...	...
FAB 120	...	...	...	...	...	...

APPROVED
 REVIEWED
 CHECKED

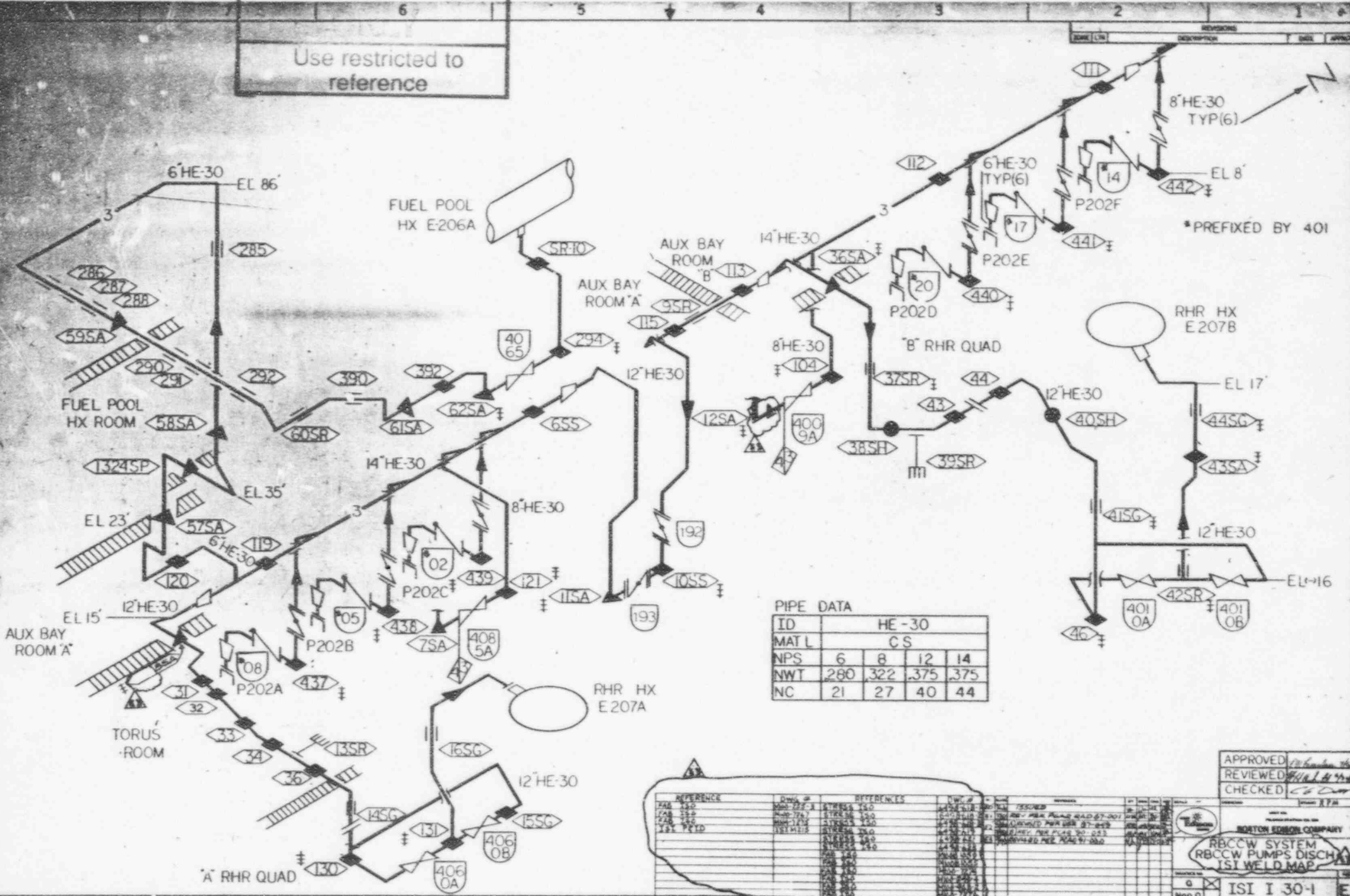
BOSTON EDISON COMPANY
 SERVICE WATER SUPPLY & RETURN - E209
 A & B, E122A & B ISI WELD MAP

Non Q
 IS129-1
 416003930

ACCEPTED RMD
 DATE 3/21/51

INFORMATION

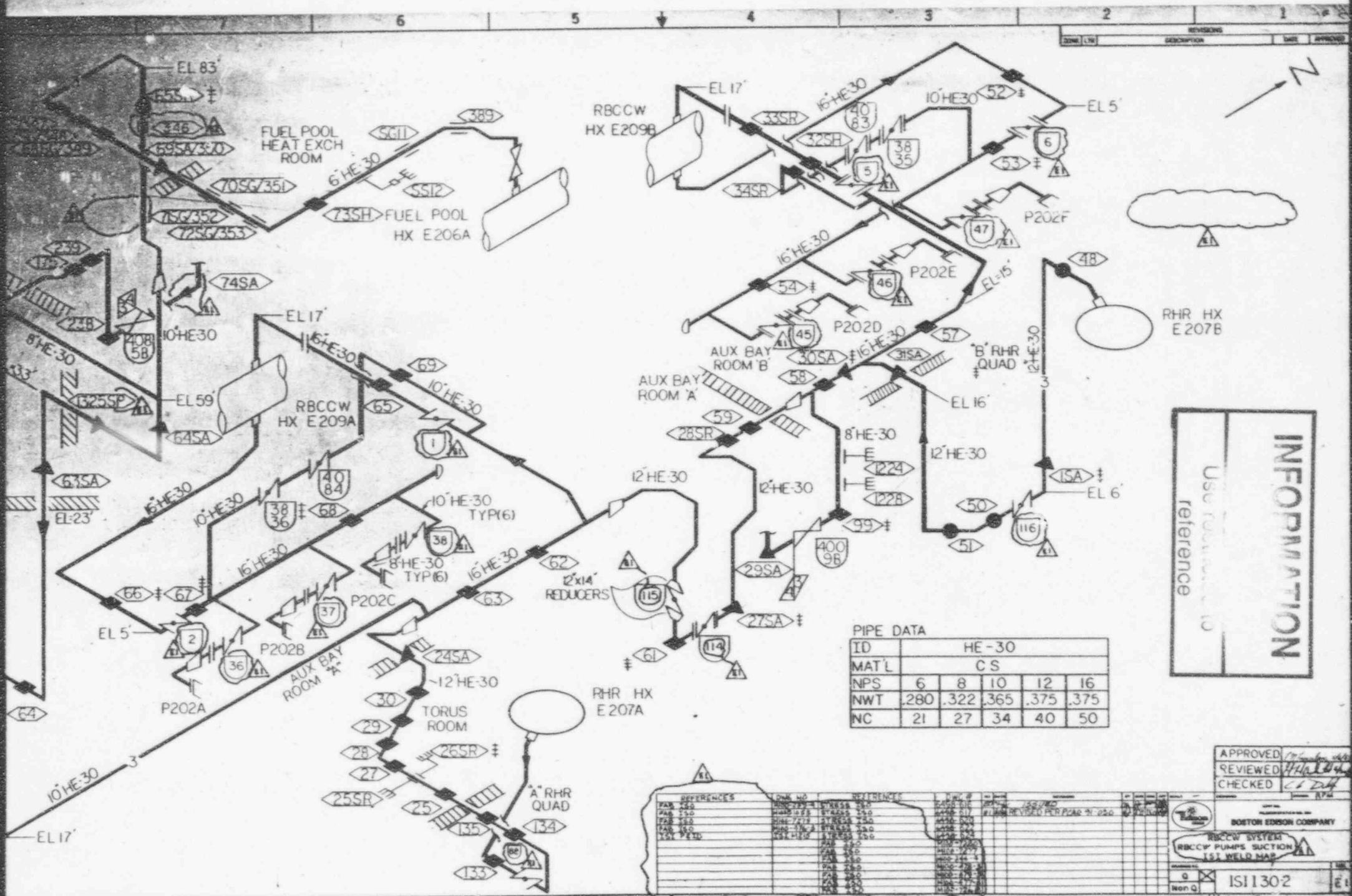
Use restricted to
reference



PIPE DATA

ID	HE-30			
MAT L	CS			
NPS	6	8	12	14
NWT	280	322	375	375
NC	21	27	40	44

REFERENCE	DATE	BY	REVISIONS	DESCRIPTION
1	11/15/83	ISI	1	ISSUED FOR CONSTRUCTION
2	12/15/83	ISI	2	REVISED PER PLAN 87-201
3	1/15/84	ISI	3	REVISED PER PLAN 87-202
4	2/15/84	ISI	4	REVISED PER PLAN 87-203
5	3/15/84	ISI	5	REVISED PER PLAN 87-204
6	4/15/84	ISI	6	REVISED PER PLAN 87-205
7	5/15/84	ISI	7	REVISED PER PLAN 87-206
8	6/15/84	ISI	8	REVISED PER PLAN 87-207
9	7/15/84	ISI	9	REVISED PER PLAN 87-208
10	8/15/84	ISI	10	REVISED PER PLAN 87-209
11	9/15/84	ISI	11	REVISED PER PLAN 87-210
12	10/15/84	ISI	12	REVISED PER PLAN 87-211
13	11/15/84	ISI	13	REVISED PER PLAN 87-212
14	12/15/84	ISI	14	REVISED PER PLAN 87-213
15	1/15/85	ISI	15	REVISED PER PLAN 87-214
16	2/15/85	ISI	16	REVISED PER PLAN 87-215
17	3/15/85	ISI	17	REVISED PER PLAN 87-216
18	4/15/85	ISI	18	REVISED PER PLAN 87-217
19	5/15/85	ISI	19	REVISED PER PLAN 87-218
20	6/15/85	ISI	20	REVISED PER PLAN 87-219
21	7/15/85	ISI	21	REVISED PER PLAN 87-220
22	8/15/85	ISI	22	REVISED PER PLAN 87-221
23	9/15/85	ISI	23	REVISED PER PLAN 87-222
24	10/15/85	ISI	24	REVISED PER PLAN 87-223
25	11/15/85	ISI	25	REVISED PER PLAN 87-224
26	12/15/85	ISI	26	REVISED PER PLAN 87-225
27	1/15/86	ISI	27	REVISED PER PLAN 87-226
28	2/15/86	ISI	28	REVISED PER PLAN 87-227
29	3/15/86	ISI	29	REVISED PER PLAN 87-228
30	4/15/86	ISI	30	REVISED PER PLAN 87-229
31	5/15/86	ISI	31	REVISED PER PLAN 87-230
32	6/15/86	ISI	32	REVISED PER PLAN 87-231
33	7/15/86	ISI	33	REVISED PER PLAN 87-232
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35	9/15/86	ISI	35	REVISED PER PLAN 87-234
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37	11/15/86	ISI	37	REVISED PER PLAN 87-236
38	12/15/86	ISI	38	REVISED PER PLAN 87-237
39	1/15/87	ISI	39	REVISED PER PLAN 87-238
40	2/15/87	ISI	40	REVISED PER PLAN 87-239
41	3/15/87	ISI	41	REVISED PER PLAN 87-240
42	4/15/87	ISI	42	REVISED PER PLAN 87-241
43	5/15/87	ISI	43	REVISED PER PLAN 87-242
44	6/15/87	ISI	44	REVISED PER PLAN 87-243
45	7/15/87	ISI	45	REVISED PER PLAN 87-244
46	8/15/87	ISI	46	REVISED PER PLAN 87-245
47	9/15/87	ISI	47	REVISED PER PLAN 87-246
48	10/15/87	ISI	48	REVISED PER PLAN 87-247
49	11/15/87	ISI	49	REVISED PER PLAN 87-248
50	12/15/87	ISI	50	REVISED PER PLAN 87-249
51	1/15/88	ISI	51	REVISED PER PLAN 87-250
52	2/15/88	ISI	52	REVISED PER PLAN 87-251
53	3/15/88	ISI	53	REVISED PER PLAN 87-252
54	4/15/88	ISI	54	REVISED PER PLAN 87-253
55	5/15/88	ISI	55	REVISED PER PLAN 87-254
56	6/15/88	ISI	56	REVISED PER PLAN 87-255
57	7/15/88	ISI	57	REVISED PER PLAN 87-256
58	8/15/88	ISI	58	REVISED PER PLAN 87-257
59	9/15/88	ISI	59	REVISED PER PLAN 87-258
60	10/15/88	ISI	60	REVISED PER PLAN 87-259
61	11/15/88	ISI	61	REVISED PER PLAN 87-260
62	12/15/88	ISI	62	REVISED PER PLAN 87-261
63	1/15/89	ISI	63	REVISED PER PLAN 87-262
64	2/15/89	ISI	64	REVISED PER PLAN 87-263
65	3/15/89	ISI	65	REVISED PER PLAN 87-264
66	4/15/89	ISI	66	REVISED PER PLAN 87-265
67	5/15/89	ISI	67	REVISED PER PLAN 87-266
68	6/15/89	ISI	68	REVISED PER PLAN 87-267
69	7/15/89	ISI	69	REVISED PER PLAN 87-268
70	8/15/89	ISI	70	REVISED PER PLAN 87-269
71	9/15/89	ISI	71	REVISED PER PLAN 87-270
72	10/15/89	ISI	72	REVISED PER PLAN 87-271
73	11/15/89	ISI	73	REVISED PER PLAN 87-272
74	12/15/89	ISI	74	REVISED PER PLAN 87-273
75	1/15/90	ISI	75	REVISED PER PLAN 87-274
76	2/15/90	ISI	76	REVISED PER PLAN 87-275
77	3/15/90	ISI	77	REVISED PER PLAN 87-276
78	4/15/90	ISI	78	REVISED PER PLAN 87-277
79	5/15/90	ISI	79	REVISED PER PLAN 87-278
80	6/15/90	ISI	80	REVISED PER PLAN 87-279
81	7/15/90	ISI	81	REVISED PER PLAN 87-280
82	8/15/90	ISI	82	REVISED PER PLAN 87-281
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84	10/15/90	ISI	84	REVISED PER PLAN 87-283
85	11/15/90	ISI	85	REVISED PER PLAN 87-284
86	12/15/90	ISI	86	REVISED PER PLAN 87-285
87	1/15/91	ISI	87	REVISED PER PLAN 87-286
88	2/15/91	ISI	88	REVISED PER PLAN 87-287
89	3/15/91	ISI	89	REVISED PER PLAN 87-288
90	4/15/91	ISI	90	REVISED PER PLAN 87-289
91	5/15/91	ISI	91	REVISED PER PLAN 87-290
92	6/15/91	ISI	92	REVISED PER PLAN 87-291
93	7/15/91	ISI	93	REVISED PER PLAN 87-292
94	8/15/91	ISI	94	REVISED PER PLAN 87-293
95	9/15/91	ISI	95	REVISED PER PLAN 87-294
96	10/15/91	ISI	96	REVISED PER PLAN 87-295
97	11/15/91	ISI	97	REVISED PER PLAN 87-296
98	12/15/91	ISI	98	REVISED PER PLAN 87-297
99	1/15/92	ISI	99	REVISED PER PLAN 87-298
100	2/15/92	ISI	100	REVISED PER PLAN 87-299
101	3/15/92	ISI	101	REVISED PER PLAN 87-300
102	4/15/92	ISI	102	REVISED PER PLAN 87-301
103	5/15/92	ISI	103	REVISED PER PLAN 87-302
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105	7/15/92	ISI	105	REVISED PER PLAN 87-304
106	8/15/92	ISI	106	REVISED PER PLAN 87-305
107	9/15/92	ISI	107	REVISED PER PLAN 87-306
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111	1/15/93	ISI	111	REVISED PER PLAN 87-310
112	2/15/93	ISI	112	REVISED PER PLAN 87-311
113	3/15/93	ISI	113	REVISED PER PLAN 87-312
114	4/15/93	ISI	114	REVISED PER PLAN 87-313
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116	6/15/93	ISI	116	REVISED PER PLAN 87-315
117	7/15/93	ISI	117	REVISED PER PLAN 87-316
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122	12/15/93	ISI	122	REVISED PER PLAN 87-321
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124	2/15/94	ISI	124	REVISED PER PLAN 87-323
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127	5/15/94	ISI	127	REVISED PER PLAN 87-326
128	6/15/94	ISI	128	REVISED PER PLAN 87-327
129	7/15/94	ISI	129	REVISED PER PLAN 87-328
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134	12/15/94	ISI	134	REVISED PER PLAN 87-333
135	1/15/95	ISI	135	REVISED PER PLAN 87-334
136	2/15/95	ISI	136	REVISED PER PLAN 87-335
137	3/15/95	ISI	137	REVISED PER PLAN 87-336
138	4/15/95	ISI	138	REVISED PER PLAN 87-337
139	5/15/95	ISI	139	REVISED PER PLAN 87-338
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151	5/15/96	ISI	151	REVISED PER PLAN 87-350
152	6/15/96	ISI	152	REVISED PER PLAN 87-351
153	7/15/96	ISI	153	REVISED PER PLAN 87-352
154	8/15/96	ISI	154	REVISED PER PLAN 87-353
155	9/15/96	ISI	155	REVISED PER PLAN 87-354
156	10/15/96	ISI	156	REVISED PER PLAN 87-355
157	11/15/96	ISI	157	REVISED PER PLAN 87-356
158	12/15/96	ISI	158	REVISED PER PLAN 87-357
159	1/15/97	ISI	159	REVISED PER PLAN 87-358
160	2/15/97	ISI	160	REVISED PER PLAN 87-359
161	3/15/97	ISI	161	REVISED PER PLAN 87-360
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168	10/15/97	ISI	168	REVISED PER PLAN 87-367
169	11/15/97	ISI	169	REVISED PER PLAN 87-368
170	12/15/97	ISI	170	REVISED PER PLAN 87-369
171	1/15/98	ISI	171	REVISED PER PLAN 87-370
172	2/15/98	ISI	172	REVISED PER PLAN 87-371
173	3/15/98	ISI	173	REVISED PER PLAN 87-372
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175	5/15/98	ISI	175	REVISED PER PLAN 87-374
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177	7/15/98	ISI	177	REVISED PER PLAN 87-376
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179	9/15/98	ISI	179	REVISED PER PLAN 87-378
180	10/15/98	ISI	180	REVISED PER PLAN 87-379
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182	12/15/98	ISI	182	REVISED PER PLAN 87-381
183	1/15/99	ISI	183	REVISED PER PLAN 87-382
184	2/15/99	ISI	184	REVISED PER PLAN 87-383
185	3/15/99	ISI	185	REVISED PER PLAN 87-384
186	4/15/99	ISI	186	REVISED PER PLAN 87-385
187	5/15/99	ISI	187	REVISED PER PLAN 87-386
188	6/15/99	ISI	188	REVISED PER PLAN 87-387
189	7/15/99	ISI	189	REVISED PER PLAN 87-388
190	8/15/99	ISI	190	REVISED PER PLAN 87-389
191	9/15/99	ISI	191	REVISED PER PLAN 87-390
192	10/15/99	ISI	192	REVISED PER PLAN 87-391
193	11/15/99	ISI	193	REVISED PER PLAN 87-392
194	1			



DATE	REV	DESCRIPTION	BY	APPROVED

INFORMATION
 Use for reference only

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	DATE	BY	DESCRIPTION	REVISED PER
PAR 150	11/15/79	STRESS	150	150
PAR 150	11/15/79	STRESS	150	150
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PAR 150	11/15/79	STRESS	150	150
PAR 150	11/15/79	STRESS	150	150

APPROVED _____
 REVIEWED _____
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BOSTON EDISON COMPANY
 RBCCW SYSTEM
 RBCCW PUMPS SUCTION
 IS1 WELD MAP
 IS11302

ACCEPTED RMD

4100-5932

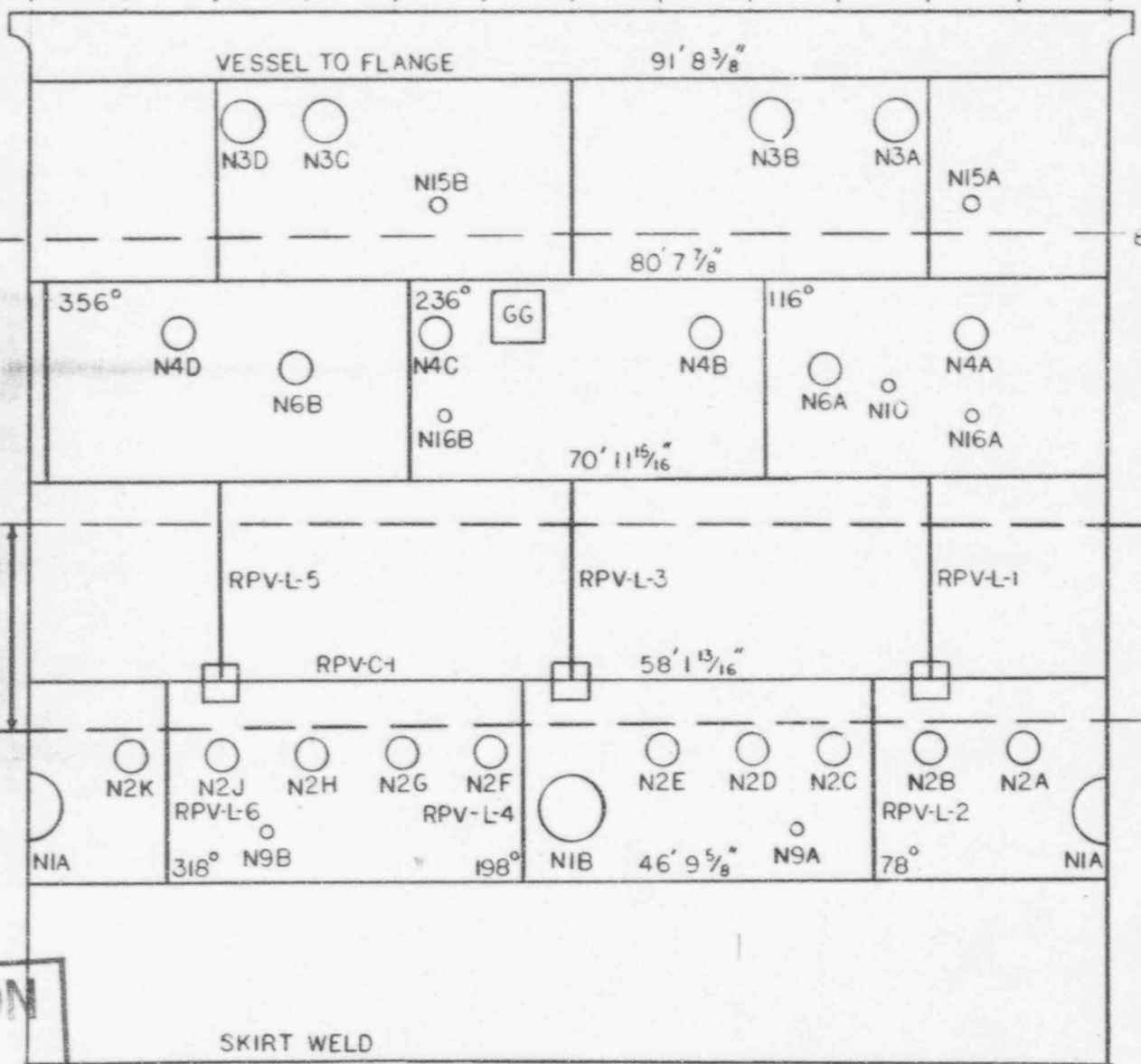
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0° 330° 300° 270° 240° 210° 180° 150° 120° 90° 60° 30° 0°



INFORMATION

Use restricted to reference

252-I-54-1

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REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

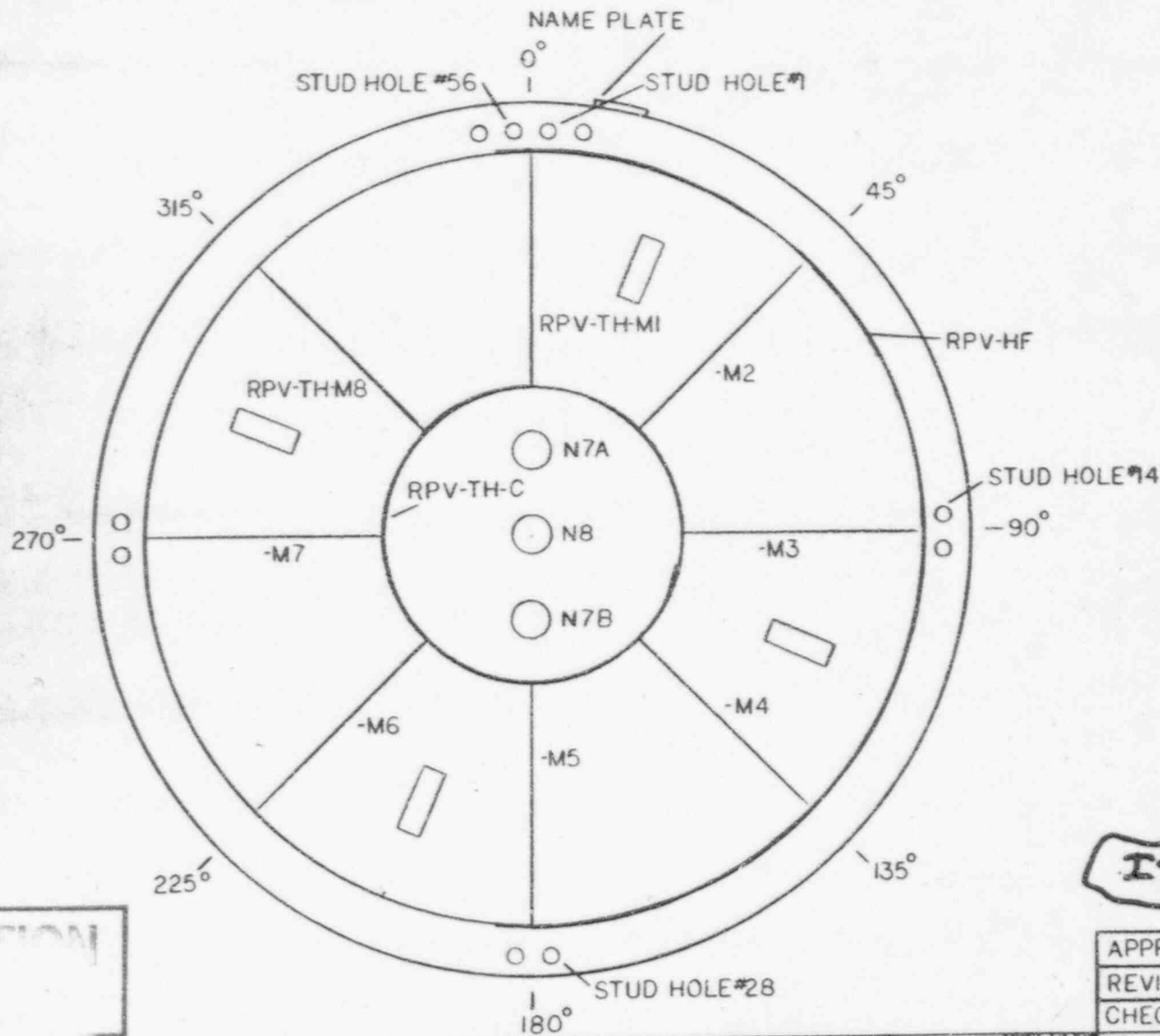
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SCALE: 1" = 1'-0"

BOSTON EDISON COMPANY

NUCLEAR BOILER SYSTEM
REACTOR VESSEL WELDS & NOZZLES
IST WELD MAP

E1



ISI-I-54-3

INFORMATION

Use restricted reference

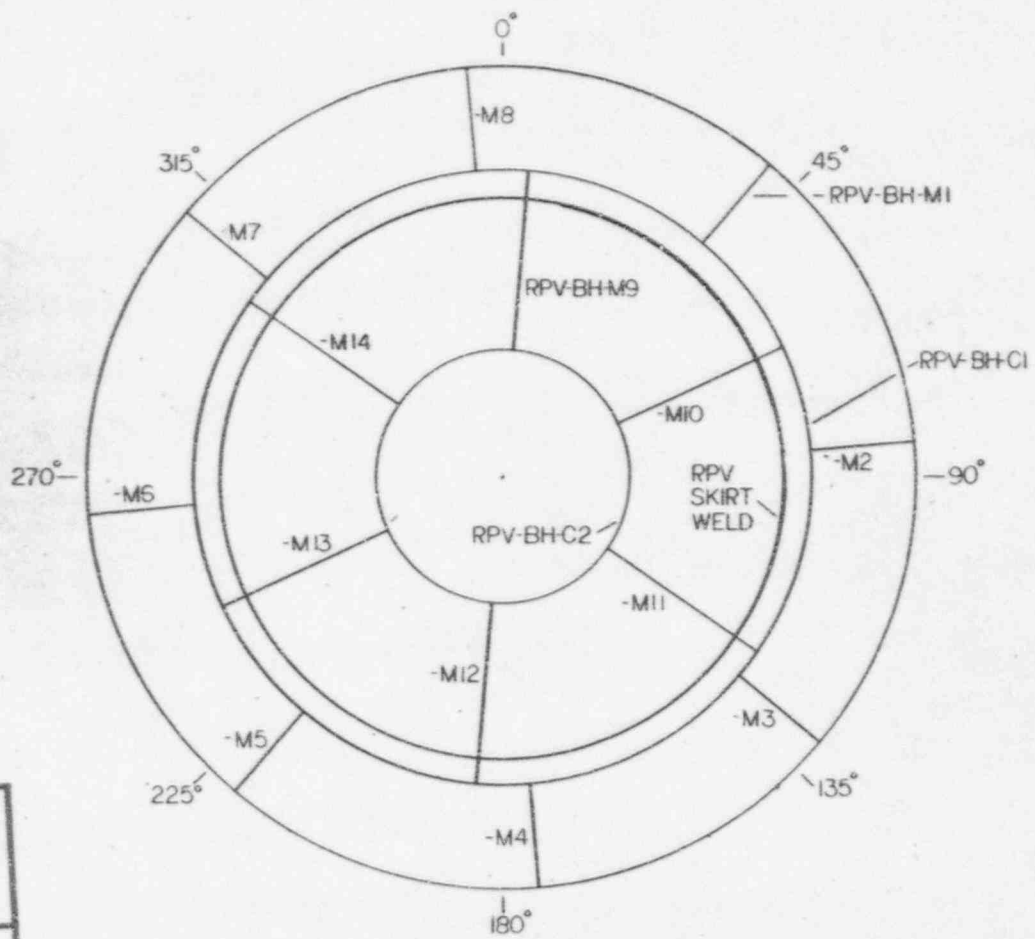
APPROVED	<i>[Signature]</i> 7/3/76
REVIEWED	<i>[Signature]</i> 2-21-76
CHECKED	<i>[Signature]</i> 1/1/76

NO.	DESCRIPTION	DATE	BY

NUCLEAR BOILER SYSTEM
 REACTOR VESSEL CLOSURE HEAD
 WELDS & NOZZLES- ISI WELD MAP

HOSTON EDISON COMPANY
 AR IC

REV	DATE	DESCRIPTION	BY	APP'D



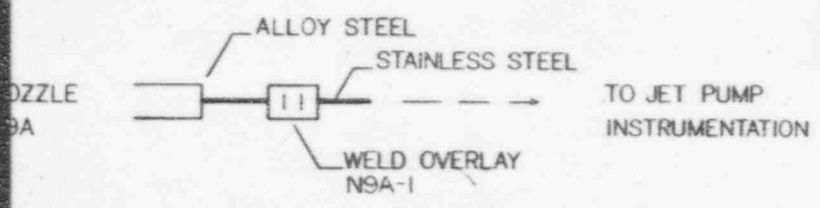
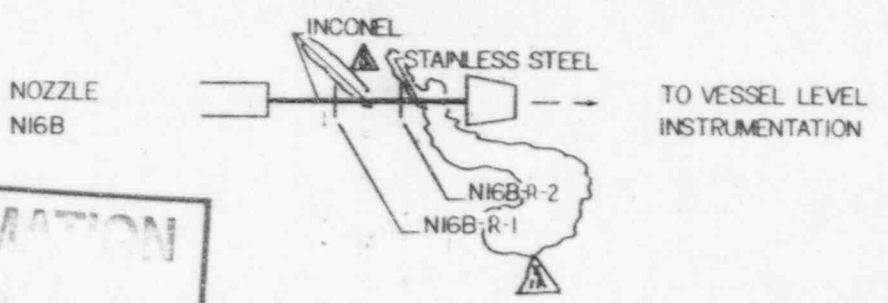
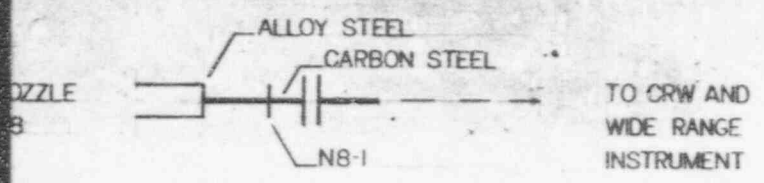
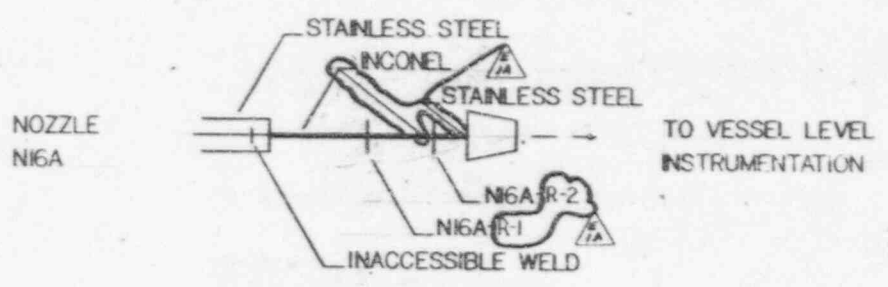
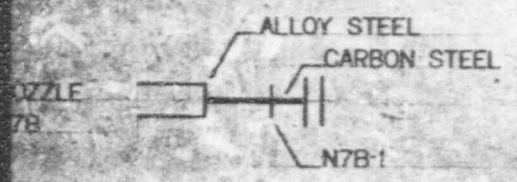
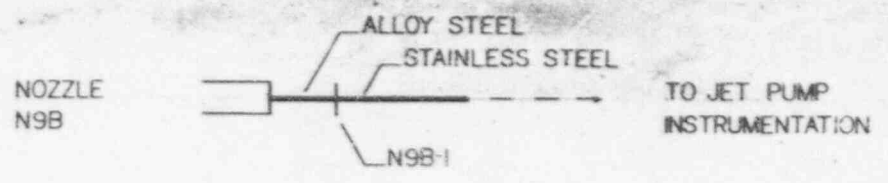
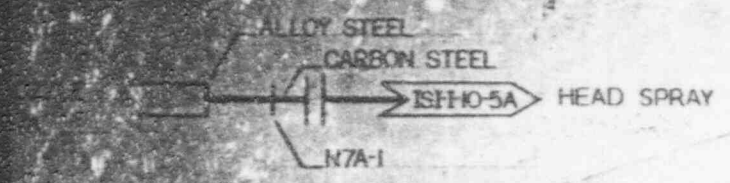
INFORMATION
 Only
 Use restricted to
 reference

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>

NUCLEAR BOILER SYSTEM
 REACTOR VESSEL BOTTOM HEAD WELDS
 ISI WELD MAP

ACCEPTED THIS DATE 10/28/82

ISI-1543



INFORMATION ONLY
Use restricted to reference

REVISION	DATE	BY	CHKD	DESCRIPTION
1	10/15/54
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APPROVED
REVIEWED
CHECKED

BOSTON EDISON COMPANY
NUCLEAR BOILER SYSTEM
REACTOR VESSEL NOZZLES
ISI WELD MAP
Non Q
ISI-1-54-4