

INSERVICE INSPECTION SUMMARY REPORT

FOR REFUEL OUTAGE #9

AT

PILGRIM NULCEAR POWER STATION

Prepared by *Raymond P. Parker* Date *7-28-93*

Reviewed by *Charles G. Gannon* Date *7/28/93*

Approved by *U Venkata Ramu* ^{*for ENF*} Date *7/29/93*

BOSTON EDISON COMPANY

AUGUST, 1993

ENCLOSURE A

PILGRIM NUCLEAR POWER STATION

1993 REFUEL OUTAGE #9 INSERVICE INSPECTION SUMMARY REPORT

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SECTION 1.0

RFO #9

EXECUTIVE SUMMARY

**PILGRIM NUCLEAR POWER STATION
1993 REFUEL OUTAGE #9 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 #8 through RFO #9. 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 'A' loop discharge piping.

Ultrasonic examination of high energy piping for evidence of erosion/corrosion per Generic Letter 89-03.

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

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.

Visual examination of reactor vessel shroud support access hole covers.

Visual examination of Drywell annulus air gap drain lines.

Examination Details:

Examinations were conducted in accordance with ASME Section XI, 1980 Edition, Winter 1980 Addenda and BECo letters to NRC 92.107, 93.038 and 91.048.

The inspection vendors were Stone & Webster Engineering Corporation (SWEC) for Midcycle Outage #9 (MCO 9) in 1992 and ABB AMDATA, Inc. for the 1993 Refuel Outage #9 (RFO 9) examination scope. General Electric Nuclear Energy performed the RWCU piping replacement preservice examinations in RFO #9.

Regarding BECo Letter 92.107, Inservice Inspection Plan for the 1992 Midcycle 9 Outage at PNPS:

All welds and pipe support exams were completed with the exception of the following welds deferred to subsequent outages for scheduling reasons:

14-B-5	HL-23-F28
14-B-7	HL-23-F69
14-B-8	6-N4A-12
14-B-9	6-N4A-13

Core spray weld 14-B-4 was not examined due to a drawing discrepancy documented in Problem Report 92.0511.

RHR Heat Exchanger Nozzle Weld 10-E207B-N3-3 and HPCI weld HL-23-4-1B were added to the inspection scope.

Regarding BECo Letter 93.038, Inservice Inspection Plan for the 1993 Refuel Outage #9 at PNPS:

The examination of 72 welds, 105 pipe supports, 58 erosion/corrosion points and 26 Salt Service Water spool pieces were completed with the exception of the following welds deferred for scheduling purposes:

RPV-N14-NV	14-A-4
RPV-N15A-NV	14-A-5
RPV-N15B-NV	
RPV-N16A-NV	
RPV-N16B-NV	

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

The 4" air gap drains were visually examined in 1993 for evidence of leakage, both immediately after flood-up of the refuel cavity and prior to drain-down per the revised inspection commitment. No evidence of leakage was detected.

Results:

The following is a list of findings:

- **MCO #9**

Combined ASME XI, IGSCC and SSW examinations during the 1992 Midcycle 9 Outage resulted in 11 Nonconformance Reports (NCR) and 10 Problem Reports (PR). Nine nonconforming components required rework which was completed prior to restart of the unit.

RHR Heat Exchanger E-207B nozzle reinforcing plate weld 10-E207B-N4-3 had a magnetic particle linear indication in MCO #9 which was removed without welding.

Pipe support visual examinations in MCO #9 revealed five pipe supports with service-induced conditions (NCRs 92-86, 92-87, 92-94, 92-95 and 92-104) for loose bolting and one cracked structural weld. Scope was expanded to include 23 additional supports.

HPCI weld HL-23-4-1B was substituted in MCO #9 for weld HL-23-F69 and weld HL-23-F95 substituted for HL-23-F28 due to interferences preventing >90% exam coverage. The examination of weld HL-23-F95 was performed during RFO #9.

RFO #9

The RFO #9 exams (ASME XI, IGSCC, Erosion/Corrosion and SSW) performed during 1993 resulted in a total of 14 NCRs and 12 Problem Reports.

RFO #9 pipe support visual examinations resulted in 6 nonconformance reports, two of which required rework to restore to as-designed condition. One nonconformance was documented as a service related condition. Scope expansion necessitated 3 additional pipe support examinations.

Three nonconformances were generated by the erosion/corrosion examinations, one of which required repair of a below minimum wall condition (NCR 93-121). The condition was resolved by application of mechanical clamps to non-safety related extraction steam piping (Temporary Modification 93-46).

Salt Service Water System piping visual and ultrasonic thickness were conducted during both the MCO #9 (B Loop) and RFO #9 (A Loop) Outages. A remote pipe crawler visual exam of buried 'A' loop discharge piping was conducted by ABB AMDATA, Inc. during RFO #9. Three nonconformances were issued for various rubber lining problems, one of which was resolved by repairing torn rubber at a flange face, believed to be related to disassembly.

Preservice examinations of 10 new safety related piping welds were performed by GENE due to replacement of a portion of RWCU system piping with IGSCC-resistant material. Twelve non-safety related welds were also replaced and received UT baseline exams for IGSCC.

Preservice visual examinations of ten new pipe supports for buried replacement titanium SSW intake piping were performed during RFO #9.

Full UT coverage (>90%) could not be achieved for HPCI Weld DB-23-F4 due to scan interferences. As radiography is not a satisfactory alternative method in this case due to configuration, Boston Edison will apply for relief from this exam at a later date.

1.1 LIST OF ACRONYMS

<u>ACRONYM</u>	<u>DESCRIPTION</u>	<u>SYSTEM NO.</u>
CACS	Containment Atmosphere Control	9
CRD	Control Rod Drive	3
CS	Core Spray	14
FW	Feedwater	6
HPCI	High Pressure Coolant Injection	23
MS	Main Steam	1
RBCCW	Reactor Building Closed Cooling Water	30
RCIC	Reactor Core Isolation Cooling	13
RECIRC	Reactor Recirculation	2
RHR	Residual Heat Removal	10
RPV	Reactor Pressure Vessel	54
SBLC	Standby Liquid Control	11
SSW	Salt Service Water	29
MT	Magnetic Particle Examination	
UT	Ultrasonic Examination	
VT	Visual Examination	
ES	Extraction Steam	16
MSD	Moisture Separator Drains	1
HD	Heater Drains	17

TABLE 1

PRESERVICE VISUAL EXAMINATIONS

<i>COMPONENT</i>	<i>SYSTEM</i>	<i>TYPE</i>	<i>DATA SHEET</i>
H-23-1-13SS	HPCI	VT-3/4	VT-23-93016
H-23-1-12SS	HPCI	VT-3/4	VT-23-93013
TURBINE EXHAUST DRAIN	HPCI	VT-2	VT-23-93015
H-23-1-15SS	HPCI	VT-3/4	VT-23-93017
P-208C (BASEPLATE)	SSW	VT-3	VT-29-92001
H-29-1-24	SSW	VT-3	VT-29-92034
H-29-1-12SG	SSW	VT-3	VT-23-92030
H-29-1-22	SSW	VT-3	VT-29-92031
H-29-1-10SG	SSW	VT-3	VT-29-92032
H-29-1-1064	SSW	VT-3	VT-29-92033
H-29-1-45	SSW	VT-3	VT-29-93027
H-29-1-46	SSW	VT-3	VT-29-93030
H-29-1-47	SSW	VT-3	VT-29-93026
H-29-1-48	SSW	VT-3	VT-29-93031
H-29-1-49	SSW	VT-3	VT-29-93028
H-29-1-50	SSW	VT-3	VT-29-93032
H-29-1-51	SSW	VT-3	VT-29-93025
H-29-1-52	SSW	VT-3	VT-29-93033
H-29-1-53	SSW	VT-3	VT-29-93035
H-29-1-54	SSW	VT-3	VT-29-93034
SRV203-3D	MS	VT-3	VT-1-91034
SS-1-10-9	MS	VT-3	VT-1-91037
SRV203-3D (BOLTING)	MS	VT-1	VT-1-91038
CRD (BOLTING)	CRD	VT-1	VT-3-92002
H-14-1-16S	C.S.	VT-3/4	VT-14-93006
H-2-1-SS25	RECIRC	VT-3/4	VT-2-93009
H-6-1-SS-10	FW	VT-3/4	VT-6-93008
H-6-1-SS-9	FW	VT-3/4	VT-6-93009
RCIC PIPING	RCIC	VT-2	VT-13-92009
MO1301-61 (VALVE)	RCIC	VT-2	VT-13-92008

TABLE 2

MISCELLANEOUS VISUAL EXAMINATIONS PERFORMED SINCE RFO #8

<i>SYSTEM</i>	<i>COMPONENT</i>	<i>EXAM TYPE</i>	<i>DATE PERFORMED</i>	<i>DATA SHEET</i>
MS	SRV203-3A	VT-3	12-15-92	VT-1-92003
MS	SRV203-3D	VT-3	11-6-91	VT-1-91035
MS	SRV203-3D	VT-1	11-1-91	VT-1-91038
MS	SRV203-3A	VT-3	12-15-92	VT-1-92002
MS	SRV203-3A	VT-2	12-18-92	VT-1-92004
MS	SRV203-3D	VT-2	11-21-91	VT-1-91036
C.R.D.	BOLTING	VT-1	4-1-92	VT-3-92003
C.R.D	38-31 & 38-23	VT-2	4-10-92	VT-3-92004
RCIC	1301-17 VALVE	VT-2	4-17-92	VT-13-92002
RCIC	1301-50	VT-2	11-8-91	VT-13-91005
RPV	CLASS #1 SYSTEM PRESSURE TEST	VT-2	5-14-93	VT-54-93001 THRU VT-54-93018

ENCLOSURE E

REPORT DISTRIBUTION LIST

*Mr. R. Eaton, Project Manager
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation
Mail Stop: 14D1
U. S. Nuclear Regulatory Commission
1 White Flint North
11555 Rockville Pike
Rockville, MD 20852*

*U. S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406*

*Senior NRC Resident Inspector
Pilgrim Nuclear Power Station*

*Mr. Fred P. Barton
Supervising District Engineering Inspector
Division of Inspection
Department of Public Safety
1 Ashburton Place
Room 1301
Boston, MA 02108*

*Authorized Nuclear Inservice Inspector (ANII)
Mr. V. Iyer
Pilgrim Nuclear Power Station*

SECTION 2.0

NIS-1 AND NIS-2 CODE REPORTING FORMS

FOR ASME XI INSPECTIONS AND

REPAIRS/REPLACEMENTS

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, Plymouth, MA
(Name and Address of Plant)
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.
<u>Reactor Vessel</u>	<u>Combustion Eng.</u>	<u>66107</u>	<u>66207</u>	<u>20763</u>
<u>Piping</u>	<u>Bechtel</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
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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 8-15-91 to 5-12-93 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 7-29-93 Signed Boston Edison By Munkelata
Owner Q.A. 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 System Norwood, MA have inspected the components described in this Owners' Data Report during the period 8-15-91 to 5-12-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the 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. * ARKWRIGHT INS. CO

Date July 29 1993
Inspector's Signature [Signature] Commissions MA 1420
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 Company

Name

800 Boylston Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by BECO/Anchor Darling Valve Co

Name

800 Boylston Street, Boston, MA 02199

Address

Date 4/29/93

Sheet 1 of 1

Unit #1

MR 19104291/P.O. #107604

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

Type Code Symbol Stamp A/D 'NR'

Authorization No. 44

Expiration Date July 10, 1995

4. Identification of System HPCI

5. (a) Applicable Construction Code III 19 86 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
M.O Gate Valve	Velan	---	---	MO-2301-3	67	Repaired	NO
Wedge	Velan	--	--	MO-2301-3	67	Replaced	NO

7. Description of Work Repair/modification done by A/D under their QA Program (See Remarks).

Replaced valve wedge, seat rings and reweld in body guides.

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 The modification of the seat rings consisted of fabrication of a 10" OD x 1 1/8" wall
thick pipe (#45283 MRIR #88-3465). Seat buildup was done with stellite 156 powder per Weld Procedure
W-195 R/C, FRN 93-03-15,17 & Drawing 9019-001. A spare set of rings were also modified/fabricated
per above. A/D Valve Co. provided Form 'NR-1' for the repair/modification. Component (Wedge) meets the original
design codes. See MR 19104291 for details.

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 N/A Expiration Date _____

Signed SL Buba Jr. Pms Div. Mgr Date JULY 28, 1993
 Owner or Owner's Designed, Title Audit/QA

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period REQ to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions MA 1420
 National Board, State, Province and Endorsements

Date 7-28 1993

• Arkwright Ins. Co.

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 Street, Boston, MA
Address

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

3. Work Performed by Boston Edison Company
Name
Rocky Hill Road, Plymouth, MA
Address

Date 5-11-93

Sheet 1 of 1

Unit #1

MR #19301881
Repair Organization P.O. No., Job No., etc

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System HPCI

5. (a) Applicable Construction Code ASME 1977 Edition 78 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)
(Disc) Valve 2301-74	A/D	--	--	--	82	Replace Disc	Yes

7. Description of Work Installed Replacement Disc (Improved Design) per Articles IWA 5000 IWC 5000 Acceptance XI Article IWA 5250

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

Seat Leakage Test Per PNPS Procedure 8.7.1.5

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:

Purchased New (Improved Design Disc) from A/D. The Replacement Disc
Applicable Manufacturer's Data Reports to be attached
 meets the original design and requirements as documented in BECo Spec.
 M-528.

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 Div Mgr Date 7/13 19 93
 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 Massachusetts and employed by Factory Mutual Systems * of
Norwood, Massachusetts have inspected the components described
 in this Owner's Report during the period RFC 9 to _____, 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 7-26-93 * ARKWRIGHT INS Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 3/29/93

Sheet 1 of 1

Unit #1

MR 19201551

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Water Cleanup System

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
RWCU Piping	--	--	--	--	1993	Replaced	NO

7. Description of Work Replaced section of Reactor Water Cleanup Piping per PDC 92-33.

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

Other ☐ Pressure 1155 psi Test Temp. 60 °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 All replacement materials were in accordance with BECo Specification M300. All 'Q'
Applicable Manufacturer's Data Reports to be attached
replacement piping was purchased/receipt inspected with associated MRIR #'s. Piping replaced
in accordance with PDC 92-33.

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 N/A Expiration Date -

Signed SLB ibc for RMS Date 7/28, 19 93
 Owner or Owner's Designed, Title DIV Mgr OGC

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO #9 to - and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature] Commissions M9 1420
 Inspector's Signature National Board, State, Province and Endorsements
 Date 7-28-93 *Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 10-21-92

Sheet 1 of 1

Unit #1

Mr 19201890

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RCIC System

5. (a) Applicable Construction Code ASME Section II, III, V, IX 19 86 Edition, Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-1301-61	Conval	--	--	--	92	Replacement	YES

7. Description of Work Replace MO-1301-61 Valve

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

Other ☐ Pressure 1413 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.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

- A hydrostatic test was completed on all new pipe to valve and pipe to pipe joints at 1413 psig (1.25 x design pressure).
- Valve body was hydrotested to 1.5 x cold working pressure. Seat tested to 110% of cold working pressure.

FORM NIS-2 (Back)

9. Remarks The RCIC Turbine inlet valve, MO-1301-61, was replaced in its entirety. The replacement
valve was fabricated in accordance with BECo Spec. #M102G. A C of C was provided by the vendor
to address codes, material, welding, NDE, hydrotesting and valve functional testing.

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 N/A Expiration Date _____

Signed R Schifone QC Div Mgr Date 7/13, 19 93
 Owner or Owner's Designed, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10-21-92 to RF0 9, and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MA 1420
 Date 7-26 19 93 National Board, State, Province and Endorsements

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 2-26-93

Sheet 1 of 1

Unit #1

MR 19300653

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RCIC

5. (a) Applicable Construction Code ASME III 19 89 Edition, Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-1301-61	Conval	---	---	---	92	Repaired	NO

7. Description of Work Machined bonnet/chamber ID up to 0.010" Max.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test. No leakage noted.

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 All work was completed in accordance with the manufacturer supplied tolerances. Per FRN 93-03-12.

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 N/A Expiration Date _____

Signed [Signature] QC Div Mgr Date 7/22, 19 93
Owner or Owner's Designed, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2-26-93 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MA 1420
National Board, State, Province and Endorsements
Date 7-27-93 •Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 2-25-92

Sheet 1 of 1

Unit #1

MR 19101273

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RCIC

5. (a) Applicable Construction Code Section VIII 19 65 Edition, ✓ Addenda, ✓ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-1301-70	Dresser	1543	--	--	92	Replacement	YES

7. Description of Work Replace PSV-1301-70, a one for one replacement.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

Performed an in-service leak test at threaded connection with no visible leaks. Pressure boundary piping not affected. Therefore, no pressure test required.

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 PSV-1301-70 replaced with an upgraded valve per FRN 91-08-05. Original valve constructed to ASME
Applicable Manufacturer's Data Reports to be attached
Code Section VIII and replaced valve to ASME Section III, CL. 2.

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 N/A Expiration Date _____

Signed R. Schifone QC Div Man Date 4/13, 19 93
 Owner or Owner's Designed, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2-25-92 to RF09, and state that to be 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 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 or any kind arising from or connected with this inspection.

V. Kypre Commissions MA 1420
 Inspector's Signature National Board, State, Province and Endorsements
 Date 2-26-93

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 12-14-92

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

MR 19201586

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 ASME Section III, Class 1 19 68 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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 S/N-1049	88	Replacement	YES
				Pilot S/N-1054			

7. Description of Work Replaced SRV-203-3A top works (replacement in kind) existing SRV-203-3A top works was leaking.

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

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.

(12/82)

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*=Inservice leak test performed at flanged connection with no visible leaks.

FORM NIS-2 (Back)

9. Remarks The SRV top works (pilot assembly) was rebuilt and tested by Target Rock and Wyle Labs and
Applicable Manufacturer's Data Reports to be attached
certified to meet the Tech Spec requirements.

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 N/A Expiration Date _____

Signed RSchifano GC Div Mgr Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of
Norwood, Massachusetts have inspected the components described in this Owner's Report during the
period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Vhyup
Inspector's Signature

Commissions MA 1420
National Board, State, Province and Endorsements

Date 7-27-1993

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 07/07/93

Sheet 1 of

Unit #1

Various

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RHR

5. (a) Applicable Construction Code Section III 19 80 Edition, ✓ Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-8004	Anderson Greenwood	--	--	MR 19201288	92	Replacement	YES
PSV-8005	Anderson Greenwood	--	--	MR 19101287	92	Replacement	YES
PSV-1001-22A	Anderson Greenwood	--	--	MR 19101282	92	Replacement	YES

7. Description of Work Replaced PSV-8004, PSV-8005 and PSV-1001-22A (one for one replacement).

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

Other ☐ Pressure 250 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.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

- Notes:
1. Performed an inservice leak test at flange connections with no leakage.
 2. The replacement relief valve was tested and pressure set at the Mfg. setting 200 psig.
 3. The modified inlet suction piping was hydrostatic tested at 250 psig for 10 min.

FORM NIS-2 (Back)

9. Remarks The new valve was installed to enhance stability, reliability and valve performance

Applicable Manufacturer's Data Reports to be attached

to assure satisfactory valve testing, QA and documentation.

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 N/A

Expiration Date _____

Signed R. Schifano
Owner or Owner's Designed, Title

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFI 9 to _____ and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27 1993

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 07/08/93

Sheet 1 of 1

Unit #1

Various

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Core Spray

5. (a) Applicable Construction Code R31.1 19 67 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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	BP/AD	S/N 462	--	MR19202240	91/92	Replacement	NO
SS-14-3-01	BP/AD	S/N 463	--	MR19202241	91/92	Replacement	NO

7. Description of Work Remove and replace snubber

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

Other ☒ Pressure psi Test Temp. °F

Snubbers are tested I.A.W. Procedure 3.M.4-28.

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 rebuilt I.A.W. BECo Procedures. P.Q.E. certified applicable replacement

Applicable Manufacturer's Data Reports to be attached

parts for snubbers. Additional snubbers were tested in accordance with BECo Procedure.

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 N/A

Expiration Date _____

Signed R. Schone

Owner or Owner's Designated, Title

Date 7/13

, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachu is _____ have inspected the components described in this Owner's Report during the period RFO 9 to —, and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Date 7-27-93

Commissions MA 1420

National Board, State, Province and Endorsements

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 11/3/92

Sheet 1 of 1

Unit #1

MR 19201749

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Water Clean Up

5. (a) Applicable Construction Code ASME III 19 68 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
R/W CU HT. EX.	G. E.	196636	45296	E-208B	1969	Repair	YES

7. Description of Work Weld Repair of Diaphragm

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

Other ☒ Pressure psi Test Temp. °F

Inservice Leak Test Per ERM 89-1171, Rev. 1

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 Mass General Law, Chapter #146, Sec. 7 and 522 Code of Mass Regulation for Boiler Rules para 4.01 (I) (B)

Applicable Manufacturer's Data Reports to be attached

requires that verified pressure vessel exceeding 30 psig and 250° F, be a stamped vessel. The Board Inspection Code

ANSI/NB-23 also addresses that the repair of this type can be in accordance with an ASME Section XI repair plan.

Therefore, an ASME Section XI repair plan will govern this work.

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 N/A Expiration Date _____

Signed R. Schifano Date 7/13, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11-3-92 to _____, and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MA 1420
Date 7/26/93 National Board, State, Province and Endorsements

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 7/12/93

Sheet 1 of 1

Unit #1

Various

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Main Steam

5. (a) Applicable Construction Code B31.1 19 67 Edition, ✓ Addenda, ✓ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-1-10-12	BP/AD	0203	--	MR19104819	91/92	Repaired	NO
**SS-1-10-11	BP/AD	ADH-1001-1650		MR19202235	91/92	Replacement	NO

* = Replaced spherical bearing on pipe clamp end visual I.A.W. #3.M.4-28.

7. Description of Work ** = Remove and replace snubber. Test per #3.M.4-28.

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

Other ☒ Pressure _____ psi Test Temp. _____ °F

Snubber Test Procedure 3.M.4-28.

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 * = Spherical bearing placed I.A.W. BECo Procedure.

Applicable Manufacturer's Data Reports to be attached

** = Snubbers were rebuilt I.A.W. BECo Procedures. P.Q.E. certified applicable replacement parts for snubbers.

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: _____ N/A _____ Expiration Date _____

Signed [Signature] QC Div MGR Date 7/12, 19 93
Owner or Owner's Designed, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFU 9 to _____, and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MA 1420
Date 7-26 19 93 National Board, State, Province and Endorsements

* Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 1-6-93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

MR 19103843

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 ASME Sect III, Class 1 19 68 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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	#1207	--	--	88	Replacement	YES

7. Description of Work Replaced RV 203-3D (In-kind). Valve was repaired by replacement of seal ring.

Also replaced bolting.

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

Other ☐ Pressure By Vendor Test Temp. — °F

The safety relief valve set pressures are calibrated when rebuilt by Wyle Labs (or other approved facilities), per Technical Specifications. additional tests are required.

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 The safety relief valve, S/N-1207, was replaced in-kind. Ref. S/S #A33572, MRIR #91-6045
Applicable Manufacturer's Data Reports to be attached
(Rebuilt by an approved facility). The stud/nut materials were replaced, Ref. #90-7243 and Dwgs. #3379-270
and #3379-271.1

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 N/A Expiration Date _____

Signed R. Schenck QC Div. Mgr. Date 7/12, 19 93
 Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — 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 ASME Code, Section XI.

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Inspector's Signature [Signature] Commissions MA 1420
 Date 7-26 19 93 National Board, State, Province and Endorsements

*Arkwright Ins. Co.

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

An Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Name

800 Boylston Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 4-29-93

Sheet 1 of 1

Unit #1

MR 19201584

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III, Class 1 19 68 Edition, ✓ Addenda, ✓ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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	BK-6302 BK-6262	--	--	68	Replacement	YES

7. Description of Work Safety relief valve RV-203-4A is a replacement in kind. Existing SRV is believed to be leaking by valve seat

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

Other ☐ Pressure _____ Test Temp. _____ °F

The safety relief valve set pressure are calibrated every other operating cycle at Wyle Labs for Tech. Spec. No additional testing is required.

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

FORM NIS-2 (Back)

9. Remarks Installed S/N-6302 for RV-203-4A

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 N/A Expiration Date _____

Signed [Signature] QC Div Manager Date 7/13, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 2FO 9 to _____, and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MA 1420
Date 7-26-93 National Board, State, Province and Endorsements

*Arkwright Ins. Co.

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

1. Owner Boston Edison Company Date 1-20-93
 Name
800 Boylston Street, Boston, MA
 Address
 Sheet 1 of 1
2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
Rocky Hill Road, Plymouth, MA
 Address
 MR #19201588
 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 Mainsteam
5. (a) Applicable Construction Code ASME Sect. III, Class 1 19 68 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-203-3B	Target Rock	1048	--	--	--	Replacement	YES
RV-203-3B	Target Rock	13 (Body)	--	--	--	Replacement	YES

7. Description of Work ^(Pilot) Installed Spare MSRV Plot Assembly in RV-203-3B and Repalced Bolting and nuts as required in -service leak test at Flanges and IAW Plant Procedures

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 IWB-5000

Other ☒ Pressure 1100 Test Temp. AMB °F

The safety relief valve set pressure are calibrated by the vendor per Tech Spec's. No additional testing is required.

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 The MSRV pilot assembly was replaced in kind. (Rebuilt by an approved vendor per Tech Specs.) All studs/nuts
Applicable Manufacturer's Data Reports to be attached
meet the requirements of Dwg's #3379-27-1 and #3379-27-3 and all components are documented by appropriate MRIR #.

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 _____ N/A Expiration Date _____

Signed R. S. [Signature] QC Div Mgr Date 7/12, 1993
 Owner or Owner's Designed, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFQ 9 to —, and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MA 1420
 Date 7-26 1993 National Board, State, Province and Endorsements

*Arkwright Ins. Co.

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

1. Owner Boston Edison Company Date 3-31-92
Name
800 Boylston Street, Boston, MA
Address
 2. Plant Pilgrim Nuclear Power Station Sheet 1 of 1
Name
Rocky Hill Road, Plymouth, MA Unit #1
Address
 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
Repair Organization P.O. No., Job No., etc.
 5. (a) Applicable Construction Code ASME III, CL1 19 77 Edition, 80 Addenda, Winter 80 Addenda Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 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)
CRD Mounting Bolts	General Electric	--	--	MR19200866 MR19200867	84	Replacement	NO

7. Description of Work CRD #38-23 & 38-31 Removal and Installation

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

Bolts Torqued 350 Ft. lbs (325-375) Lubricated

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 CRD mounting bolts were purchased per MRIRs 84-643 & 88-7511 thru
Applicable Manufacturer's Data Reports to be attached
General Electric, Co.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date _____

Signed R. Schaefer QC Div M6a Date 7/12/ 19 93
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 Massachusetts and employed by Factory Mutual Systems of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-31-92 to RF09 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 7-26-93 * ARKRIGHT INS. CO.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 6-30-93

Sheet 1 of 1

Unit #1

Various

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RBCCW

5. (a) Applicable Construction Code Section VIII, 86,65 19 80 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-4031	Dresser	---	---	MR 19101271	92	Replacement	YES
PSV-4032	Dresser	---	---	MR 19101270	92	Replacement	YES

7. Description of Work This was a flanged in-kind replacement.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

Performed inservice leak test at flange units with no visible leakage.

Pressure boundary piping not affected; therefore no PSI test was required.

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.

Note: The replacement relief valves were tested and pressure set at the Mfg. Facility. Relief pressure set 150 psig.

FORM NIS-2 (Back)

9. Remarks Completed replacement (in-kind). See MRs for MRIR's and details. New bolting not required.

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 N/A

Expiration Date _____

Signed

R. Schifano
Owner or Owner's Designed, Title

QC

Div 14

Date

7/22

, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

MP 1420

National Board, State, Province and Endorsements

Date

7-27 1993

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 11/21/91

Sheet 1 of 1

Unit #1

MR 19029105

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Salt Service Water

5. (a) Applicable Construction Code B31.1 19 68 Edition, / Addenda, / Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-3880D Valve to Pipe Bolts	--	--	--	--	--	Replaced	NO
29-CK-3880D Valve Disc	Crane Aloyco	--	--	Part No. 167503005	--	Replaced	NO
29-CK-3880D Body Bolting	Crane Aloyco	--	--	--	--	Replaced	NO

7. Description of Work Replace 12" SSW check valve disc with upgraded material (see substitution equivalency evaluation No. 178). Work completed per MR 19029105/MWP 19029105-1.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ NO LEAKAGE NOTED

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 N/A

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 N/A

Expiration Date _____

Signed R. Schaefer QC Dir Mgr
Owner or Owner's Designated, Title

Date 7/92, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11-22-91 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

V. [Signature]
Inspector's Signature

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 1-11-93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

MR 19202802 - 1 thru 5

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 Salt Service Water

5. (a) Applicable Construction Code B31.1 19 67 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
SSW Piping	--	--	--	BECo Spool Pieces #JF-29-16-1, 16-5, 16-7, 16-8 & 17-1	1992	Replaced	NO

7. Description of Work Planned pipe replacements of spools JF-29-16-1, 16-5, 16-7, 16-8 and 17-1, and installed new bolting/nuts
Shop Hydro prior to rubber lining (1.5 x design pressure) 150 psig.

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

Other ☒ Pressure 150/100 psi Test Temp. — °F

*In-service leak 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 All piping materials were fabricated from "Q" material piping I.A.W. BECo Pipe Spec. M-300.

Applicable Manufacturer's Data Reports to be attached

Also, all testing was I.A.W. ANSI B31.1, 1980, W80. Installed new bolting/nuts per BECo Spec M-300 and appropriate

MRIR's.

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 N/A Expiration Date _____

Signed R. Schifano QC Div Mgr Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

N. Ryan
Inspector's Signature

Commissions MA 1420
National Board, State, Province and Endorsements

Date 7-27-1993

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 6/30/93

Sheet 1 of 2

Unit #1

Various

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Salt Service Water

5. (a) Applicable Construction Code B31.1 19 67/80 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
	SEE ATTACHED						

7. Description of Work SSW Spool Replacement

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

*Other ☒ Pressure 150 psi Test Temp. AMB °F

*In service leak test performed per PNPS 15.3.

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 Fabrication/installation of the SSW piping spools and fittings were purchased 'Q' per

Applicable Manufacturer's Data Reports to be attached

MRIR # 80-293, 80-056, 91-5433, 91-4209 & 92-3582. Required certification and testing are

documented by the manufacturer.

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 N/A

Expiration Date _____

Signed [Signature] QC Div Mgr
Owner or Owner's Designed, Title

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period REF 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27-93

• Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 1-15-93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

MR 19201591

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 ASME III, Class 1 19 68 Edition, Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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	1046	--	--	--	Replacement	YES

7. Description of Work Installed spare MSRV Pilot Assembly in the RV-203-3C and replaced bolting.

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

Other ☒ Pressure 1100 psi Test Temp. AMB °F

Inservice leak test at flanged area in accordance with plant procedure. The safety relief valve set pressures were calibrated by the vendor, per Technical Specifications. No additional testing was required.

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 The MSRV Pilot Assembly was replaced in kind. (Rebuilt by an approved vendor per Tech Specifications).

Applicable Manufacturer's Data Reports to be attached

All studs/nuts met the requirements of Dwg #3379-27-3, Sec 6-28-93 and #3379-27-1 and all components

were documented by appropriate MRIR's.

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 N/A Expiration Date _____

Signed [Signature] Date 7/22, 19 93
Owner or Owner's Designed, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period REQ 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1420
National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 4/24/93

Sheet 1 of 2

Unit #1

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Salt Service Water

5. (a) Applicable Construction Code B31.1 19 87 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 Winter 86 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)
SEE ATTACHED SUPPLEMENT SHEET							

7. Description of Work Replaced nuts & bolts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test, no visible leak.

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.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks I.A.W. BECo Spec. M-300.

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 N/A Expiration Date _____

Signed R. Schifone QC Division Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to _____ 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 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 or any kind arising from or connected with this inspection.

V. Harb
Inspector's Signature

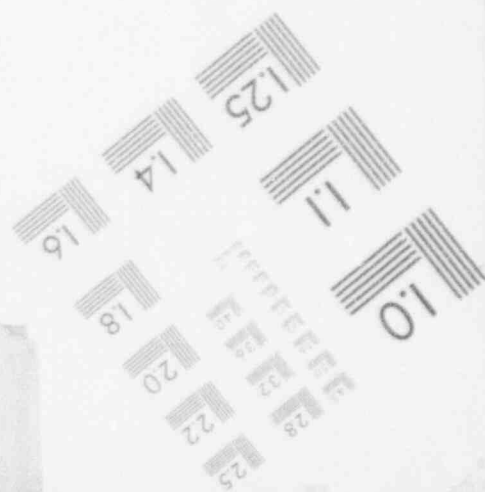
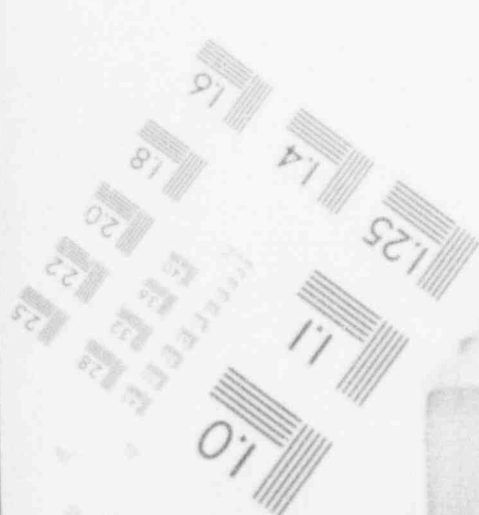
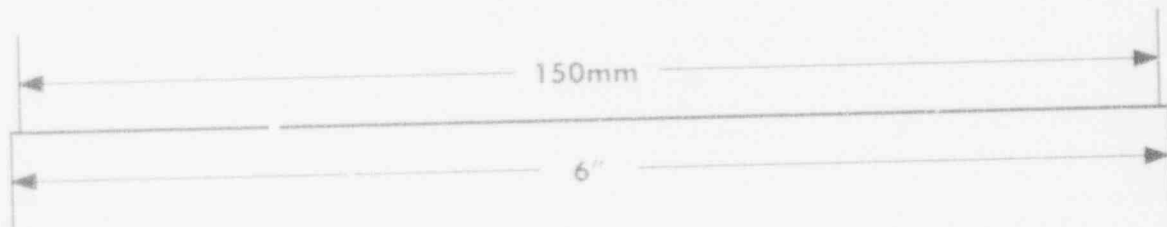
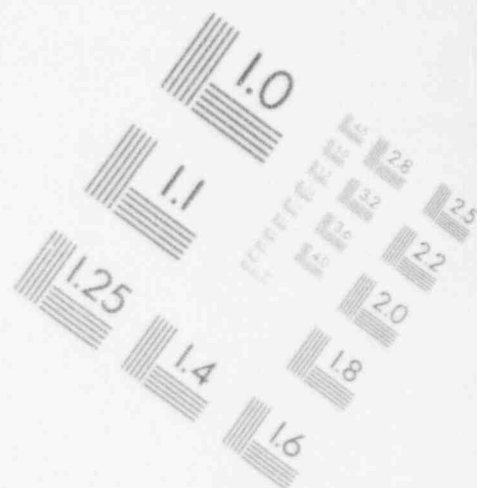
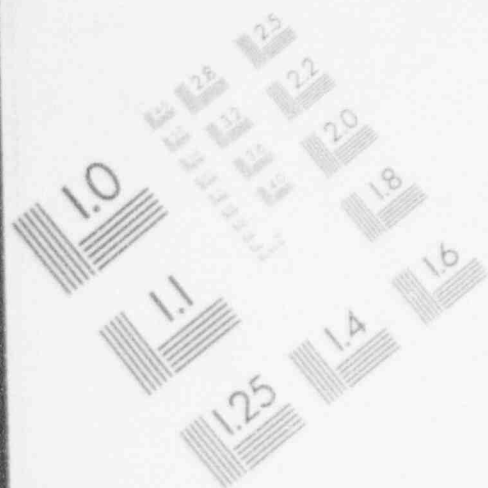
Commissions MA 1420
National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

1

IMAGE EVALUATION
TEST TARGET (MT-3)



1

IMAGE EVALUATION
TEST TARGET (MT-3)

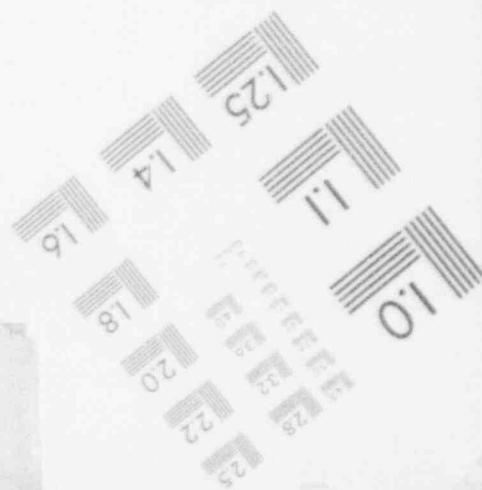
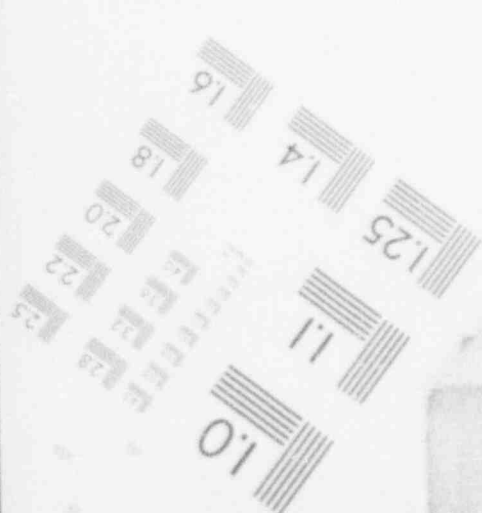
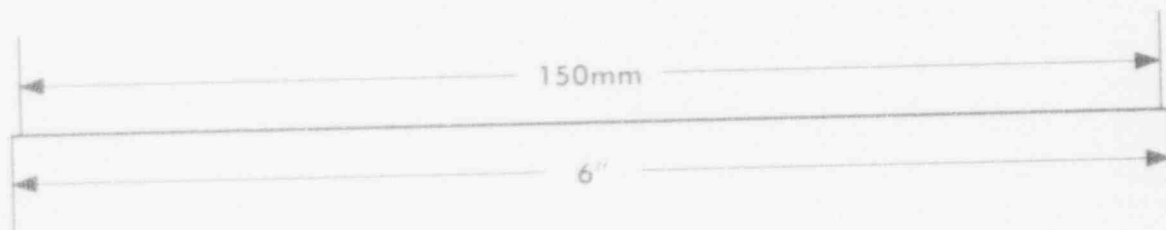
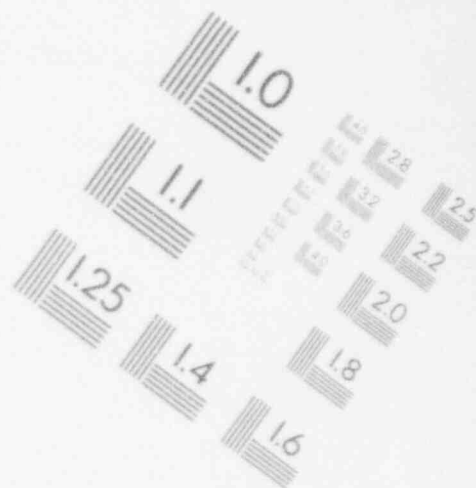
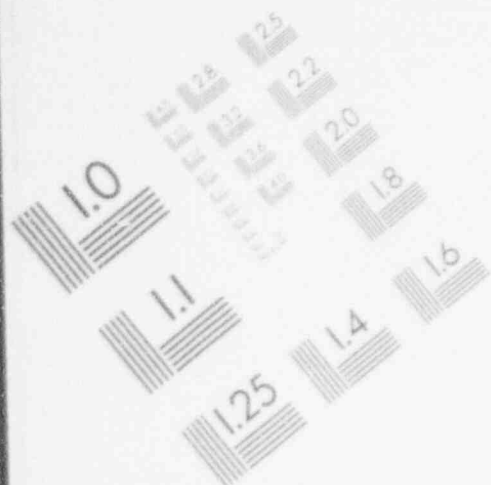
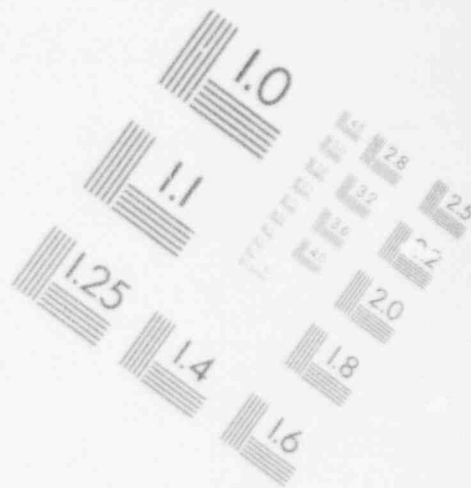


IMAGE EVALUATION
TEST TARGET (MT-3)



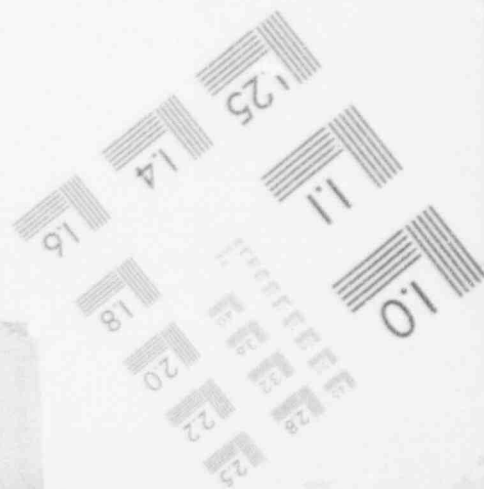
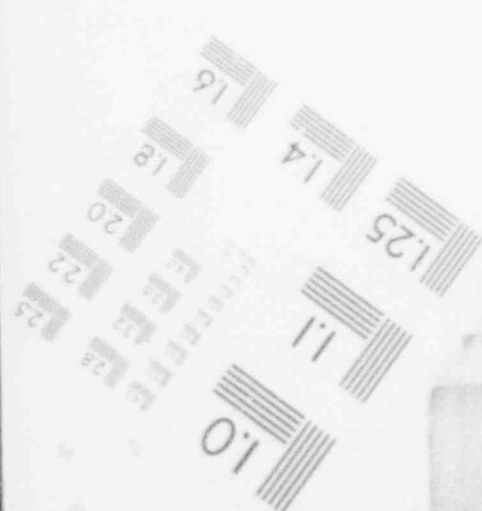
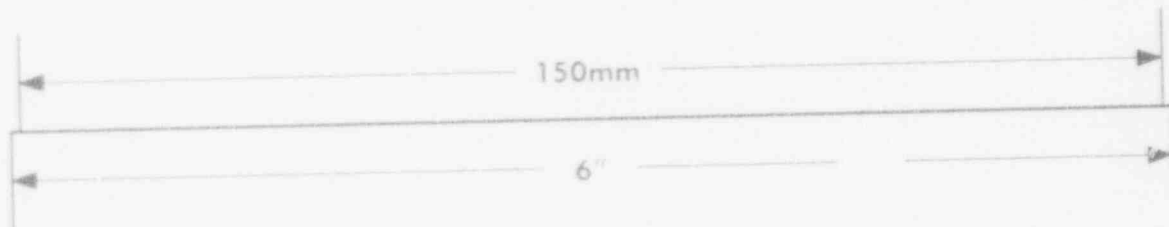
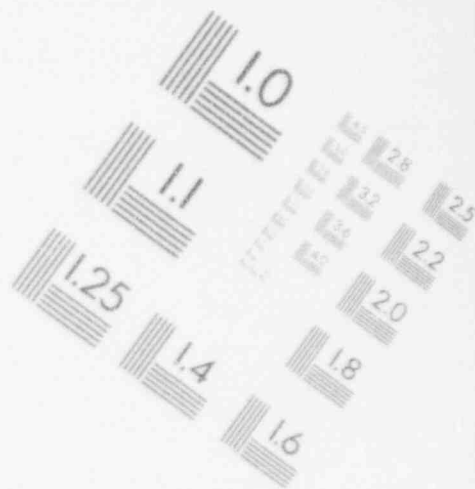
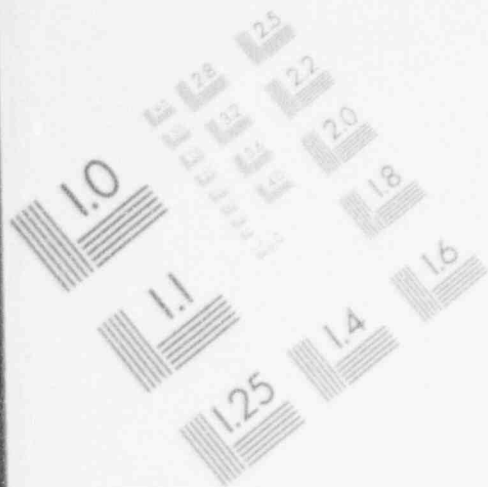
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IMAGE EVALUATION
TEST TARGET (MT-3)



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)
SSW Bolting	Cardinal	MRIR 92-5461	--	SA 193,B7 1 1/8" - 8 x 5 1/2"	92	Replacement	NO
SSW Bolting	Nova	MRIR 92-5186	--	SA 194 GR2H 1 1/8" Nut	92	Replacement	NO
SSW Bolting	Nova	MRIR 92-5563	--	7/8" Sq. Head Bolts	91	Replacement	NO
SSW BOLTING	Cardinal	MRIR 92-3130	--	7/8" Heavy Hx. Huts	91	Replacement	NO

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 or Replaced	ASME CODE Stamped (Yes or NO)
JF-29-1-6 JF-29-1-5	--	--	--	MR 19202801	93	Replacement	NO
JF-29-9-9 JF-29-3-5	-- --	-- --	-- --	MR 19300655 MR 19202803	93	Replacement	NO
JF-29-4-1 JF-29-1-12	--	--	--	MR 19202803	93	Replacement	NO
JF-29-1-1 JF-29-4-3	-- --	-- --	-- --	MR 19202803 MR 19200470	93	Replacement	NO
JF-29-4-2 JF-29-15-4	--	--	--	MR 19200470 MR 19200471	93	Replacement	NO
JF-29-15-5 JF-29-15-10	--	--	--	MR 19200471	93	Replacement	NO
JF-29-15-7 JF-29-4-6	-- --	-- --	-- --	MR 19200471 MR 19200470	93	Replacement	NO
JF-29-4-7 JF-29-10-8	--	--	--	MR 19200470 MR 19202949	93	Replacement	NO
JF-29-10-2 JF-29-4-4	--	--	--	MR 19200470	93	Replacement	NO
JF-29-4-5 JF-29-15-1	-- --	-- --	-- --	MR 19200470 MR 19200471	93	Replacement	NO
JF-29-15-3 JF-29-15-2	--	--	--	MR 19200471	93	Replacement	NO
BOLT A307	CARDINAL 1 1/8" x 5 3/4"-7	--	--	MR 19202801	93	Replacement	NO
NUTS 2H	CARDINAL 1 1/8"-7	-- --	-- --	MR 19202801	93	Replacement	NO
Titanium Studs Nuts/Bolts	--	--	--	MR 19202803 MRIR 92-5544	92	Replacement	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 Company Date 1-15-93
 Name
800 Boylston Street, Boston, MA
 Address
 2. Plant Pilgrim Nuclear Power Station Sheet 1 of 1
 Name
Rocky Hill Road, Plymouth, MA Unit #1
 Address
MR 19201592
 Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name
Rocky Hill Road, Plymouth, MA Authorization No. N/A
 Address
 Expiration Date N/A

4. Identification of System Main Steam
 5. (a) Applicable Construction Code ASME III, Class I 19 68 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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	1208	---	---	---	Replacement	YES

7. Description of Work Installed spare MSRV Pilot Assembly in RV-203-3D and replaced bolts/nuts.
Inservice leak test at flanges were I.A.W. Plant Procedures.

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

Other ☒ Pressure 1100 psi Test Temp. AMB °F

The safety relief valve set pressures were calibrated by the vendor per Technical Specifications.

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 The MSRV Pilot Assembly was replaced in-kind. (Rebuilt by an approved vendor per Tech Specifications.

Applicable Manufacturer's Data Reports to be attached

All studs/nuts were I.A.W. Dwg. #3379-27-1-3 and all components were documented by

appropriate MRIR's.)

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 N/A Expiration Date _____

Signed [Signature] QC Dir. Mgr Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFD 9 to _____ and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 142
National Board, State, Province and Endorsements

Date 7-22-93

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 5/10/93

Sheet 1 of 2

Unit #1

MR 19104117/PDC 91-10D

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Salt Service Water Piping System #29

5. (a) Applicable Construction Code ANSI B.31.1 19 89 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
SEE ATTACHED MATERIAL SUPPLEMENTAL SHEET							

7. Description of Work S.S.W piping system - replacement/upgrade per PDC 91-10D

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

Other ☒ Pressure 150 ^(A) 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.

12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

* NOTE: A. Both A Shop & Field Hydro were performed on all Titanium Spools listed on NIS-2 Material Supplemental Sheet.

** B. Field Hydro & Leak-check performed at 100 psi and held for 10 minutes.

FORM NIS-2 (Back)

9. Remarks All material listed on NIS-2 Material Supplemental Sheet were purchased and installed

Applicable Manufacturer's Data Reports to be attached

to BECo Piping Specification M-300 and conform to the applicable MRIR #'s listed.

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 N/A Expiration Date _____

Signed [Signature] OC De Men Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1420
National Board, State, Province and Endorsements

Date 7-27 19 93

*Arkwright Ins. Co.

NIS-2 MATERIAL SUPPLEMENTAL SHEET
PDC 91-10D

ITEM	MRIR#	YEAR BUILT	REPAIR REPLACEMENT	OTHER I.D.# OR DESCRIPTION
1. Titanium Studs 1 1/4 x 8 x 7" Lg.	92-5544	1992	Replacement	BECO Code 470754
2. Titanium Nuts 1 1/4 x 8 Tit. Gr.2	92-5544	1992	Replacement	BECO Code 470754
3. 22" Titanium Pipe Spools	92-9617	1992	Replacement	JH29-1-3 A & B
	92-9617	1992	Replacement	JH29-1-4 A & B
	92-9617	1992	Replacement	JH29-1-5 A & B
	92-9617	1992	Replacement	JH29-1-6 A & B
	92-9617	1992	Replacement	JH29-1-8 A & B
	92-9617	1992	Replacement	JH29-1-9 A & B
	92-9617	1992	Replacement	JH29-1-10A & B
	92-9617	1992	Replacement	JH29-4-3 A & B
	92-9621	1992	Replacement	JH29-2-3 A & B
	92-9618	1992	Replacement	JH29-2-4 A & B
	92-9618	1992	Replacement	JH29-2-5 A & B
	92-9618	1992	Replacement	JH29-2-6 A & B
	92-9618	1992	Replacement	JH29-2-7 A & B
	92-9618	1992	Replacement	JH29-2-8 A & B
	92-9618	1992	Replacement	JH29-2-9 A & B
	92-9617	1992	Replacement	JH29-3-3 A & B
	92-9617	1992	Replacement	JH29-3-4 A & B
4. #6 Reinforcing Steel	93-0688	1993	New	BECO Code 485909
5. #7 Reinforcing Steel	93-0688	1993	New	BECO Code 485907
6. #9 Reinforcing Steel	93-0688	1993	New	BECO Code 485906

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 5-8-93

Sheet 1 of 1

Unit #1

MR 19301758

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Salt Service Water

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
S.S.W. SPOOL PIECES (MO-3801)	--	--	--	JF-29-6-5 JF-29-3-1 MO-3801	69	Repaired	NO

7. Description of Work Repair by welding, spool pieces JF-29-6-5, JF-29-3-1 and interface tie-ins to valve MO-3801.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak test per FRN 93-0349.

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 The most probable cause of pipe wear is MO-3801 was in a 90% closed position for the last operating
Applicable Manufacturer's Data Reports to be attached
operating cycle which resulted in higher than expected wear (ID of pipe). All work was completed I.A.W.
ASME Section XI requirements.

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 N/A Expiration Date _____

Signed R. Schifano Owner Date 7/22, 1993
 Owner or Owner's Designed, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period REC 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

N. Ryan
 Inspector's Signature

Commissions MA 1420
 National Board, State, Province and Endorsements

Date 7-27-1993

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 7/14/93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

MR 19102279

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 Salt Service Water

5. (a) Applicable Construction Code B31.1 19 67 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
SSW Butterfly Valve	Pratt	Monoflange II, C.S.	--	#994 M-300 29-HO-3823	92	Replaced	NO
1 1/8"-7 x 5 3/4" Bolt & Nut	Various	Various	--	S/S #496048 S/S #496046	92	Replacement	NO

7. Description of Work Total valve replacement

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

Other ☐ Pressure 35 psi Test Temp. 75 °F

* Shop hydroed by Mfg. at 450 psig per original design.

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 _____

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 N/A

Expiration Date _____

Signed [Signature]
Owner or Owner's Designed, Title

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 11/17/92

Sheet 1 of 2

Unit #1

VARIOUS

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Salt Service Water Piping (#29)

5. (a) Applicable Construction Code Titanium B31.1 1989 Edition, Addenda, "B" Code Case

Applicable Construction Code Carbon B31.1 1980 Edition, Addenda, " " Code Case

(b) Applicable Edition, 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)
SEE ATTACHED SUPPLEMENT SHEET							

7. Description of Work Salt Service Water System Enhancement Program per PDC 91-10C.

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

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

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 N/A

Expiration Date _____

Signed [Signature] QC Div Man
Owner or Owner's Designed, Title

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RF09 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-22-1993

• Arkwright Ins. Co.

NIS-2 REPORT SUPPLEMENT SHEET

	PART REPLACED	MATERIAL USED	MRIR #	TESTING PERFORMED
1	Spool #JF-29-9-9	2-22" slip on flanges Approx 4 ft. of 22" pipe	91-4226 91-4209	Hydro @ 150 lbs. Spark test on rubber lining
2	Spool #JF-29-15-6	2-22" slip on flanges Aprox. 6 ft. of 22" pipe	91-4276 91-4209	Hydro @ 150 lbs. Spark test on rubber lining
3	Spool #JF-29-10-1	2-22" slip on flanges Approx. 4 ft. of 22" pipe	87-3545 91-4209	Hydro @ 150 lbs. Spark test on rubber lining
4	Spool #JH-29-2-11	1-22" titanium spool 1-22" insulator kit 1 Holtz spanflex Expansion joint	92-5544 92-1692A 92-5540	Hydro @ 150 lbs. Acceptance per CGI 615 Hydro @ 150 lbs.
5	Spool #JH-29-2-1	Same as 4	Same as 4	Same as 4
6	Spool #JH-29-3-1	Same as #4	Same as 4	Same as 4

Note: 1) Items 1, 2 & 3 are carbon steel spool, fabricated under MR 19201127 and were installed in conjunction with MR 19104330 PDC 91-10C.

2) All carbon steel bolts were replaced with 6" x 1 1/4" ASTM 307 BECo Stock Symbol #520242, MRIR # 92-5258.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company Date 2-10-93
 Name
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
Rocky Hill Road, Plymouth, MA MR 19201274
 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 R31.1 19 67 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
S.S.W. Pump P-208B	Goulds Pump	--	--	--	68	Rebuilt	NO

7. Description of Work Rebuilt SSW Pump (P-208B)
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure _____ psi Test Temp. _____ °F
 Perform satisfactory pump operation I.A.W. IST Program.

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 SSW Pump (P-208B) was rebuilt I.A.W. Plant Procedures. All parts used to rebuild the pump
Applicable Manufacturer's Data Reports to be attached
were approved by P.Q.E. The pump was satisfactory tested I.A.W. Station Procedures.

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 N/A Expiration Date _____

Signed R. Schickel QC Div Mgr Date 7/22, 19 93
 Owner or Owner's Designated, Title

CERTIFICATE OF IN-SERVICE 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RF09 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

V. R. York
 Inspector's Signature

Commissions MA 1420
 National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company Date 4-19-93
 Name
800 Boylston Street, Boston, MA
 Address
 Sheet 1 of 1
2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
Rocky Hill Road, Plymouth, MA
 Address
MR 19300989
 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 Salt Service Water
5. (a) Applicable Construction Code B31.1 19 67 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
Valve MO-3808	Pratt	--	--	--	62	Repair	NO

7. Description of Work Inspected valve and replaced boundary bolting/nuts.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice Leak Test, no visible leakage.
 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 Replaced bolting S/S 520244, Nuts S/S 524572, Q, Safety Related. I.A.W. Dwg. #M100-7259 and

Applicable Manufacturer's Data Reports to be attached

BEC Co Spec. #M-300

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 N/A

Expiration Date

Signed R Schifano GC Du Men
Owner or Owner's Designed, Title

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to - and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions MA 1422

National Board, State, Province and Endorsements

Date 7-27 19 93

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 7/13/93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 2

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

Various

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 Salt Service Water

5. (a) Applicable Construction Code R31.1 19 67, 89 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
SEE ATTACHED SUPPLEMENT SHEET							

7. Description of Work Pipe support repair, replacement and installation.

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

Other ☒ Pressure psi Test Temp. °F

VT-3 Inspections performed I.A.W. QCI #50.81.

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 All fabrication performed I.A.W. PDC 91-10E, ANSI B.31.3.

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 N/A Expiration Date _____

Signed [Signature] Date 1/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1430
National Board, State, Province and Endorsements

Date 7-27-1993

*Arkwright Ins. Co.

SUPPLEMENT SHEET

Name of Component <i>ppg-support</i>	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or NO)
H-29-1-45 H-29-1-54	--	--	--	MR 19201550	93	NEW	NO
H-29-1-47 H-29-1-49	--	--	--	MR 19201550	93	NEW	NO
H-29-1-51 H-29-1-53	--	--	--	MR 19201550	93	NEW	NO
H-29-1-46 H-29-1-48	--	--	--	MR 19201550	93	NEW	NO
H-29-1-50 H-29-1-52	--	--	--	MR 19201550	93	NEW	NO
H-29-1-12SG	--	--	--	MR 19200471	81	REPAIR	NO
H-29-1-1064	--	--	--	MR 19200471	92	REPLACED	NO
H-29-1-22	--	--	--	MR 19200471	--	REPAIR	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 Company

Name

800 Boylston Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 5/7/93

Sheet 1 of 3

Unit #1

MR 19201550/PDC 91-10E

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Salt Service Water System #29

5. (a) Applicable Construction Code ANSI B31.1 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)
SEE ATTACHED MATERIAL SUPPLEMENTAL SHEET							

7. Description of Work S.S.W. System Enhancement Program per PDC 91-10E.

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

Other ☒** Pressure 150 psi Test Temp. AMB °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.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

*Note: 1. Shop Hydro

** 2. In Service Leak Check

FORM NIS-2 (Back)

9. Remarks All material purchased in accordance with Boston Edison Specification M-300 and all

Applicable Manufacturer's Data Reports to be attached

MRIR numbers listed on NIS-2 Material Supplemental Sheet.

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 N/A

Expiration Date _____

Signed R. Schifano

Owner or Owner's Designated, Title

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period DEC 9 to _____ and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27 1993

*Arkwright Ins. Co.

NIS-2 MATERIAL SUPPLEMENTAL SHEET

Materials List for MR 19201550/PDC 91-10E

ITEM	MRIR	YEAR BUILT	REPAIR REPLACEMENT	OTHER I.D. # OR DESCRIPTION
1. 3-Holtz Spanflex Expansion Joint Model 320/2/533 22"	92-5540	1992	Repl.	XJ 3860 *
				**
	92-1837	1992	Repl.	XJ 3857 *
				**
	92-5540	1992	Repl.	X 3863 *
				**
2. 2-3/4" Screwed Gate Vlv. Copper Nickel	87-4894	1987	Repl.	**
	87-4894	1987	Repl.	**
3. Hanger Baseplates 3/4" x 4" x 8"	93-9619	1993	New	H-29-1-45
				H-29-1-46
				H-29-1-47
				H-29-1-48
				H-29-1-49
				H-29-1-50
				H-29-1-51
				H-29-1-52
				H-29-1-53
				H-29-1-55
4. Titanium Studs 1 1/4" x 8 x 8' Lg.	92-5544	1992	Repl.	N/A
5. Titanium Nuts 1 1/4" X 8 Gr. 2	92-5544	1992	Repl.	N/A
6. Titanium Flat Washers	92-6900	1992	Repl.	N/A
7. Carbon Steel Hex Bolt 1 1/4" X 8" X 7 UNC A307 Gr. B	92-4676	1992	Repl.	N/A
	92-5258	1992	Repl.	N/A
8. 150 lb. Flat Face Flange 3/4" Copper Nickel	93-9581	1992	Repl.	N/A

ITEM	MRIR	YEAR BUILT	REPAIR REPLACEMENT	OTHER I.D. # OR DESCRIPTION
9. Titanium Pipe Spools* **	92-9618	1992	Repl.	JH-29-1-12
Titanium Pipe Spools* **	92-9618	1992	Repl.	JH-29-4-1
Titanium Pipe Spools* **	93-9611	1993	Repl.	JH-29-1-2
Titanium Pipe Spools* **	93-9543	1992	Repl.	JH-29-2-10
Titanium Pipe Spools* **	92-9621	1992	Repl.	JH-29-2-3
Titanium Pipe Spools* **	92-9621	1992	Repl.	JH-29-1-1

JH-29-1-12, 4-1, 1-2, 2-10, 2-3, 1-1 are all 22" Pipe.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 7/13/93

Sheet 1 of 2

Unit #1

Various

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Salt Service Water

5. (a) Applicable Construction Code B31.1 19 67 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
SEE ATTACHED SUPPLEMENT							

7. Description of Work SSW Valve Replacement

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

Other ☐ Pressure 35 psi Test Temp. 75 °F

Post installation in-service test, no visible leaks.

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 vendor, Pratt, provided a C of C to verify valve body hydrotesting. Also, all replacement

Applicable Manufacturer's Data Reports to be attached

bolting/nuts were I.A.W. BECo Pipe Spec. M-300 and appropriate MRIR #'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 N/A

Expiration Date

Signed

R. Schifone GC Div Mkn
Owner or Owner's Designed, Title

Date

7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature

Commissions MA 1420

National Board, State, Province and Endorsements

Date

7-27 19 93

*Arkwrigh. Ins. Co.

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)
S.S.W. Valve	Pratt	Monoflange II, C/S	--	MR 19202802 HO-3816	92	Replaced	NO
S.S.W. Valve	Pratt	Monoflange II, C/S	--	MR 19202802 HO-3814	92	Replaced	NO
S.S.W. Valve	Pratt	Monoflange II, C/S	- --	MR 19202802 HO-3815	92	Replaced	NO
S.S.W. Valve	Pratt	--	--	MR 19200471 29-HO-3818	68	Replaced	NO
S.S.W. Valve	Pratt	--	--	MR 19200471 29-HO-3814	68	Replaced	NO
S.S.W. Valve	Pratt	Monoflange II, C/S	--	MR 19101530 #994 (29-HO-3839) Per M-300	92	Replaced	NO
S.S.W. Valve	Pratt	MK #994	--	MR 19102080 HO-3881B	92	Replaced	NO
S.S.W. Valve	Pratt	MK #994	--	MR 19103949 HO-3915	92	Replaced	NO
S.S.W. Valve	Pratt	Monoflange II, C/S MK #994	--	MR 19103950 HO-3881A	92	Replaced	NO
S.S.W. Valve	Pratt	MK 994	--	MR 19103028 AO-3925	92	Replaced	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 Company

Name

800 Boylston Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 12-17-92

Sheet 1 of 1

Unit #1

MR 19101279

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Core Spray

5. (a) Applicable Construction Code Section VIII 1986 Edition, — Addenda, 88-129 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-1401-28A	Anderson Greenwood	Model 81P	--	--	91	Replacement	YES

7. Description of Work Replaced PSV-1401-28A with a new Anderson Greenwood Valve. Also, the upstream piping was modified to accommodate for the inlet flange size difference. Also, new bolting was installed.

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

Other ☐ Pressure 550 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.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Note: The replacement valve was tested and pressure set at the Mfg. facility; relief set pressure was 500 psig.

FORM NIS-2 (Back)

9. Remarks Replacement valve was purchased "Q" to ASME Section III, Division 1 Requirement.

Applicable Manufacturer's Data Reports to be attached

Replacement bolting ASTM A193 C-2B7 "Q" and replacement nuts ASTM A194 GR.2H "Q".

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 N/A Expiration Date _____

Signed [Signature] Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RF09 to — and state that to be 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 ASME Code, Section XI.

B. 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA, NY
National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 3-10-93

Sheet 1 of 1

Unit #1

MR 19201757

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Scram Discharge Volume (East & West)

5. (a) Applicable Construction Code B31.1 19 77 Edition, 79 Addenda, ✓ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
S.D.I.V.	Piping Mod's by BECo	--	--	--	93	Addition of Test Connections	NO
						(Modification)	

7. Description of Work Test Connections for S.D.I.V. and Drain Isolation Valves.

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

Other ☐ Pressure 1413 psi Test Temp. AMS °F

Hydrotest per ASME XI, Article IWA 5000/IWC-5000 Acceptance per ASME XI Sub Section IWA 5250.

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 All piping/components addressed in PDC 92-40 were purchased "Q" per appropriate MRIR #'s.

Applicable Manufacturer's Data Reports to be attached

Also, the construction code for S.D.I.V. vents/drains were per ANSI B31.1, 1977 Edition, including

1979 Addenda. This modification was implemented to the same code edition/addenda.

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 N/A

Certificate of Authorization N/A

Expiration Date _____

Signed [Signature]

Owner or Owner's Designated, Title

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RED 9 to _____ and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27-1993

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company Date 7/12/93
 Name
800 Boylston Street, Boston, MA
 Address
 Sheet 1 of 1
2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
Rocky Hill Road, Plymouth, MA
 Address
 Various
 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 B31.1 19 67 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-6-10-1**	BP/AD	ADH-1003-1556	--	MR 19104857	91/92	Repaired	NO
SS-6-10-10*	BP/AD	ADH-1001-1649	--	MR 19202237	91/92	Replacement	NO
SS-6-10-09*	BP/AD	ADH-1001-1643	--	MR 19202234	91/92	Replacement	NO

7. Description of Work Snubber testing per Procedure 3.M.4-28/Repair Replacement per ASME Code.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure psi Test Temp. °F

SNUBBER TEST PROCEDURE 3.M.4-28

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 rebuilt I.A.W. BECo Procedures. Procurement Engineering certified applicable
Applicable Manufacturer's Data Reports to be attached
replacement parts for snubbers. Additional snubbers were tested I.A.W. BECo procedures.

** = Spherical bearing installed I.A.W. BECo procedures.

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 N/A Expiration Date _____

Signed PSolfer QC Div. Man Date 7/22, 19 93
 Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to - and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature

Commissions MA 1420
 National Board, State, Province and Endorsements

Date 7-27 1993

* Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 07/07/93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

Various

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 RHR

5. (a) Applicable Construction Code B31.1 19 80 Edition, Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
13CK-1301-59	Hancock	--	--	MR 19301489	67	Repaired	NO
13CK-1301-47	Hancock	--	--	MR 19301490	67	Repaired	NO

7. Description of Work Replaced Bonnet Cover 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 Replacement bolts were I.A.W. Mfg. requirements, ASTM A193 GR B7, Purchased "Q"

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 N/A Expiration Date _____

Signed R Schifano AC DuMar Date 7/92, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

V. G. [Signature]
Inspector's Signature

Commissions MA 1420
National Board, State, Province and Endorsements

Date 7-27 19 93

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 07/07/93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

Various

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 RHR

5. (a) Applicable Construction Code B31.1 19 67 Edition, - Addenda, - Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-10-20-08	BP/AD	ADH-2001 888	--	MR 19202239	91/92	Replacmeent	NO
SS-10-3-4-3	BP/AD	ADH-303 1482	--	MR 19202238	92/92	Replacement	NO

7. Description of Work Removed and replaced Snubber per Procedure 3.M.4-28.

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

Other ☒ Pressure _____ psi Test Temp. _____ °F

Snubbers are tested I.A.W. BECo Procedure 3.M.4-28.

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 rebuilt I.A.W. BECo procedures. P.Q.E. certified applicable

Applicable Manufacturer's Data Reports to be attached

replacement parts for snubbers.

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 N/A Expiration Date _____

Signed [Signature] Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RF09 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1470
National Board, State, Province and Endorsements

Date 7-27 1993

• Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 10-19-92

Sheet 1 of 1

Unit #1

MR 19202229

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System CRD Vent

5. (a) Applicable Construction Code B31.1 19 67 Edition, Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-3-25-12	BP/AD	1-950-17953	--	--	91/92	Replacement	NO

7. Description of Work Removed and replaced Snubber per Procedure 3.M.4-28.

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

Other ☒ Pressure psi Test Temp. °F

Snubbers are tested I.A.W. Procedure 3.M.4-28.

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 rebuilt I.A.W. BECo Procedures. P.Q.E. certified applicable replacement

Applicable Manufacturer's Data Reports to be attached

parts for snubbers. Additional snubbers were tested I.A.W. BECo procedures.

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 N/A

Expiration Date _____

Signed R. Schifano

Owner or Owner's Designed, Title

QC Div Mgr Date 4/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to _____ and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature V. KAR

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27 19 93

* Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 07/07/93

Sheet 1 of 1

Unit #1

Various

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Recirculation System

5. (a) Applicable Construction Code R31.1 19 87 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-2-20-25	BP/AD	ADH-2001 888	--	MR 19202233	91/92	Replacement	NO
SS-2-30-07	BP/AD	ADH-3003 412	--	MR 19202232	91/92	Replacement	NO

7. Description of Work Removed and replaced snubbers per procedure 3.M.4-28.

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

Other ☒ Pressure _____ psi Test Temp. _____ °F

Snubbers are tested I.A.W. Procedure 3.M.4-28.

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 to be replaced per ASME Code Section XI. P.O.E. certified applicable replacement

Applicable Manufacturer's Data Reports to be attached

parts for snubbers. Additional snubbers were tested I.A.W. BECo procedures.

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 N/A

Expiration Date

Signed [Signature]
Owner or Owner's Designed, Title

CRC Div Mon

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RF09 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27-93

-Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 07/07/93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

Various

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 B31.1 19 67 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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-23-20-37	BP/AD	ADH-2001 888	--	MR 19202231	91/92	Replacement	NO
SS-23-10-39	BP/AD	ADH-1001 1641	--	MR 19202236	91/92	Replacement	NO
SS-23-20-36	BP/AD	--	--	MR 19202230	91/92	Replacement	NO

7. Description of Work Removed and replaced snubber per Procedure 3.M.4-28.

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

Other ☒ Pressure psi Test Temp. °F

Snubbers are tested I.A.W. #3.M.4-28.

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 Snubbers were rebuilt I.A.W. BECo procedures, P.Q.E. certified applicable replacement parts.

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 N/A Expiration Date _____

Signed [Signature] QC Div Mgr Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1420
National Board, State, Province and Endorsements

Date 7-27-1993

• Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company Date 1-15-93
 Name
800 Boylston Street, Boston, MA
 Address
 Sheet 1 of 1
2. Plant Pilgrim Nuclear Power Station Unit #1
 Name
Rocky Hill Road, Plymouth, MA
 Address
MR 19201590
 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 ASME III, Class #1 19 68 Edition, — Addenda, — Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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	1025	---	---	---	Repair	YES

7. Description of Work Removed MSRV Pilot Assembly and shipped to Wyle Lab for Testing.
8. Tests Conducted. Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☒ Pressure 1100 psi Test Temp. AMB °F

The safety relief valve set pressure was calibrated when rebuilt by Wyle Labs per Technical Specifications.
 No additional testing was required.

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 The MSRV Pilot Assembly was rebuilt and tested by Wyle Labs, approved vendor and in

Applicable Manufacturer's Data Reports to be attached

accordance with PNPS Technical Specifications.

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 N/A

Expiration Date _____

Signed [Signature]
Owner or Owner's Designed, Title

Date 7/22, 19 93

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1-15-93 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company

Date 1/29/93

Name

800 Boylston Street, Boston, MA

Address

Sheet 1 of 1

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Address

MR 19201585

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 Section III 19 68 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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	---	---	---	1968	Replacement	YES

7. Description of Work Safety relief valve RV-203-4A was replaced in kind for normal surveillance testing per PNPS Procedure 3.M.4-7.

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

Other ☒ Pressure _____ psi Test Temp. _____ °F

SRV set pressure test and calibration are performed every other operating cycle at Wyle Labs. per Technical Specifications. No additional testing is required.

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 Removed SRV (S/N #6262) and shipped to Wyle Labs for testing/overhaul.

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 N/A Expiration Date _____

Signed [Signature] QC Div 146d Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1420
National Board, State, Province and Endorsements

Date 7-27 19 93

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 4-8-93

Sheet 1 of 1

Unit #1

MR 19300764

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System MO-1306-61 Bonnet Replacement (RCIC)

5. (a) Applicable Construction Code ASME III 19 86 Edition, — Addenda, — Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
Bonnet and Stem	Conval	---	---	---	---	Replacement	NO

7. Description of Work Bonnet and stem replacement per FRN 92-43-06*

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Inservice leak check. No leakage noted.

Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 $\frac{1}{2}$ 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 Work complete bonnet & stem replaced per MR 19300764 and FRN 92-43-06.

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 N/A Expiration Date _____

Signed R. Schifano CRC Div. Mgr. Date 7/22, 19 93
Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period RFO 9 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MTA 1422
National Board, State, Province and Endorsements

Date 7-27-1993

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 10-29-92

Sheet 1 of 1

Unit #1

Mr 19202992

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RBCCW

5. (a) Applicable Construction Code B31.1 19 67 Edition, Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
P-202D U-Bolt	---	---	---	---	---	Replacement	NO

7. Description of Work Replace missing U-Bolt for RBCCW Pump P-202D for Gauge 30R-PI-4006.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No test required.

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 U-bolt replaced. No other work performed.

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 N/A Expiration Date

Signed [Signature] Date 7/22, 19 93
Owner or Owner's Designed, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 10-29-92 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1424
National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Boston Edison Company Date 11-14-92
 Name _____
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address _____
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name _____
Rocky Hill Road, Plymouth, MA MR 19200045
 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, NF 19____ Edition, 1990 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
H14-1-29S	---	---	---	---	---	Repaired	NO

7. Description of Work Repaired support per NCR 92-69 Rework disposition.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No test required.
 Performed VT-3 Inspection (Data Sheet VT-14-92023).
 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 Rework completed per NCR 92-69 disposition. N.E.D. recommended replacement of parts (cotter pin, spherical bushing, belvill washer). See MR 19200045 for MRIRs and details.
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 N/A Expiration Date _____

Signed [Signature] QC Div Mgr Date 7/22, 19 93
 Owner or Owner's Designated, 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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11-14-92 to — 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 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 or any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions MA 1420
 National Board, State, Province and Endorsements

Date 7-27-93

*Arkwright Ins. Co.

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 Street, Boston, MA

Address

2. Plant Pilgrim Nuclear Power Station

Name

Rocky Hill Road, Plymouth, MA

Address

3. Work Performed by Boston Edison Company

Name

Rocky Hill Road, Plymouth, MA

Address

Date 11-12-92

Sheet 1 of 1

Unit #1

MR 19200046

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RHR

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
HH-10-1-102S	---	---	---	---	---	Repaired	NO

7. Description of Work Repaired support per NCR 92-94 rework disposition, per MR 19200046

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No test required.

Performed a VT-3 Visual Inspection (Data Sheet VT-10-92045).

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 Reworked per NCR 92-94 disposition. Work included: rework of welds, bushings & re-snub

Applicable Manufacturer's Data Reports to be attached

of nuts on threaded portion.

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 N/A

Expiration Date _____

Signed [Signature]

Owner or Owner's Designated, Title

Date 7/22, 1993

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 Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11-12-92 to — and state that to be 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 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 or any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions MA 1420

National Board, State, Province and Endorsements

Date 7-27 1993

*Arkwright Ins. Co.

SECTION 3.0

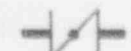
ISI ISOMETRIC DRAWINGS

SYMBOLS

VALVES



GATE/GLOBE



BUTTERFLY

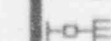


CHECK (FLOW →)

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 #



FIELD WELD



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 (OI) (VLV #)
(MANUAL/MO/CK/SYS #)
HAND OPERATED (HO) (VLV #)
CHECK VALVE (CK) (VLV #)
(SYS #)

SUPPORTS

H - I -
(SYSTEM #) (SUPPORT #)

WELDS (CLASS 2)

SHOP

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

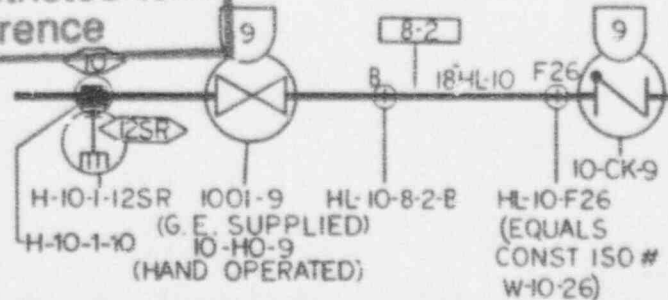
FIELD

(LINE #) (WELD #)

INFORMATION ONLY
Use restricted to reference

PIPE DATA

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



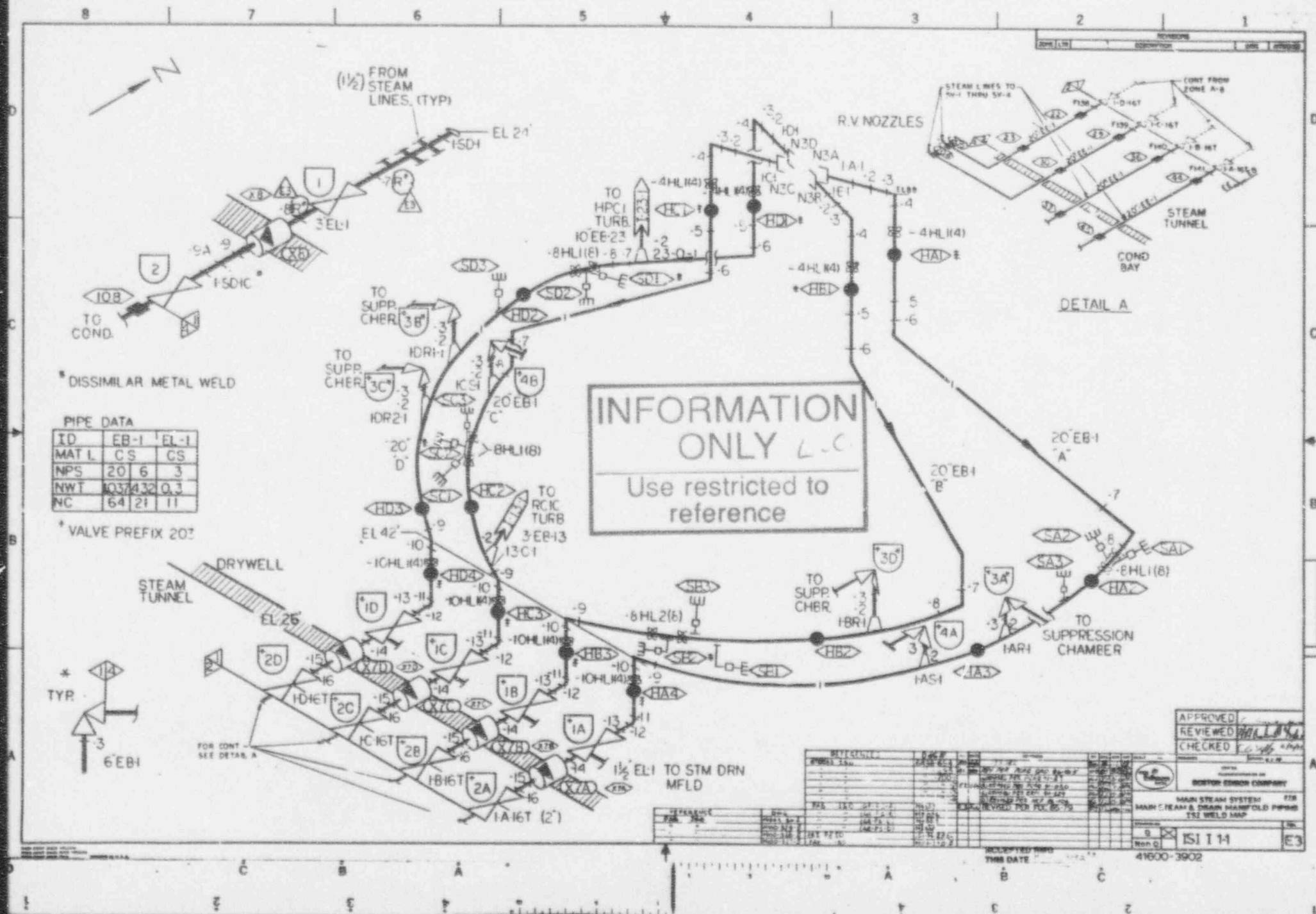
APPROVED	
REVIEWED	
CHECKED	

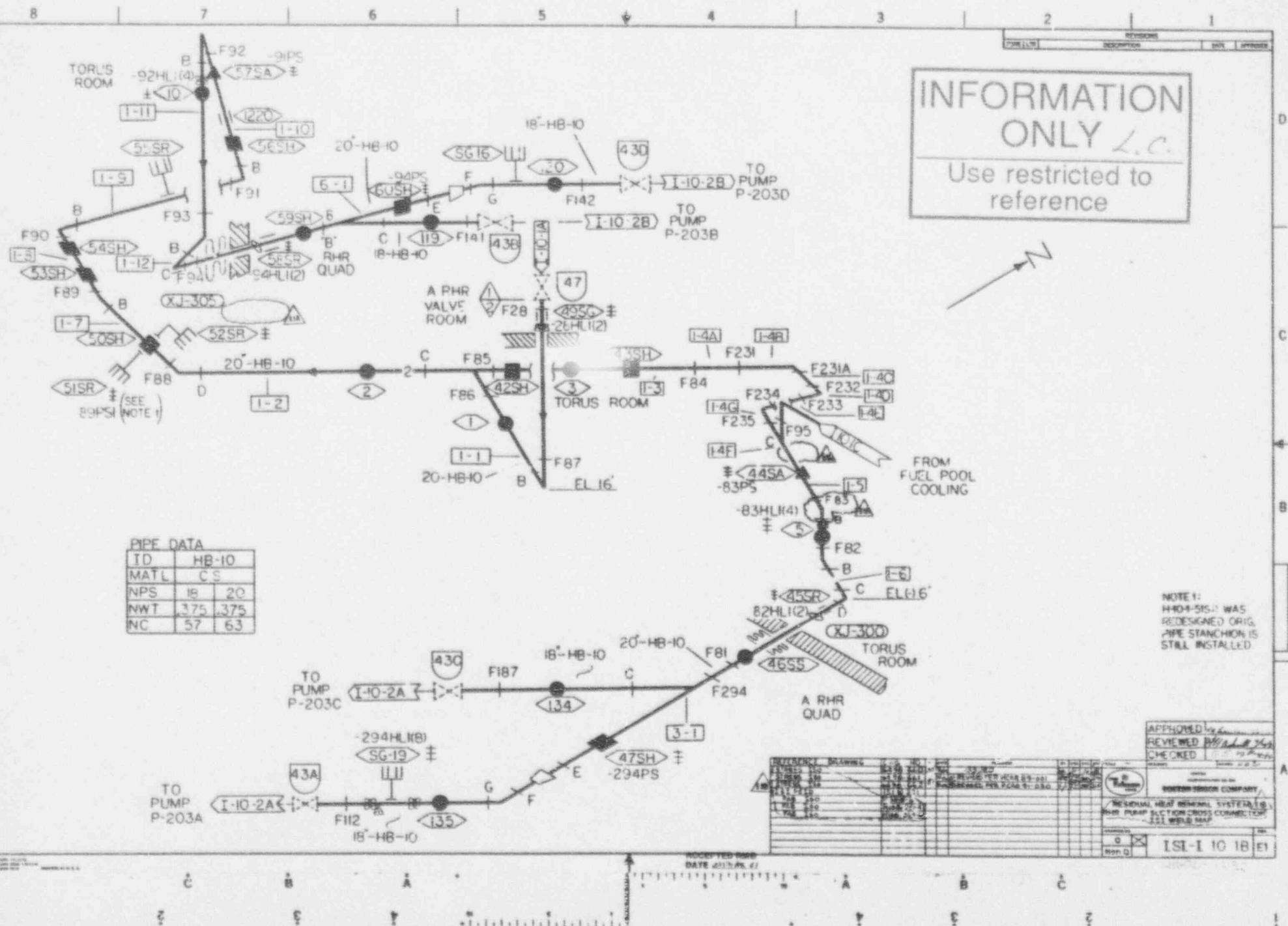
REVISION	DATE	BY	DESCRIPTION
1	1/1/80	ISI	ISSUED FOR P&ID
2	1/1/80	ISI	REVISED PER P&ID
3	1/1/80	ISI	REVISED PER P&ID
4	1/1/80	ISI	REVISED PER P&ID
5	1/1/80	ISI	REVISED PER P&ID
6	1/1/80	ISI	REVISED PER P&ID
7	1/1/80	ISI	REVISED PER P&ID
8	1/1/80	ISI	REVISED PER P&ID
9	1/1/80	ISI	REVISED PER P&ID
10	1/1/80	ISI	REVISED PER P&ID
11	1/1/80	ISI	REVISED PER P&ID
12	1/1/80	ISI	REVISED PER P&ID
13	1/1/80	ISI	REVISED PER P&ID
14	1/1/80	ISI	REVISED PER P&ID
15	1/1/80	ISI	REVISED PER P&ID
16	1/1/80	ISI	REVISED PER P&ID
17	1/1/80	ISI	REVISED PER P&ID
18	1/1/80	ISI	REVISED PER P&ID
19	1/1/80	ISI	REVISED PER P&ID
20	1/1/80	ISI	REVISED PER P&ID

ISOMETRIC LEGEND	ISI I O
IST WELD MAP	E2

ACCEPTED RMD
DATE 1/1/80

#1600-3901





INFORMATION
ONLY L.C.

Use restricted to
reference

PIPE DATA

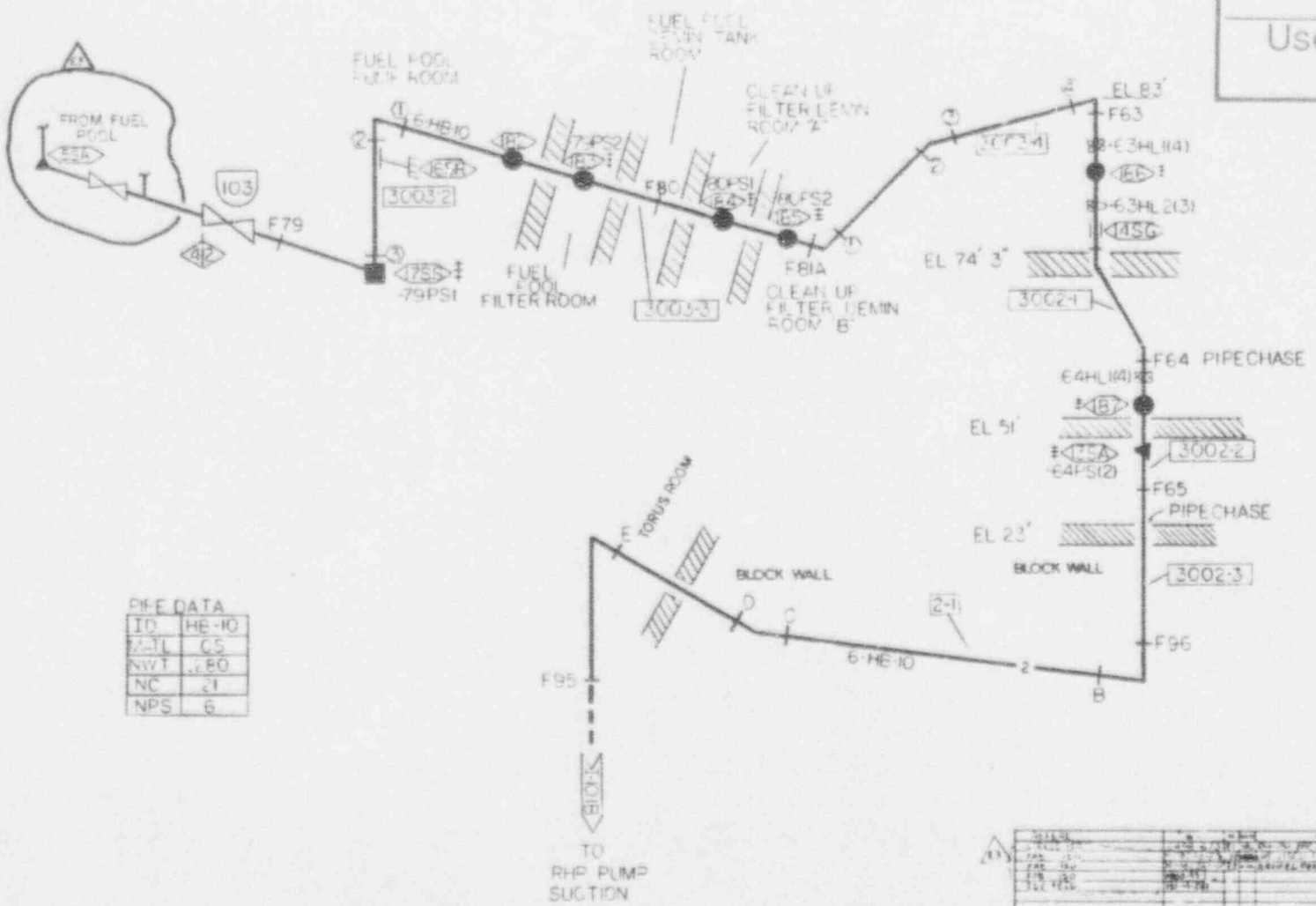
ID	HB-10
MATL	C S
NPS	18 20
NWT	375 375
NC	57 63

NOTE 1:
HRO-4-515" WAS
REDESIGNED ORIG.
PIPE STANCHION IS
STILL INSTALLED

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78
W. J. B. /	10/1/78	W. J. B. /	10/1/78	W. J. B. /	10/1/78

ISL-1 10 18 E1

INFORMATION ONLY L.C.
Use restricted to reference



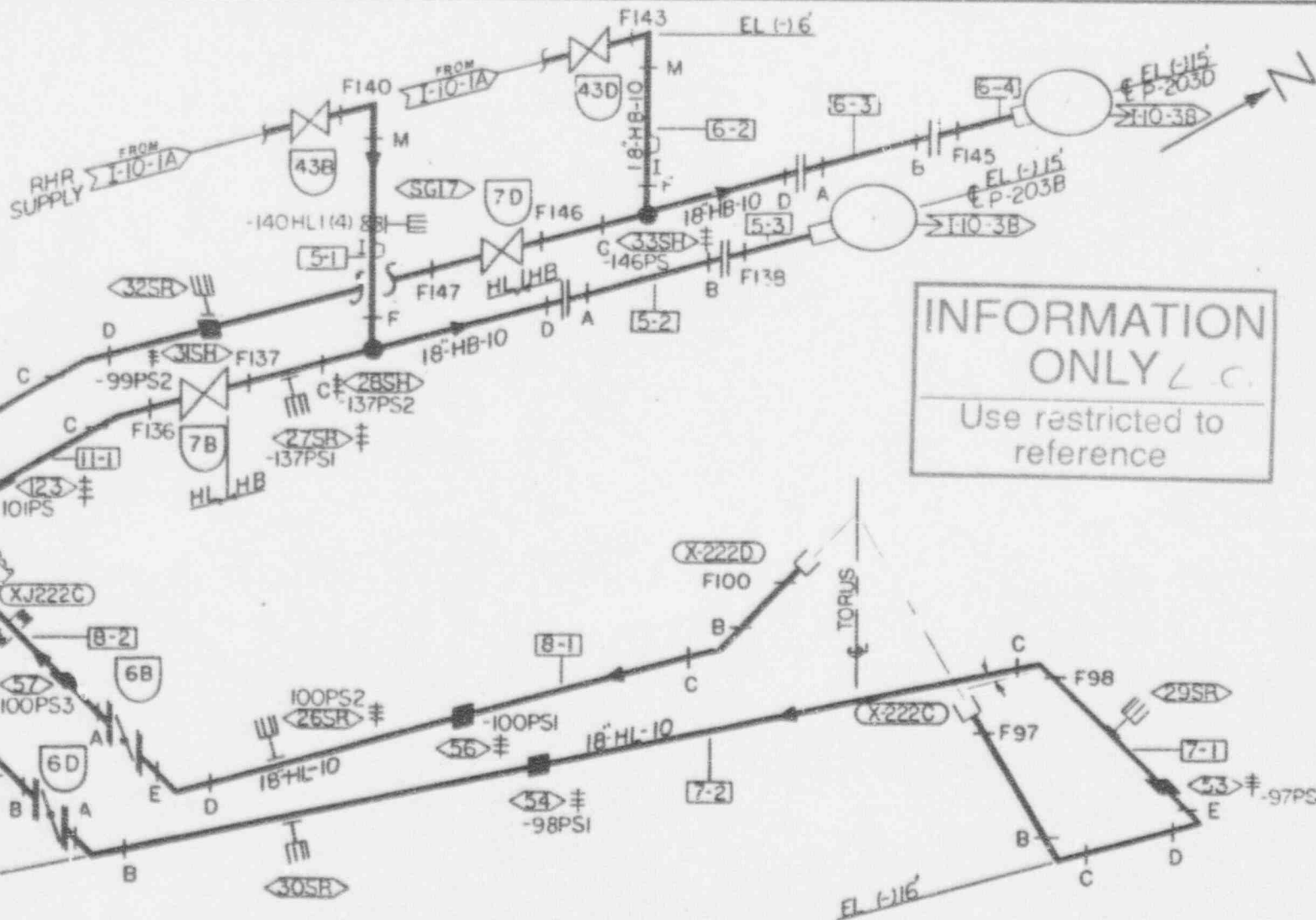
PIPE DATA

ID	HE-10
M-L	C5
NWT	0.80
NC	21
NPS	6

APPROVED	REVIEWED	CHECKED
DATE	DATE	DATE
BOSTON EDISON COMPANY		
FUEL POOL COOLING TO RHP		
SUSPECT RECONNECT SEE WELD MAP		
ISI 110-1C		



주요 연구자: 김민준, 박지현, 이준호, 정지영
연구기관: 서울대학교 경영학과, 연세대학교 경영학과



INFORMATION
ONLY
Use restricted to
reference

PIPE DATA

ID	HB10	HL-10
MATL	CS	
NPS	18	18
NWT	.375	.375
NC	56.5	56.5

ITEM NO	DESCRIPTION	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	1	10/1/80
2	REVISED PER NRC 1-10-80	2	10/1/80
3	REVISED PER NRC 1-10-80	3	10/1/80
4	REVISED PER NRC 1-10-80	4	10/1/80
5	REVISED PER NRC 1-10-80	5	10/1/80
6	REVISED PER NRC 1-10-80	6	10/1/80
7	REVISED PER NRC 1-10-80	7	10/1/80
8	REVISED PER NRC 1-10-80	8	10/1/80
9	REVISED PER NRC 1-10-80	9	10/1/80
10	REVISED PER NRC 1-10-80	10	10/1/80

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

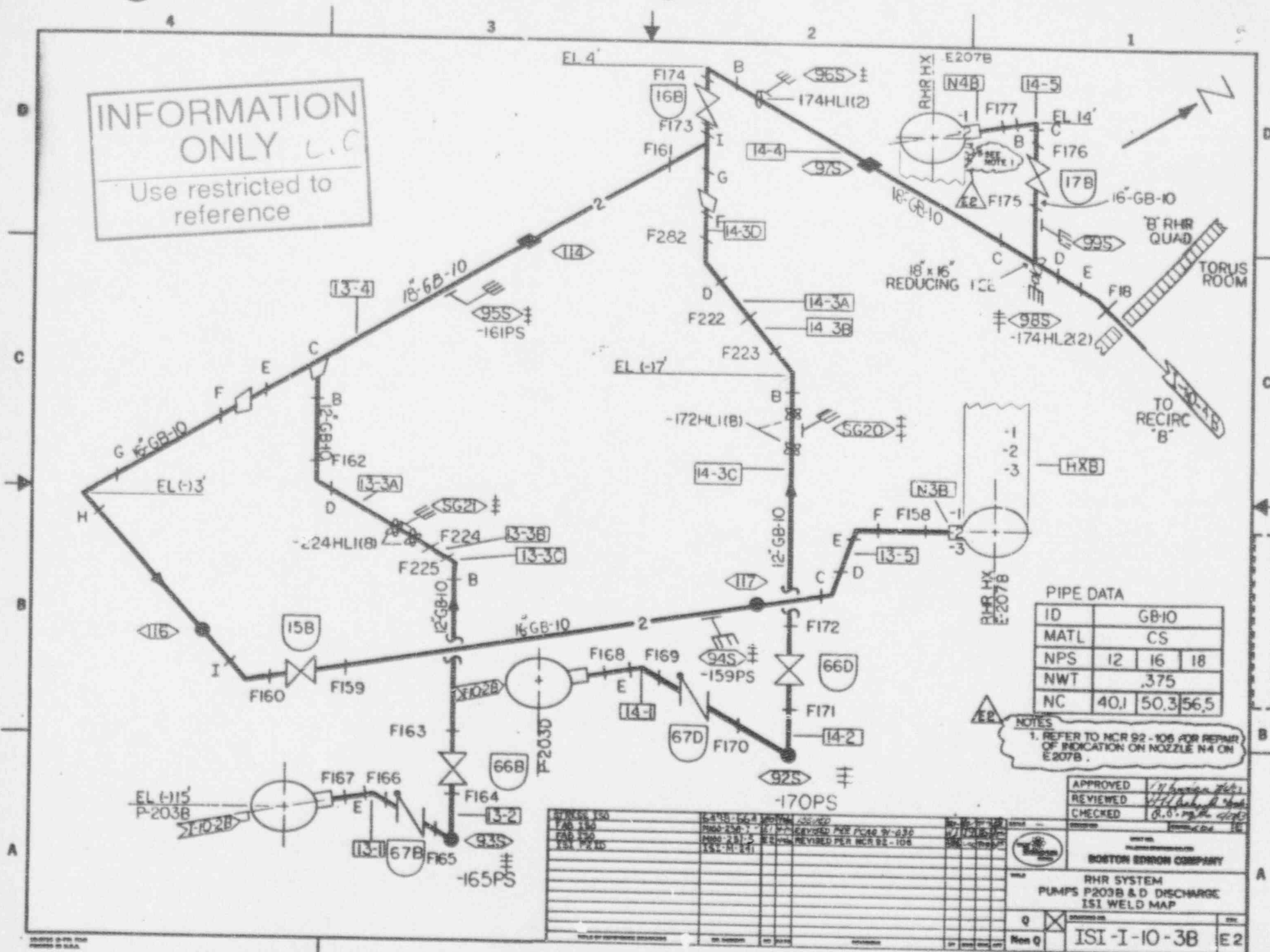
BOSTON Edison COMPANY

RHR SYSTEM
RHR PUMPS P203RED SUCTION
ISI WELD MAP

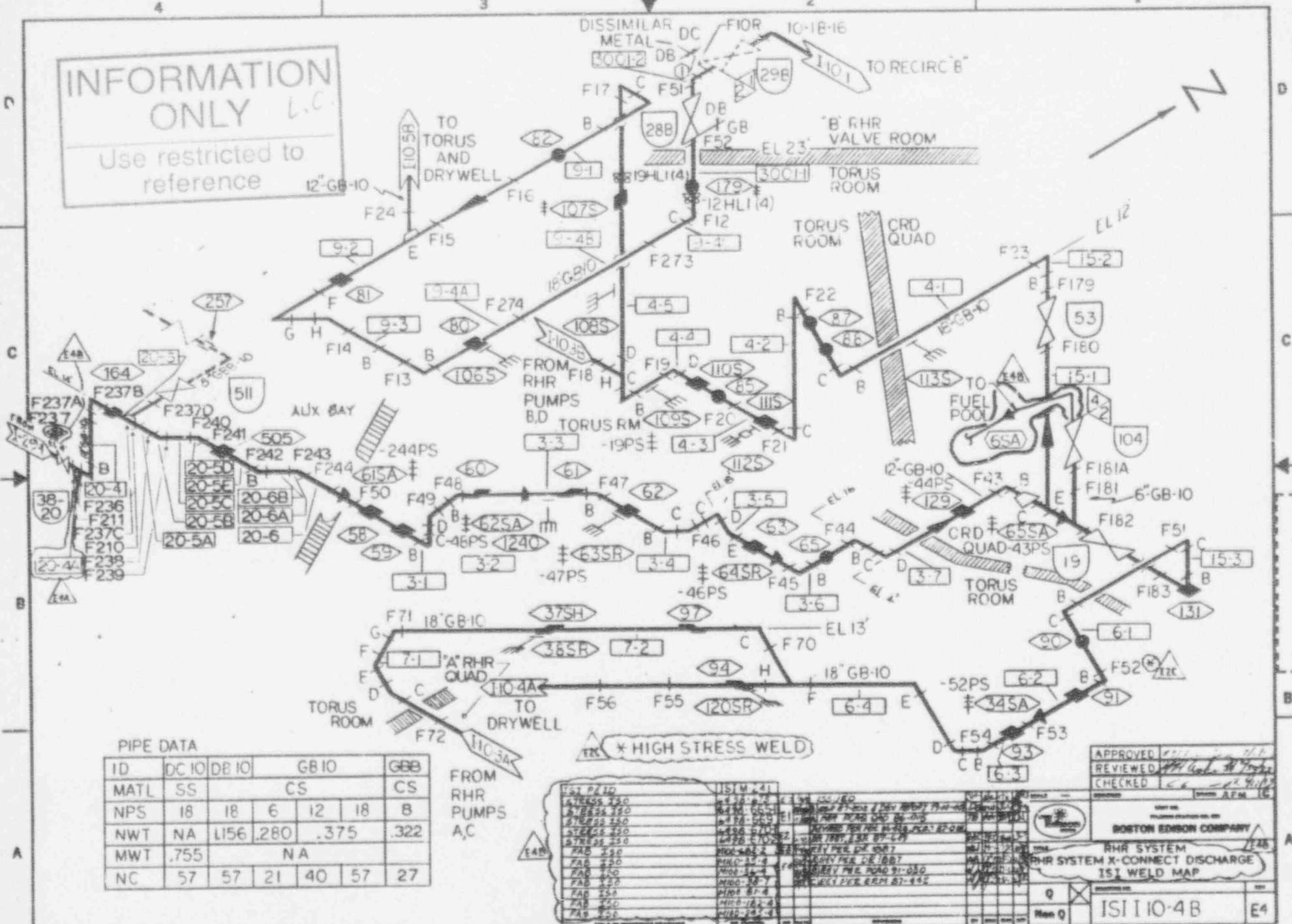
Q	ISI-I-10-2B	EL
---	-------------	----

ACCEPTED RMD

INFORMATION
ONLY L.C.
Use restricted to
reference



Use restricted to
reference



PIPE DATA

ID	DC IO	DB IO	GB IO			GBB
MATL	SS	CS			CS	
NPS	18	18	6	12	18	8
NWT	NA	LI56	.280	.375	.322	
MWT	.755	NA				
NC	57	57	21	40	57	27

FROM
RHR
PUMPS
A.C

* HIGH STRESS WELD

[illegible]

APPROVED	2014-10-16
REVIEWED	2014-10-16
CHECKED	2014-10-16

BOSTON STRINGS COMPANY

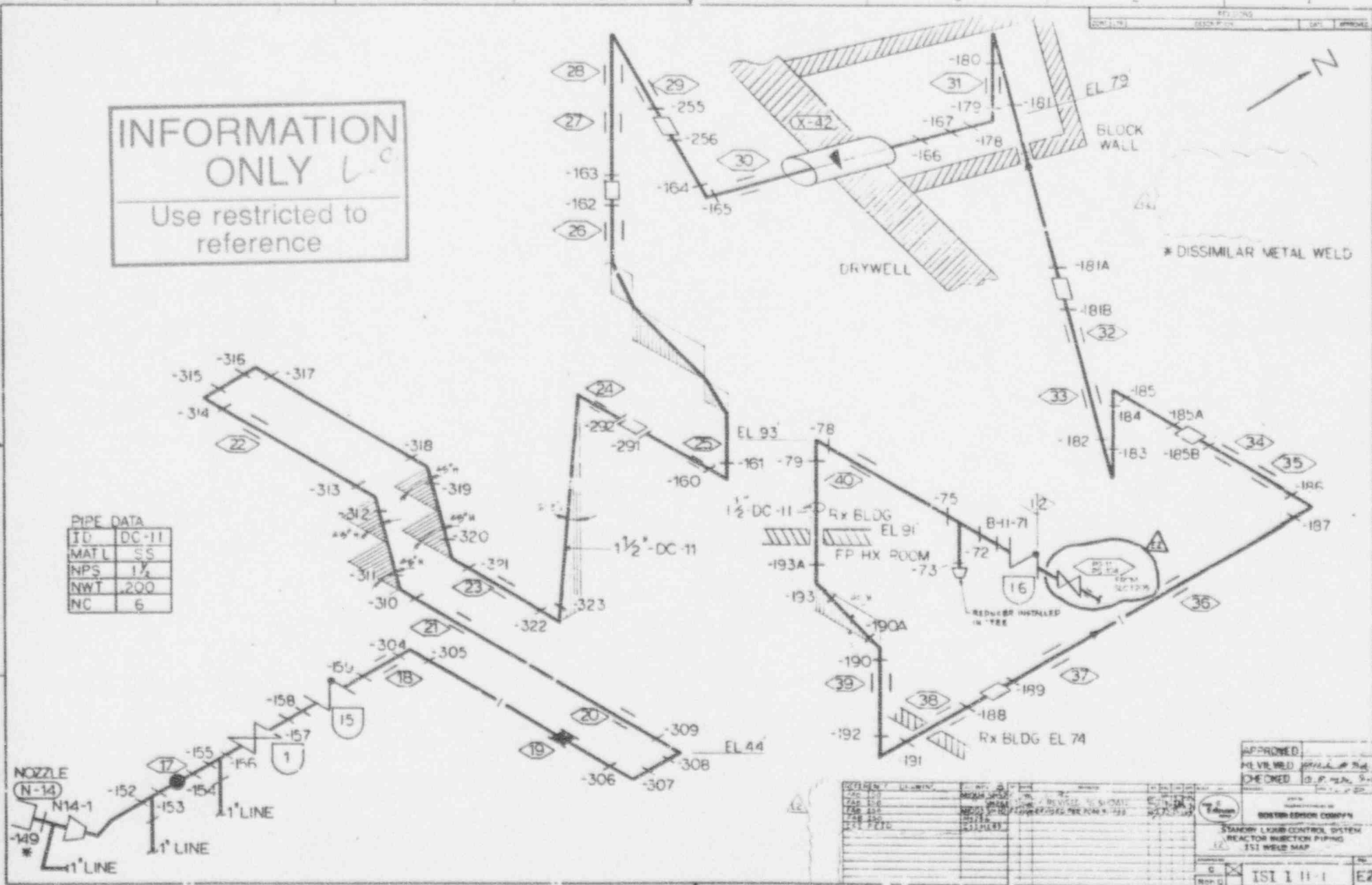
RHR SYSTEM
M X-CONNECT DISCHARGE
ISI WELD MAP

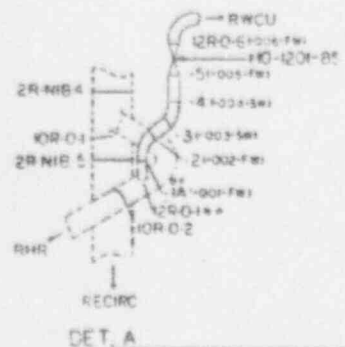
ISI 110-4B

E

Use restricted to
reference

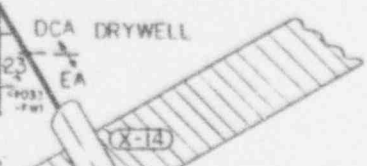
PIPE DATA	
ID	DC-11
MATL	SS
NPS	1 1/2
NWT	.200
NC	6

ACCEPTED MANUSCRIPT
THIS DATE



INFORMATION ONLY L.C.
Use restricted to reference

PDCA# 93-03
PENDING TO DOCUMENT

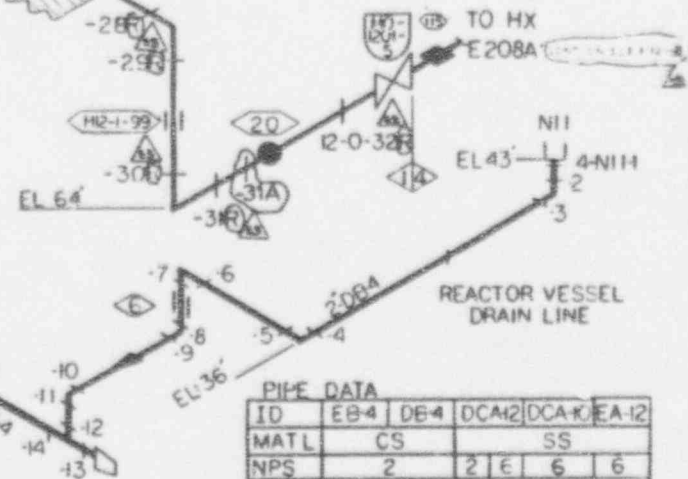
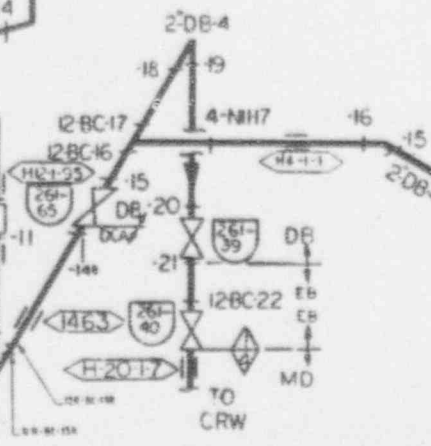
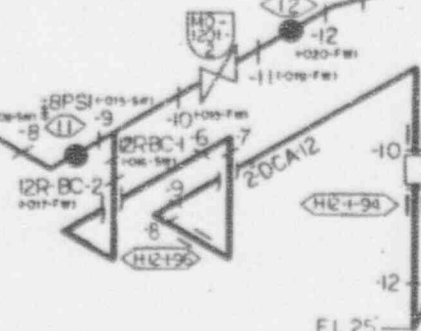
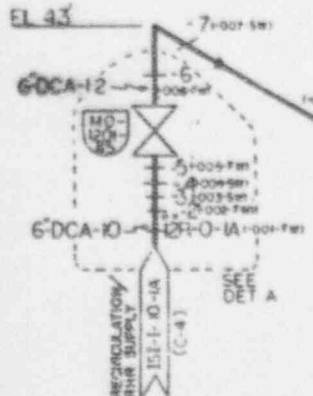


INSIDE BLOCKWALL NO. 113

BLOCK OUT ROOM

RWCU HEAT EXCHANGER ROOM

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



PIPE DATA

ID	EB-4	DE-4	DCA12	DCA10	EA-12
MATL	CS		SS		
NPS	2	2	6	6	6
NWT	3.44	28	MIN 378	A32	
NC	7	6.3	21.2		

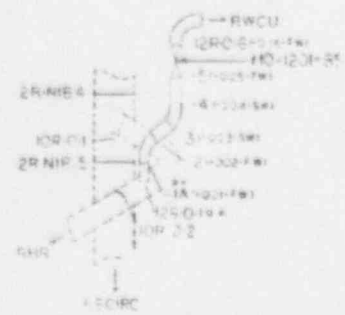
* DISCONTINUED METAL WELD
** HIGH STRESS WELD

DESIGNED BY	DATE	REVIEWED BY	DATE
CHECKED BY	DATE	APPROVED BY	DATE
REACTOR VESSEL CLEAN-UP SYSTEM SUCTION DRAIN WELD NO.			
ISI I 12-1			

ACCEPTED RWD
DATE 3/1/91

8 7 6 5 4 3 2 1

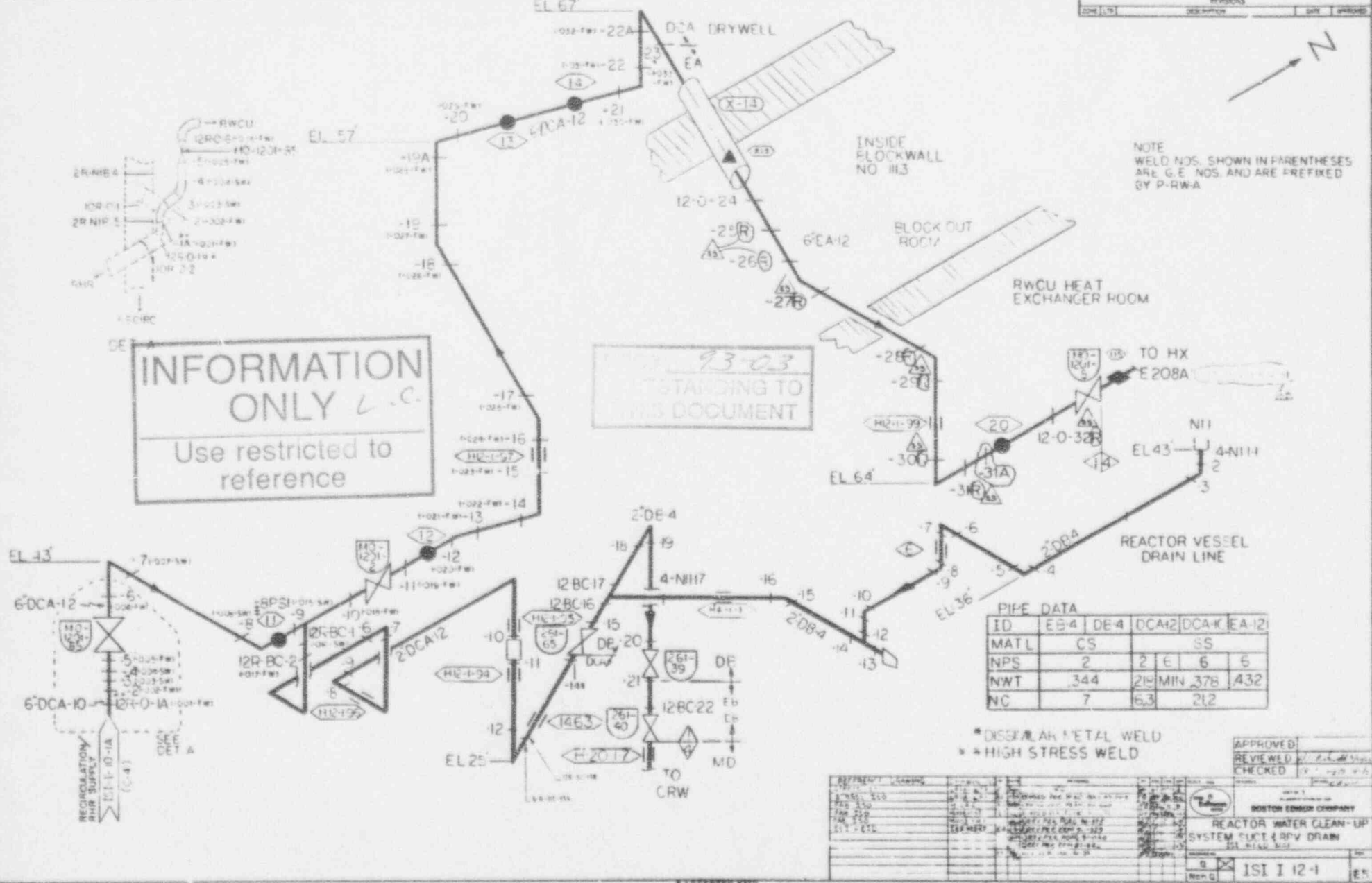
LINE NO.	REVISION	DATE	APPROVED



INFORMATION ONLY
Use restricted to reference

93-03
STANDING TO THIS DOCUMENT

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



PIPE DATA

ID	ES-4	DE-4	DCA-12	DCA-10	EA-12
MAT'L	CS	CS	SS	SS	SS
NPS	2	2	6	6	6
NWT	344	219	378	432	432
NC	7	63	212	212	212

* DISSEAL METAL WELD
* HIGH STRESS WELD

APPROVED:
REVIEWED:
CHECKED:

BOSTON EDISON COMPANY
REACTOR WATER CLEAN-UP
SYSTEM PUCT 48PV DRAIN

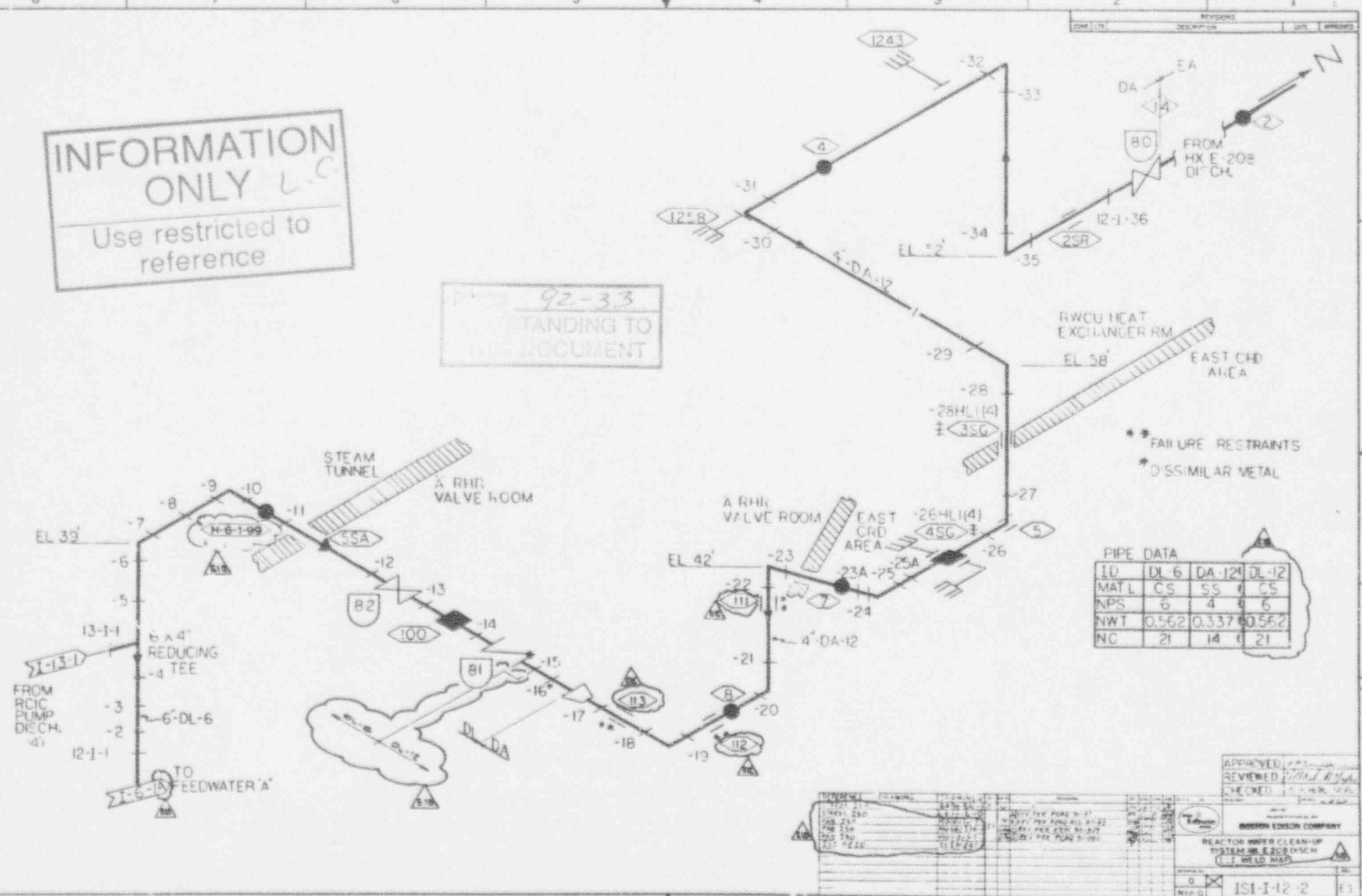
ISI 112-1

ACCEPTED RWS
THIS DATE

8 7 6 5 4 3 2 1

INFORMATION ONLY
Use restricted to reference

92-33
STANDING TO THIS DOCUMENT



PIPE DATA

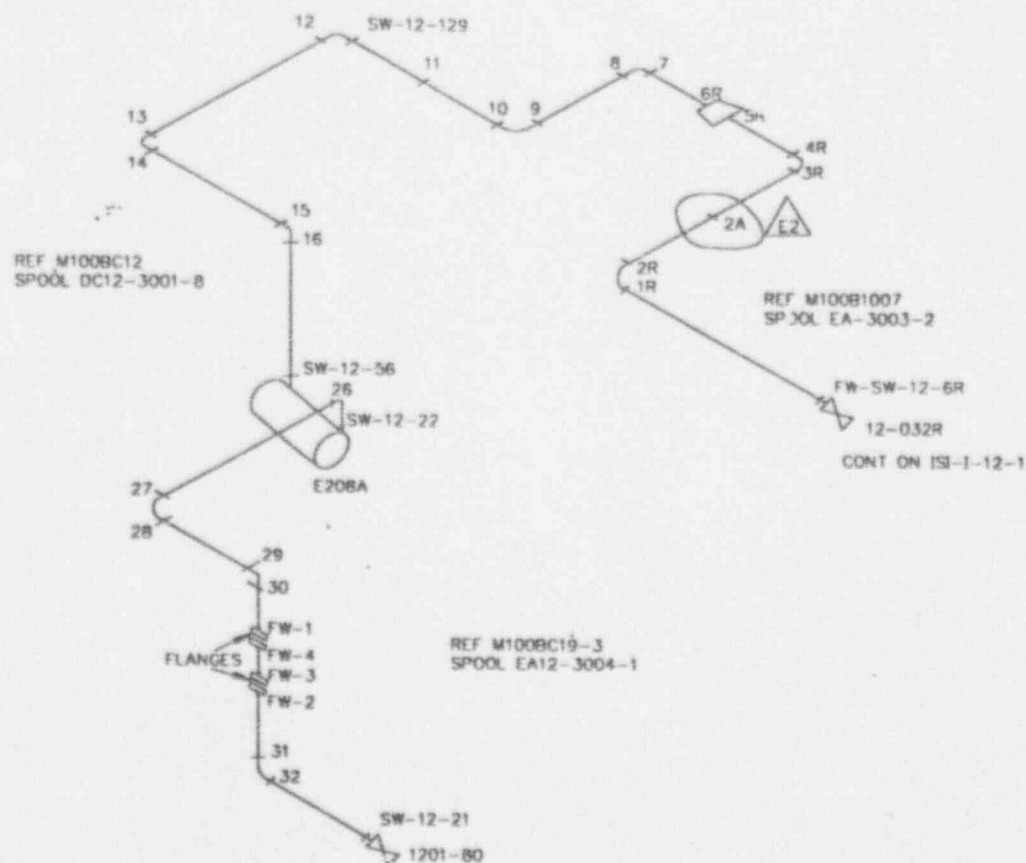
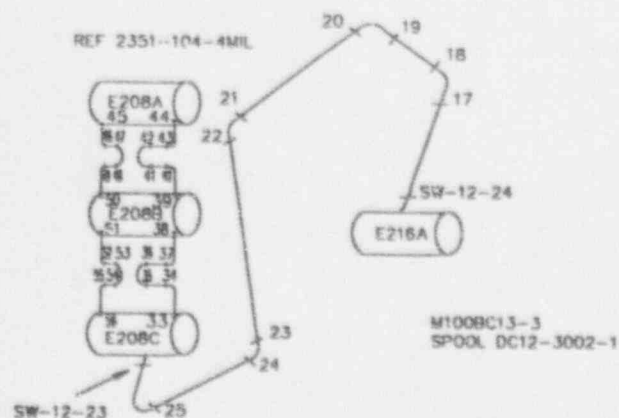
ID	DL 6	DA 12	DL 12
MAT L	CS	SS	CS
NPS	6	4	6
NWT	0.562	0.337	0.562
NC	21	14	21

APPROVED	REVIEWED	CHECKED
EDISON EDISON COMPANY		
REACTOR WASTE CLEAN-UP SYSTEM		
WELD MAP		
151-1-12-2		

Use restricted to
reference

FDO# 91-03
OUTSTANDING TO
THIS DOCUMENT

SKETCH 1
RWCU



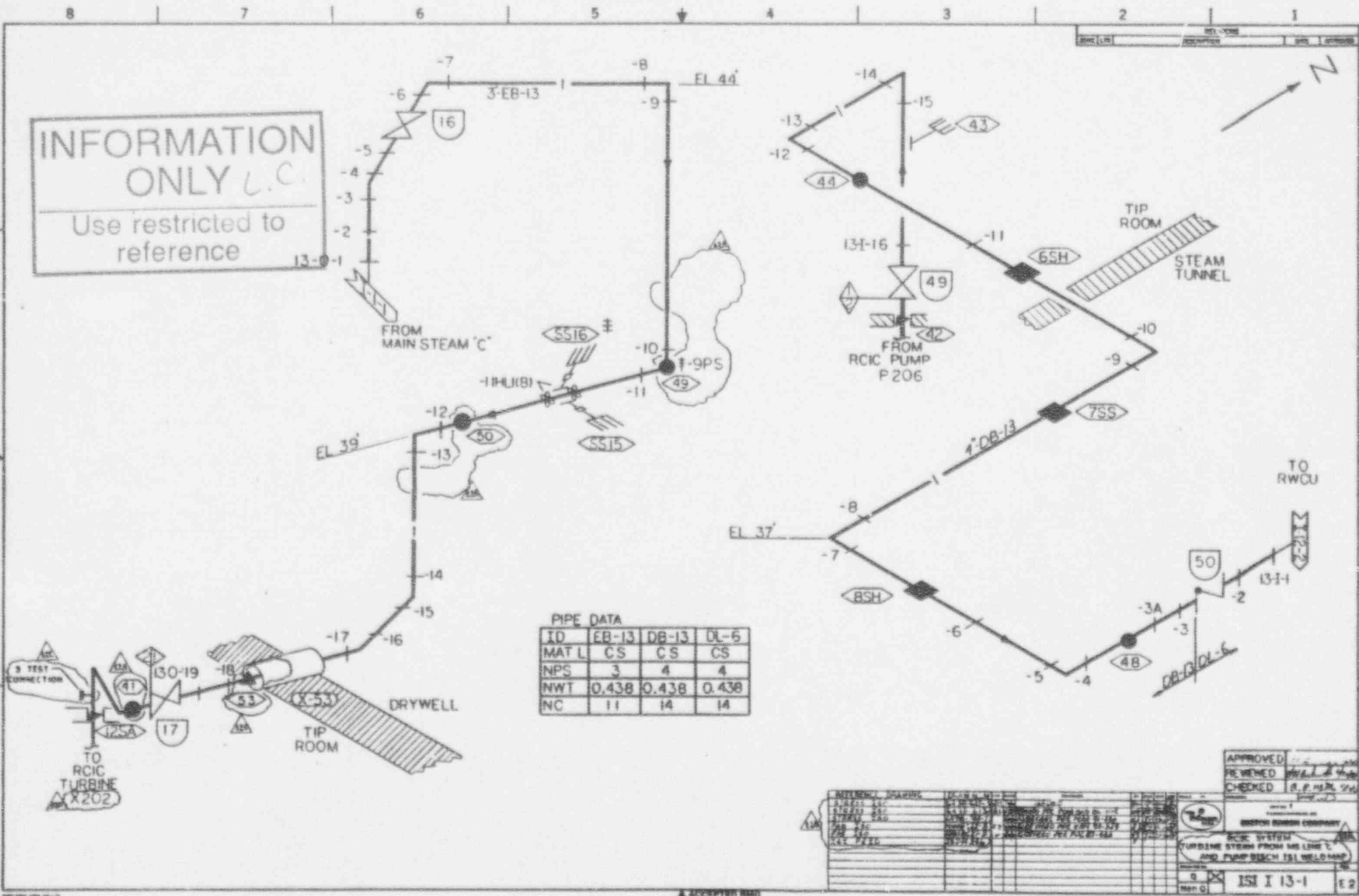
										D. FILE DESIGNED DRAWN BY: C	
										PLYING STATION BOSTON EDISON COMPANY	
										RWC SYSTEM HEAT EXCHANGER PIPING ISI WELD MAP	
REVISIONS 1. REVISED PER PDC 91-38 2. REVISED PER PDC 91-39 3. ORIGINAL ISSUE PER PDC 91-38										DRAWING NO. ISI-1-12-3	
TITLE OF REFERENCE DRAWINGS DRAWING NO.										REV.	

ACCEPTED MANUSCRIPT
DATE 06/01/2015

41600-4333

Feb 20-03 Mon Cr 10-2-13

INFORMATION ONLY L.C.
Use restricted to reference



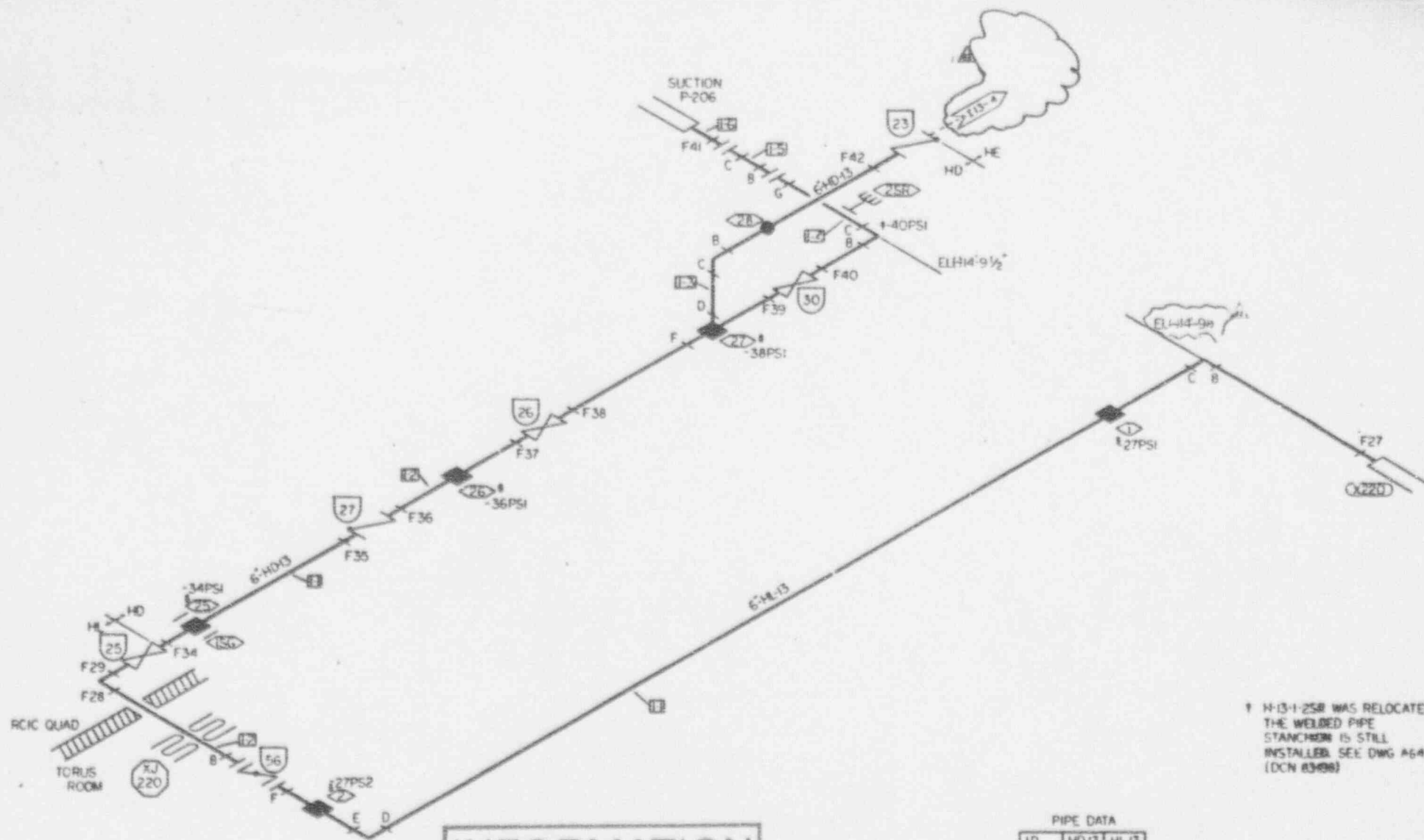
PIPE DATA

ID	EB-13	DB-13	DL-6
MAT L	CS	CS	CS
NPS	3	4	4
NWT	0.438	0.438	0.438
NC	11	14	14

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

RCIC SYSTEM
TURBINE STEAM FROM MS LINE 'C'
AND PUMP DISCH TSL WELD-NAP

ISI I 13-1

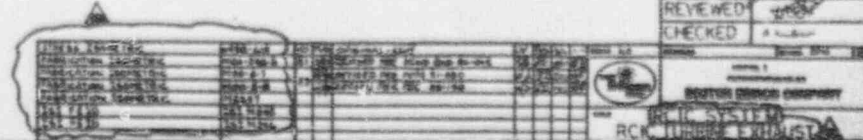


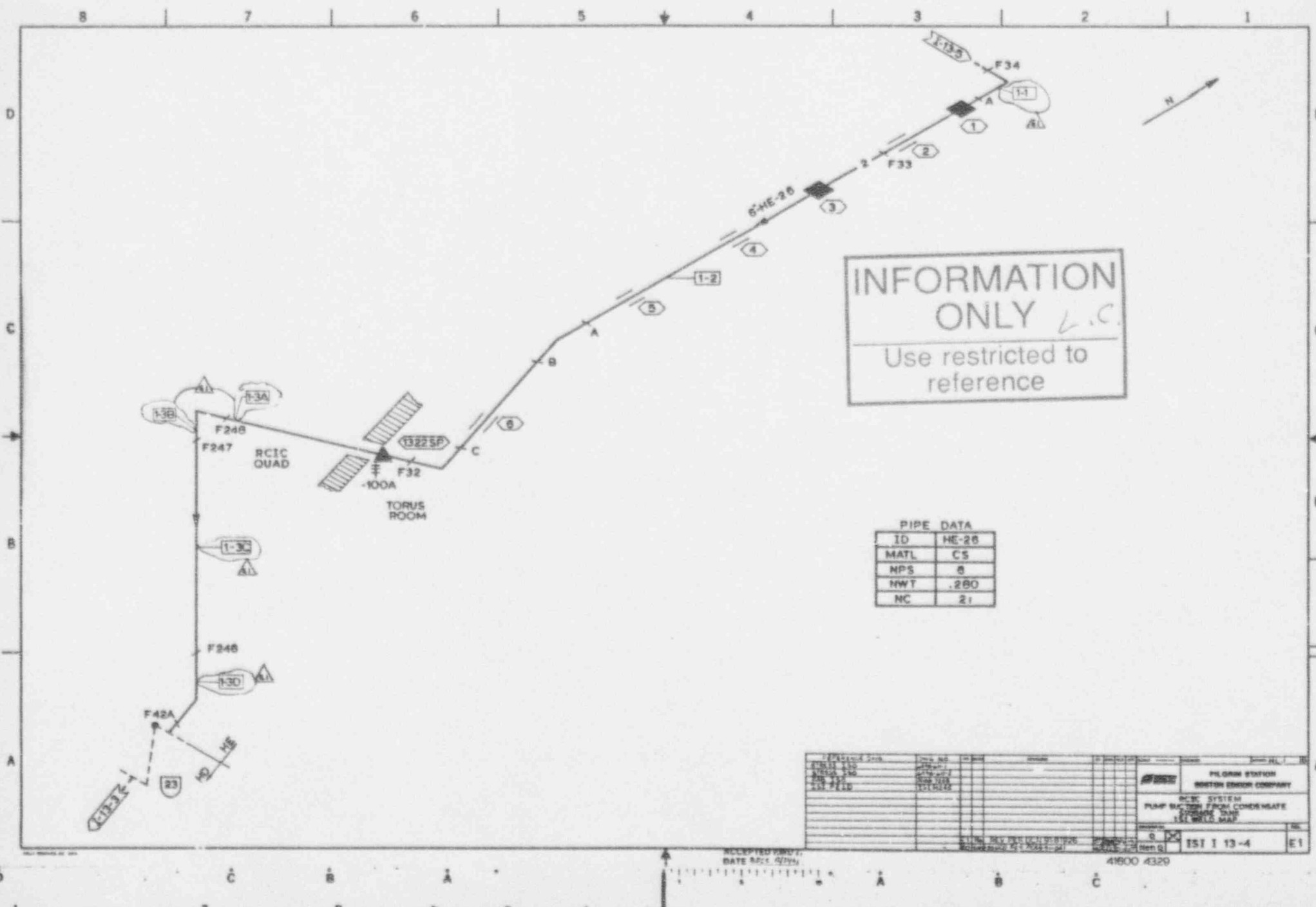
↑ H-13-1-25R WAS RELOCATED.
THE WELDED PIPE
STANCHION IS STILL
INSTALLED. SEE DWG A649
(DCN 83498)

INFORMATION
ONLY LC
Use restricted to
reference

PIPE DATA		
ID	HD 13	HL 13
MATL	CS	
NPS	E	
NWT	260	
NC	21	

APPROVED	REVIEWED	CHECKED
DATE	DATE	DATE
BY	BY	BY
FOR	FOR	FOR





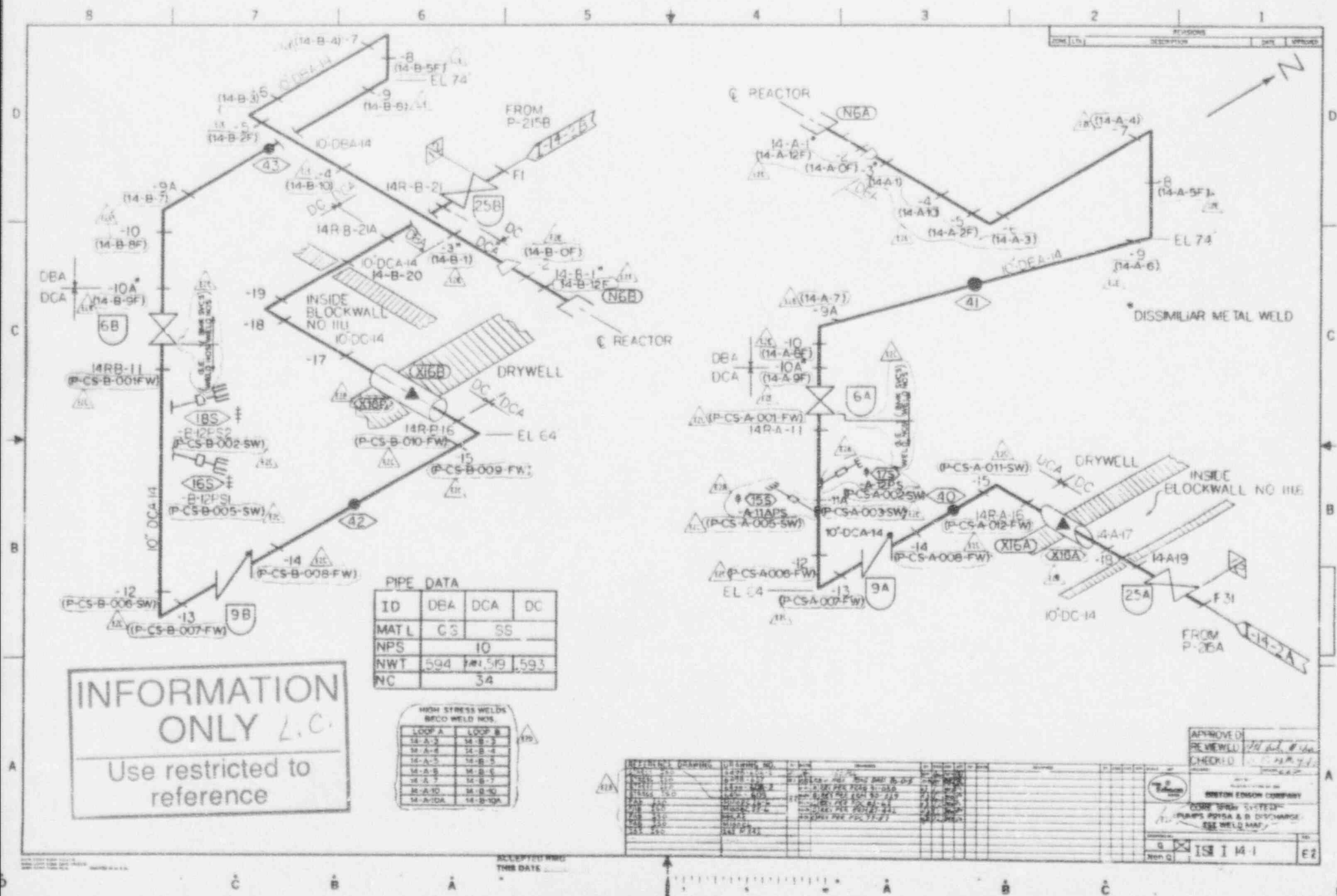
INFORMATION
 ONLY *L.C.*
 Use restricted to
 reference

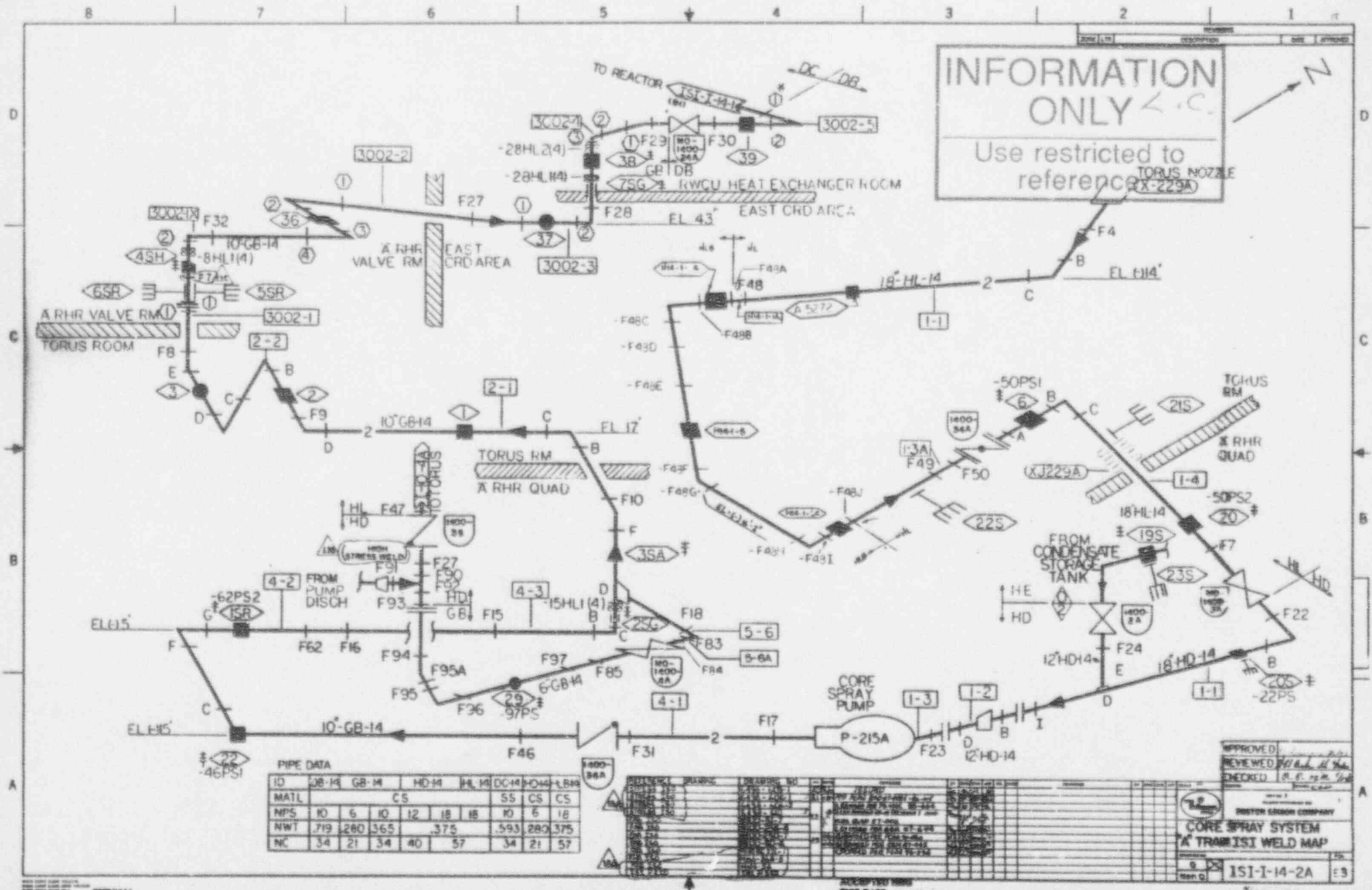
PIPE DATA

ID	HE-26
MATL	C5
NPS	6
NWT	.280
NC	21

REVISIONS NO. 1 DATE 12/1/84 BY [Signature] FOR [Signature]		PROJECT NO. 41600 4320 SHEET NO. 13-4 OF 13	
PLOMIN SYSTEM BOSTON CONCRETE COMPANY		RCIC SYSTEM PLANT BIC FROM CONDENSATE PUMP ROOM SEE BOLD MAP	
151 1 13-4 E1		41600 4320	

ACCEPTED AND
 DATE 12/1/84

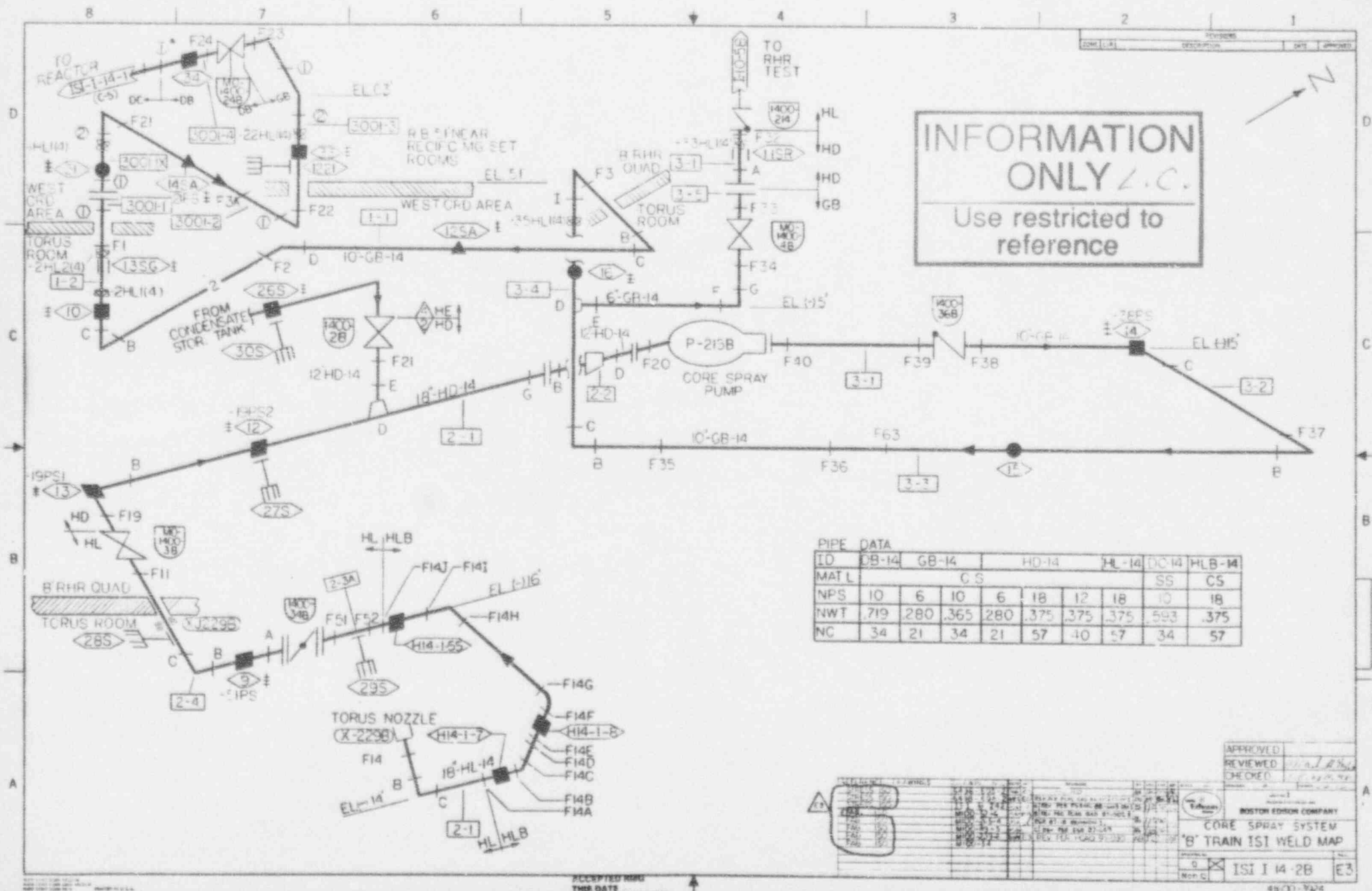




PIPE DATA

ID	GB-M	GB-M	HD-M	HD-M	DC-M	DC-M	DC-M	DC-M
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

APPROVED: *[Signature]*
 REVIEWED: *[Signature]*
 CHECKED: *[Signature]*
 CORE SPRAY SYSTEM
 'A' TRANSMITTAL WELD MAP
 ISI-T-14-2A



INFORMATION ONLY
Use restricted to reference

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

PIPE DATA

ID	DCA-2			
MATL	SS			
NPS	2	12	22	28
MWT	.218	.563	1.50	NOTE 1
NC	6.3	41.2	78.5	94.8

*** HIGH STRESS WELD
* DISSIMILAR METAL WELD
NOTE 1-ALL 28" DCA IS MWT=1.084
EXCEPT WHERE NOTED ON DY/G MIE-AI SHI.

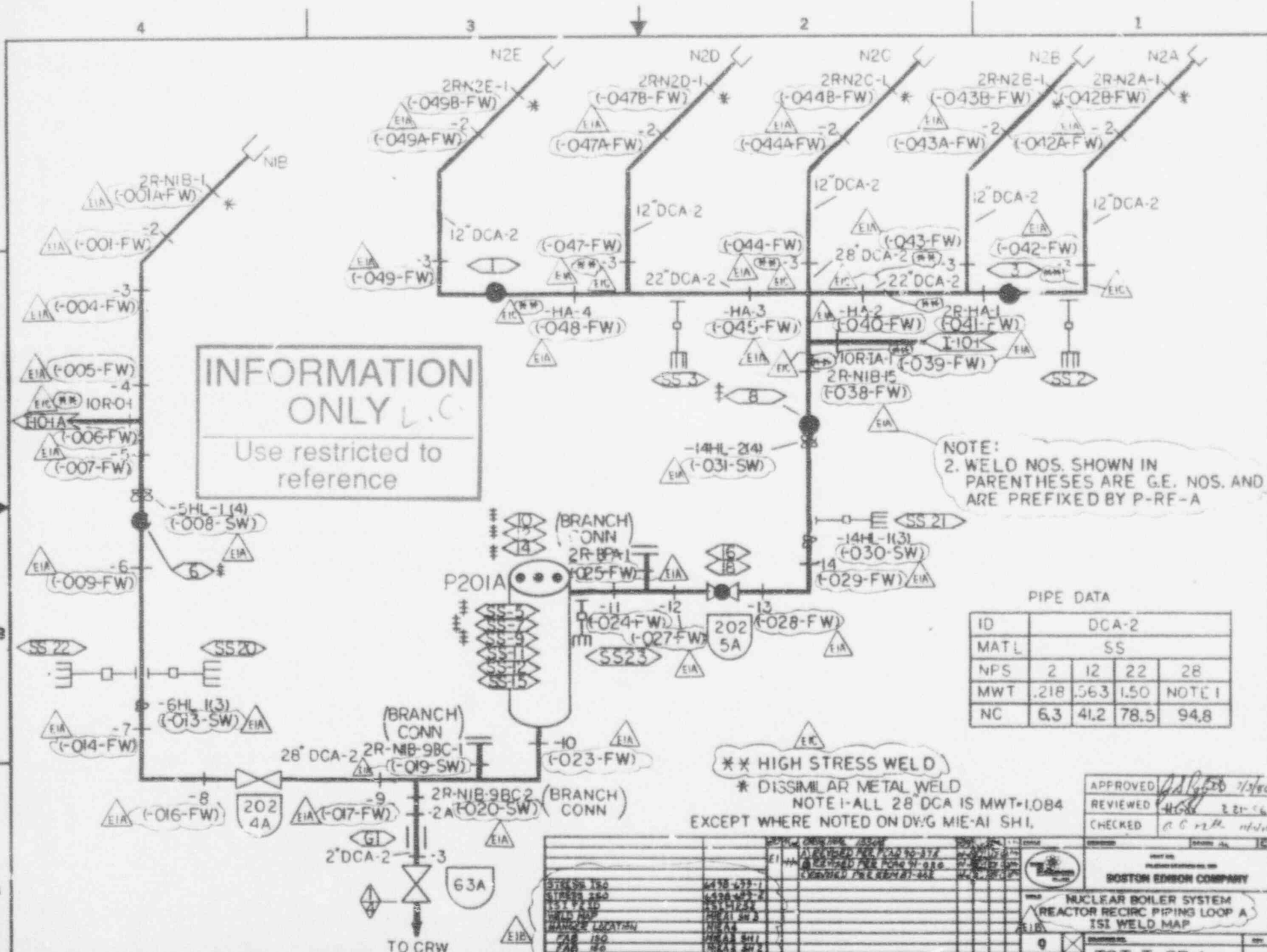
APPROVED *[Signature]* 7/1/66
REVIEWED *[Signature]* 3-21-66
CHECKED *[Signature]* 10/1/66

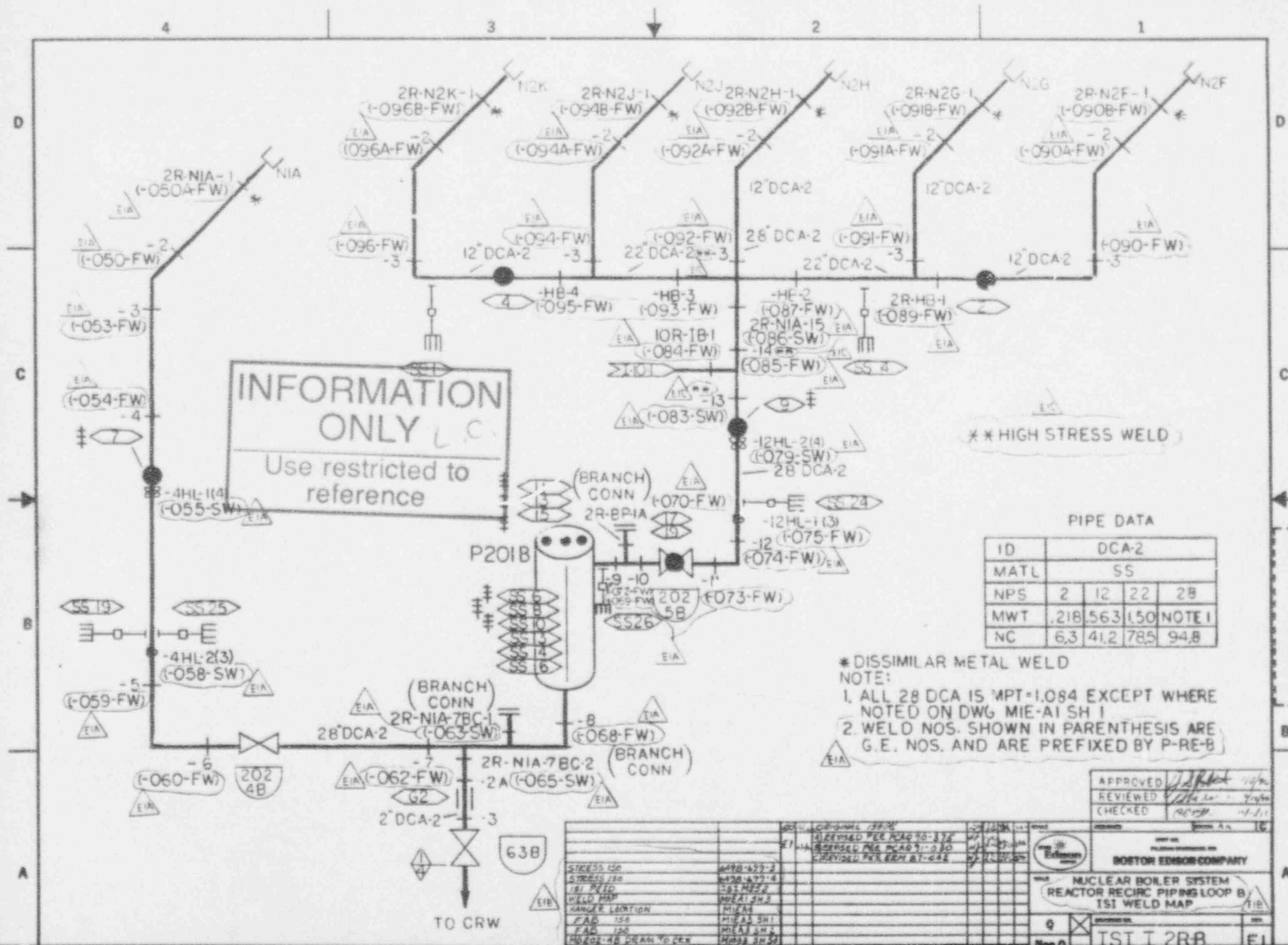
BOSTON EDISON COMPANY

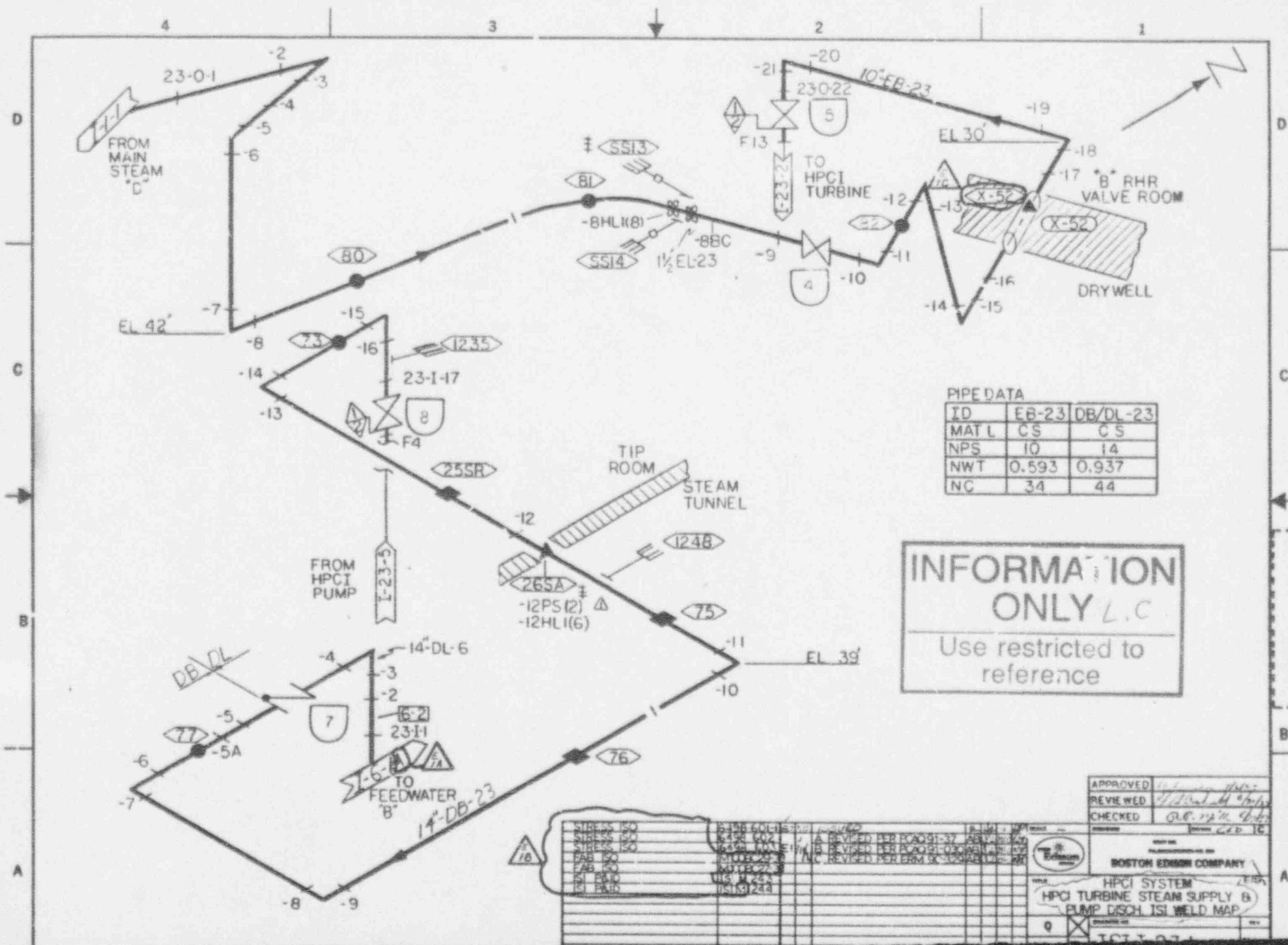
NUCLEAR BOILER SYSTEM
REACTOR RECIRC PIPING LOOP A
ISI WELD MAP

TGT 1-20-A

WELD NO.	WELD TYPE	WELD SIZE	WELD LOCATION	WELD DATE	WELD BY	WELD CHECKED	WELD APPROVED
4498-233-1	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-2	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-3	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-4	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-5	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-6	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-7	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-8	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-9	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]
4498-233-10	ISI	1/2"	REACTOR RECIRC PIPING LOOP A	7/1/66	[Signature]	[Signature]	[Signature]







PIPE DATA		
ID	EB-23	DB/DL-23
MAT L	CS	CS
NPS	10	14
NWT	0.593	0.937
NC	34	44

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reference

APPROVED	10/22/94
REVIEWED	11/22/94
CHECKED	11/22/94
DATE	11/22/94

BOSTON Edison COMPANY

HPCI SYSTEM

TURBINE STEAM SUPPLY &

IMP DISCH ISI WELD MAP

PDC# 93-03
OUTSTANDING TO
THIS DOCUMENT

INFORMATION
ONLY
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reference

PIPE DATA	
ID	EB23
MATL	CS
NPS	10
NWT	.594
NC	34

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

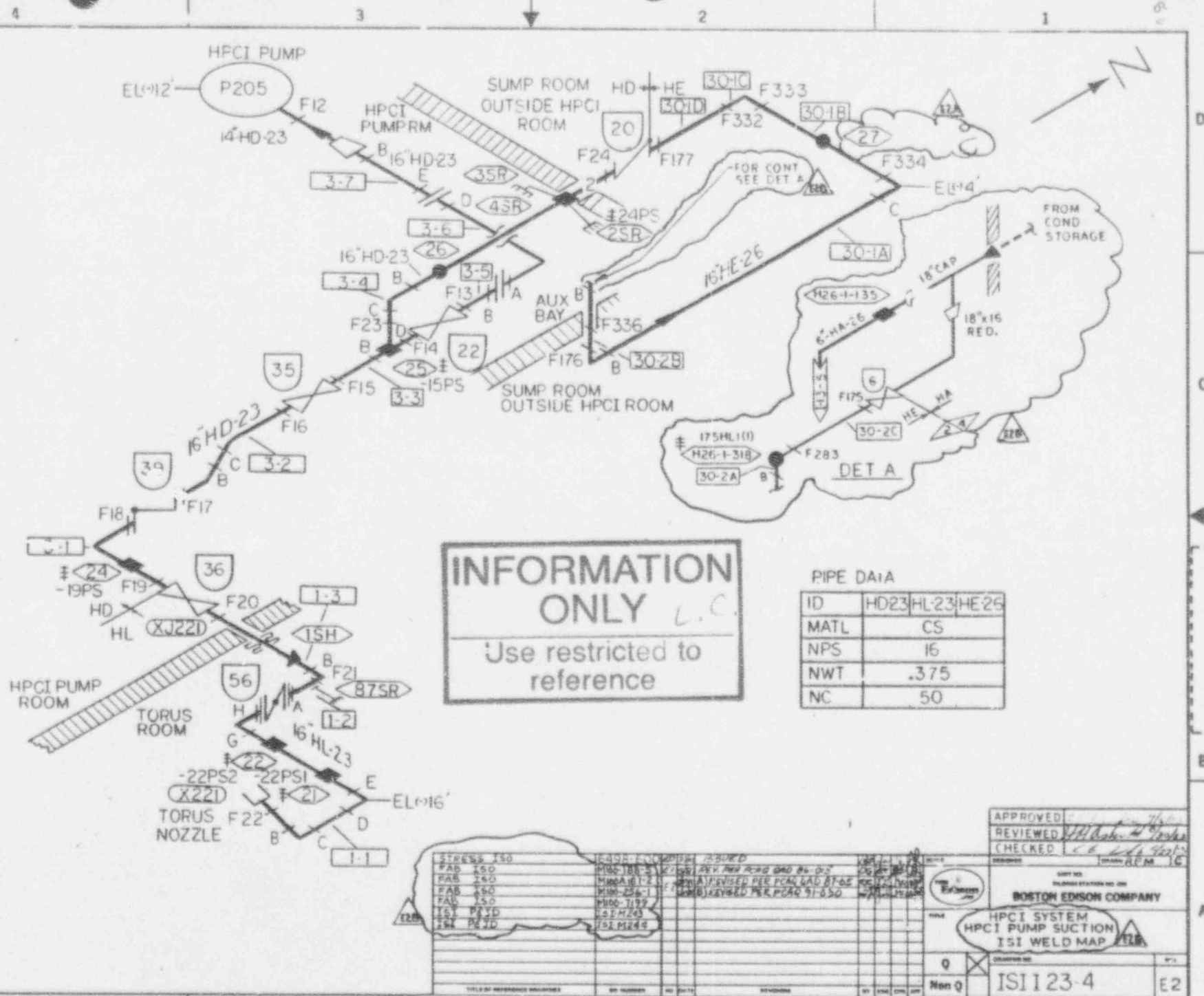
HPCI TURB STEAM SUPPLY	498-402	REV PER PDC 91-030
FAB	150	REV PER PDC 91-030
FAB	150	REV PER PDC 91-030
FAB	150	REV PER PDC 91-030
HPCI SYSTEM	ISI P&ID	REV PER PDC 91-030
HPCI SYSTEM	ISI P&ID	REV PER PDC 91-030

BOSTON EDISON COMPANY	
HPCI SYSTEM TURBINE STEAM SUPPLY ISI WELD MAP	
Q	Non Q
ISI I 23-2	E2

ACCEPTED RMG E2
THIS DATE 6/24/92

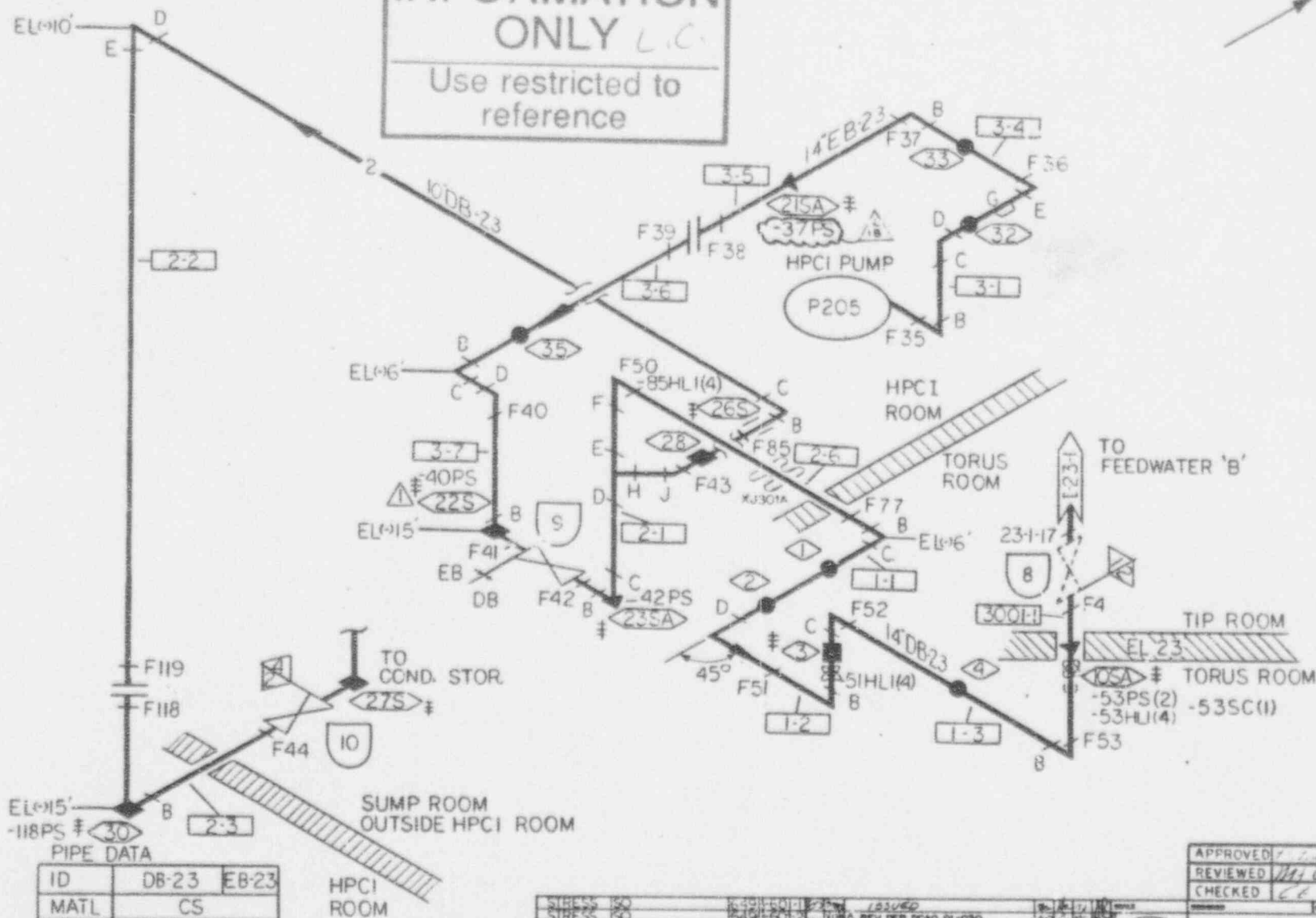
41600 3926





ACCEPTED RMG
THIS DATE 11/19/83

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Use restricted to
reference



PIPE DATA

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

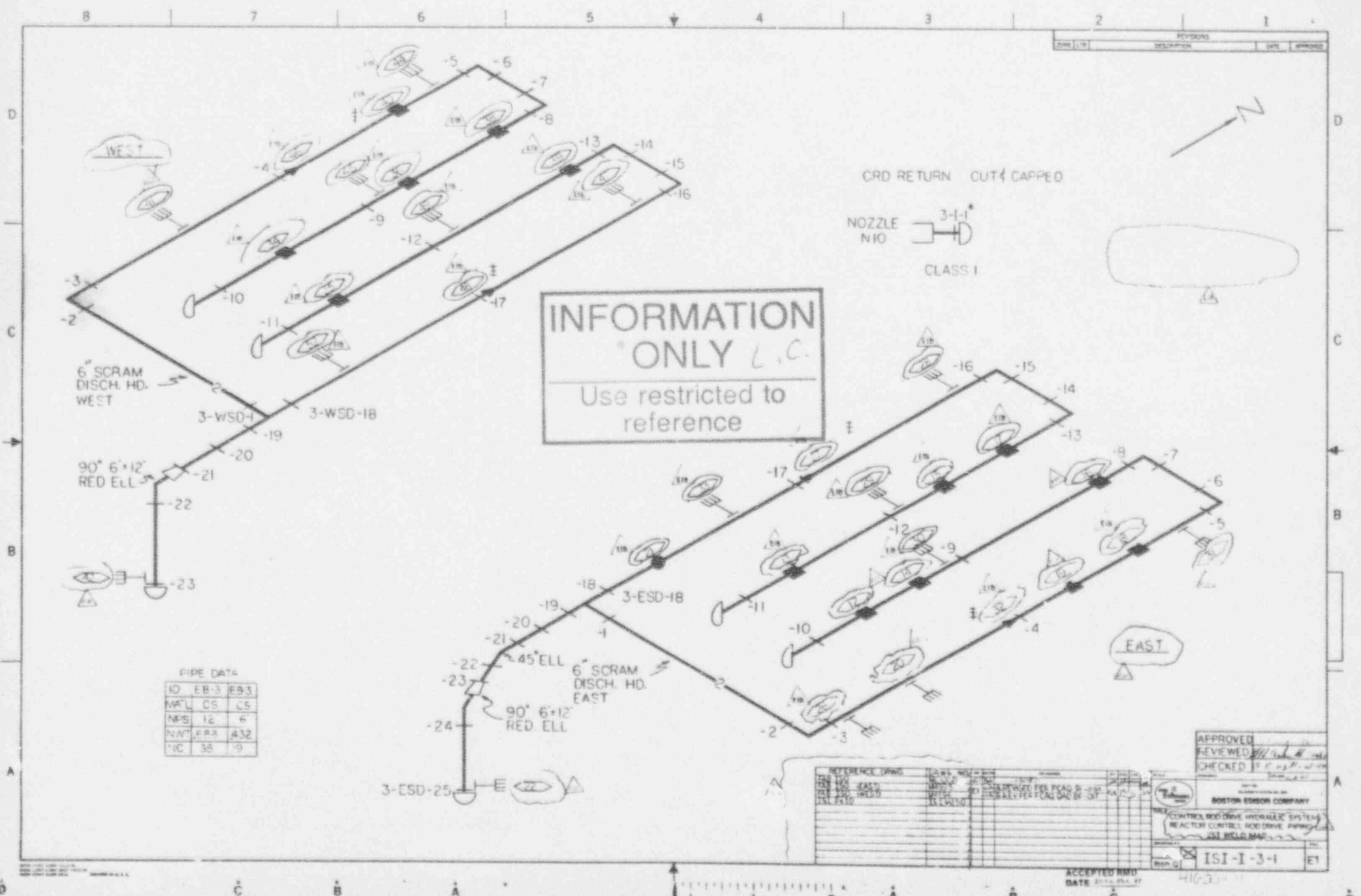
STRESS	ISO	REV PER PCAQ 91-030
STRESS	ISO	REV PER PCAQ 91-030
FAB	ISO	REV PER PCAQ 91-030
FAB	ISO	REV PER PCAQ 91-030
ISI P&ID	ISI M243	
ISI P&ID	ISI M244	

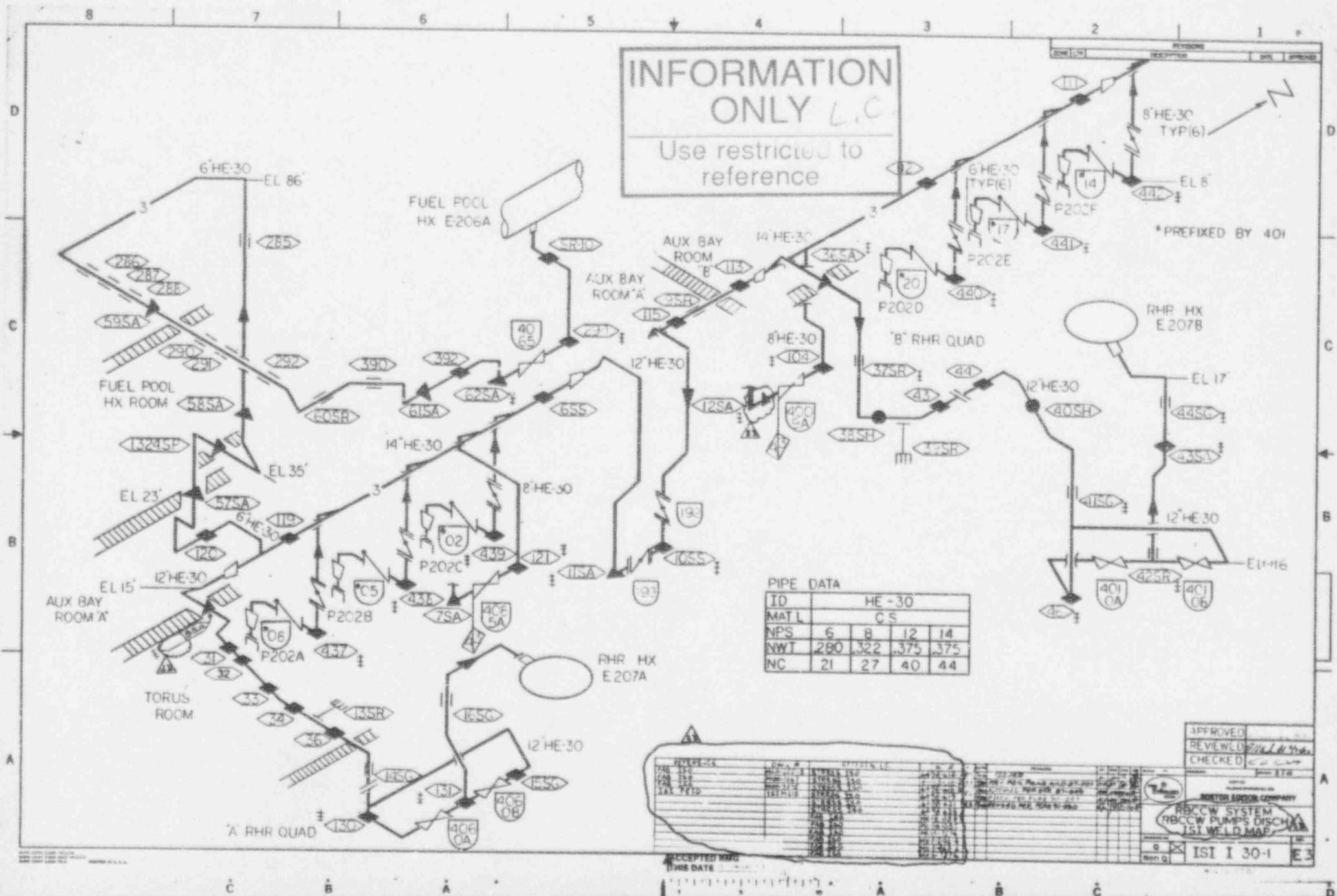
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 REVIEWED: *[Signature]*
 CHECKED: *[Signature]*

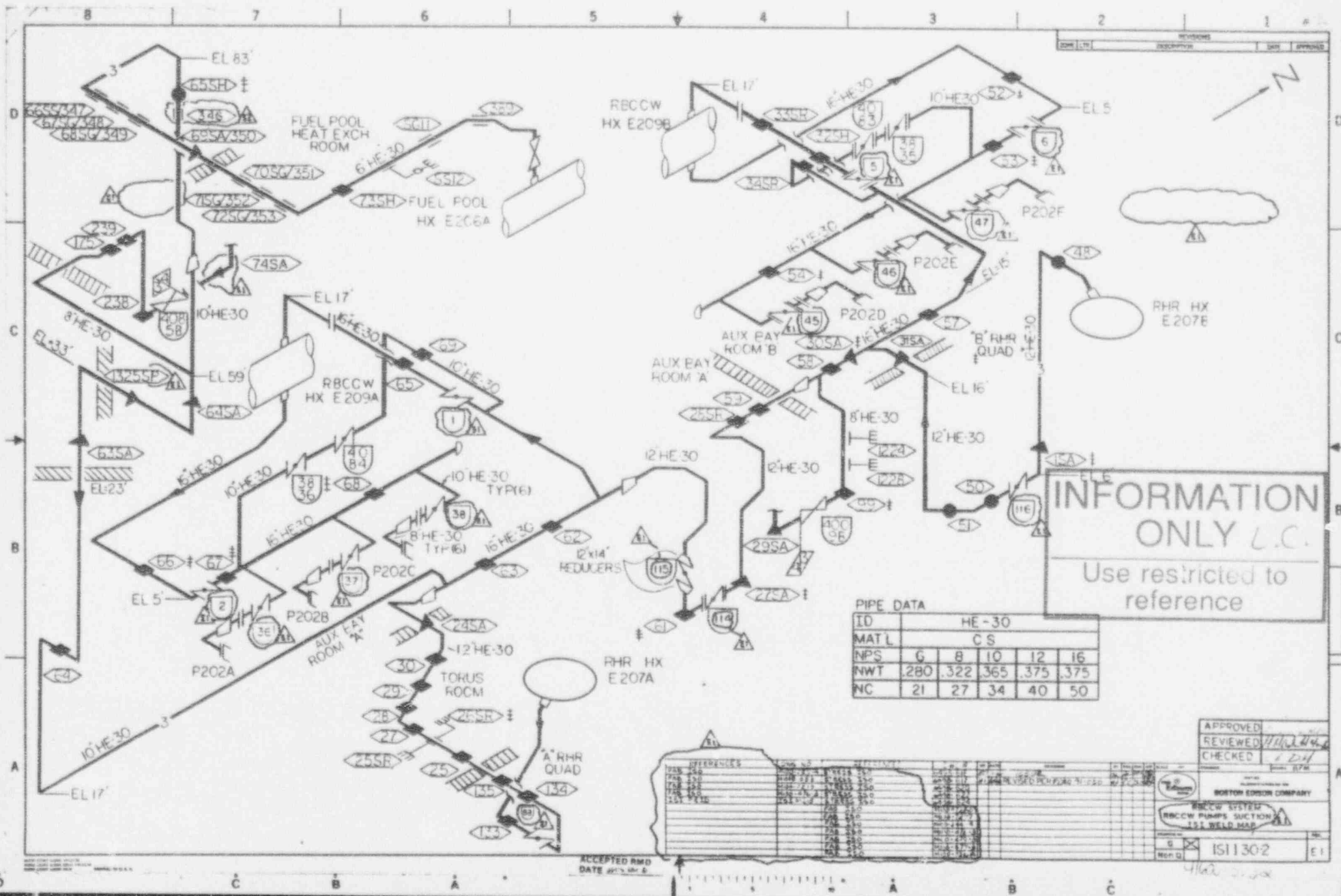
BOSTON EDISON COMPANY

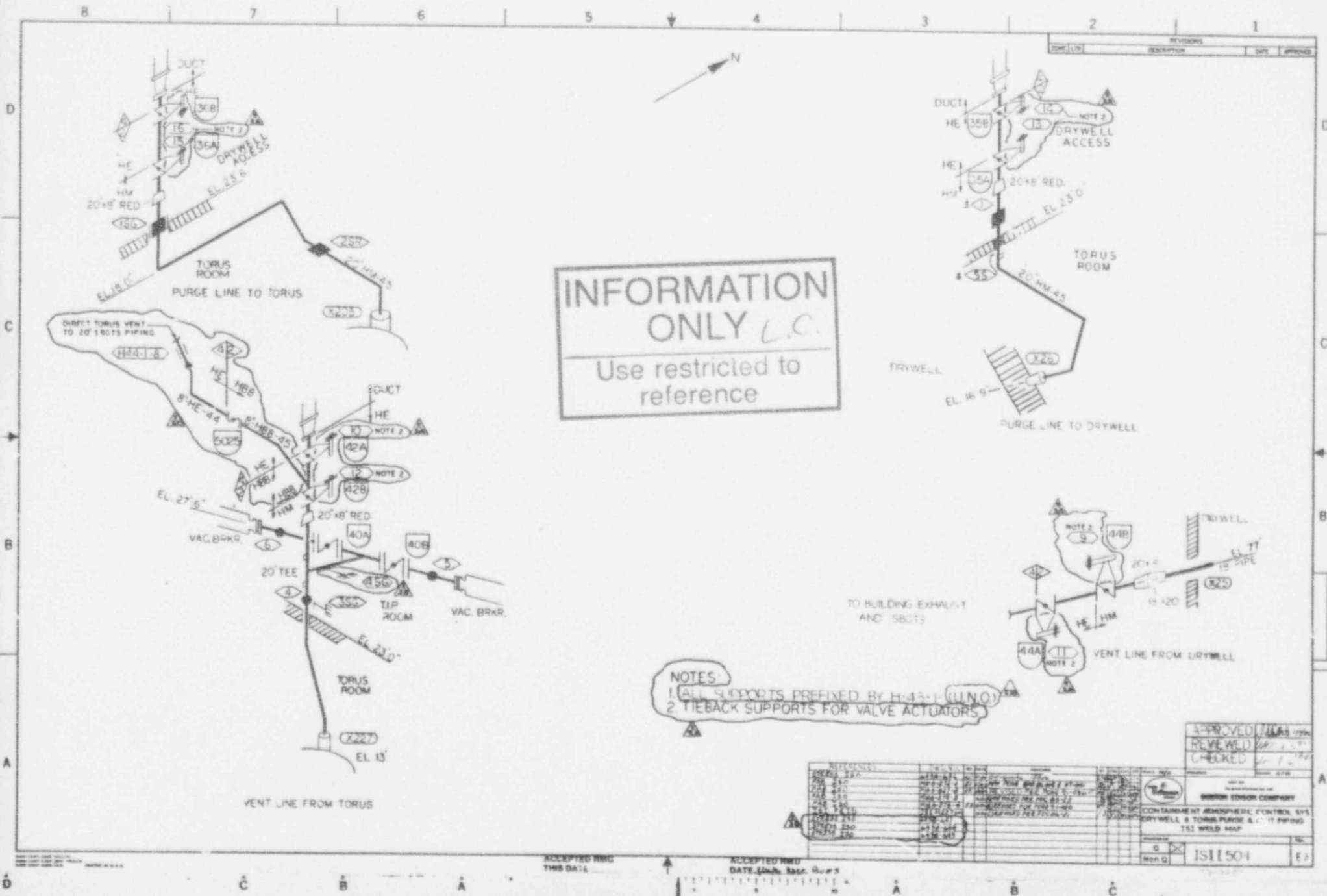
HPCI SYSTEM
HPCI PUMP DISCH TO REACTOR
ISI WELD MAP

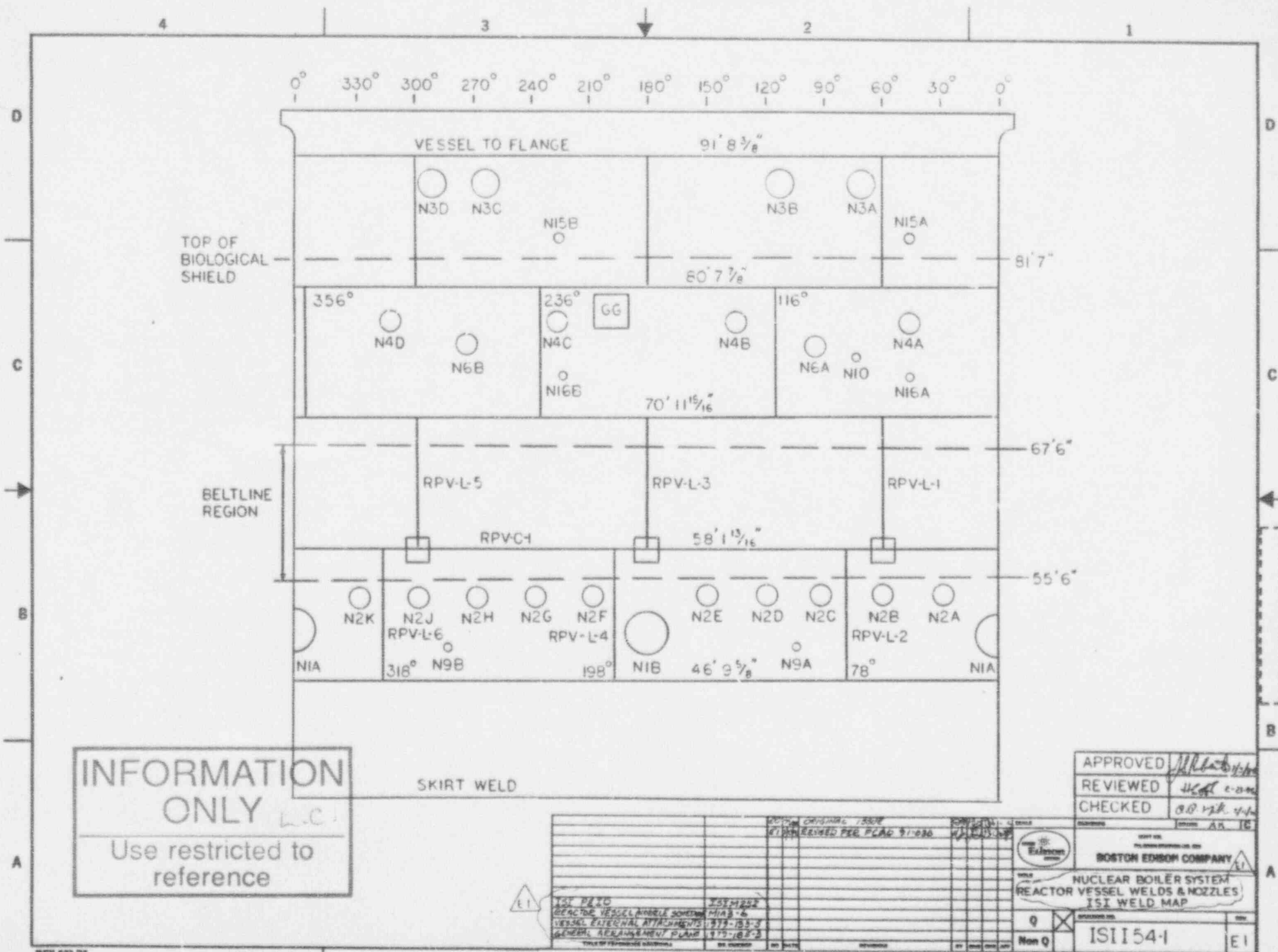
ISI 23-5











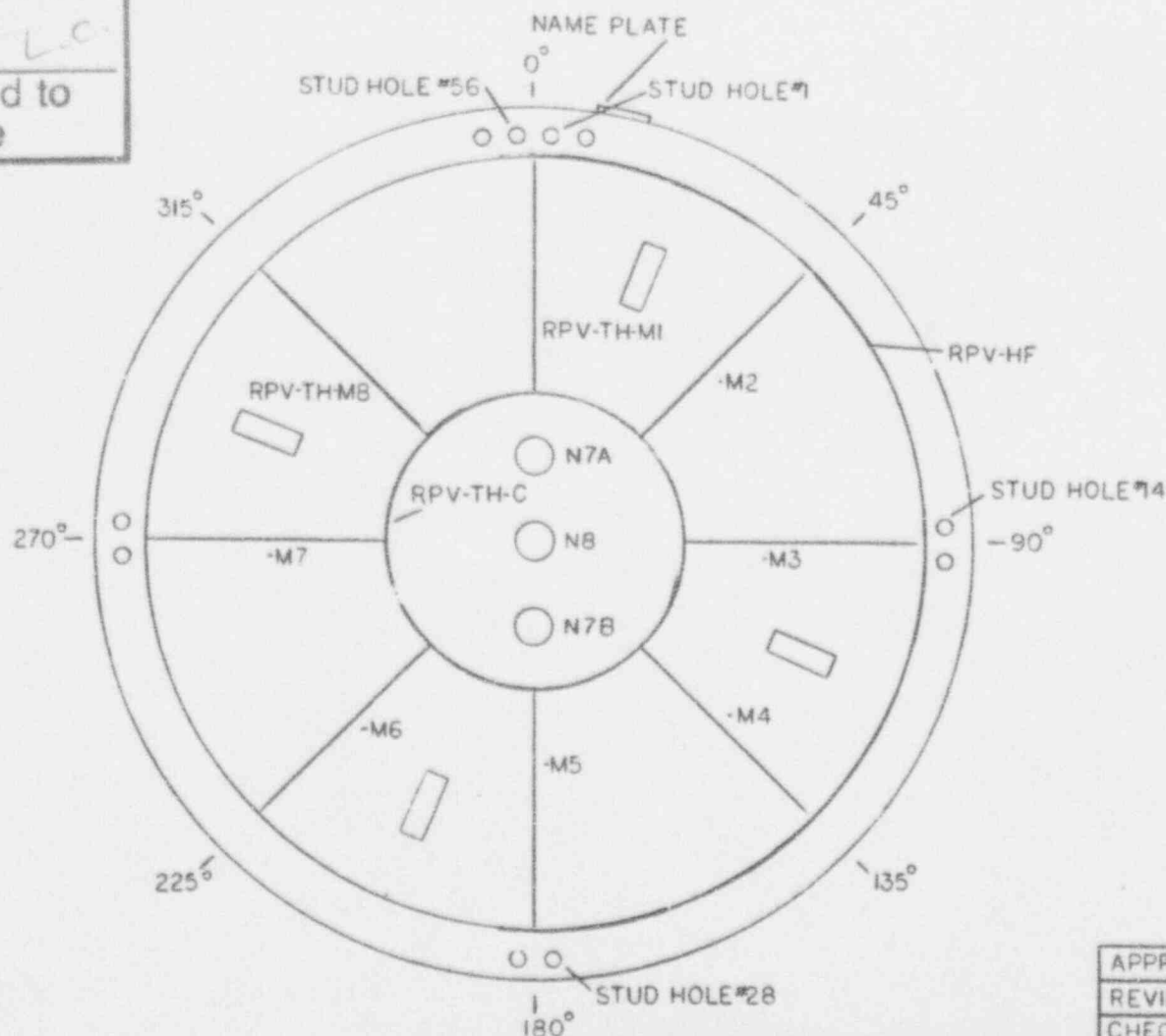
INFORMATION ONLY
Use restricted to reference


E1

NO.	DESCRIPTION	DATE	BY	CHKD	APP'D
1	ISSUED FOR CONSTRUCTION	10/1/68	J. H. HARRIS		
2	REVISED PER PLAN 91-030	10/1/68	J. H. HARRIS		
3					
4					
5					
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7					
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19					
20					

APPROVED	<i>[Signature]</i>
REVIEWED	<i>[Signature]</i> 10-2-68
CHECKED	<i>[Signature]</i> 10-2-68
DATE	10-2-68
BY	J. H. HARRIS
FOR	BOSTON EDISON COMPANY
NUCLEAR BOILER SYSTEM REACTOR VESSEL WELDS & NOZZLES ISI WELD MAP	
Q	Non Q
ISI 154-1	E1

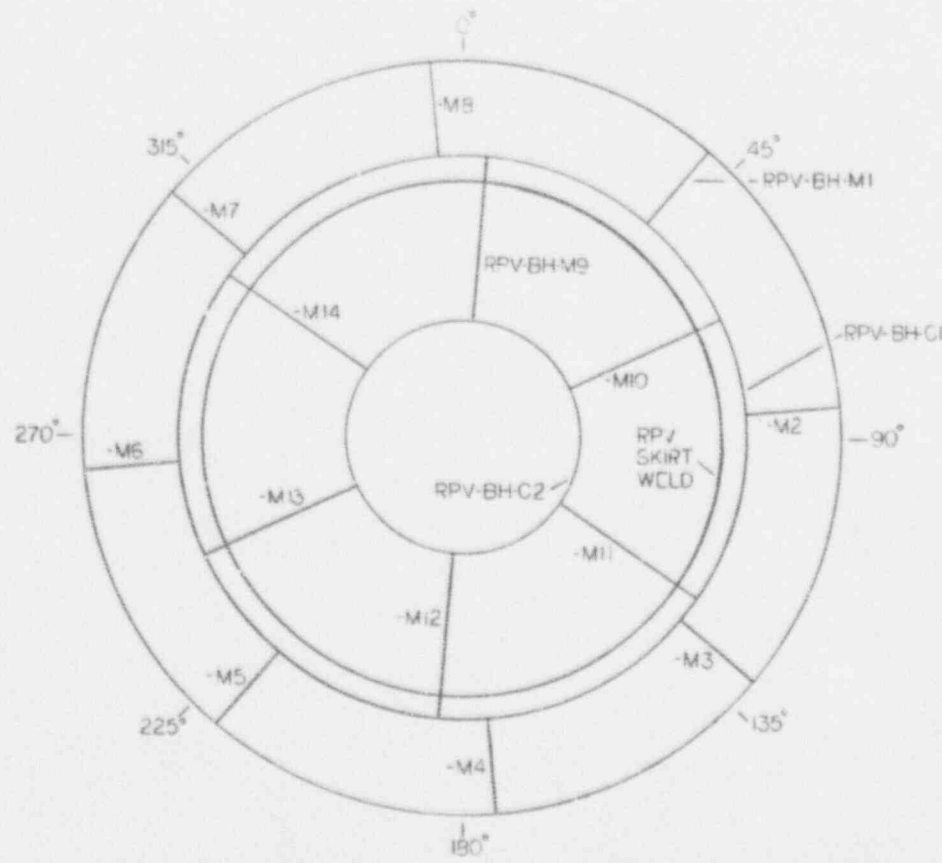
Use restricted to
reference



APPROVED	<i>J. S. [Signature]</i>	7/1/76
REVIEWED	<i>[Signature]</i>	2-21-76
CHECKED	<i>O. G. [Signature]</i>	4/1/76
DATE	CONTAINER	EXPIRATION
 PRINTED, ENGRAVED, AND BOSTON EDISON COMPANY		
NUCLEAR BOILER SYSTEM REACTOR VESSEL CLOSURE HEAD WELDS & NOZZLE ES-ISI WELD MAP		
Q	QUANTITY	UNIT
Non Q	ISI 154-2	E

[illegible]

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reference

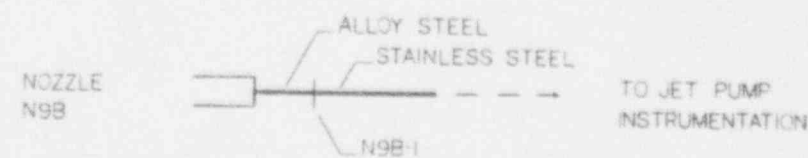


APPROVED <i>[Signature]</i>		DATE <i>11/11/80</i>
REVIEWED <i>[Signature]</i>		DATE <i>11/11/80</i>
CHECKED <i>[Signature]</i>		DATE <i>11/11/80</i>
NUCLEAR BOILER SYSTEM REACTOR VESSEL BOTTOM HEAD WELD WELD NO. <i>111543</i>		
Q	Non-Q	E1

ACCEPTED RMD
THIS DATE

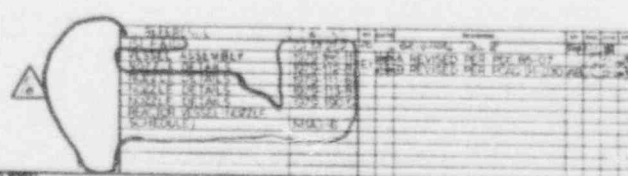
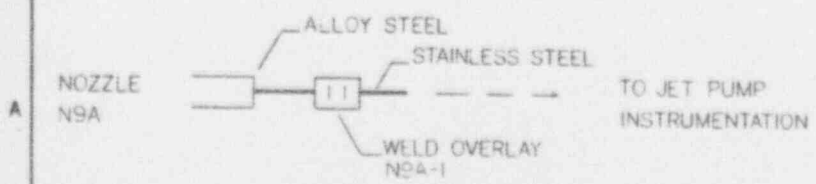
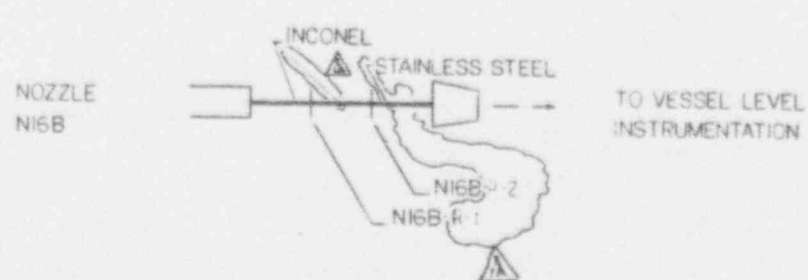
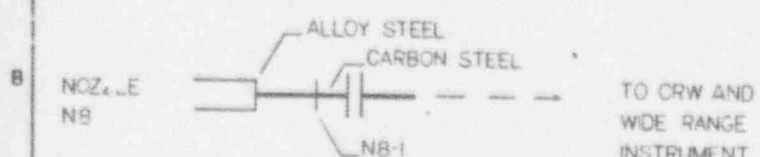
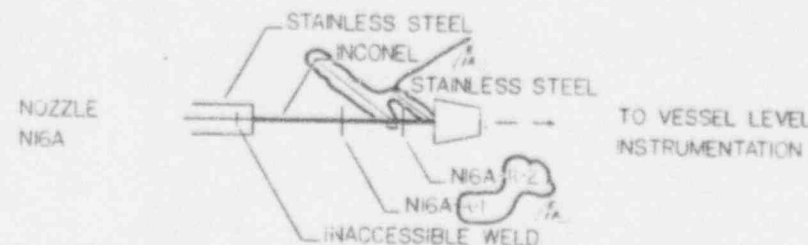
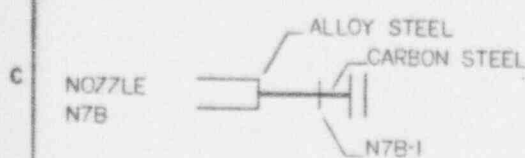
8 7 6 5 4 3 2 1

REVISIONS	DATE	APPROVED



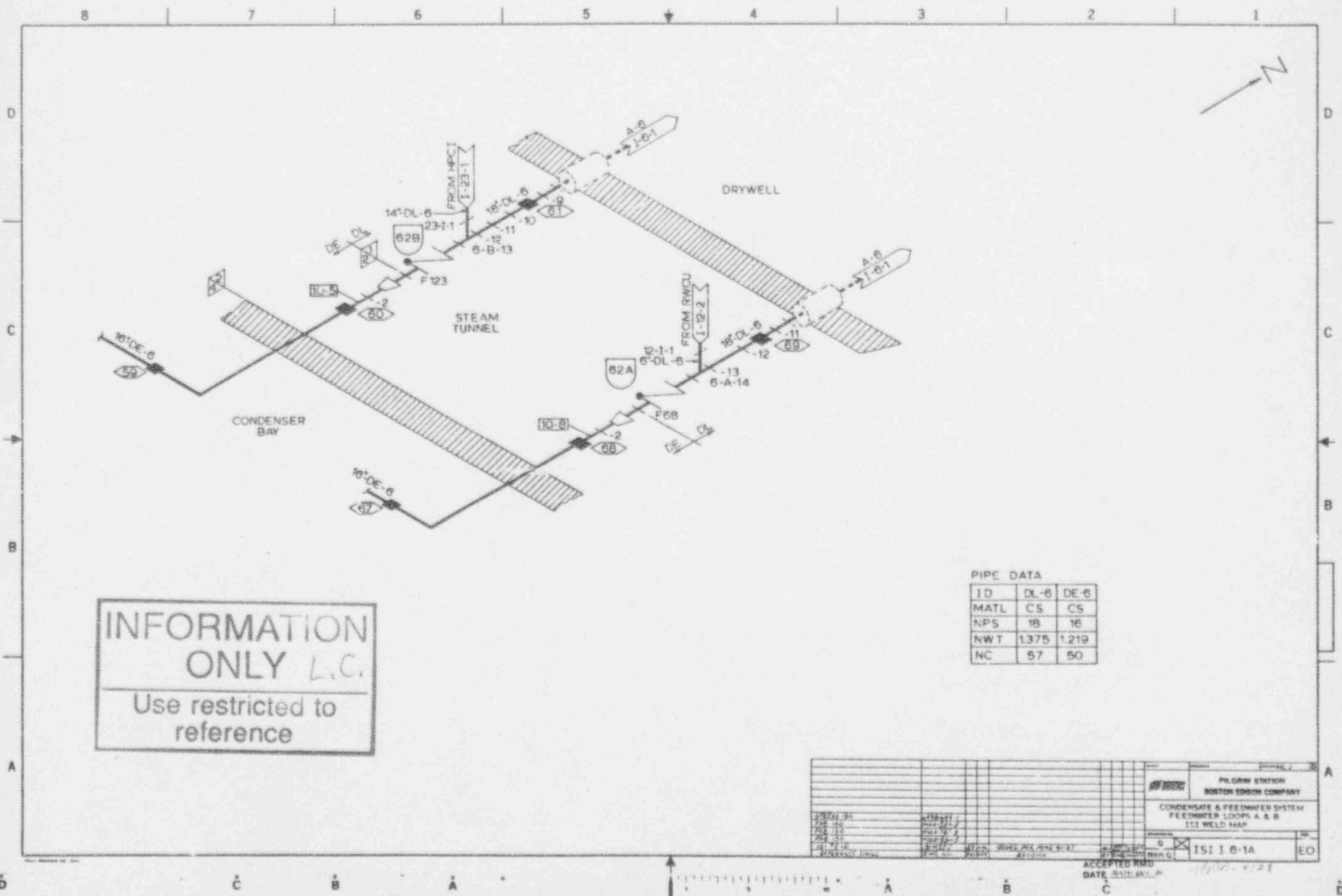
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APPROVED	REVIEWED	CHECKED
BOSTON ENGINE COMPANY		
NUCLEAR BOILER SYSTEM REACTOR VESSEL NOZZLES		
151-1-54-4		

ACCEPTED RMC
THIS DATE



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PIPE DATA

ID	DL-6	DE-6
MATL	C5	C5
NPS	18	16
NWT	1.375	1.219
NC	57	50

PROJECT PULMON STATION BOSTON Edison COMPANY		SHEET NO. 10
CONDENSATE & FEEDWATER SYSTEM FEEDWATER LOOPS A & B ISI WELD MAP		
TOTAL 30 PIPES 25 VALVES 10 TANKS 10 PUMPS 10 OTHER 10	DESIGNED BY DRAWN BY CHECKED BY APPROVED BY	DATE 11/11/81 SCALE PROJECT NO. 111111

ACCEPTED FOR
 DATE 11/11/81
 15118-1A EO

SECTION 4.0

STONE & WEBSTER ENGINEERING CORP.

1992 INSERVICE INSPECTION FINAL REPORT

TO BOSTON EDISON FOR MIDCYCLE 9

EXAMINATIONS

SECTION 5.0

ABB AMDATA

1993 INSERVICE INSPECTION FINAL REPORT
TO BOSTON EDISON FOR REFUEL OUTAGE #9
EXAMINATIONS

SECTION 6.0

GENERAL ELECTRIC NUCLEAR ENERGY (GENE)
INSPECTION REPORT TO BOSTON EDISON FOR
REFUEL OUTAGE #9 REACTOR WATER CLEANUP
PIPING REPLACEMENT PRESERVICE
EXAMINATIONS