

INSERVICE INSPECTION SUMMARY REPORT

FOR REFUEL OUTAGE #9

AT

PILGRIM NULCEAR POWER STATION

Prepared by Rupam Paudyal Date 7-28-93

Reviewed by Charles Rouss Date 7/28/93

Approved by U Venkataram^{for FNF} 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

<i>TABLE 1</i>

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

SYSTEM	COMPONENT	EXAM TYPE	DATE PERFORMED	DATA SHEET
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 ~~or~~ 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 Munkalana ^{for FNF} 1993 Signed Boston Edison By Munkalana ^{for FNF}
7-29-93 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 19 93

[Signature] Commissions MA 1420
Inspector's Signature National Board, State, Province and No.

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

1. Owner Boston Edison Company Date 4/29/93
 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 19104291/P.O. #107604
 Address Repair Organization P.O. No. Job No. etc.
 3. Work Performed by BECO/Anchor Darling Valve Co Type Code Symbol Stamp A/D 'NR'
 Name Authorization No. 44
800 Boylston Street, Boston, MA 02199 Expiration Date July 10, 1995
 Address

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
Applicable Manufacturer's Data Reports to be attached
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 [Signature] Date JULY 28, 1993
 Owner or Owner's Designed, Title Div. Mgr 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.

[Signature] Commissions MA 1420
 Inspector's Signature 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

Date 5-11-93
Sheet 1 of 1

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

Unit #1
MR #19301881
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

4. Identification of System 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 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:

Purchased New (Improved Design Disc) from A/D. The Replacement Disc 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 RFQ 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 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 3/29/93

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 19201551

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Reactor 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 ilve for RMS Date 7/28, 19 93
Owner or Owner's Designed, Title DIV Mgr OQC

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 MA 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

Date 10-21-92

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 19201890

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 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 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

- 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 hydrottested 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
Applicable Manufacturer's Data Reports to be attached
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 Man 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 RFO 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.

[Signature] Commissions MA 1420
Inspector's Signature National Board, State, Province and Endorsements
Date 7-26 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 2-26-93

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 19300653

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 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 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 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 Man 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 1470
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 2-25-92

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 19101273

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 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 Code Section VIII and replaced valve to ASME Section III, CL. 2.
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 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 RFO 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.

V. Kypreos Commissions MA 1420
Inspector's Signature National Board, State, Province and Endorsements
Date 2-26 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 12-14-92

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 19201586

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME 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.

*=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 certified to meet the Tech Spec requirements.
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 RSchifone GC 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 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

Date 07/07/93

Name

800 Boylston Street, Boston, MA

Sheet 1 of _____

Address

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Various

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System 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

Over 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. Schifone 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 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.

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 07/08/93

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

3. Work Performed by Boston Edison Company

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

Name

Rocky Hill Road, Plymouth, MA

Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System 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 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

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

QC Div MGR
Owner or Owner's Designed, 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]

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 11/3/92

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 19201749

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Reactor Water Clean Up

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replaced	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 [Signature] 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 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 7/12/93

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

Various

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Main Steam

5. (a) Applicable Construction Code 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 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 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 of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MA 1420
 Date 7-28 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 1-6-93
 Name _____
800 Boylston Street, Boston, MA Sheet 1 of 1
 Address _____
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name _____ MR 19103843
Rocky Hill Road, Plymouth, MA Repair Organization P.O. No. Job No. etc.
 Address _____ Type Code Symbol Stamp N/A
 3. Work Performed by Boston Edison Company Authorization No. N/A
 Name _____ Expiration Date N/A
Rocky Hill Road, Plymouth, MA
 Address _____

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.

*An in-service leak test was performed at flange connections with no visible leaks.

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 [Signature] 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 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 4-29-93

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 19201584

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III, 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 *PER*

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 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Installed 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 Mgr 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 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
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 1-20-93

Sheet 1 of 1

Unit #1

MR #19201588

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 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 ^(Plot) Installed Spare MSRVR Plot Assembly in RV-203-3B and Repaired 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 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 MSR/V pilot assembly was replaced in kind. (Rebuilt by an approved vendor per Tech Specs.) All studs/nuts
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 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 7-26 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 3-31-92
Name
800 Boylston Street, Boston, MA
Address
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 Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
Address
4. Identification of System Control Rod Drive
5. (a) Applicable Construction Code ASME III, CL1 19 77 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)
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 Mgr 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 RFO9 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 IONS, 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 6-30-93

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

Various

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System RBCCW

5. (a) Applicable Construction Code Section VIII, 86,65 19 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.

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 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 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 MP 1420
 National Board, State, Province and Endorsement:
 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 11/21/91

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 19029105

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 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 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 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 [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 11-22-91 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.

[Signature] Commissions MA 1420
Inspector's Signature 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 1-11-93

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 19202802 - 1 thru 5

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Salt Service Water

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or NO)
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 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 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 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 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 Commissions MA 1420
Inspector's Signature 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 6/30/93

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 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 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 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 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-203-3C	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 Dwgs #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.

Inspector's Signature [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 4/24/93

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

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 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.

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. Schifano QC Division 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 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.

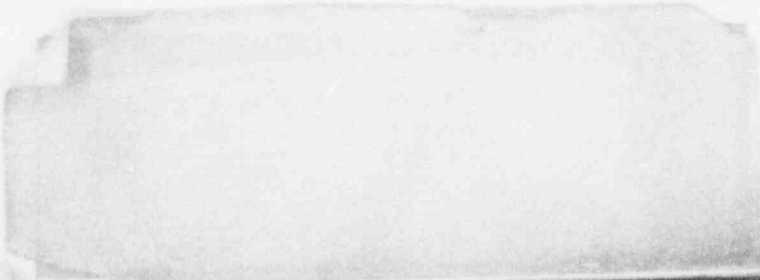
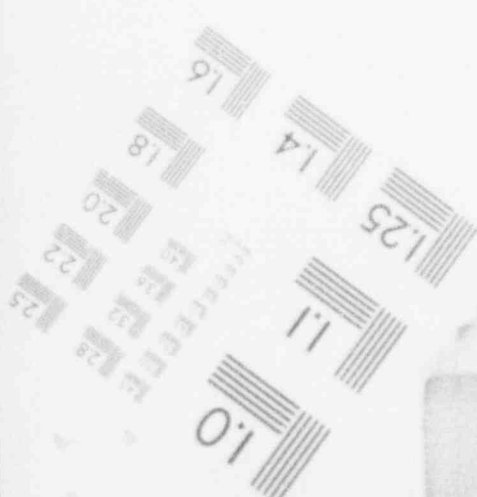
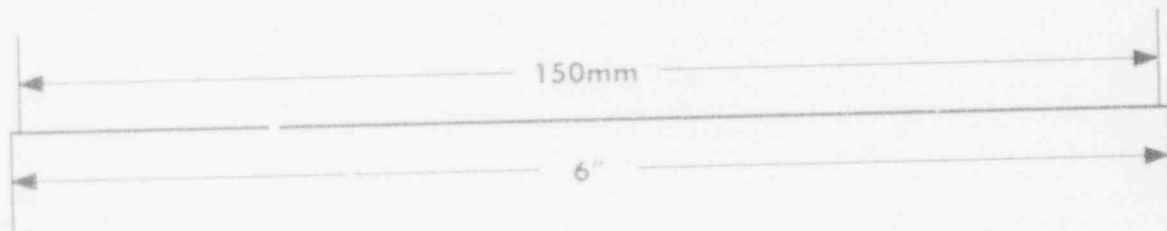
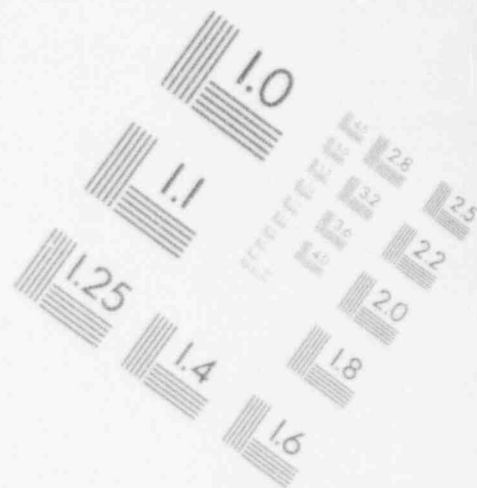
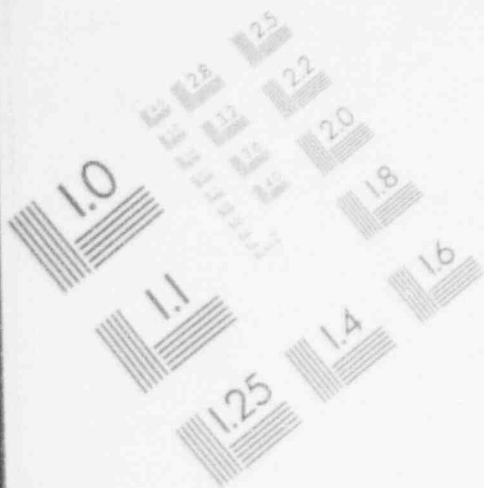
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury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

Inspector's Signature V. R. [Signature] Commissions MA 1470
National Board, State, Province and Endorsements

Date 7-27-93 *Arkwright Ins. Co.

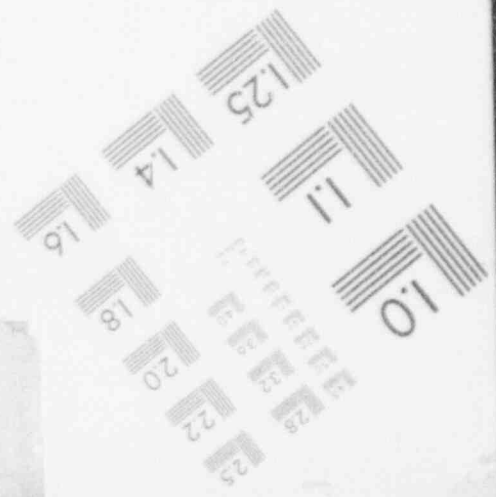
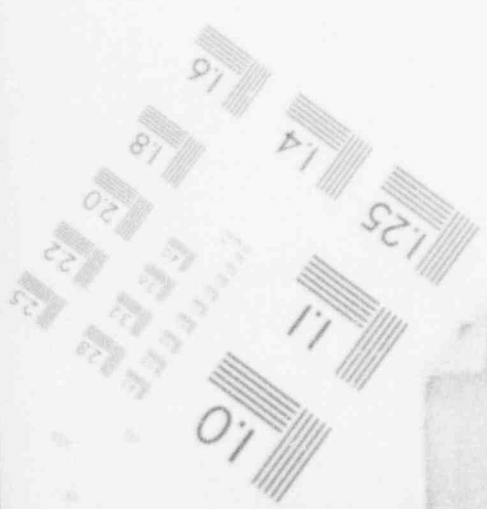
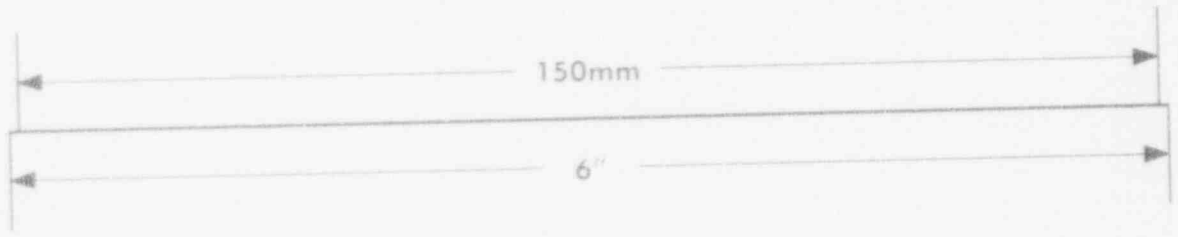
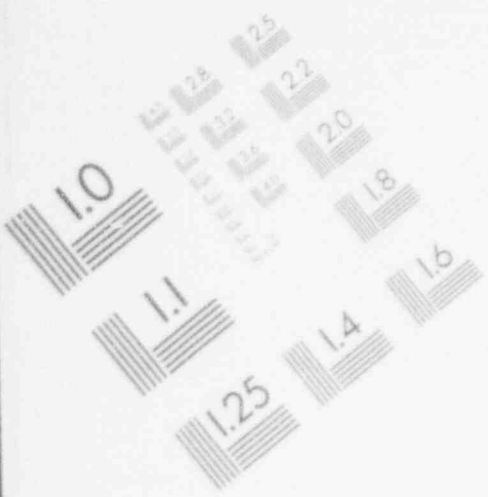
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IMAGE EVALUATION TEST TARGET (MT-3)



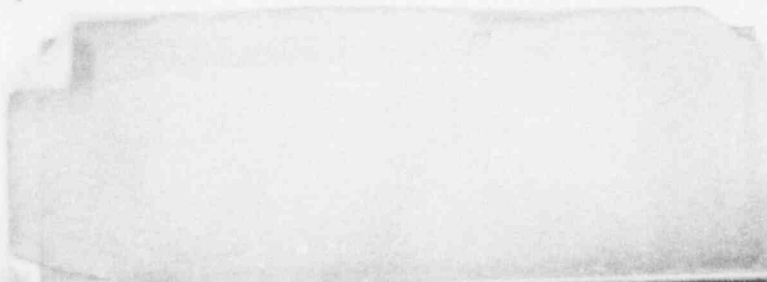
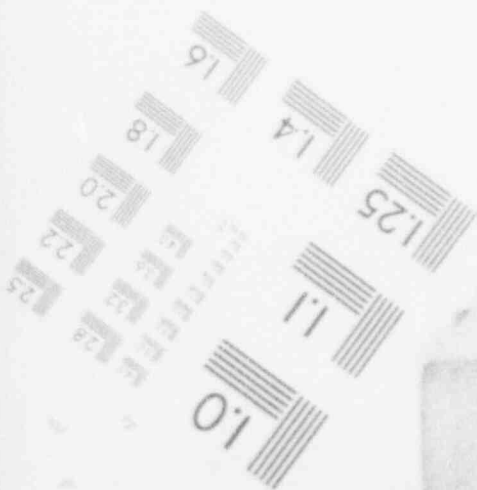
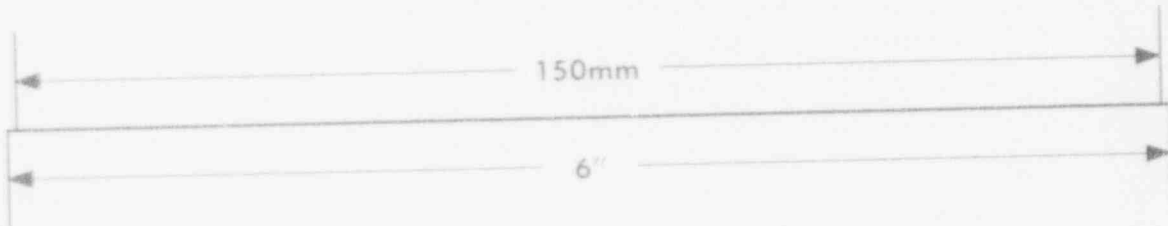
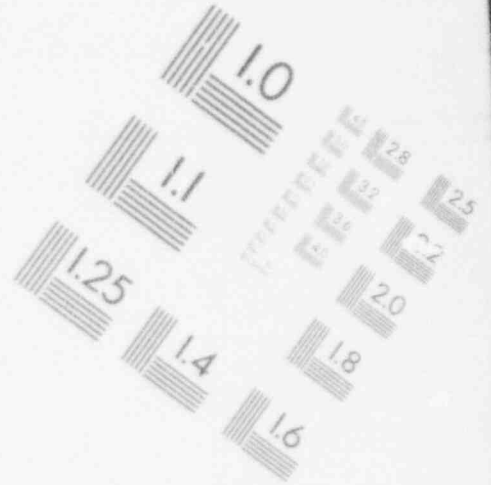
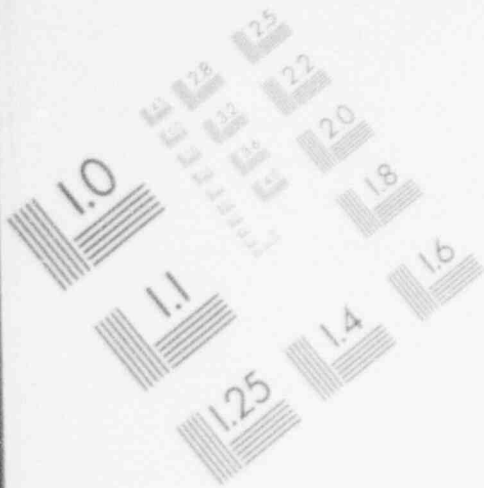
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IMAGE EVALUATION
TEST TARGET (MT-3)



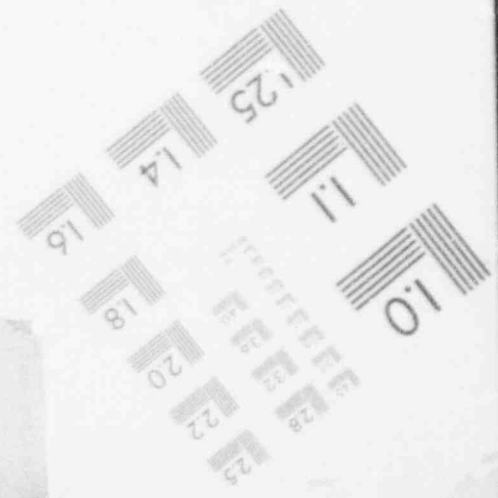
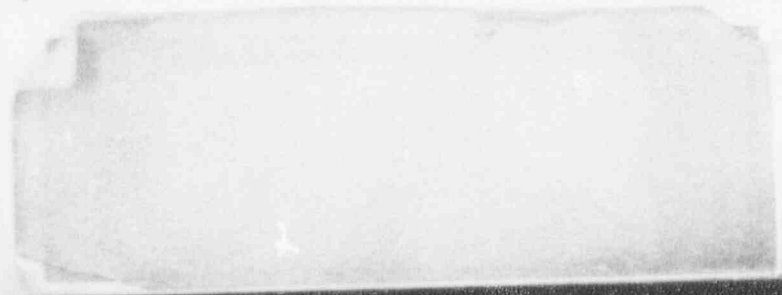
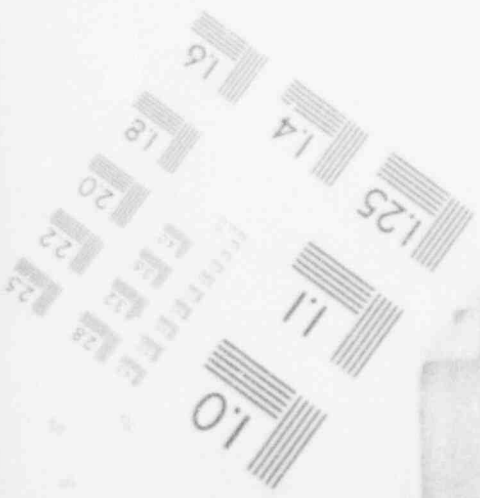
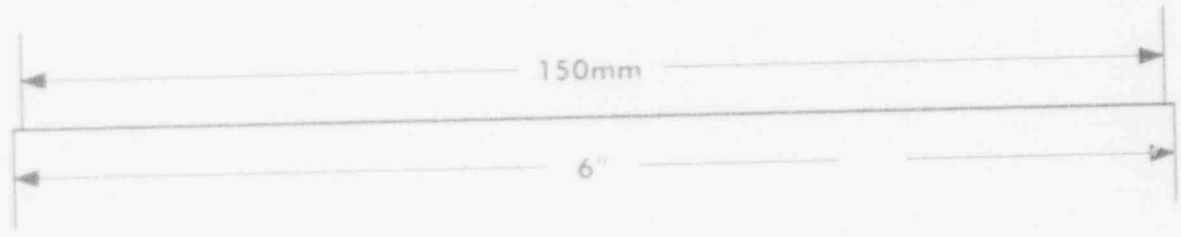
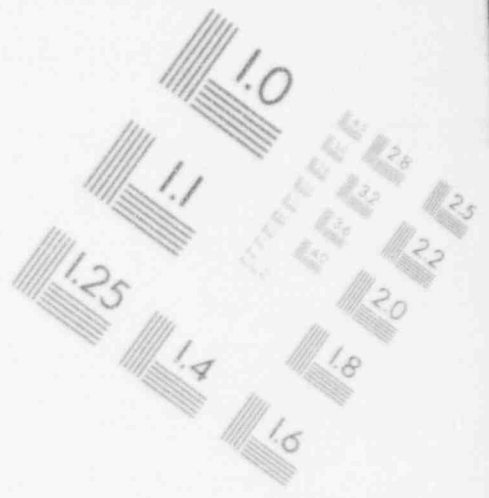
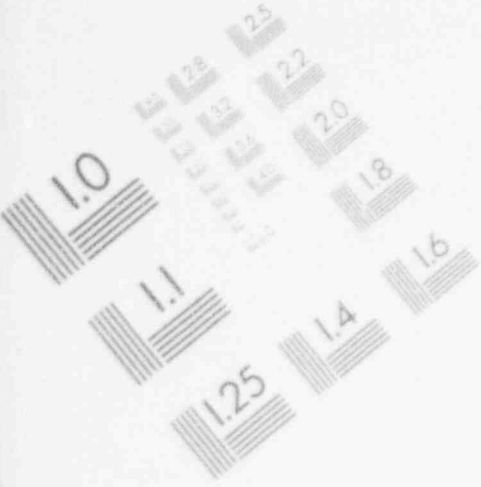
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IMAGE EVALUATION TEST TARGET (MT-3)



1

IMAGE EVALUATION TEST TARGET (MT-3)



Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repair-d 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 Sheet 1 of 1
 Address _____
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name _____
Rocky Hill Road, Plymouth, MA MR 19201592
 Address _____ Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name _____ Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address _____

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III, 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	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 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 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 1420
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

Date 5/10/93

Name

800 Boylston Street, Boston, MA

Sheet 1 of 2

Address

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

MR 19104117/PDC 91-10D

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Salt Service Water 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] QC Dir. 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 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 7-27-93

•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

Date 5-8-93

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 19301758

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Salt Service Water

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or NO)
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 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 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 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.

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 7/14/93

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 1967 Edition, — Addenda, — Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired/ Replaced or Replacement	ASME CODE Stamped (Yes or NO)
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] 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 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

Date 11/17/92

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 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 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 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 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization N/A Expiration Date _____

Signed [Signature] 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 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 Aprox. 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. Schikow QC Div Man 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.

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 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 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)
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

BECo 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 Man 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 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 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

Sheet 1 of 2

Address

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Various

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Salt Service Water

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

SUPPLEMENT SHEET

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)
<i>ppg supports</i> 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

Date 5/7/93

Name

800 Boylston Street, Boston, MA

Sheet 1 of 3

Address

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

MR 19201550/PDC 91-10E

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Salt Service Water 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 8 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: 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 [Signature] QC Div Man 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 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 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

Date 7/13/93

Name

800 Boylston Street, Boston, MA

Sheet 1 of 2

Address

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Various

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System Salt Service Water

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or NO)
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 bolting/nuts were I.A.W. BECo Pipe Spec. M-300 and appropriate MRIR #'s.
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 R. Schifone GC 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 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 19 93 *Arkwrigi.. 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 Date 12-17-92
 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 19101279
 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 Section VIII 19 86 Edition, — Addenda, ~~88-120~~ 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-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-2/B7 "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.

Inspector's Signature [Signature] Commissions MA, NB
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 3-10-93
 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 19201757
 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 Scram Discharge Volume (East & West)

5. (a) Applicable Construction Code B31.1 1977 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] 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 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 7-27-93 •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 <u>Boston Edison Company</u> Name <u>800 Boylston Street, Boston, MA</u> Address	Date <u>7/12/93</u> Sheet <u>1</u> of <u>1</u> Unit <u>#1</u> Various Repair Organization P.O. No. Job No. etc. Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
2. Plant <u>Pilgrim Nuclear Power Station</u> Name <u>Rocky Hill Road, Plymouth, MA</u> Address	
3. Work Performed by <u>Boston Edison Company</u> Name <u>Rocky Hill Road, Plymouth, MA</u> Address	

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 [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.

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 07/07/93

Name

800 Boylston Street, Boston, MA

Sheet 1 of _____

Address

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Various

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System 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 QC Dir/Mgr Date 7/92, 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 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 MA 1420
Inspector's Signature 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 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 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 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 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

Date 10-19-92

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 19202229

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 CRD Vent

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or NO)
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 QC Div Mgr 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 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. K. R. 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

Sheet 1 of 1

Address

2. Plant Pilgrim Nuclear Power Station

Unit #1

Name

Rocky Hill Road, Plymouth, MA

Various

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System 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 conform to ASME Code requirements and comply with I.A.W. B.E.C.o. procedures. P.O.E. certified applicable replacement

Applicable Manufacturer's Data Reports to be attached

parts for snubbers. Additional snubbers were tested I.A.W. B.E.C.o. 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] CPC Div Mon 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 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 Owaer'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 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 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 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 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 7-27-1993 •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 1968 Edition, --- Addenda, --- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Winter 80 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired Replaced or Replacement	ASME CODE Stamped (Yes or NO)
RV-203-3C	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 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 MSRV Pilot Assembly was rebuilt and tested by Wyle Labs, approved vendor and in accordance with PNPS Technical Specifications.
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 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 Sheet 1 of 1
 Address _____
 2. Plant Pilgrim Nuclear Power Station Unit #1
 Name _____
Rocky Hill Road, Plymouth, MA MR 19201585
 Address _____ Repair Organization P.O. No. Job No. etc.
 3. Work Performed by Boston Edison Company Type Code Symbol Stamp N/A
 Name _____ Authorization No. N/A
Rocky Hill Road, Plymouth, MA Expiration Date N/A
 Address _____

4. Identification of System Main Steam
 5. (a) Applicable Construction Code ASME 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 R. Schaefer 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.

V. G. [Signature] Commissions MA 1420
Inspector's Signature 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 4-8-93
 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 19300764
 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 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 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.

*=ASME III code interp. No. 13-1-83-16T states that no shop Hydros are needed to replace in-kind a bonnet to valve body.

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 CPC 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 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 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

Date 10-29-92

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 19202992

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System 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] QC Dir 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 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.

Inspector's Signature [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 <u>Boston Edison Company</u> Name <u>800 Boylston Street, Boston, MA</u> Address	Date <u>11-14-92</u> Sheet <u>1</u> of <u>1</u>
2. Plant <u>Pilgrim Nuclear Power Station</u> Name <u>Rocky Hill Road, Plymouth, MA</u> Address	Unit <u>#1</u> <u>MR 19200045</u> Repair Organization P.O. No. Job No. etc.
3. Work Performed by <u>Boston Edison Company</u> Name <u>Rocky Hill Road, Plymouth, MA</u> Address	Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>

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 _____ 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 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 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 MA 1420
Inspector's Signature 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 11-12-92

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 19200046

Address

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

3. Work Performed by Boston Edison Company

Type Code Symbol Stamp N/A

Name

Rocky Hill Road, Plymouth, MA

Authorization No. N/A

Address

Expiration Date N/A

4. Identification of System RHR

5. (a) Applicable Construction Code B31.1 1957 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 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 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 R. Schlo QC Div. MGR Date 7/22, 1993
Owner or Owner's Designed, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, hold...g 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.

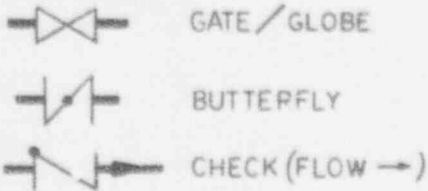
Inspector's Signature N. Ryan Commissions MA 1420
National Board, State, Province and Endorsements
Date 7-27 1993 •Arkwright Ins. Co.

SECTION 3.0

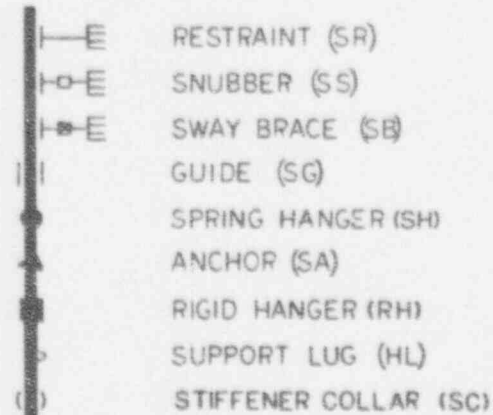
ISI ISOMETRIC DRAWINGS

SYMBOLS

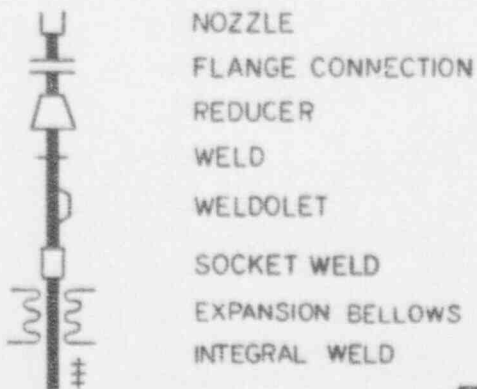
VALVES



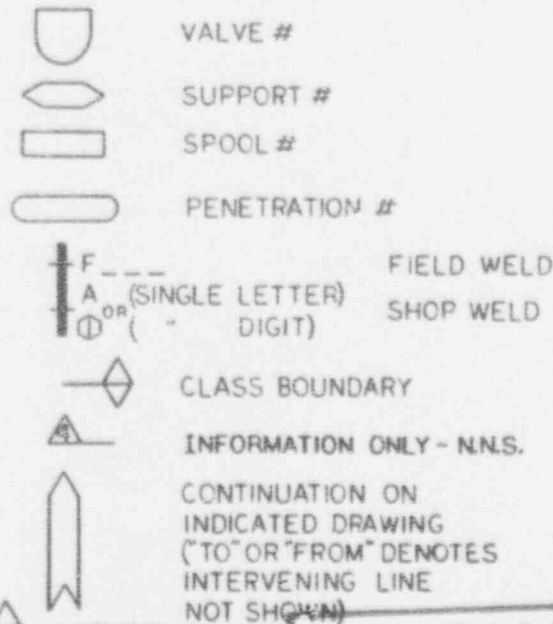
SUPPORTS



OTHER



NOTATION



IDENTIFICATION

ID #s CONSIST OF;
VALVES
G.E. SUPPLIED -- 01 --
(MANUAL/MO/IO/CK/SYS #) (VLV #)
HAND OPERATED -- HO --
(SYS #) (VLV #)
CHECK VALVE -- CK --
(SYS #) (VLV #)

SUPPORTS

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

WELDS (CLASS 2)

SHOP

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

FIELD

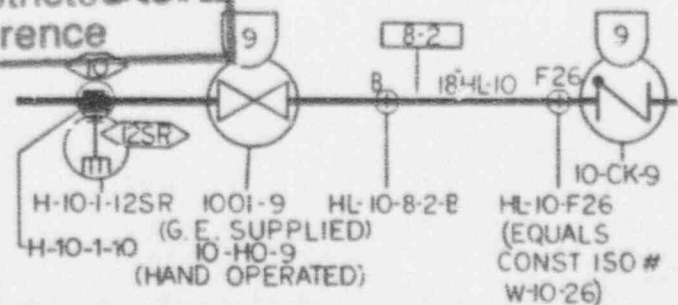
-- F --
(LINE #) (WELD #)

ABBREVIATIONS
PS - PIPE STANCHION
OR TRUNNION

INFORMATION ONLY
Use restricted reference

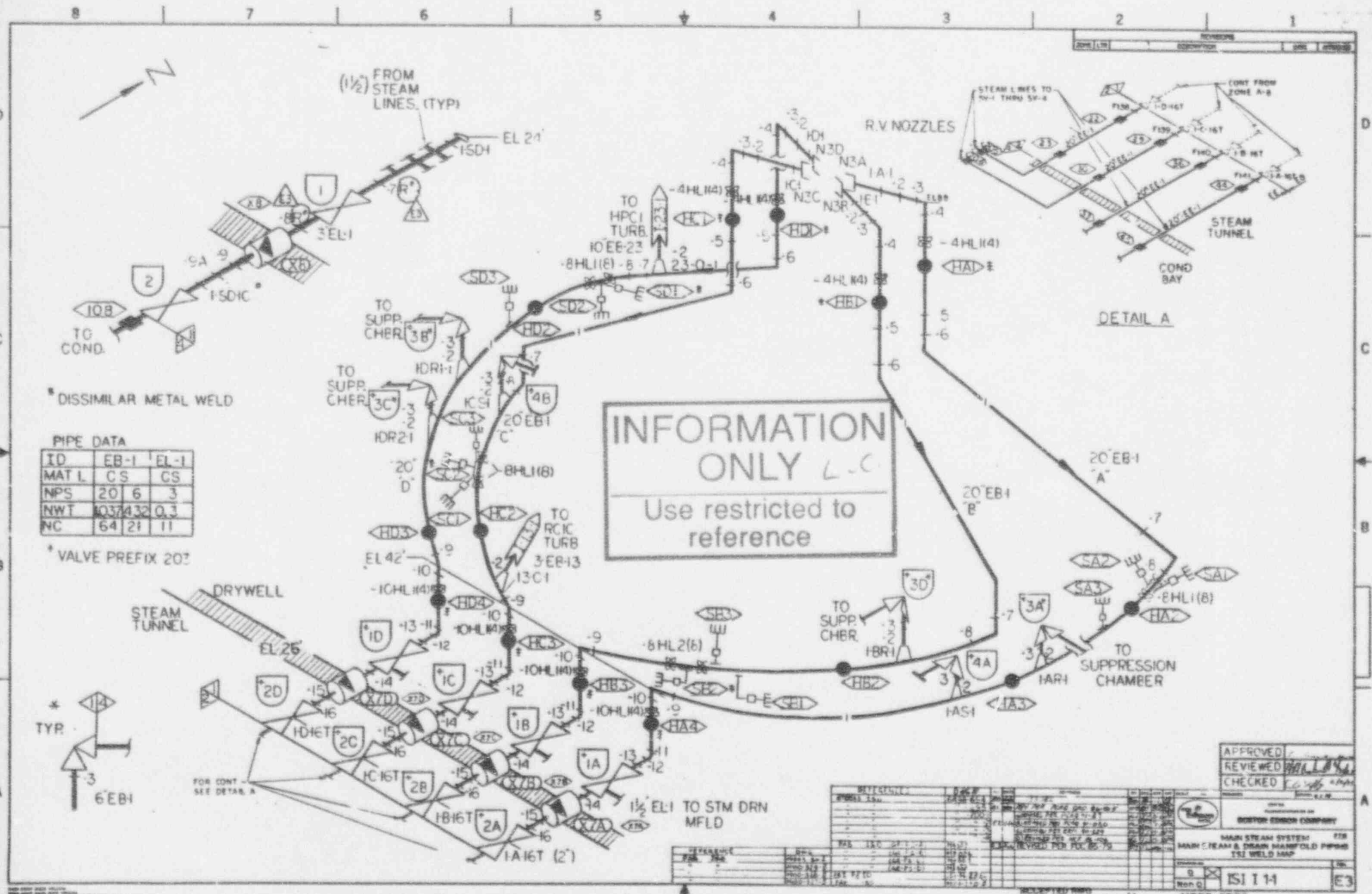
PIPE DATA

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



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

BOSTON EDISON COMPANY ISOMETRIC LEGEND IST WELD MAP ISI I O	
APPROVED RMD DATE <i>1/12/00</i>	#1600-3901



PIPE SIZE	DESCRIPTION	MAT. L.	WELD
20"	CS	CS	



(1/2) FROM STEAM LINES (TYP)

* DISSIMILAR METAL WELD

PIPE DATA

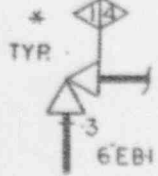
ID	EB-1	EL-1
MAT L	CS	CS
NPS	20	6
NWT	1037432	0.3
NC	64	21

* VALVE PREFIX 20"

INFORMATION ONLY
 Use restricted to reference

DETAIL A

DRYWELL
STEAM TUNNEL
EL 25



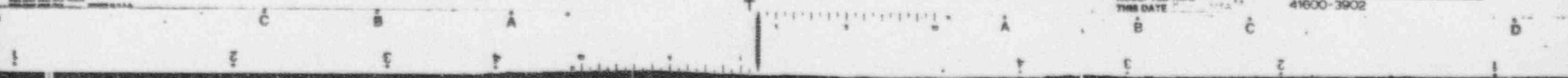
FOR CONT SEE DETAL A

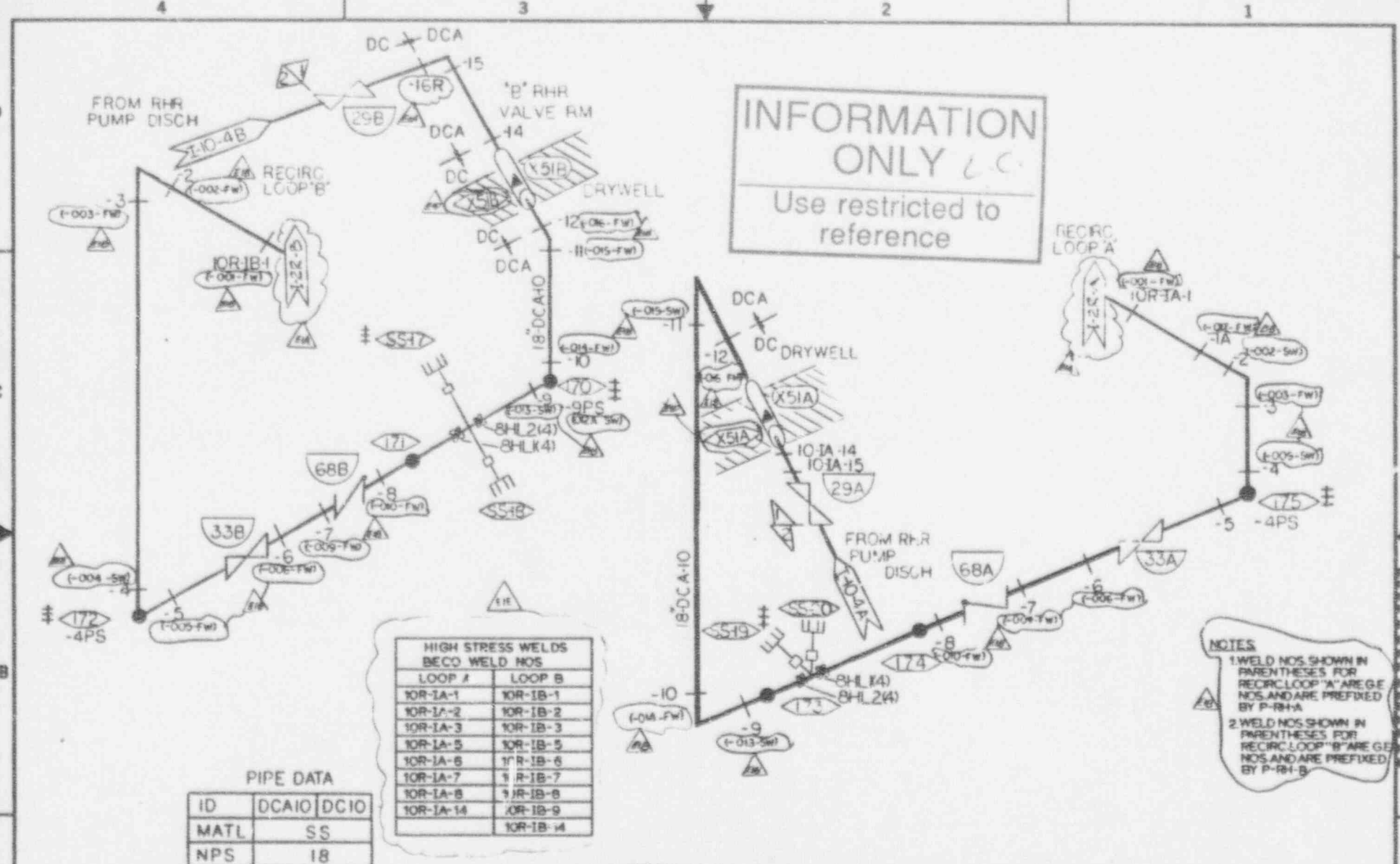
DATE	BY	CHKD	APPD
10/23/73

REVISION	DATE	DESCRIPTION
1	10/23/73	...
2

APPROVED
REVIEWED
CHECKED

BOSTON EDISON COMPANY
MAIN STEAM SYSTEM
MAIN C-TEAM & DRAIN MANIFOLD PIPING
1/2" WELD MAP
41600-3902





INFORMATION ONLY
Use restricted to reference

HIGH STRESS WELDS
BECCO WELD NOS

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

PIPE DATA

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

NOTES

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

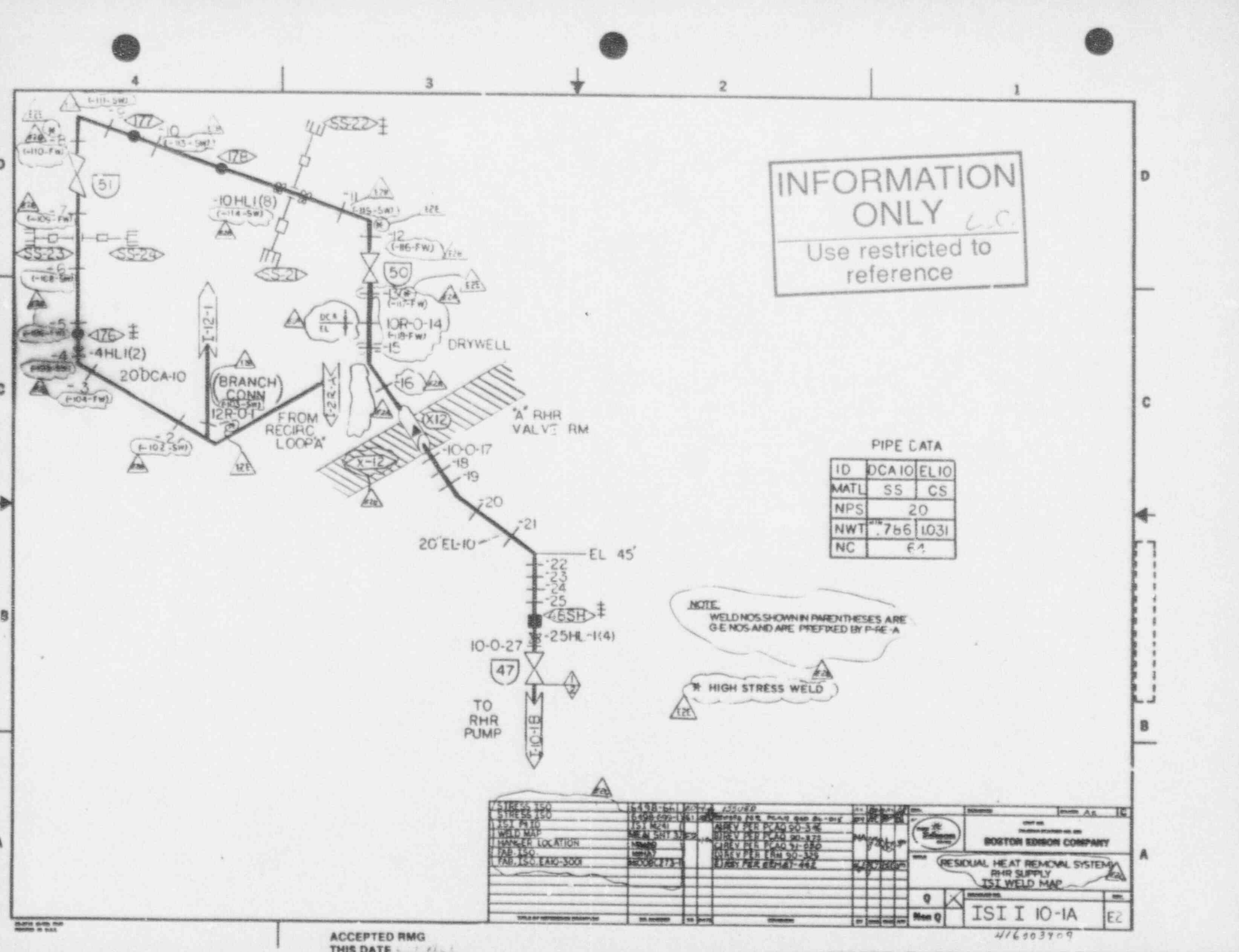
STRONG 200 (LOOP A)	0-000 - 001	1-000 - 001	2-000 - 001	3-000 - 001	4-000 - 001	5-000 - 001	6-000 - 001	7-000 - 001	8-000 - 001	9-000 - 001	10-000 - 001	11-000 - 001	12-000 - 001	13-000 - 001	14-000 - 001	15-000 - 001	16-000 - 001	17-000 - 001	18-000 - 001	19-000 - 001	20-000 - 001	21-000 - 001	22-000 - 001	23-000 - 001	24-000 - 001	25-000 - 001	26-000 - 001	27-000 - 001	28-000 - 001	29-000 - 001	30-000 - 001	31-000 - 001	32-000 - 001	33-000 - 001	34-000 - 001	35-000 - 001	36-000 - 001	37-000 - 001	38-000 - 001	39-000 - 001	40-000 - 001	41-000 - 001	42-000 - 001	43-000 - 001	44-000 - 001	45-000 - 001	46-000 - 001	47-000 - 001	48-000 - 001	49-000 - 001	50-000 - 001	51-000 - 001	52-000 - 001	53-000 - 001	54-000 - 001	55-000 - 001	56-000 - 001	57-000 - 001	58-000 - 001	59-000 - 001	60-000 - 001	61-000 - 001	62-000 - 001	63-000 - 001	64-000 - 001	65-000 - 001	66-000 - 001	67-000 - 001	68-000 - 001	69-000 - 001	70-000 - 001	71-000 - 001	72-000 - 001	73-000 - 001	74-000 - 001	75-000 - 001	76-000 - 001	77-000 - 001	78-000 - 001	79-000 - 001	80-000 - 001	81-000 - 001	82-000 - 001	83-000 - 001	84-000 - 001	85-000 - 001	86-000 - 001	87-000 - 001	88-000 - 001	89-000 - 001	90-000 - 001	91-000 - 001	92-000 - 001	93-000 - 001	94-000 - 001	95-000 - 001	96-000 - 001	97-000 - 001	98-000 - 001	99-000 - 001	100-000 - 001
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BOSTON EDISON COMPANY
RESIDUAL HEAT REMOVAL SYSTEM
RHR PIPING LOOPS A & B
1ST WELD MAP

101101 E1

ACCEPTED RMD

4600-3908



INFORMATION ONLY
Use restricted to reference

PIPE DATA

ID	DCA10	EL10
MATL	SS	CS
NPS	20	
NWT	.766	1.031
NC	E1	

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

*** HIGH STRESS WELD**

STRESS 150	1-1-1968	1-1-1968	ISSUED
STRESS 250	1-1-1968	1-1-1968	ISSUED
WELD MAP	1-1-1968	1-1-1968	ISSUED
WARRANTY LOCATION	1-1-1968	1-1-1968	ISSUED
FAB. 150	1-1-1968	1-1-1968	ISSUED
FAB. 150 EAK-3000	1-1-1968	1-1-1968	ISSUED

BOSTON EDISON COMPANY

**RESIDUAL HEAT REMOVAL SYSTEM
RHR SUPPLY
TST WELD MAP**

REVISION: 0

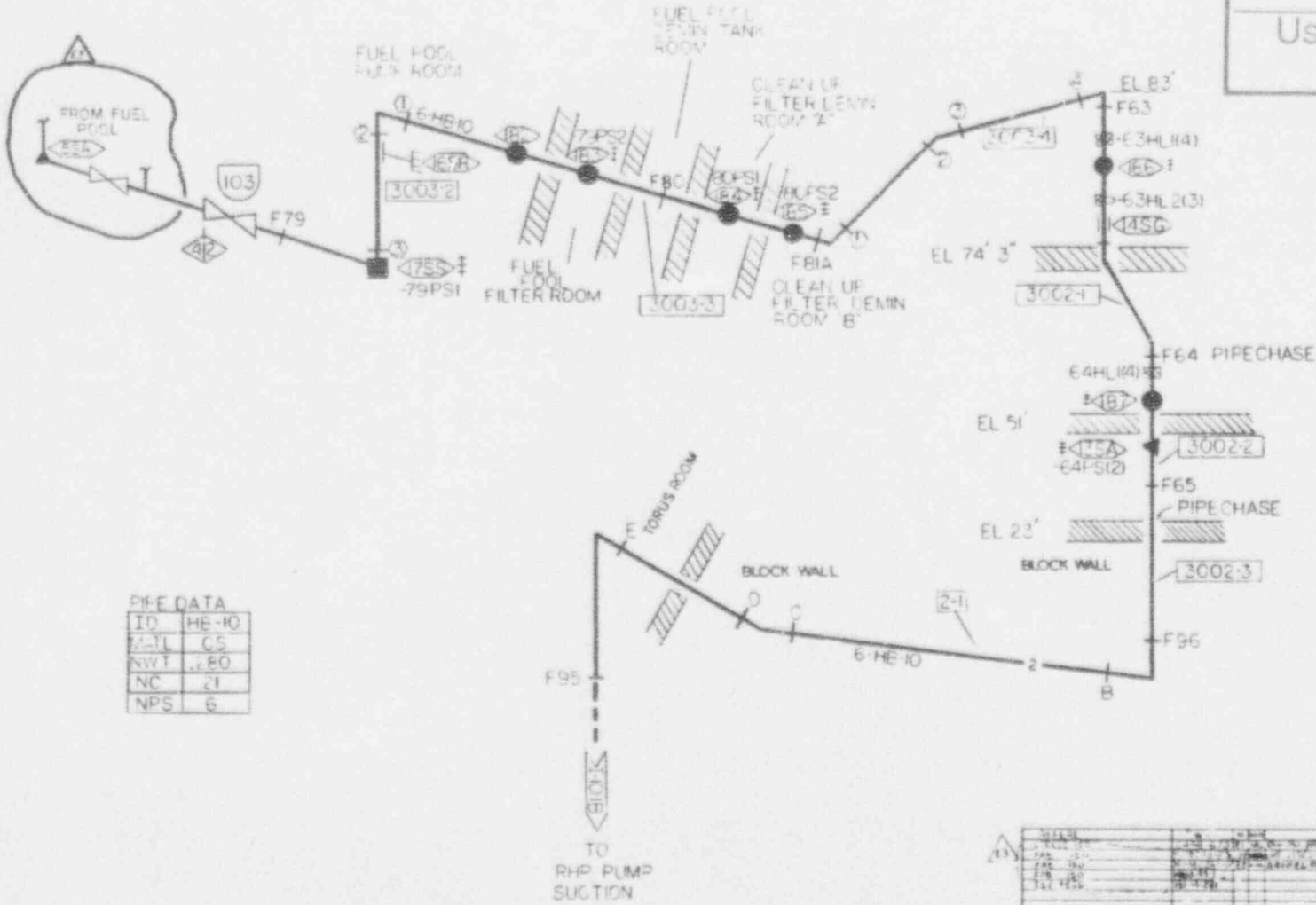
ISI I 10-1A E2

476903909

ACCEPTED RMG
THIS DATE _____

NO.	DESCRIPTION	DATE	APPROVED

INFORMATION ONLY
 Use restricted to reference



PIPE DATA

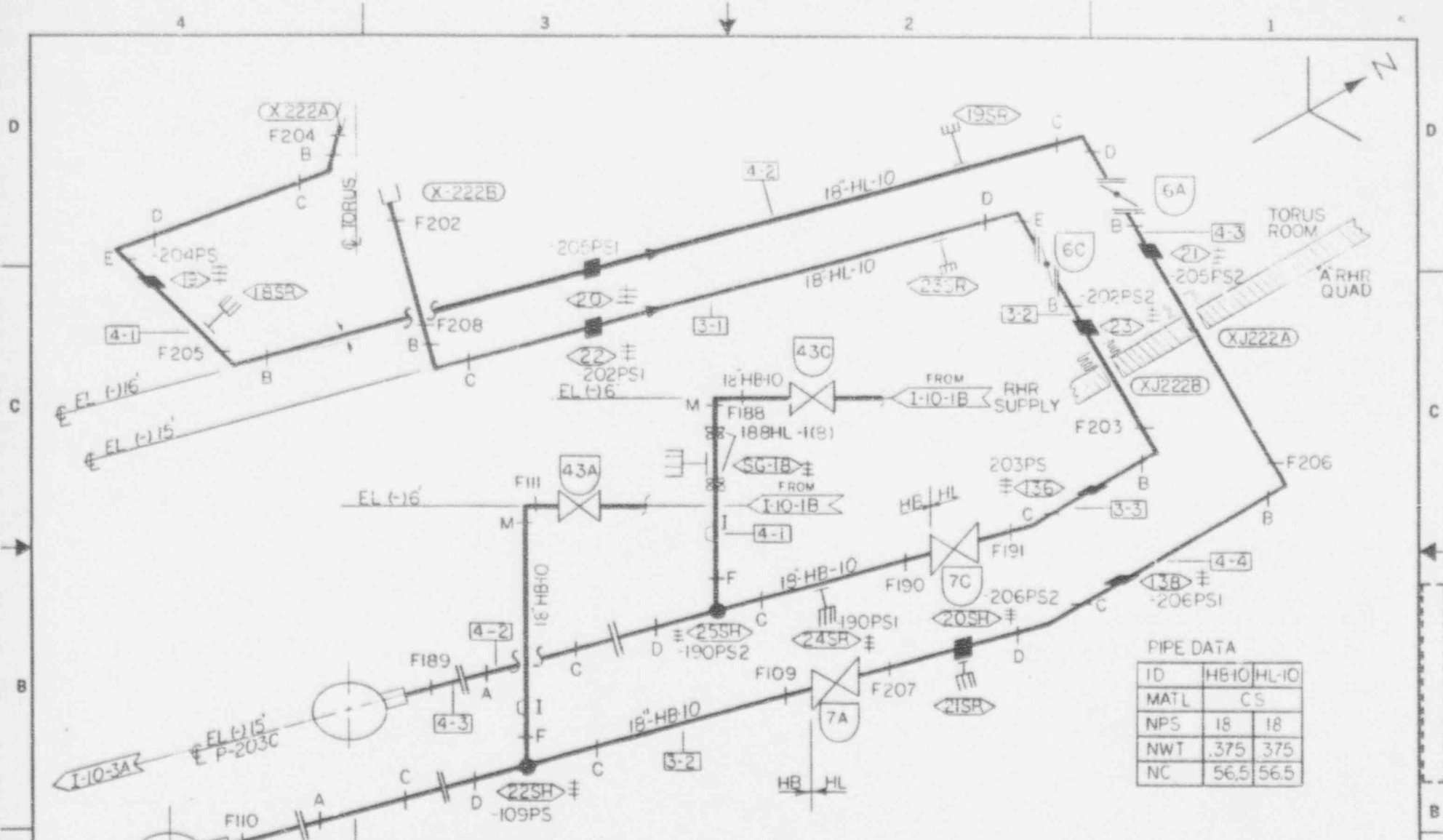
ID	HE-10
A-L	C5
NWT	0.80
NC	21
NPS	6

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

NO.	DESCRIPTION	DATE	APPROVED

BOSTON Edison COMPANY
 Fuel Pool Cooling to RHP
 SUS-TION RECONNECT SEE WELD MAP
 ISI 10-1C E.P.

ACCEPTED THIS DATE



PIPE DATA

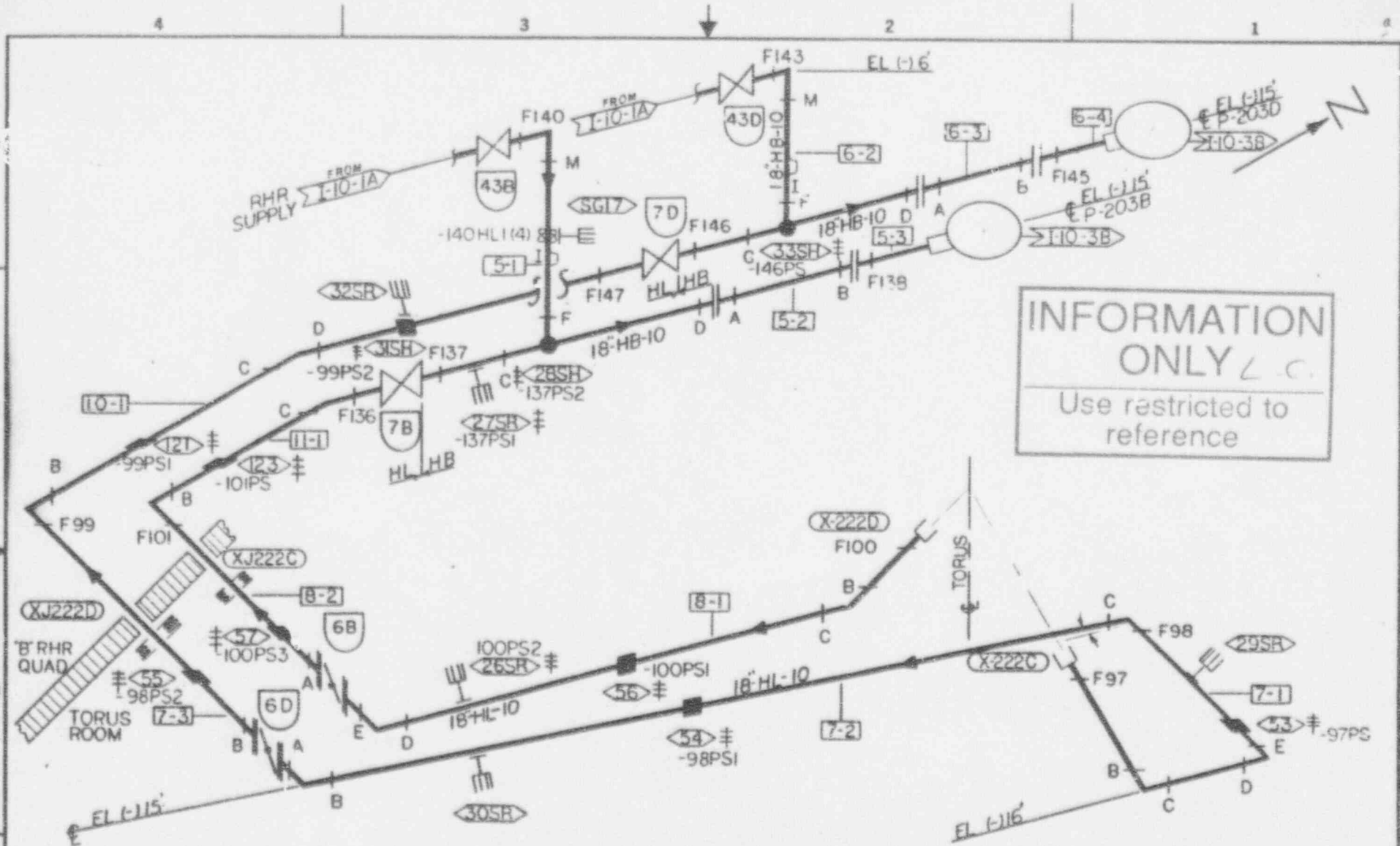
ID	HB-10	HL-10
MATL	CS	
NPS	18	18
NWT	.375	.375
NC	56.5	56.5

INFORMATION ONLY
Use restricted to reference

ITEM NO.	DESCRIPTION	QTY	UNIT	REVISION
1	STEEL I&O	6.50	LB	
2	STRESS I&O	6.50	LB	
3	PAW I&O	1.00	EA	
4	PAW I&O	1.00	EA	
5	PAW I&O	1.00	EA	
6	PAW I&O	1.00	EA	
7	PAW I&O	1.00	EA	
8	PAW I&O	1.00	EA	
9	PAW I&O	1.00	EA	
10	PAW I&O	1.00	EA	

APPROVED	
REVIEWED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>
DATE	10/20/00
BOSTON EDISON COMPANY	
RHR SYSTEM RHR PUMPS P203A/C SUCTION ISI WELD MAP	
Q	<input checked="" type="checkbox"/>
Non Q	<input type="checkbox"/>
IS I 10-2A	e2

ACCEPTED RMG
THIS DATE _____



INFORMATION
ONLY \angle C
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	QUANTITY	REMARKS
1	18\"/>		

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

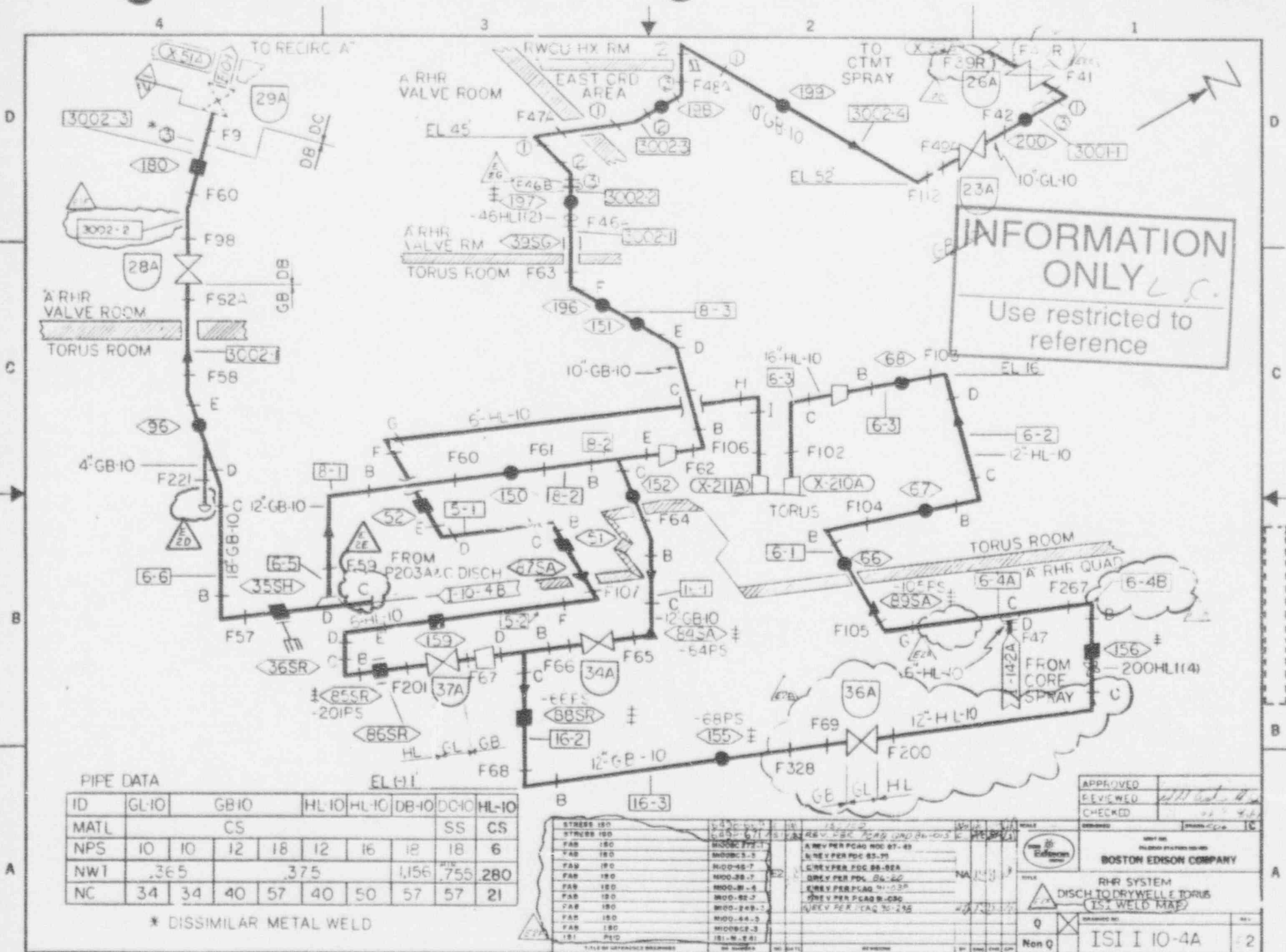
BOSTON Edison COMPANY

RHR SYSTEM
 RHR PUMPS PROPOSED SUCTION
 ISI WELD MAP

PROJECT NO. **ISI-I-10-2B**

DATE **11/10/88**

BY **EL**



INFORMATION ONLY
Use restricted to reference

PIPE DATA

ID	GL-10	GB-10	HL-10	HL-10	DB-10	DC-10	HL-10	
MATL	CS						SS	CS
NPS	10	10	12	18	12	16	18	
NWT	.365		.375		1.156	.755	.280	
NC	34	34	40	57	40	50	57	

* DISSIMILAR METAL WELD

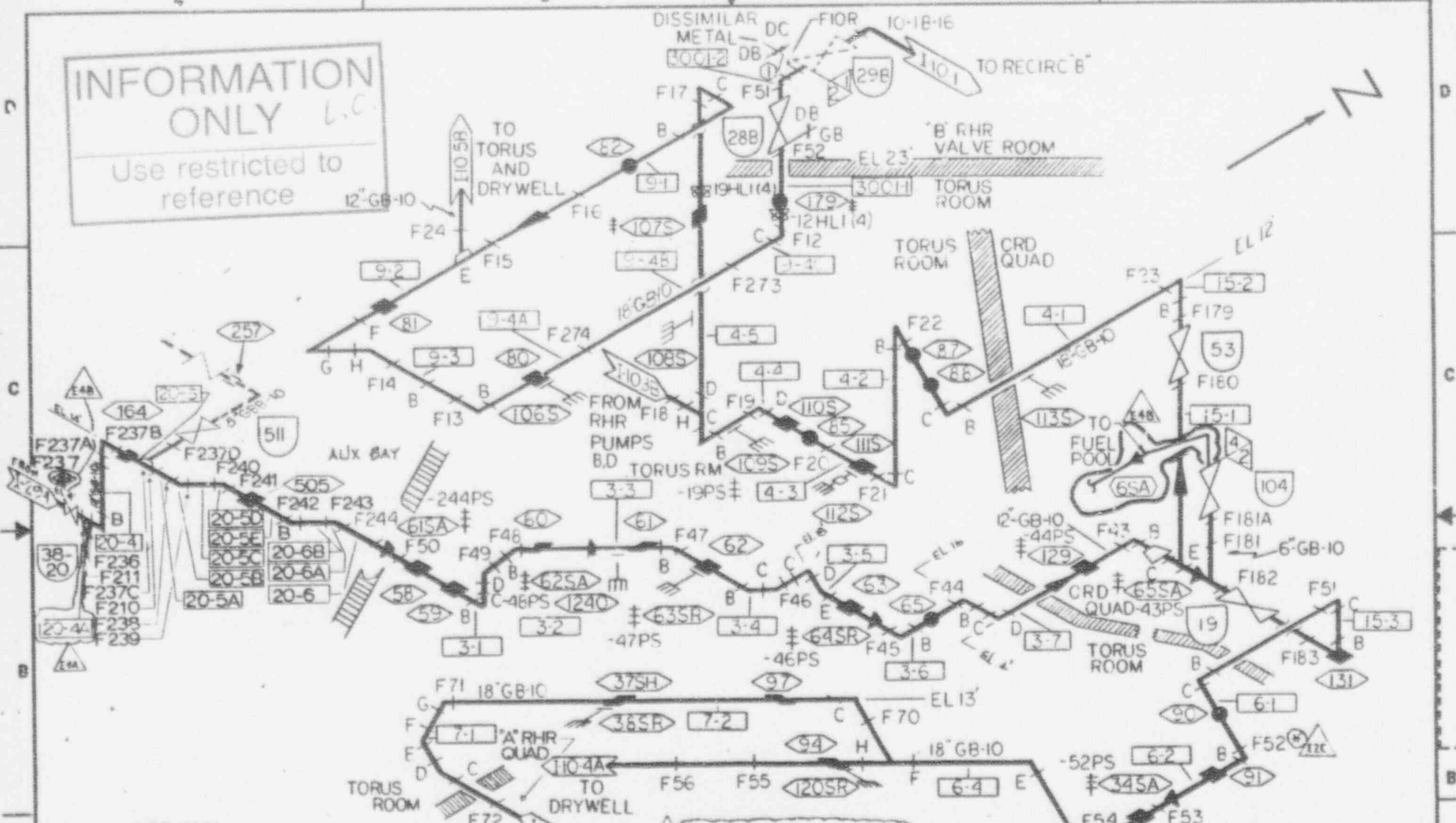
STRESS ISO	STRESS ISO	STRESS ISO	STRESS ISO
FAB 180	MOD-3-1	MOD-3-2	MOD-3-3
FAB 180	MOD-3-4	MOD-3-5	MOD-3-6
FAB 180	MOD-3-7	MOD-3-8	MOD-3-9
FAB 180	MOD-3-10	MOD-3-11	MOD-3-12
FAB 180	MOD-3-13	MOD-3-14	MOD-3-15
FAB 180	MOD-3-16	MOD-3-17	MOD-3-18
FAB 180	MOD-3-19	MOD-3-20	MOD-3-21
FAB 180	MOD-3-22	MOD-3-23	MOD-3-24
FAB 180	MOD-3-25	MOD-3-26	MOD-3-27
FAB 180	MOD-3-28	MOD-3-29	MOD-3-30
FAB 180	MOD-3-31	MOD-3-32	MOD-3-33
FAB 180	MOD-3-34	MOD-3-35	MOD-3-36
FAB 180	MOD-3-37	MOD-3-38	MOD-3-39
FAB 180	MOD-3-40	MOD-3-41	MOD-3-42
FAB 180	MOD-3-43	MOD-3-44	MOD-3-45
FAB 180	MOD-3-46	MOD-3-47	MOD-3-48
FAB 180	MOD-3-49	MOD-3-50	MOD-3-51
FAB 180	MOD-3-52	MOD-3-53	MOD-3-54
FAB 180	MOD-3-55	MOD-3-56	MOD-3-57
FAB 180	MOD-3-58	MOD-3-59	MOD-3-60
FAB 180	MOD-3-61	MOD-3-62	MOD-3-63
FAB 180	MOD-3-64	MOD-3-65	MOD-3-66
FAB 180	MOD-3-67	MOD-3-68	MOD-3-69
FAB 180	MOD-3-70	MOD-3-71	MOD-3-72
FAB 180	MOD-3-73	MOD-3-74	MOD-3-75
FAB 180	MOD-3-76	MOD-3-77	MOD-3-78
FAB 180	MOD-3-79	MOD-3-80	MOD-3-81
FAB 180	MOD-3-82	MOD-3-83	MOD-3-84
FAB 180	MOD-3-85	MOD-3-86	MOD-3-87
FAB 180	MOD-3-88	MOD-3-89	MOD-3-90
FAB 180	MOD-3-91	MOD-3-92	MOD-3-93
FAB 180	MOD-3-94	MOD-3-95	MOD-3-96
FAB 180	MOD-3-97	MOD-3-98	MOD-3-99
FAB 180	MOD-3-100	MOD-3-101	MOD-3-102
FAB 180	MOD-3-103	MOD-3-104	MOD-3-105
FAB 180	MOD-3-106	MOD-3-107	MOD-3-108
FAB 180	MOD-3-109	MOD-3-110	MOD-3-111
FAB 180	MOD-3-112	MOD-3-113	MOD-3-114
FAB 180	MOD-3-115	MOD-3-116	MOD-3-117
FAB 180	MOD-3-118	MOD-3-119	MOD-3-120
FAB 180	MOD-3-121	MOD-3-122	MOD-3-123
FAB 180	MOD-3-124	MOD-3-125	MOD-3-126
FAB 180	MOD-3-127	MOD-3-128	MOD-3-129
FAB 180	MOD-3-130	MOD-3-131	MOD-3-132
FAB 180	MOD-3-133	MOD-3-134	MOD-3-135
FAB 180	MOD-3-136	MOD-3-137	MOD-3-138
FAB 180	MOD-3-139	MOD-3-140	MOD-3-141
FAB 180	MOD-3-142	MOD-3-143	MOD-3-144
FAB 180	MOD-3-145	MOD-3-146	MOD-3-147
FAB 180	MOD-3-148	MOD-3-149	MOD-3-150
FAB 180	MOD-3-151	MOD-3-152	MOD-3-153
FAB 180	MOD-3-154	MOD-3-155	MOD-3-156
FAB 180	MOD-3-157	MOD-3-158	MOD-3-159
FAB 180	MOD-3-160	MOD-3-161	MOD-3-162
FAB 180	MOD-3-163	MOD-3-164	MOD-3-165
FAB 180	MOD-3-166	MOD-3-167	MOD-3-168
FAB 180	MOD-3-169	MOD-3-170	MOD-3-171
FAB 180	MOD-3-172	MOD-3-173	MOD-3-174
FAB 180	MOD-3-175	MOD-3-176	MOD-3-177
FAB 180	MOD-3-178	MOD-3-179	MOD-3-180
FAB 180	MOD-3-181	MOD-3-182	MOD-3-183
FAB 180	MOD-3-184	MOD-3-185	MOD-3-186
FAB 180	MOD-3-187	MOD-3-188	MOD-3-189
FAB 180	MOD-3-190	MOD-3-191	MOD-3-192
FAB 180	MOD-3-193	MOD-3-194	MOD-3-195
FAB 180	MOD-3-196	MOD-3-197	MOD-3-198
FAB 180	MOD-3-199	MOD-3-200	MOD-3-201
FAB 180	MOD-3-202	MOD-3-203	MOD-3-204
FAB 180	MOD-3-205	MOD-3-206	MOD-3-207
FAB 180	MOD-3-208	MOD-3-209	MOD-3-210
FAB 180	MOD-3-211	MOD-3-212	MOD-3-213
FAB 180	MOD-3-214	MOD-3-215	MOD-3-216
FAB 180	MOD-3-217	MOD-3-218	MOD-3-219
FAB 180	MOD-3-220	MOD-3-221	MOD-3-222
FAB 180	MOD-3-223	MOD-3-224	MOD-3-225
FAB 180	MOD-3-226	MOD-3-227	MOD-3-228
FAB 180	MOD-3-229	MOD-3-230	MOD-3-231
FAB 180	MOD-3-232	MOD-3-233	MOD-3-234
FAB 180	MOD-3-235	MOD-3-236	MOD-3-237
FAB 180	MOD-3-238	MOD-3-239	MOD-3-240
FAB 180	MOD-3-241	MOD-3-242	MOD-3-243
FAB 180	MOD-3-244	MOD-3-245	MOD-3-246
FAB 180	MOD-3-247	MOD-3-248	MOD-3-249
FAB 180	MOD-3-250	MOD-3-251	MOD-3-252
FAB 180	MOD-3-253	MOD-3-254	MOD-3-255
FAB 180	MOD-3-256	MOD-3-257	MOD-3-258
FAB 180	MOD-3-259	MOD-3-260	MOD-3-261
FAB 180	MOD-3-262	MOD-3-263	MOD-3-264
FAB 180	MOD-3-265	MOD-3-266	MOD-3-267
FAB 180	MOD-3-268	MOD-3-269	MOD-3-270
FAB 180	MOD-3-271	MOD-3-272	MOD-3-273
FAB 180	MOD-3-274	MOD-3-275	MOD-3-276
FAB 180	MOD-3-277	MOD-3-278	MOD-3-279
FAB 180	MOD-3-280	MOD-3-281	MOD-3-282
FAB 180	MOD-3-283	MOD-3-284	MOD-3-285
FAB 180	MOD-3-286	MOD-3-287	MOD-3-288
FAB 180	MOD-3-289	MOD-3-290	MOD-3-291
FAB 180	MOD-3-292	MOD-3-293	MOD-3-294
FAB 180	MOD-3-295	MOD-3-296	MOD-3-297
FAB 180	MOD-3-298	MOD-3-299	MOD-3-300

APPROVED	
REVIEWED	
CHECKED	
DATE	
BOSTON EDISON COMPANY	
RHR SYSTEM	
DISCH TO DRYWELL & TORUS	
(SI WELD MAP)	
Q	Non Q
ISI I 10-4A	2

ACCEPTED RMG
THIS DATE

INFORMATION ONLY L.C.

Use restricted to reference



PIPE DATA

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

FROM RHR PUMPS A,C

EX * HIGH STRESS WELD

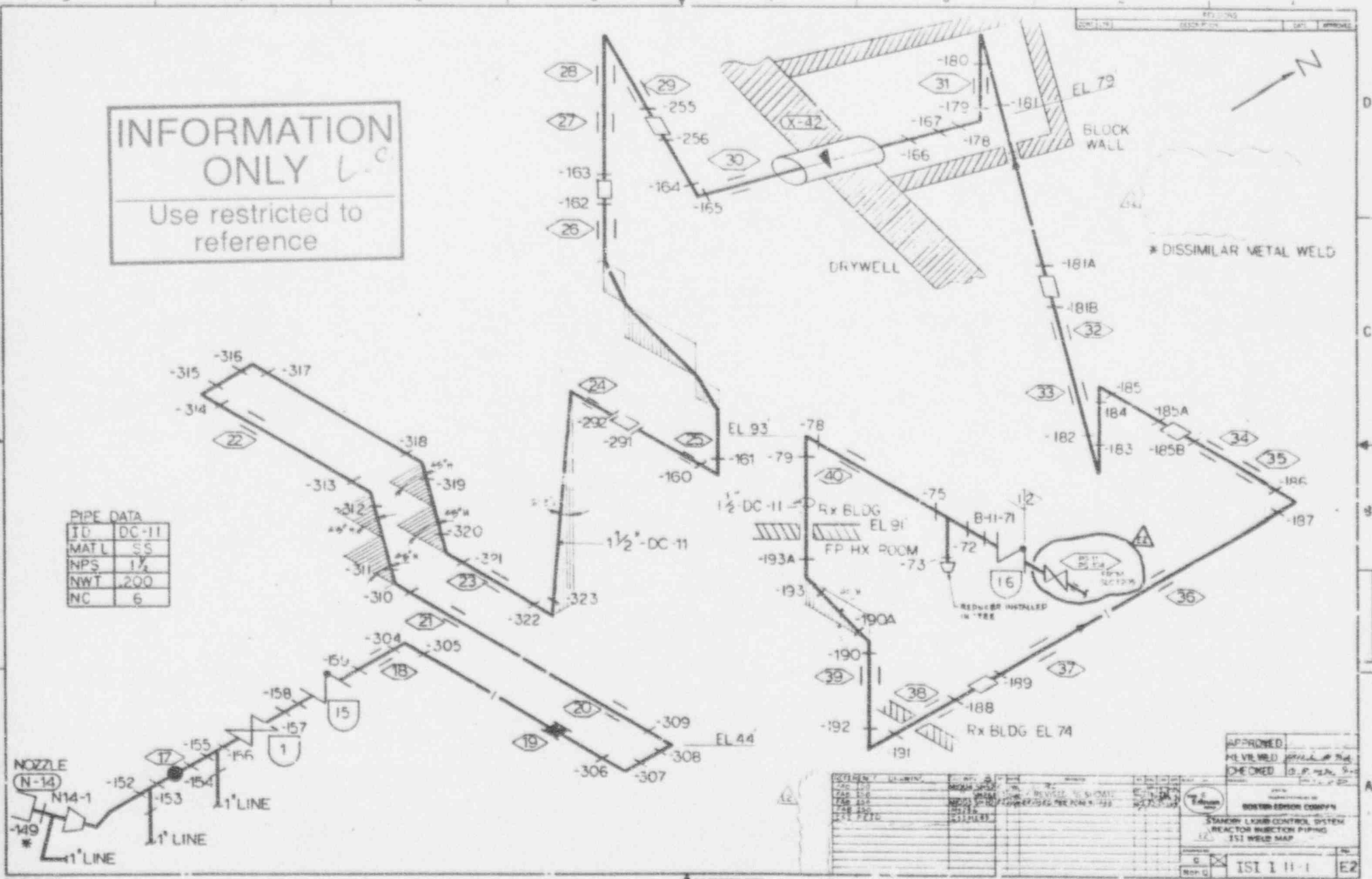
ITEM #	DESCRIPTION	DATE	BY	CHKD
1	ISSUED	10-18-16		
2	REVISED			
3	REVISED			
4	REVISED			
5	REVISED			
6	REVISED			
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99	REVISED			
100	REVISED			

APPROVED
 REVIEWED
 CHECKED

BOSTON EDISON COMPANY
 RHR SYSTEM
 RHR SYSTEM X-CONNECT DISCHARGE
 IS2 WELD MAP
 ISI I 10-4 B
 E4

INFORMATION ONLY
L.C.
 Use restricted to reference

PIPE DATA	
ID	DC-11
MATL	SS
NPS	1 1/4
NWT	200
NC	6



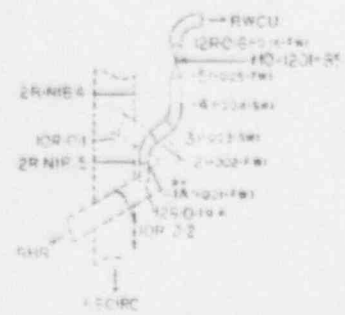
NO.	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR CONSTRUCTION	12/15/88	J. J. [unclear]	[unclear]
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
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37	REVISION			
38	REVISION			
39	REVISION			
40	REVISION			

APPROVED: [Signature]
 CHECKED: [Signature]
 BOSTON Edison COMPANY
 STANLEY LEAK CONTROL SYSTEM
 REACTOR INJECTION PIPING
 ISI WELD MAP
 ISI 111-1 E2

ACCEPTED AND THIS DATE

8 7 6 5 4 3 2 1

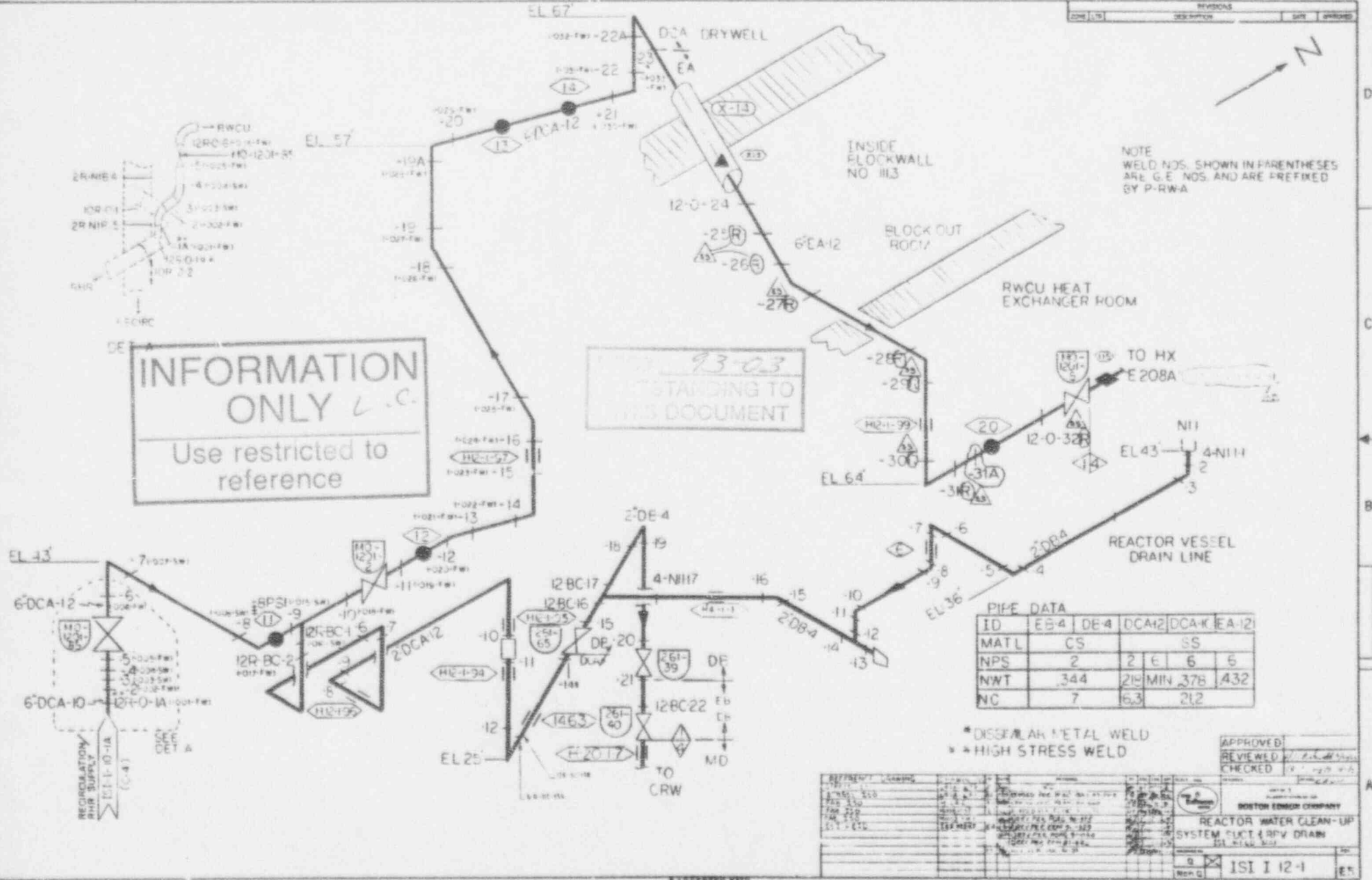
LINE NO.	REVISION	DATE	APPROVED



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	EA-4	DE-4	DCA12	DCA16	EA-12
MATL	CS				SS
NPS	2	2	6	6	6
NWT	344	219	MIN 376	432	
NC	7	6.3	21.2		

* DISSIMILAR METAL WELD
** HIGH STRESS WELD

APPROVED: _____
REVIEWED: _____
CHECKED: _____

REVISION	DATE	BY	CHKD	APPD

BOSTON EDISON COMPANY
REACTOR WATER CLEAN-UP SYSTEM (UCT & RWU DRAIN)

ISI I 12-1

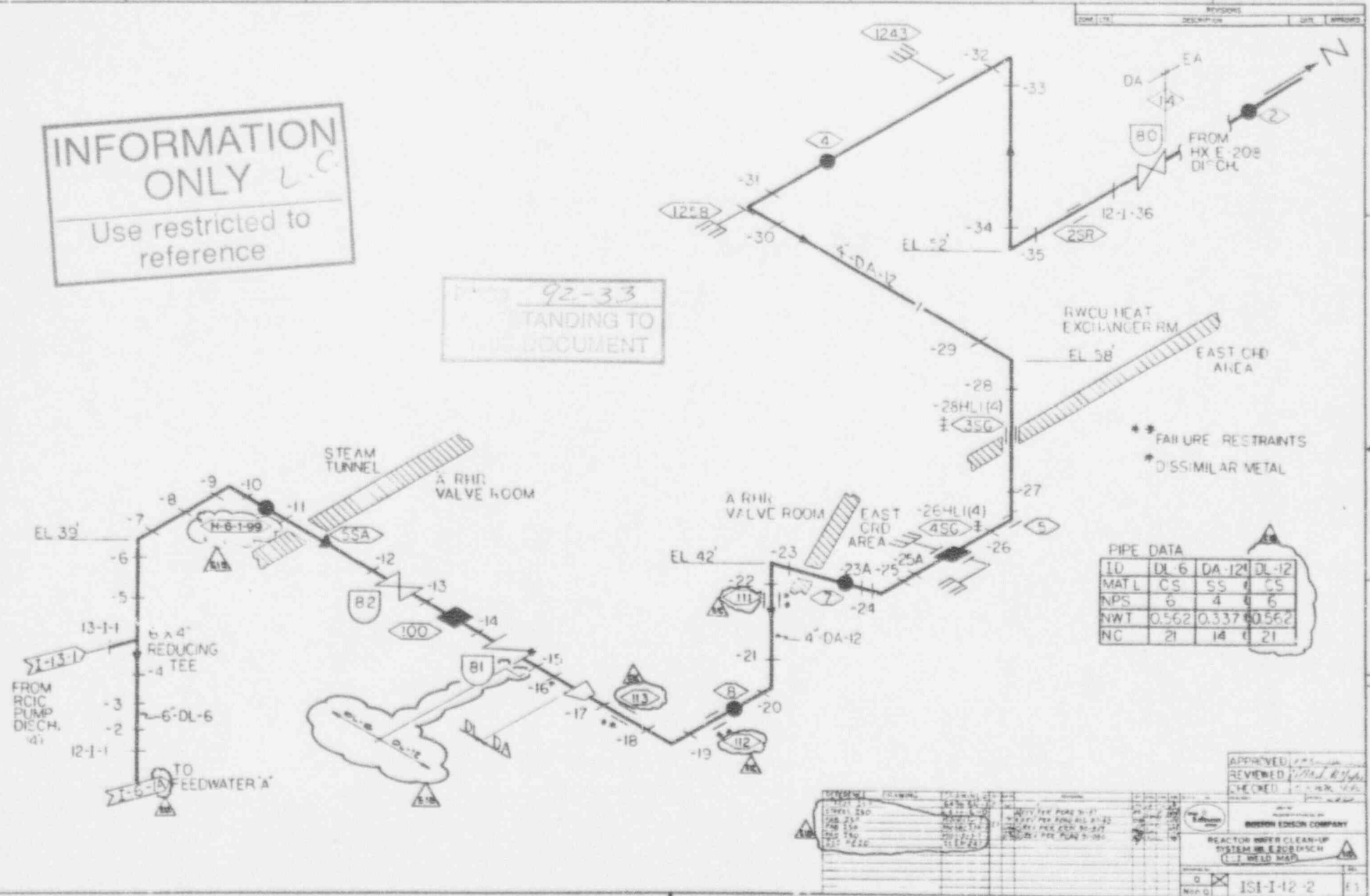
ACCEPTED THIS DATE _____

C B A A B C D

INFORMATION ONLY
 Use restricted to reference

92-33
 STANDING TO THIS DOCUMENT

NO.	DESCRIPTION	DATE	APPROVED



** FAILURE RESTRAINTS
 * DISSIMILAR METAL

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

NO.	DATE	DESCRIPTION

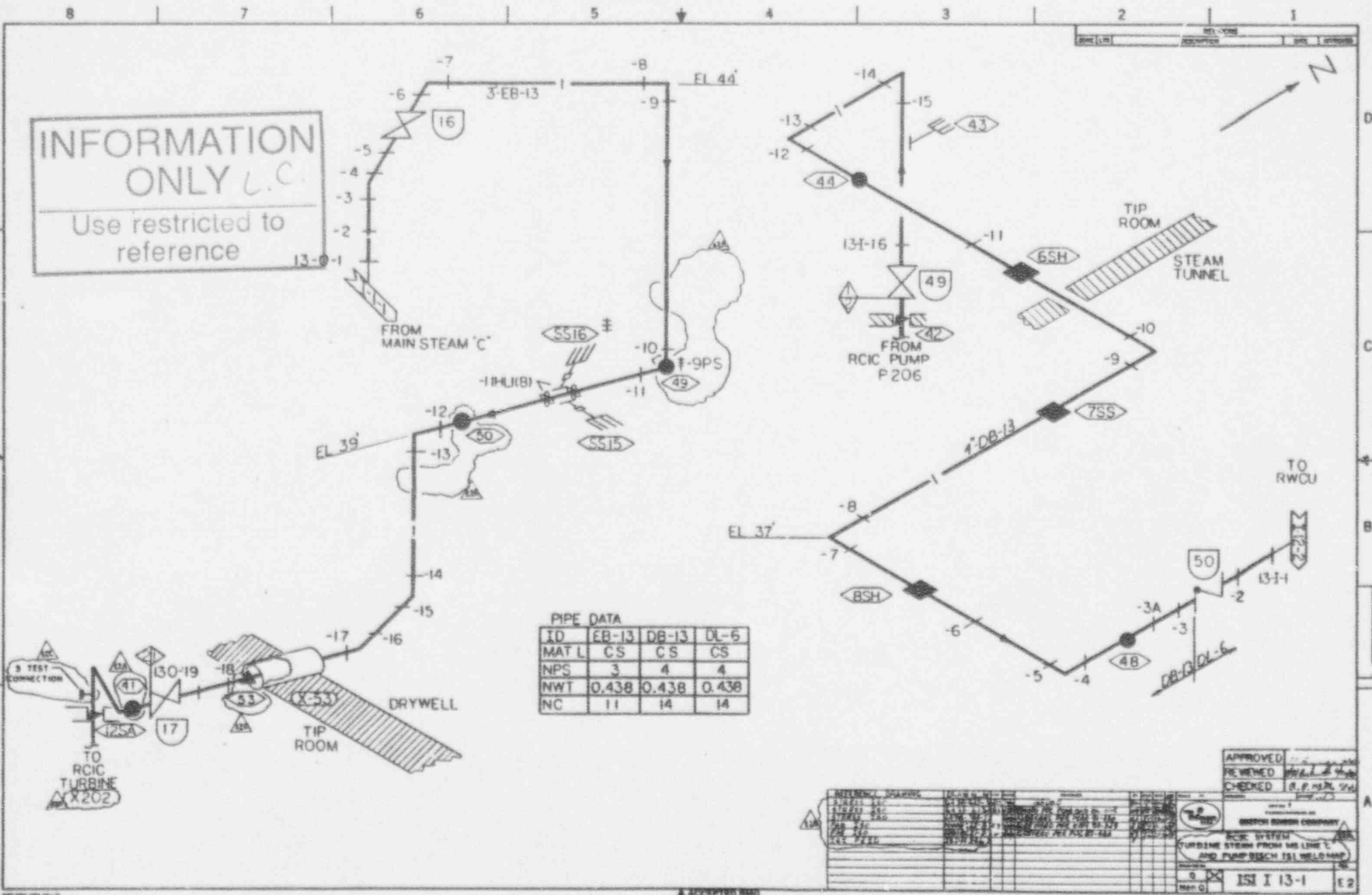
APPROVED: [Signature]
 REVIEWED: [Signature]
 CHECKED: [Signature]

WESTINGHOUSE
 GEORGE WESTINGHOUSE COMPANY
 REACTOR WASH CLEAN-UP
 SYSTEM 8.208 (INCH)
 WELD MAP

ACCEPTED RMD
 DATE 05/11/92

151-I-12-2

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]

WESTON DESIGN COMPANY

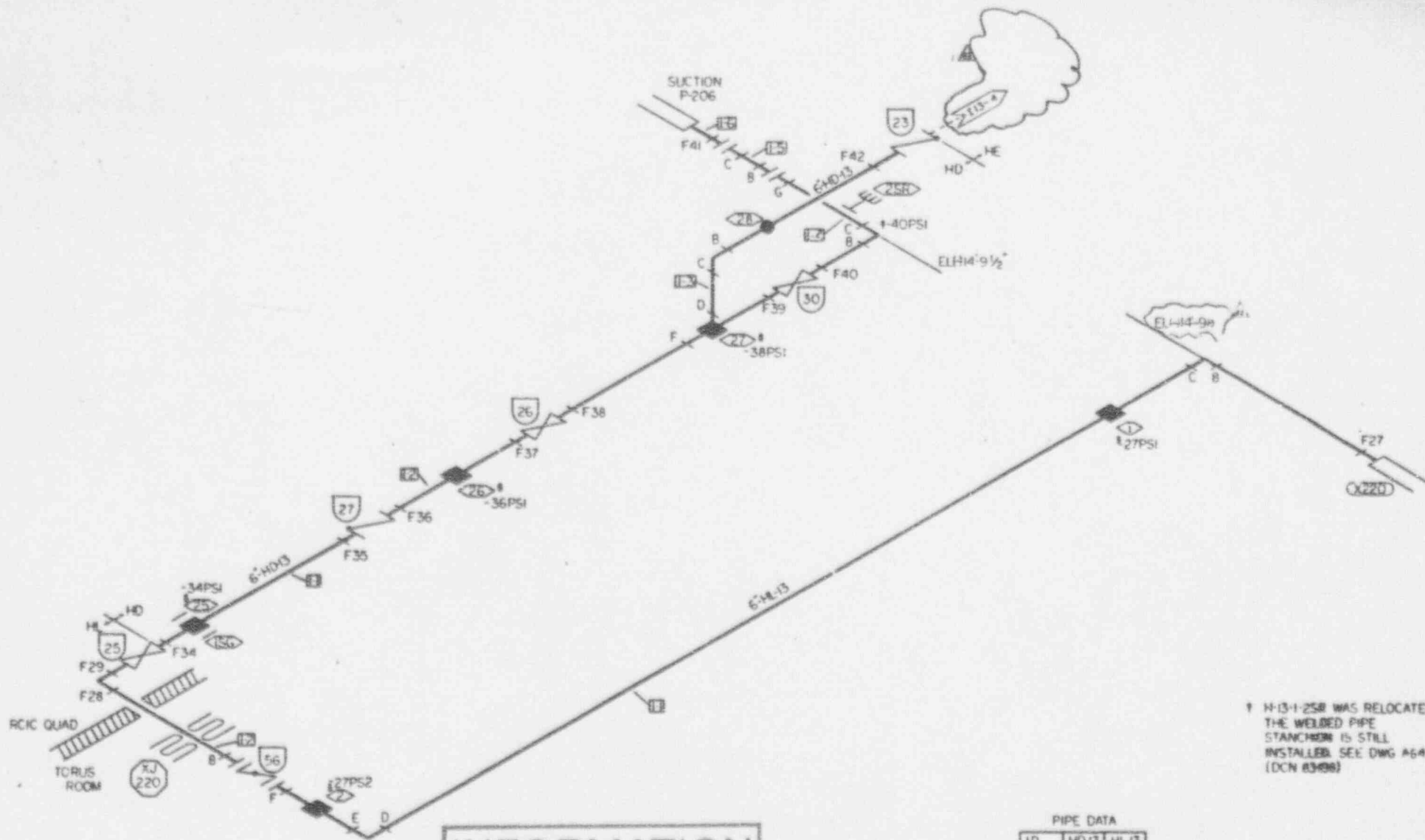
RCIC SYSTEM
TURBINE STEAM FROM MS LINE C
AND PUMP DISCH 131 WELD SHAP

ISI I 13-1 E2

4/11/73

ACCEPTED [Signature]

THIS DATE [Date]



† H-13-1-25R WAS RELOCATED. THE WELDED PIPE STANCHION IS STILL INSTALLED. SEE DWG A649 (DCN 83488)

INFORMATION ONLY LC
Use restricted to reference

PIPE DATA

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

APPROVED [Signature]

REVIEWED [Signature]

CHECKED [Signature]

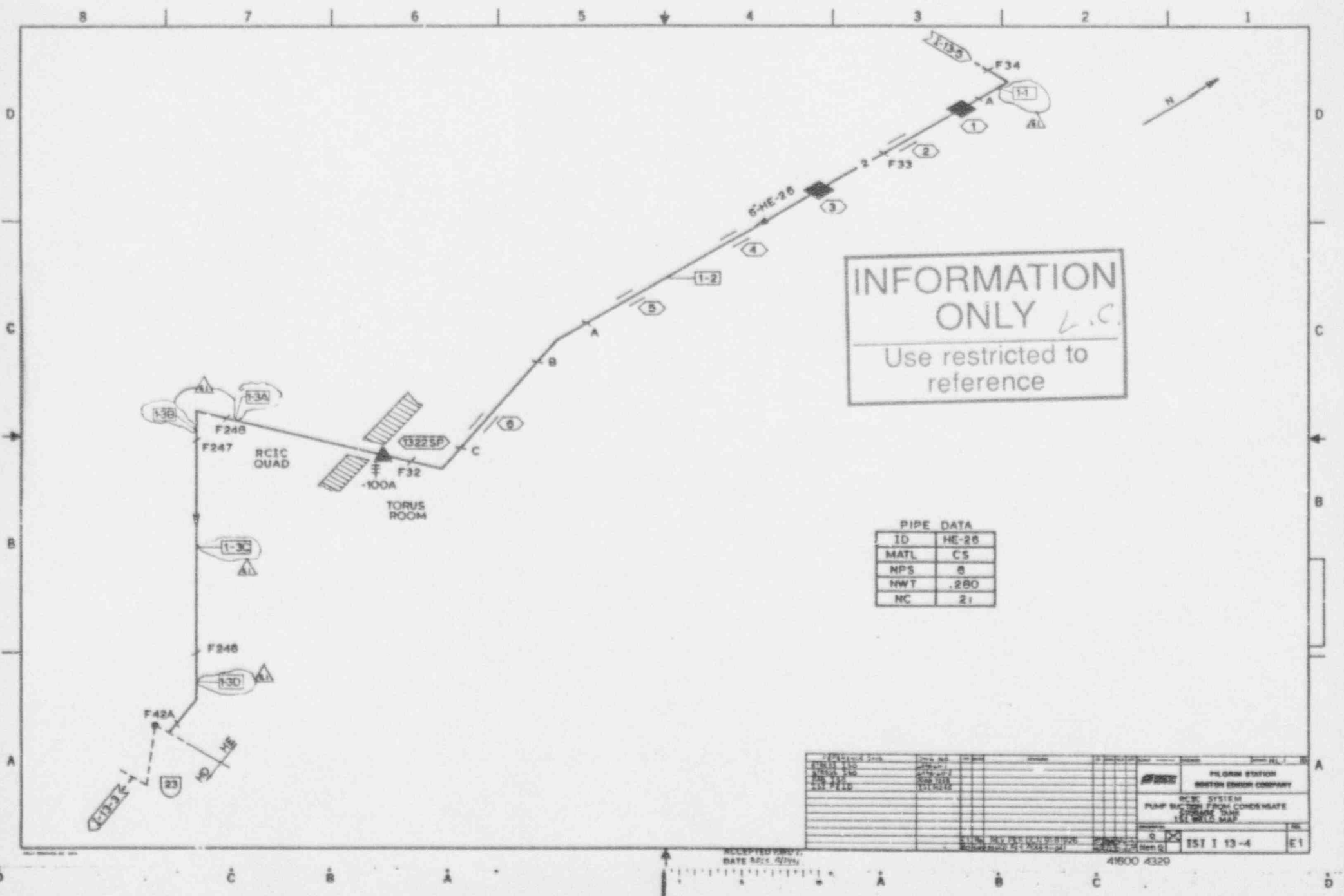
DATE: 10/15/03

PROJECT: [Illegible]

SCALE: [Illegible]

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	10/15/03



INFORMATION ONLY
 Use restricted to reference

PIPE DATA

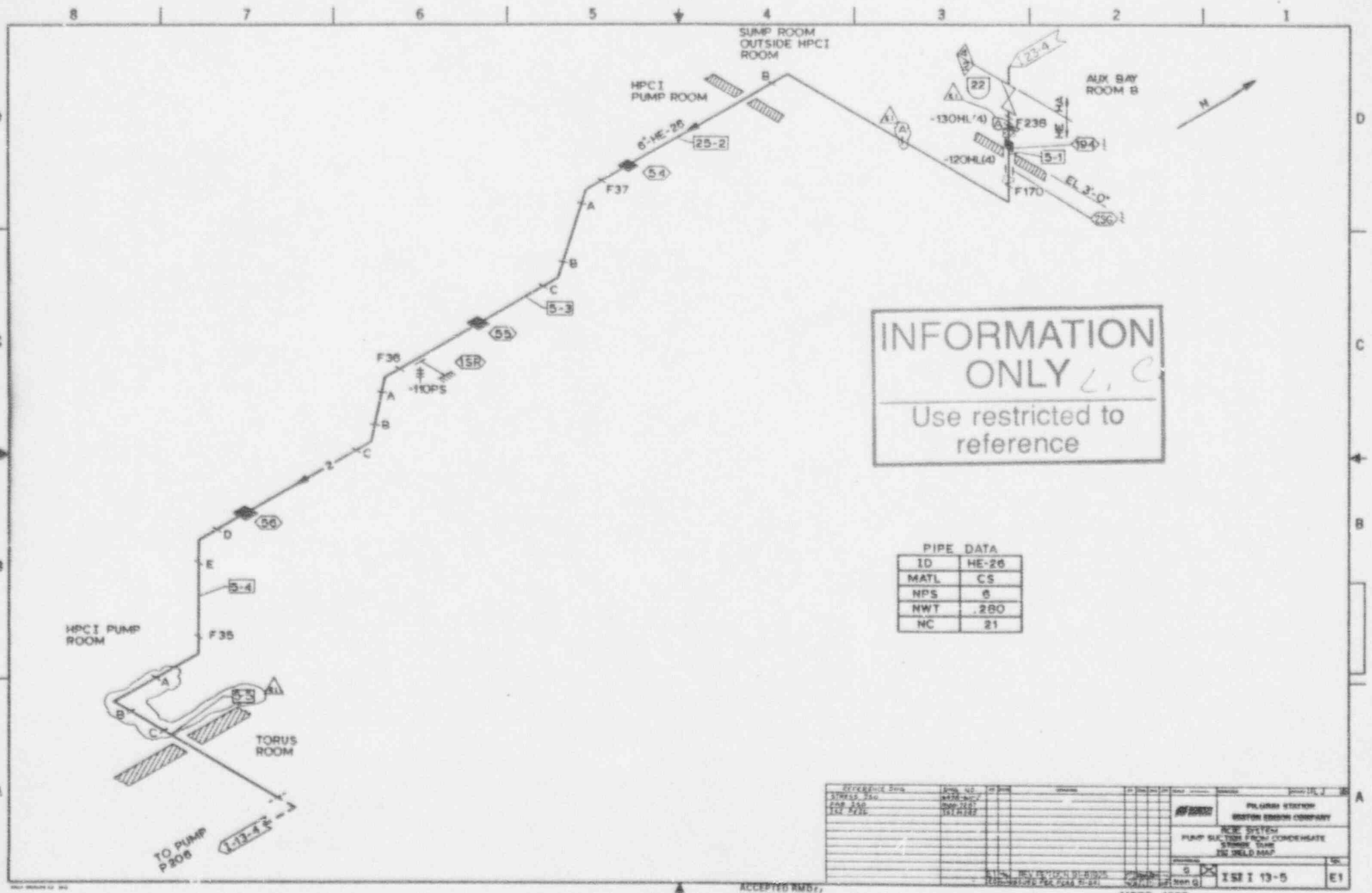
ID	HE-26
MATL	C5
NPS	6
NWT	.280
NC	21

DESCRIPTION	DATE	BY	CHKD	APP'D	REVISION
ISSUED FOR					
REVISION					
DATE					
BY					
CHKD					
APP'D					
REVISION					
DATE					
BY					
CHKD					
APP'D					

PLUMB SYSTEM
 BOSTON ENGINE COMPANY
 PLUMB SYSTEM FROM CONDENSATE
 SYSTEM MAP
 SEE W.P.C. MAP
 EST 113-4 E1

RECEIVED 10/17/77
 DATE 10/17/77

41600 4320

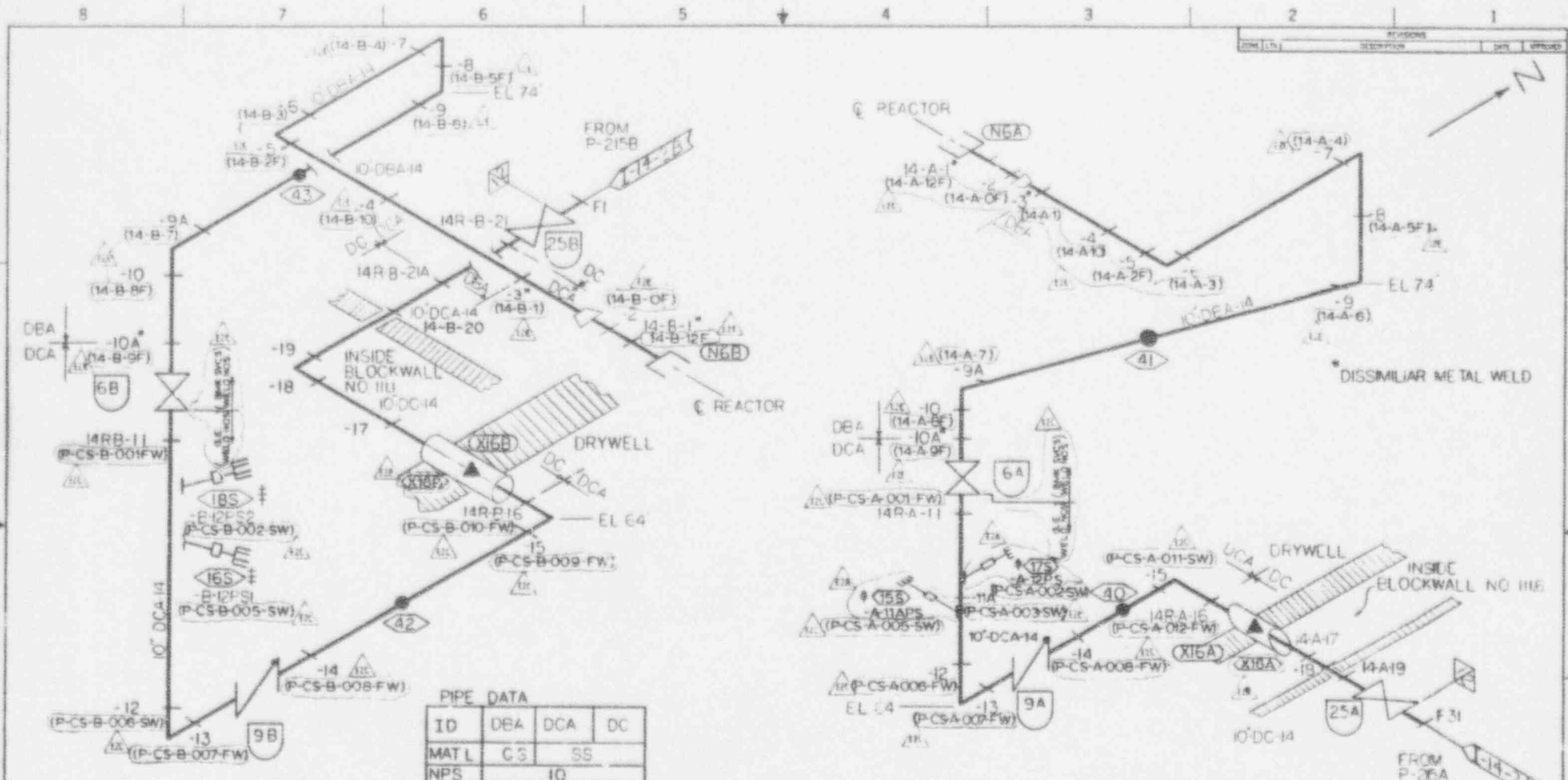


INFORMATION ONLY
 Use restricted to reference

PIPE DATA

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

APPROVED FOR CONSTRUCTION DATE: 10/1/84 BY: [Signature]	REVISED BY: [Signature] DATE: 10/1/84	PROJECT NO. 41600 4330 SHEET NO. 13-5 OF 13	FIELD STATION BOSTON Edison COMPANY NEW SYSTEM PUMP SECTION FROM CONDENSATE STORAGE TANK TO WELD MAP	ISEI 13-5 E1
---	--	---	---	-----------------



PIPE DATA

ID	DEA	DCA	DC
MAT L	CS	SS	
NPS	10		
NWT	594	519	593
NC	34		

HIGH STRESS WELDS
BECO WELD NOS.

LOOP A	LOOP B
M-A-3	M-B-3
M-A-4	M-B-4
M-A-5	M-B-5
M-A-6	M-B-6
M-A-7	M-B-7
M-A-10	M-B-10
M-A-10A	M-B-10A

INFORMATION ONLY L.C.
Use restricted to reference

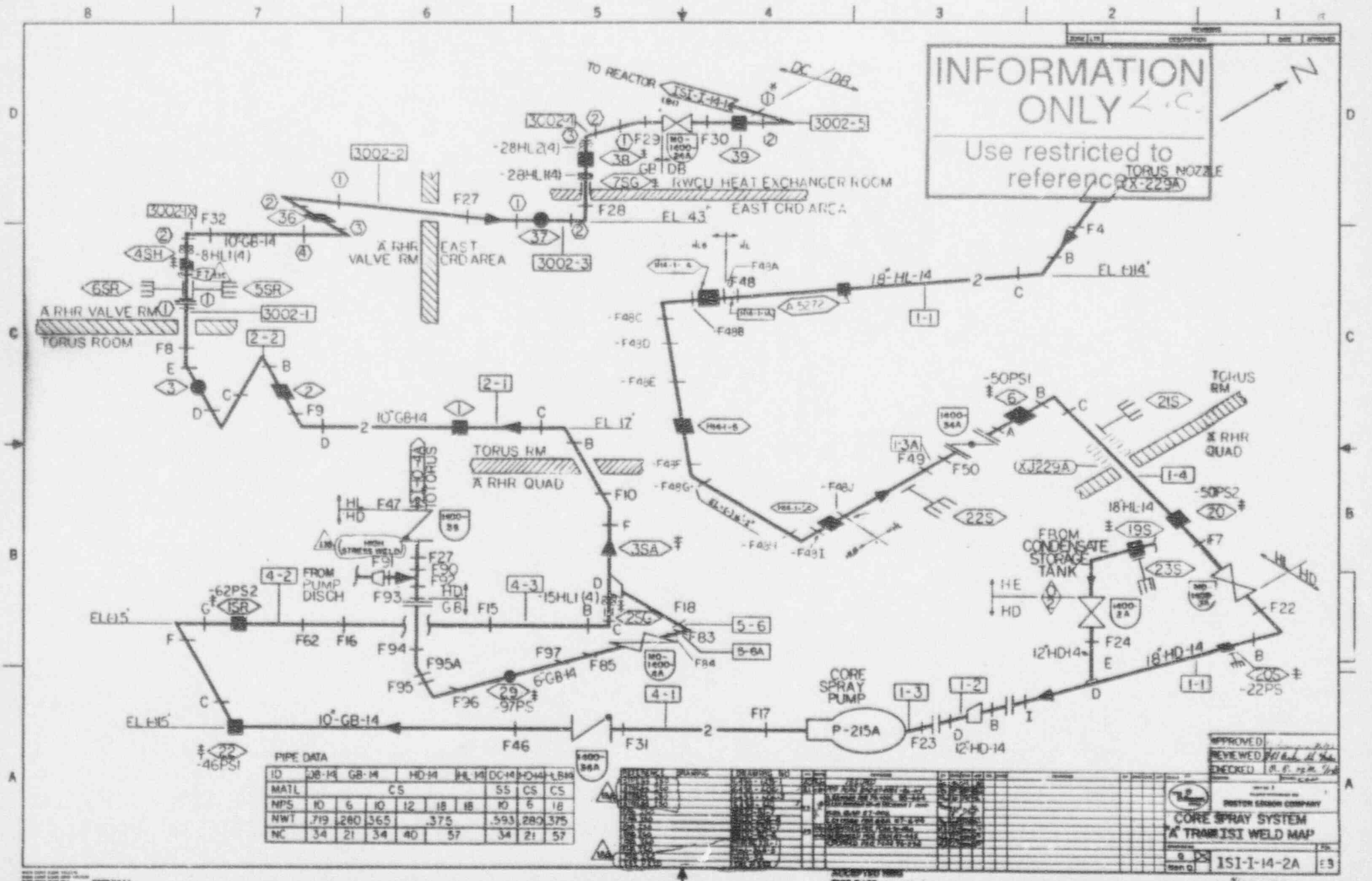
REVISION NO.	DATE	DESCRIPTION	BY	CHKD
1	11/22/72	ISSUE FOR CONSTRUCTION	J. J.
2	12/15/72	REVISED FOR
3	1/10/73
4	2/15/73
5	3/10/73
6	4/5/73
7	5/1/73
8	6/1/73
9	7/1/73
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94	8/1/80
95	9/1/80
96	10/1/80
97	11/1/80
98	12/1/80
99	1/1/81
100	2/1/81

APPROVE D: _____
 REVIEWED: _____
 CHECKED: _____

WESTINGHOUSE COMPANY
 CURRY ENGINE SYSTEMS
 PLANTS A, B & B DISCHARGE
 SEE WELD MAP

15 I 14-1 E2

ACCEPTED THIS DATE _____



INFORMATION ONLY
 Use restricted to reference

PIPE DATA

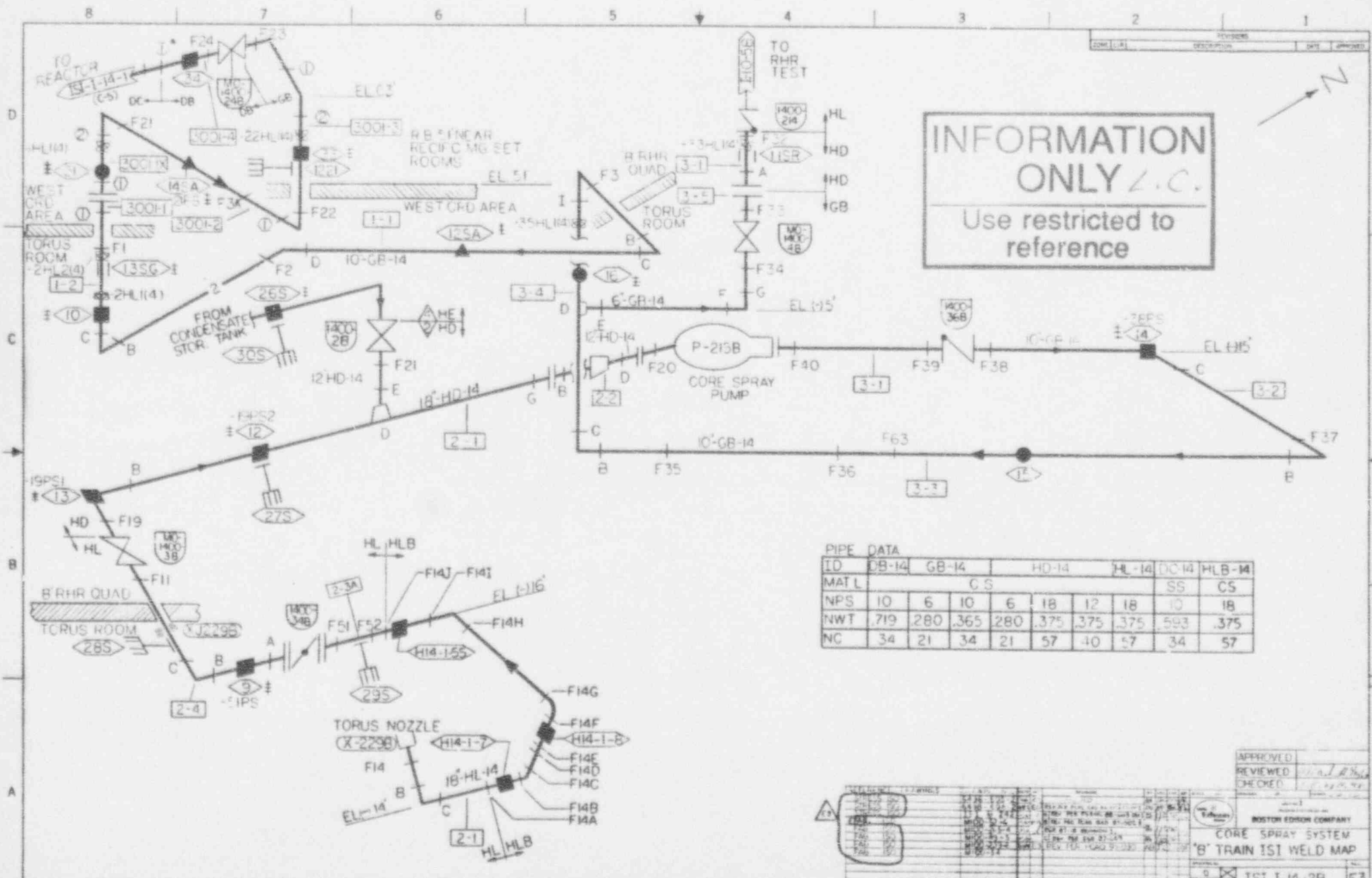
ID	GB-14	GB-14	HD-14	HL-14	DC-14	DC-14	DC-14	DC-14
MATL	CS	CS	CS	CS	CS	CS	CS	CS
NWT	719	280	365	375	593	280	375	
NC	34	21	34	40	57	34	21	57

NO.	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR CONSTRUCTION	10/1/78	J. J. ...	J. J. ...
2	REVISION	10/1/78	J. J. ...	J. J. ...
3	REVISION	10/1/78	J. J. ...	J. J. ...
4	REVISION	10/1/78	J. J. ...	J. J. ...
5	REVISION	10/1/78	J. J. ...	J. J. ...
6	REVISION	10/1/78	J. J. ...	J. J. ...
7	REVISION	10/1/78	J. J. ...	J. J. ...
8	REVISION	10/1/78	J. J. ...	J. J. ...
9	REVISION	10/1/78	J. J. ...	J. J. ...
10	REVISION	10/1/78	J. J. ...	J. J. ...

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

WESTINGHOUSE COMPANY
CORE SPRAY SYSTEM
'A' TRANSISI WELD MAP

ISI-1-14-2A



INFORMATION ONLY
 Use restricted to reference

PIPE DATA

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

APPROVED	
REVIEWED	
CHECKED	
BOSTON EDISON COMPANY CORE SPRAY SYSTEM 'B' TRAIN ISI WELD MAP	
<input checked="" type="checkbox"/> ISI I 14-2B Non-C	E3

ACCEPTED THIS DATE

48/00-3924

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

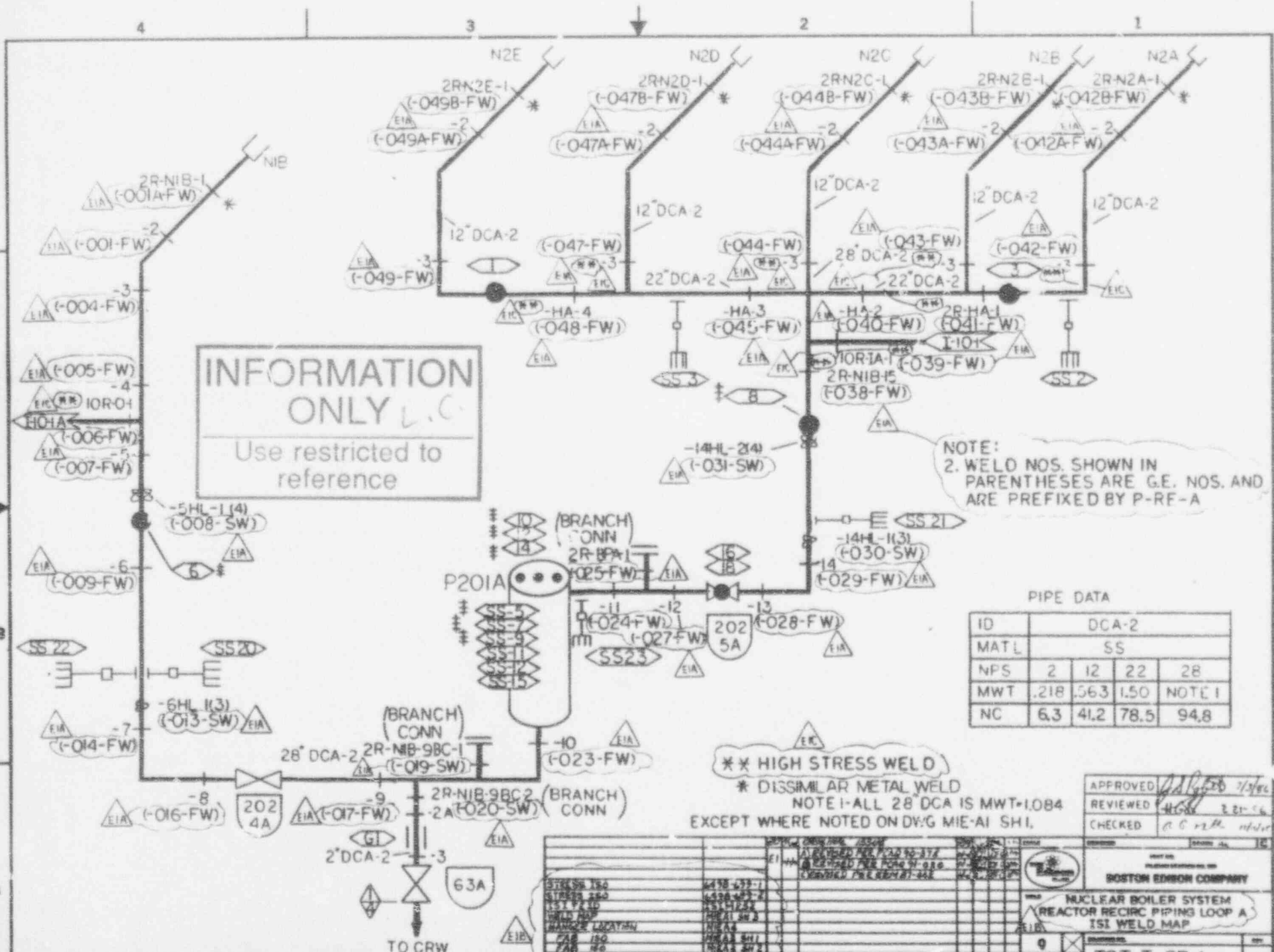
**** HIGH STRESS WELD**
* DISSIMILAR METAL WELD
NOTE 1- ALL 28" DCA IS MWT-1.084
EXCEPT WHERE NOTED ON DVG MIE-AI SHI.

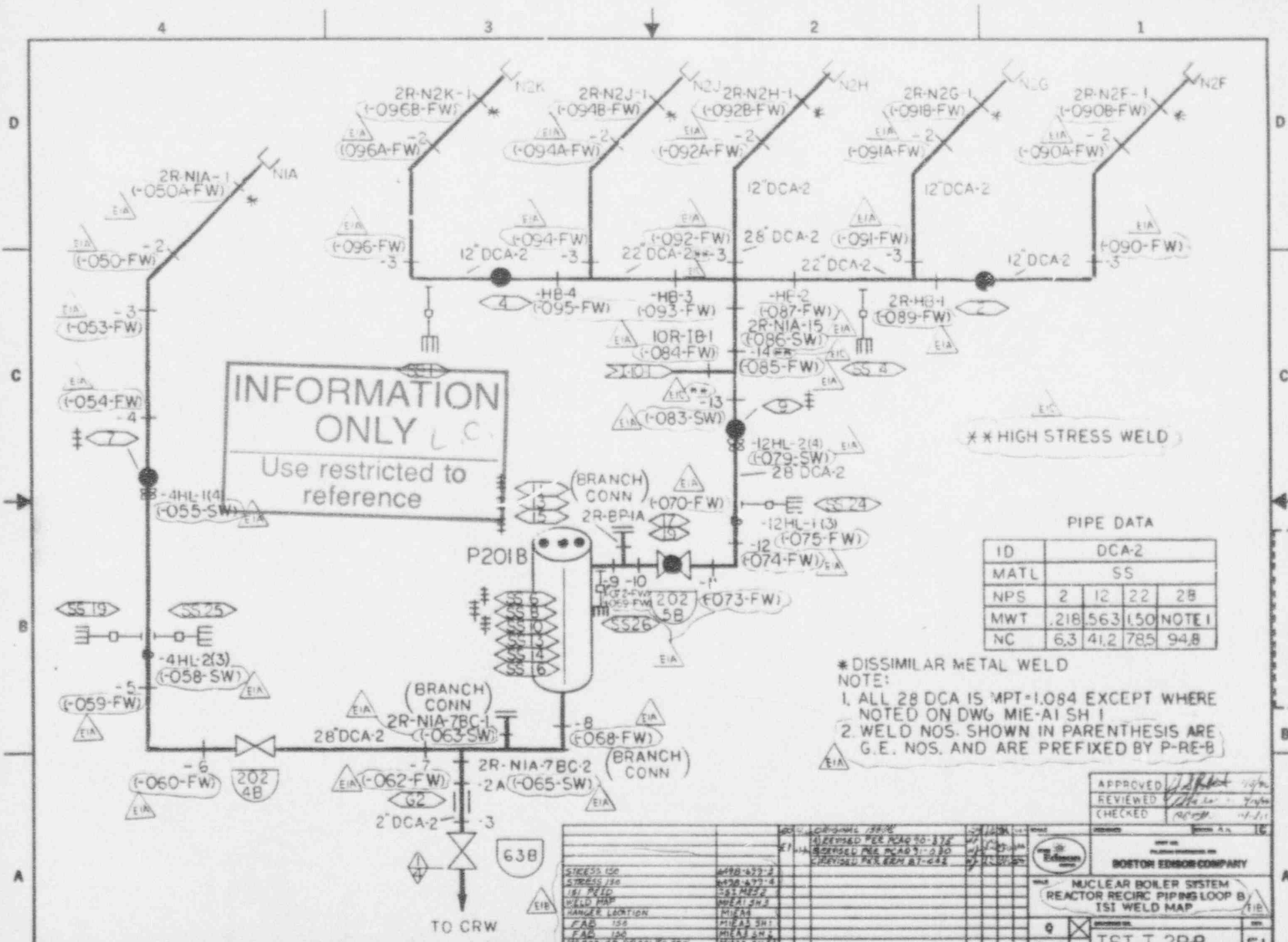
APPROVED: [Signature] 7/1/66
REVIEWED: [Signature] 3-21-66
CHECKED: [Signature] 6-22-66

BOSTON EDISON COMPANY

NUCLEAR BOILER SYSTEM
REACTOR RECIRC PIPING LOOP A
ISI WELD MAP

STRESS TAG	WELD NO.	WELD TYPE	WELD SIZE	WELD CLASS
STRESS 180	4438-033-1			
STRESS 250	4438-033-2			
STRESS 250	4438-033-3			
STRESS 250	4438-033-4			
STRESS 250	4438-033-5			
STRESS 250	4438-033-6			
STRESS 250	4438-033-7			
STRESS 250	4438-033-8			
STRESS 250	4438-033-9			
STRESS 250	4438-033-10			





INFORMATION ONLY
Use restricted to reference

PIPE DATA

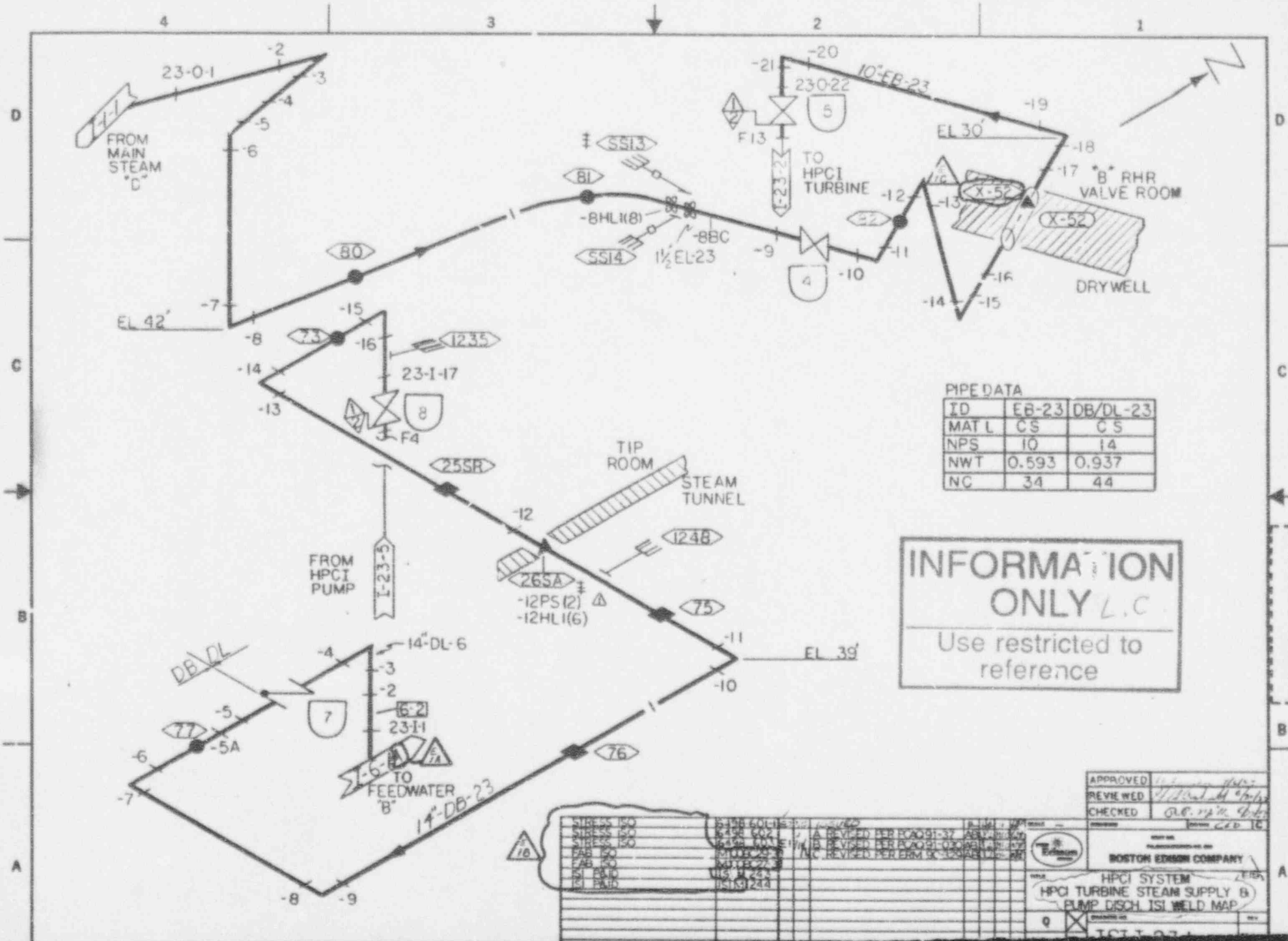
ID	DCA-2			
MATL	SS			
NPS	2	12	22	28
MWT	.218	.563	1.50	NOTE 1
NC	6.3	41.2	78.5	94.8

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

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

BOSTON EDISON COMPANY
NUCLEAR BOILER SYSTEM
REACTOR RECIRC PIPING LOOP B
TSI WELD MAP
TST T 2RB

STRESS 100	422-2
STRESS 150	422-4
181 P/ID	561 M/22
WELD MAP	M/21 5B 2
HANGER LOCATION	M/21 5B 2
FAB 150	M/21 5B 1
FAB 100	M/21 5B 1
M/202-48 DRAIN TO CRW	M/21 5B 2



PIPE DATA

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

INFORMATION ONLY L.C.

Use restricted to reference

STR 150	5-150-001	10-150-001	10-150-001
STR 150	5-150-002	10-150-002	10-150-002
STR 150	5-150-003	10-150-003	10-150-003
PAB 150	5-150-004	10-150-004	10-150-004
PAB 150	5-150-005	10-150-005	10-150-005
ISI 150	5-150-006	10-150-006	10-150-006
ISI 150	5-150-007	10-150-007	10-150-007
ISI 150	5-150-008	10-150-008	10-150-008

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

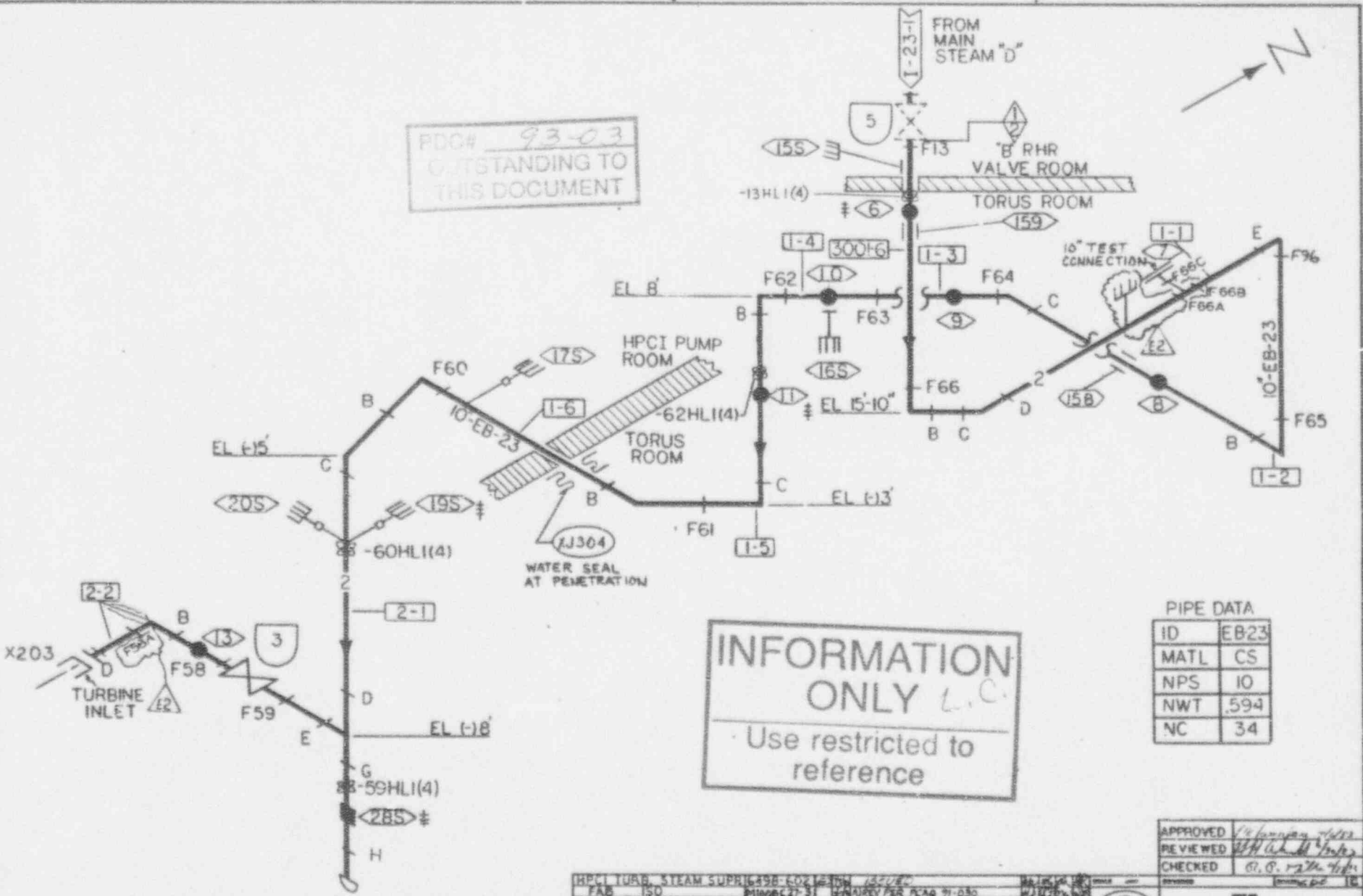
BOSTON EDISON COMPANY

HPCI SYSTEM

HPCI TURBINE STEAM SUPPLY & PUMP DISCH. ISI WELD MAP

Q

PDC# 93-03
 OUTSTANDING TO
 THIS DOCUMENT



INFORMATION ONLY
 Use restricted to 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 71-030
FAB	150	REV PER DCV W-10226
FAB	150	REV PER PDC 67-43A
HPCI SYSTEM ISI P&ID	IS1M-241	REV PER PDC 67-43A
HPCI SYSTEM ISX P&ID	IS1M-244	

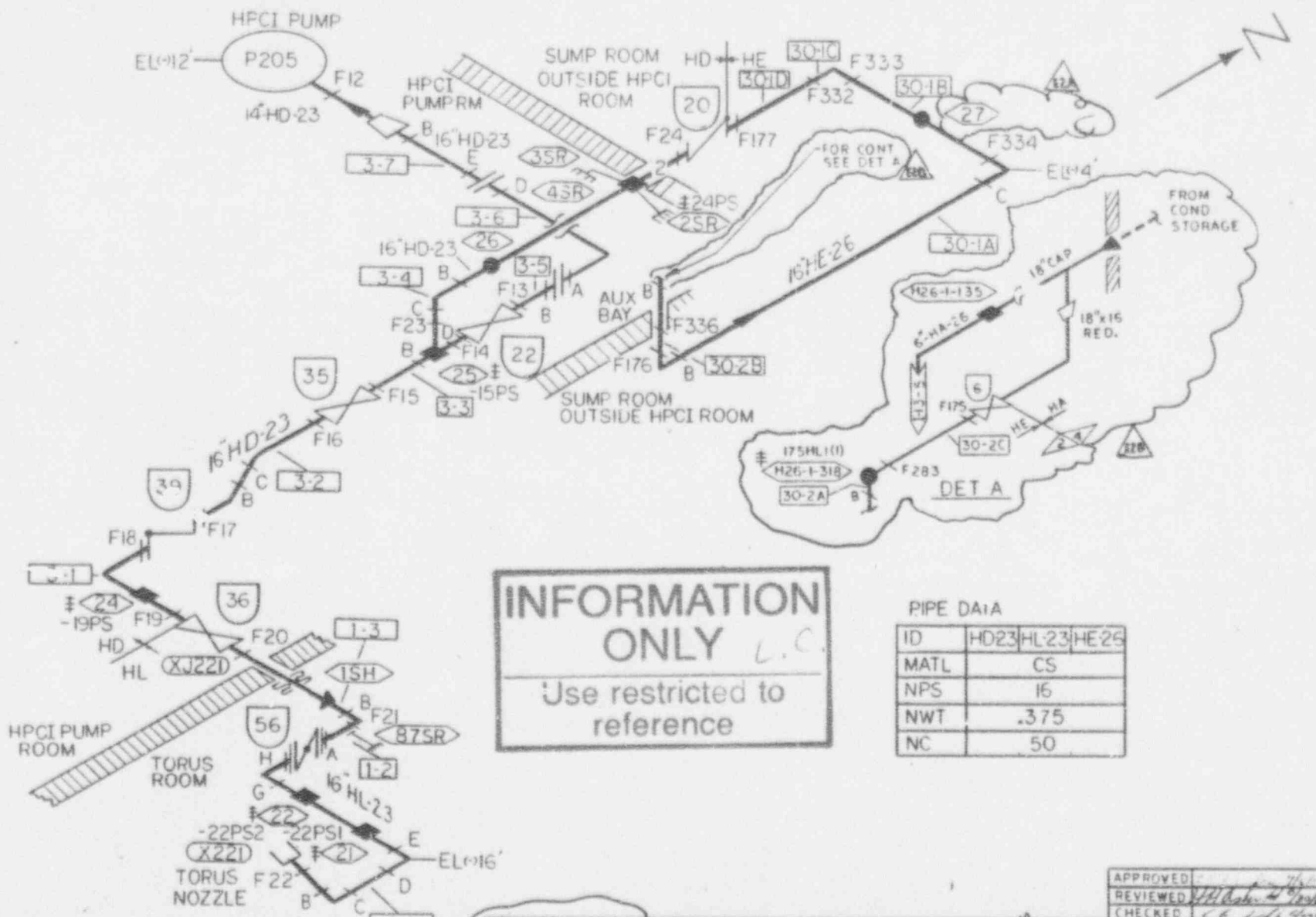
BOSTON EDISON COMPANY

HPCI SYSTEM
 TURBINE STEAM SUPPLY
 ISI WELD MAP

Non Q **ISI I 23-2** E2

ACCEPTED RMG #2
 THIS DATE 60CC 3/24/92

41600 3926



INFORMATION ONLY
 Use restricted to reference

PIPE DATA

ID	HD23	HL23	HE26
MATL	CS		
NPS	16		
NWT	.375		
NC	50		

STRESS 350	CLASS 1	GROUP 1	REVISION
FAB 150	MISC 185-5	REV NEW RING DRG BY D-2	
FAB 250	MISC 185-5	REV REVISED PER PICALAD BY D-2	
FAB 350	MISC 224-1	REV REVISED PER PICALAD BY D-2	
FAB 450	MISC 224-1	REV REVISED PER PICALAD BY D-2	
ISI 150	MISC 224-1	REV REVISED PER PICALAD BY D-2	
ISI 250	MISC 224-1	REV REVISED PER PICALAD BY D-2	
ISI 350	MISC 224-1	REV REVISED PER PICALAD BY D-2	
ISI 450	MISC 224-1	REV REVISED PER PICALAD BY D-2	

APPROVED: _____
 REVIEWED: *[Signature]*
 CHECKED: *[Signature]*

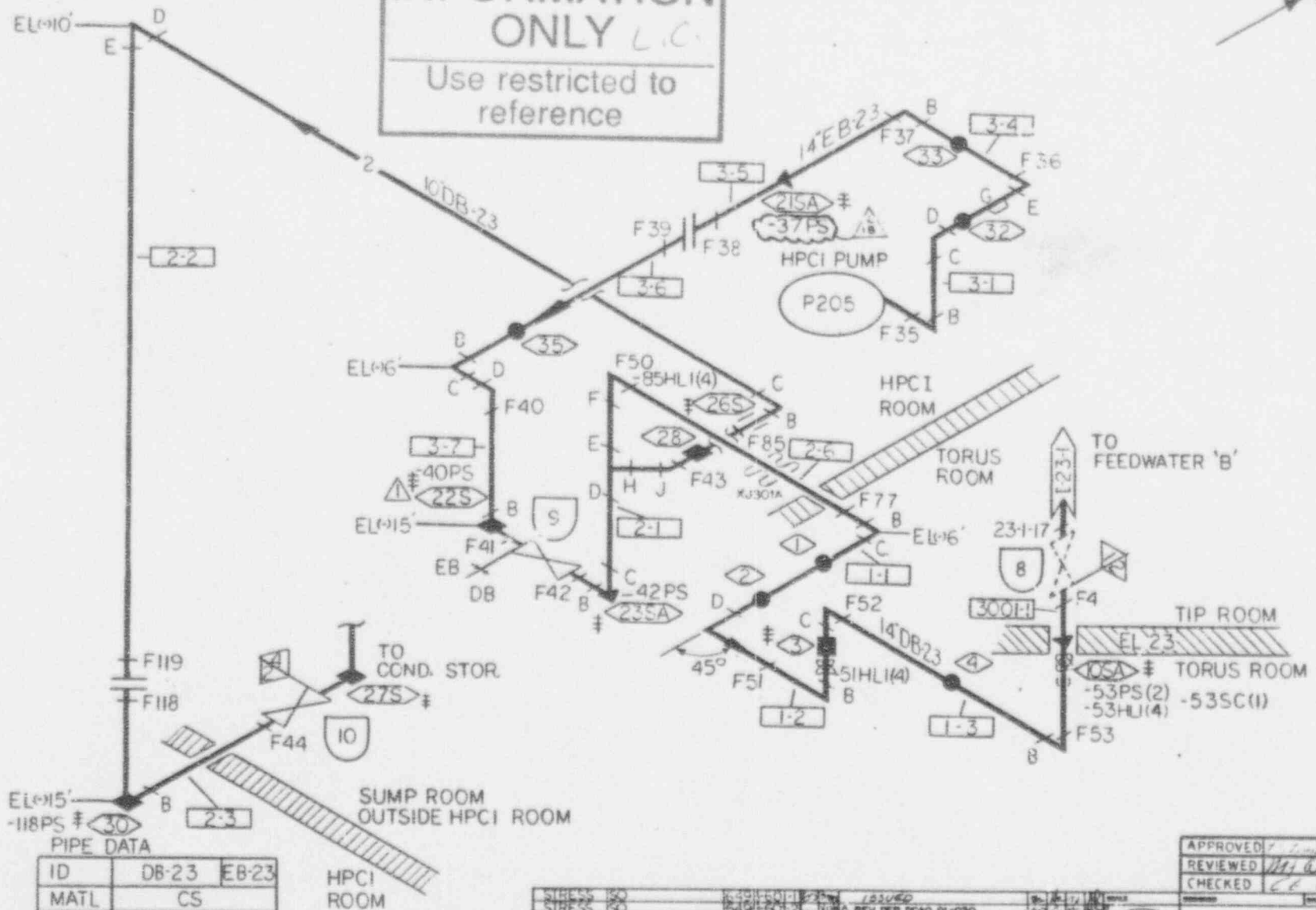
BOSTON EDISON COMPANY

HPCI SYSTEM
 HPCI PUMP SUCTION
 ISI WELD MAP

ISI 23-4 E2

ACCEPTED RMG
 THIS DATE _____

INFORMATION ONLY
L.C.
 Use restricted to reference



PIPE DATA

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

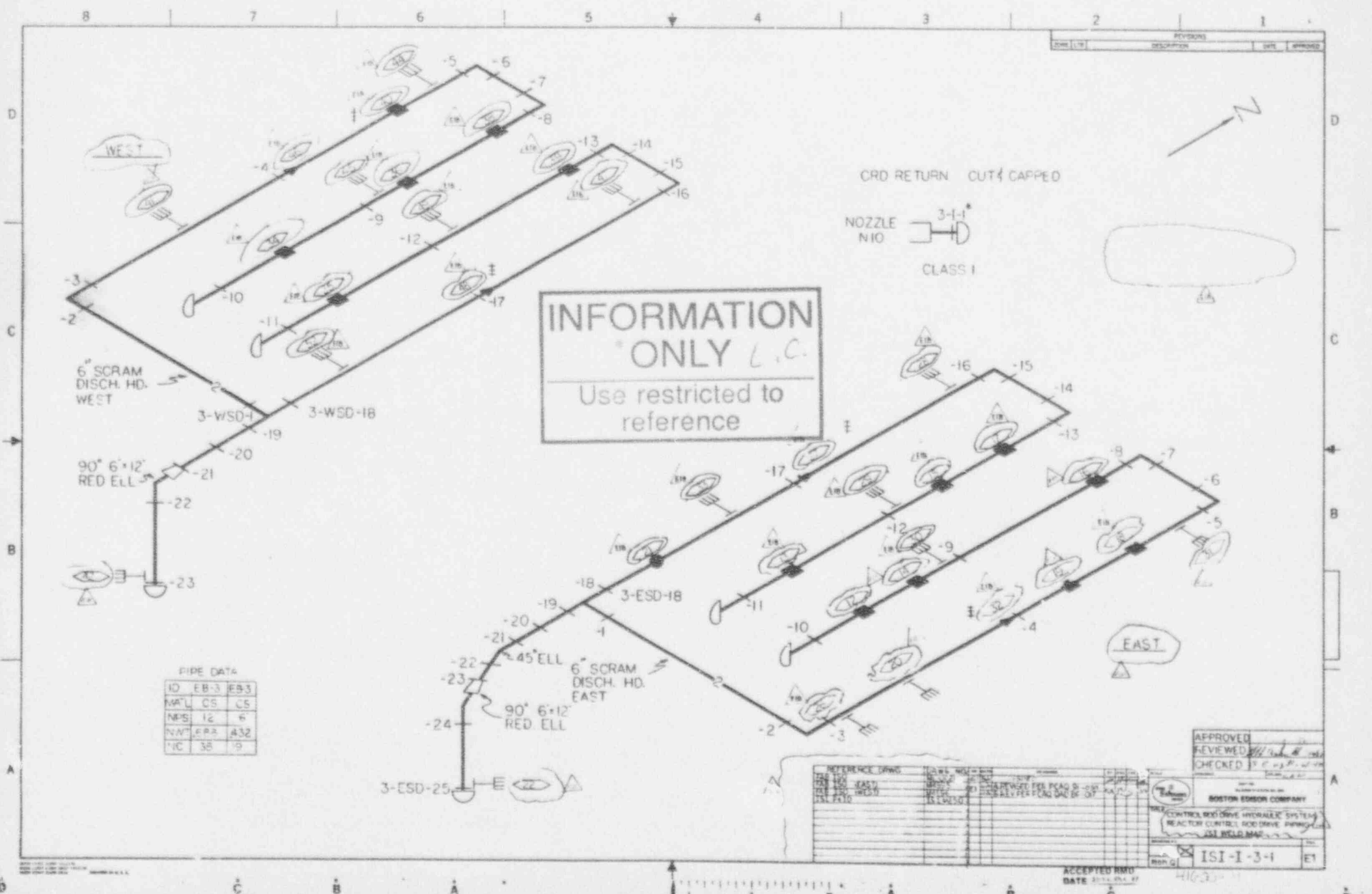
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ISI P&ID	100	100	100
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APPROVED: *[Signature]*
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 CHECKED: *[Signature]*

BOSTON EDISON COMPANY

HPCI SYSTEM
 HPCI PUMP DISCH TO REACTOR
 ISI WELD MAP

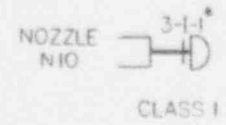
ISII 23-5



REV	DESCRIPTION	DATE	APPROVED

INFORMATION ONLY L.C.
 Use restricted to reference

CRD RETURN CUT & CAPPED



PIPE DATA

ID	EB-3	EB-3
MA'L	CS	CS
NPS	12	6
N/A	APP	A32
IC	38	19

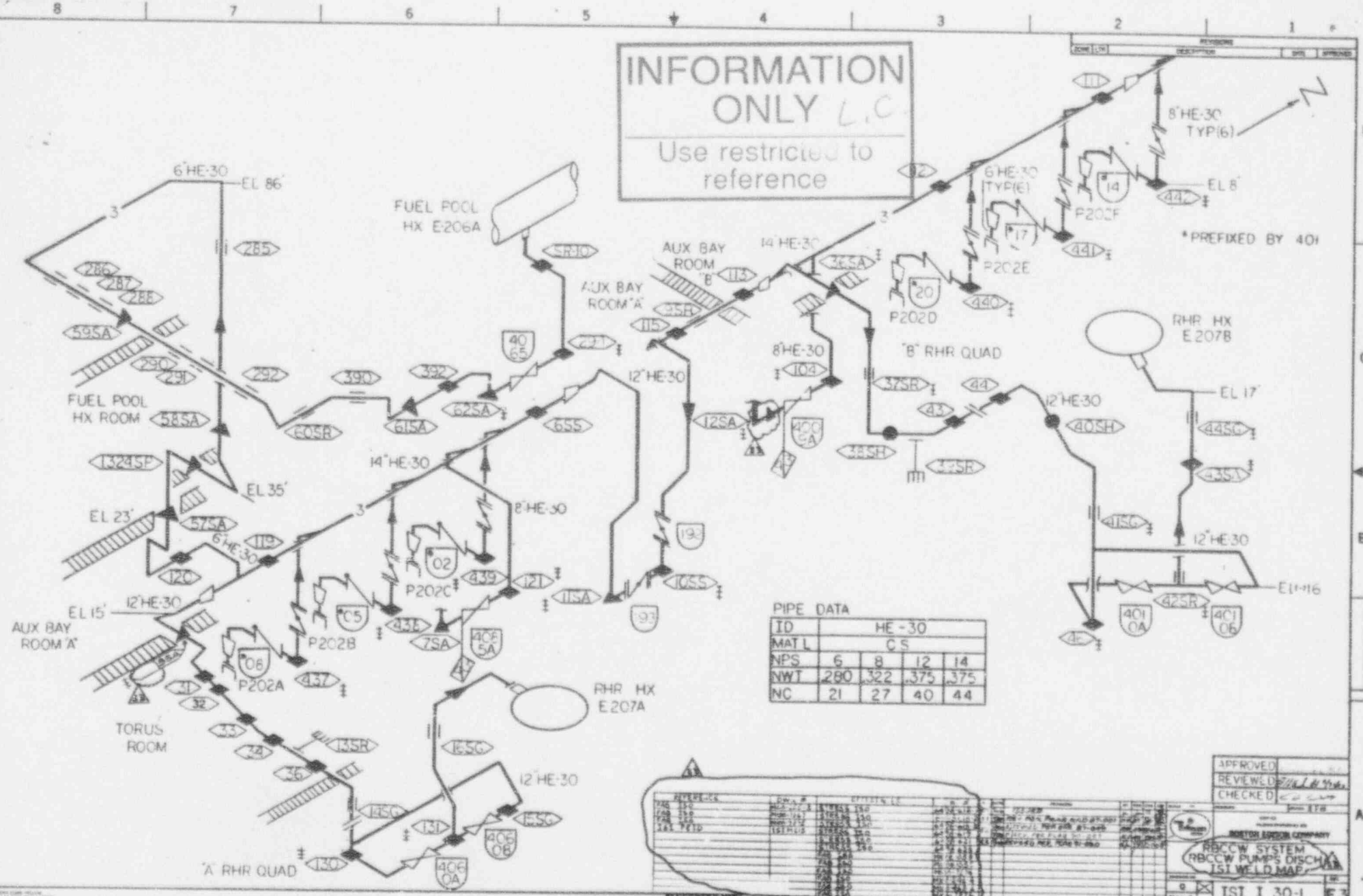
APPROVED
 REVIEWED
 CHECKED
 BOSTON EDISON COMPANY
 CONTROL ROD DRIVE HYDRAULIC SYSTEM
 REACTOR CONTROL ROD DRIVE APPROPRIATE
 ISI HYDRAULIC
 ISI-I-3-1 E1

REFERENCE DRWG

NO.	DATE	DESCRIPTION

ACCEPTED RMD
DATE 3/14/64

INFORMATION ONLY L.C.
Use restricted to reference



PIPE DATA

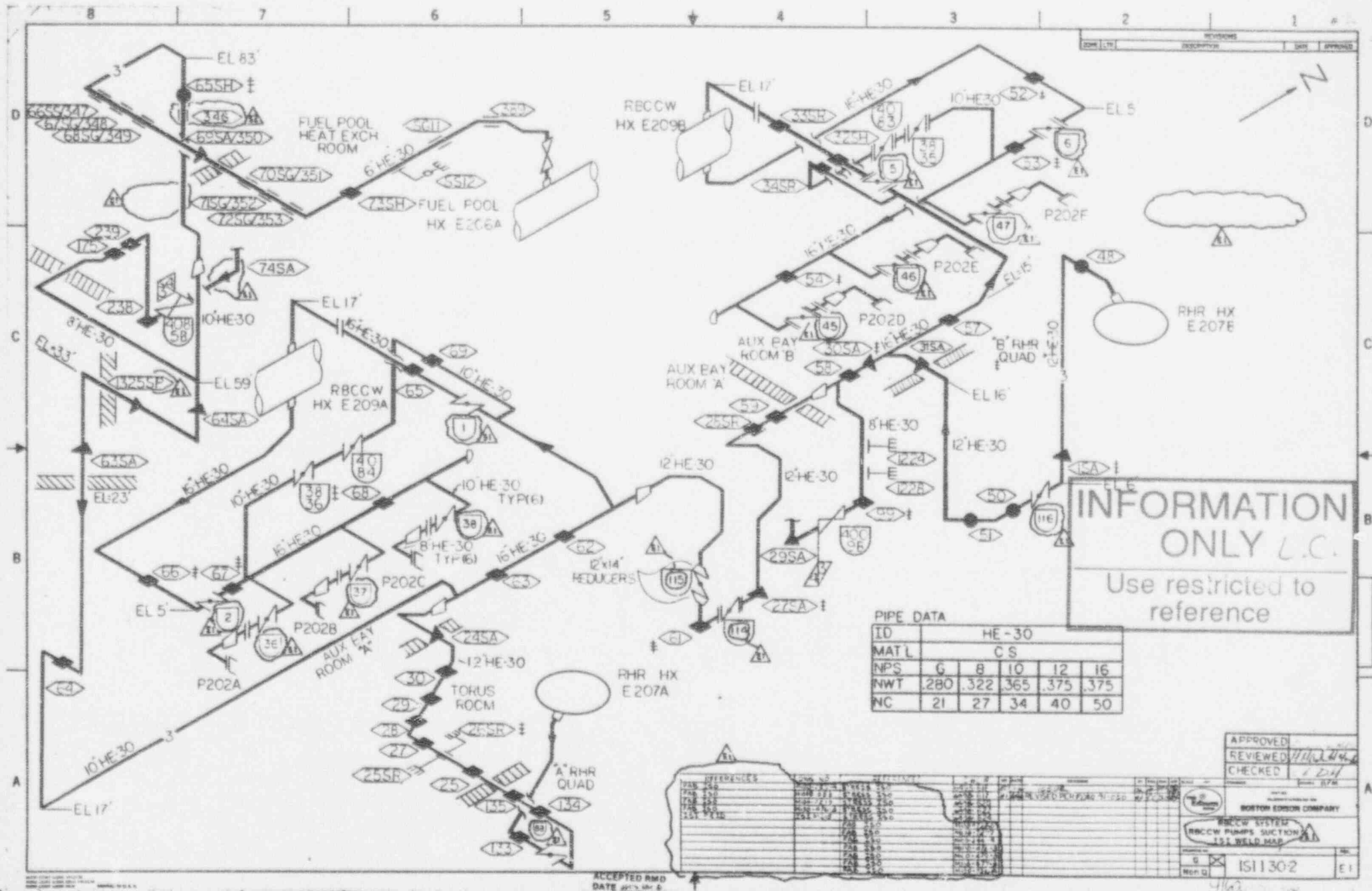
ID	HE-30			
MAT L	CS			
NPS	6	8	12	14
NWT	280	322	375	375
NC	21	27	40	44

APPROVED
REVIEWED
CHECKED

REV	DATE	BY	DESCRIPTION
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ROBTON ENGINEERING COMPANY
RBCCW SYSTEM
RBCCW PUMPS DISCHARGE
1ST WELD MAP

ISI I 30-1 E 3



INFORMATION ONLY L.C.
Use restricted to reference

PIPE DATA

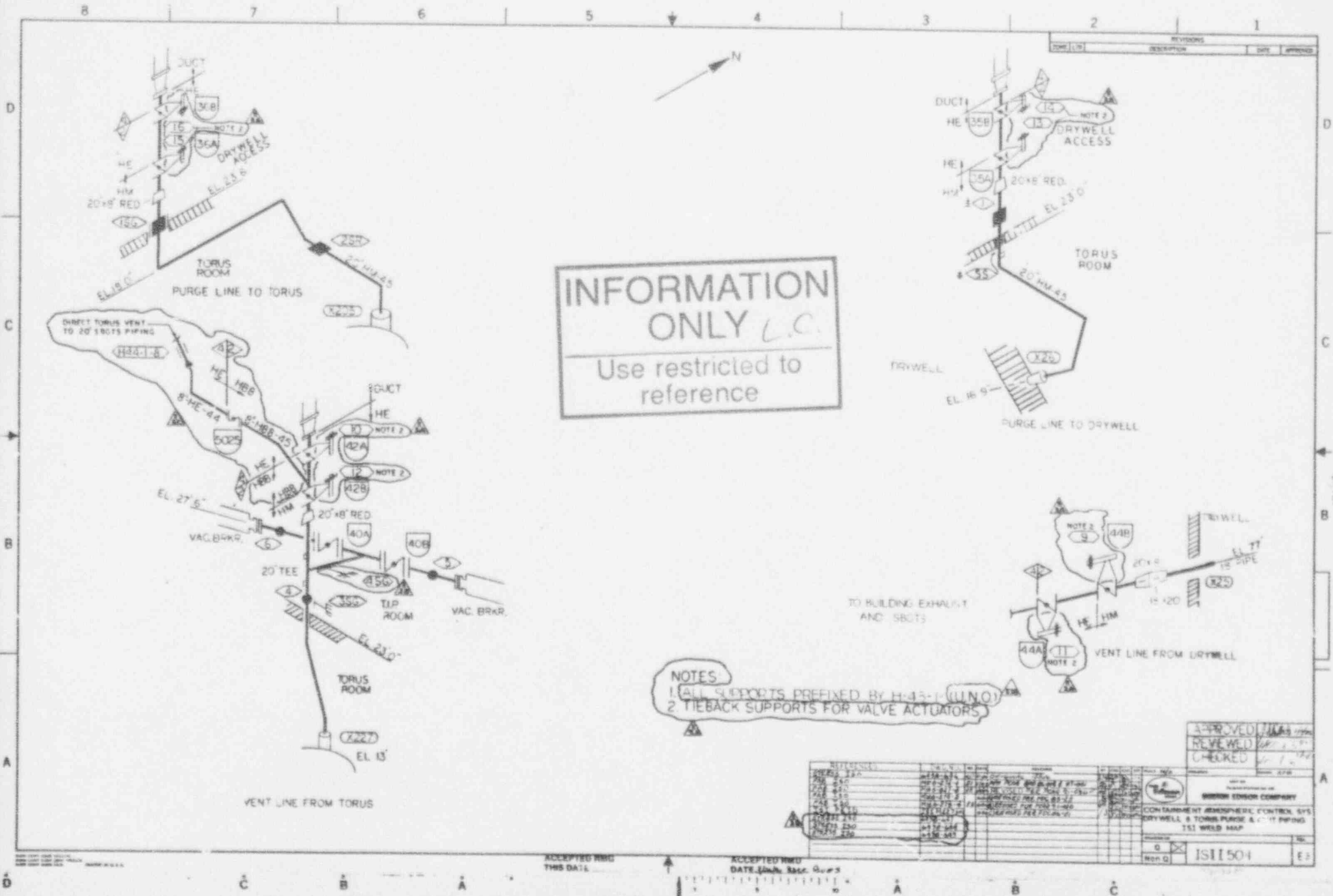
ID	HE-30				
MAT L	CS				
NPS	6	8	10	12	16
NWT	.280	.322	.365	.375	.375
NC	21	27	34	40	50

NO.	DESCRIPTION	DATE	BY	REVISION	REASON
1	ISSUED FOR CONSTRUCTION	11/15/80
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REVIEWED: [Signature]
CHECKED: [Signature]

BOSTON Edison COMPANY
RBCCW SYSTEM
RBCCW PUMPS SUCTION
1ST WELD MAP
G
Non U
IS11302
E1

ACCEPTED RMD
DATE 11/15/80



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

- NOTES**
1. ALL SUPPORTS PREFIXED BY H-45-T (U.N.O.)
 2. TIEBACK SUPPORTS FOR VALVE ACTUATORS

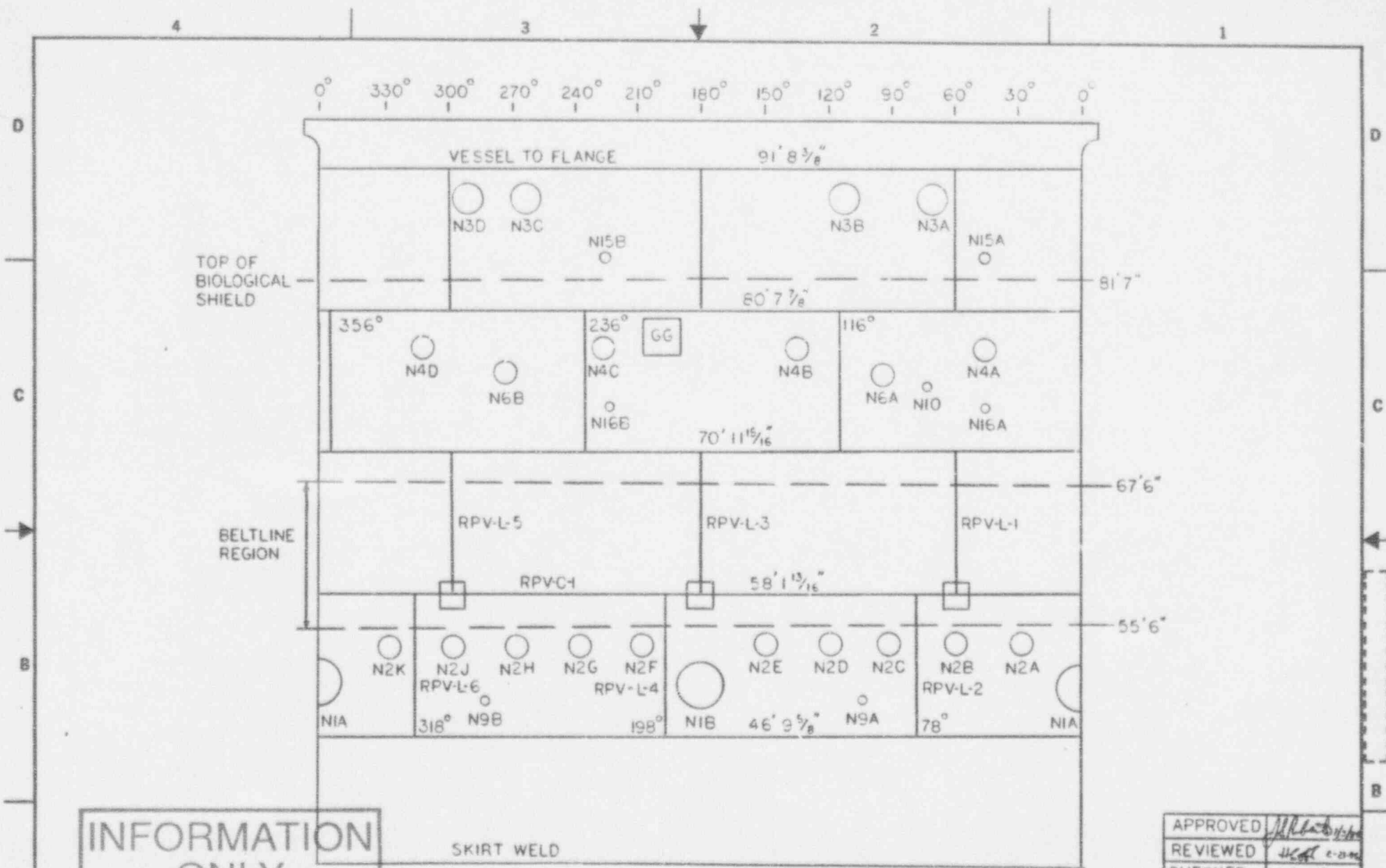
NO.	REVISIONS	DATE	BY	CHKD.	APP'D.
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 REVIEWED: *[Signature]*
 CHECKED: *[Signature]*

SHAW-WALKER COMPANY
 CONTAMINANT ATMOSPHERE CONTROL SYS.
 DRYWELL & TORUS PURGE & C-11 PIPING
 151 WELD MAP

Non Q IS11504 E3

ACCEPTED NWD THIS DATE: _____
 ACCEPTED NWD DATE: _____



INFORMATION ONLY
 Use restricted to reference

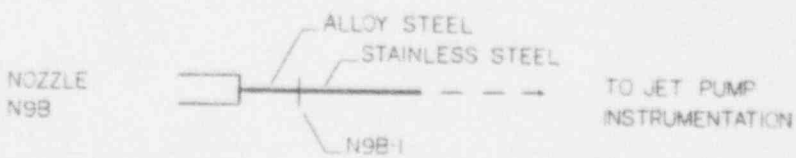
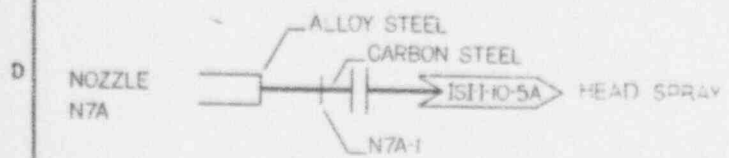
APPROVED *[Signature]*
 REVIEWED *[Signature]* 2-2-66
 CHECKED *[Signature]* 2-2-66

NO.	DESCRIPTION	DATE	BY
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2	REVISED PER PLAC 91-030		
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Excluded
BOSTON EDISON COMPANY
 NUCLEAR BOILER SYSTEM
 REACTOR VESSEL WELDS & NOZZLES
 ISI WELD MAP
 ISII 54-1
 E1

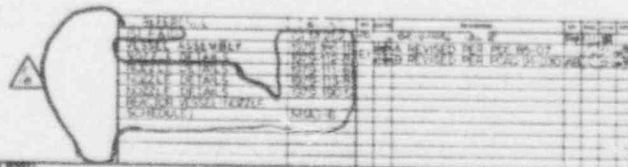
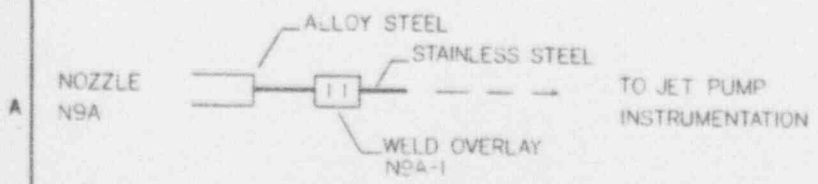
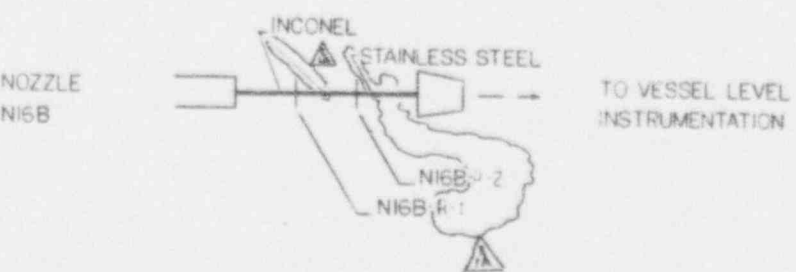
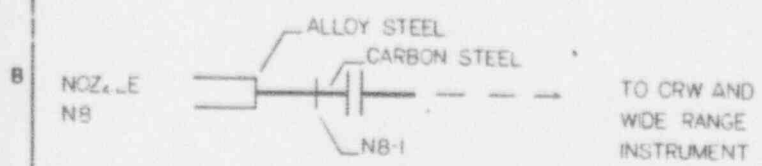
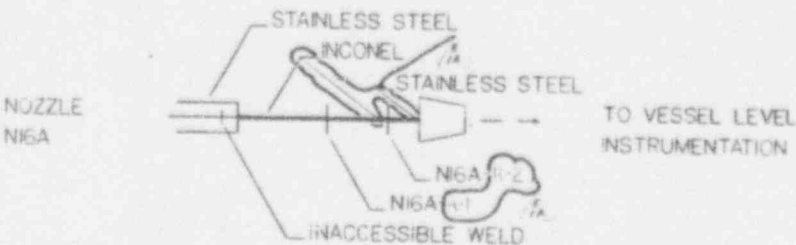
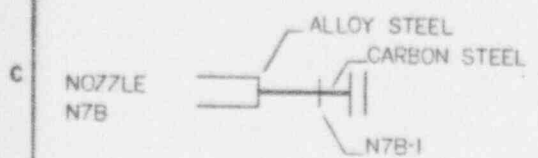
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REVISED	DESCRIPTION	DATE	APPROVED



INFORMATION ONLY

Use restricted to reference



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REVIEWED: [Signature]

CHECKED: [Signature]

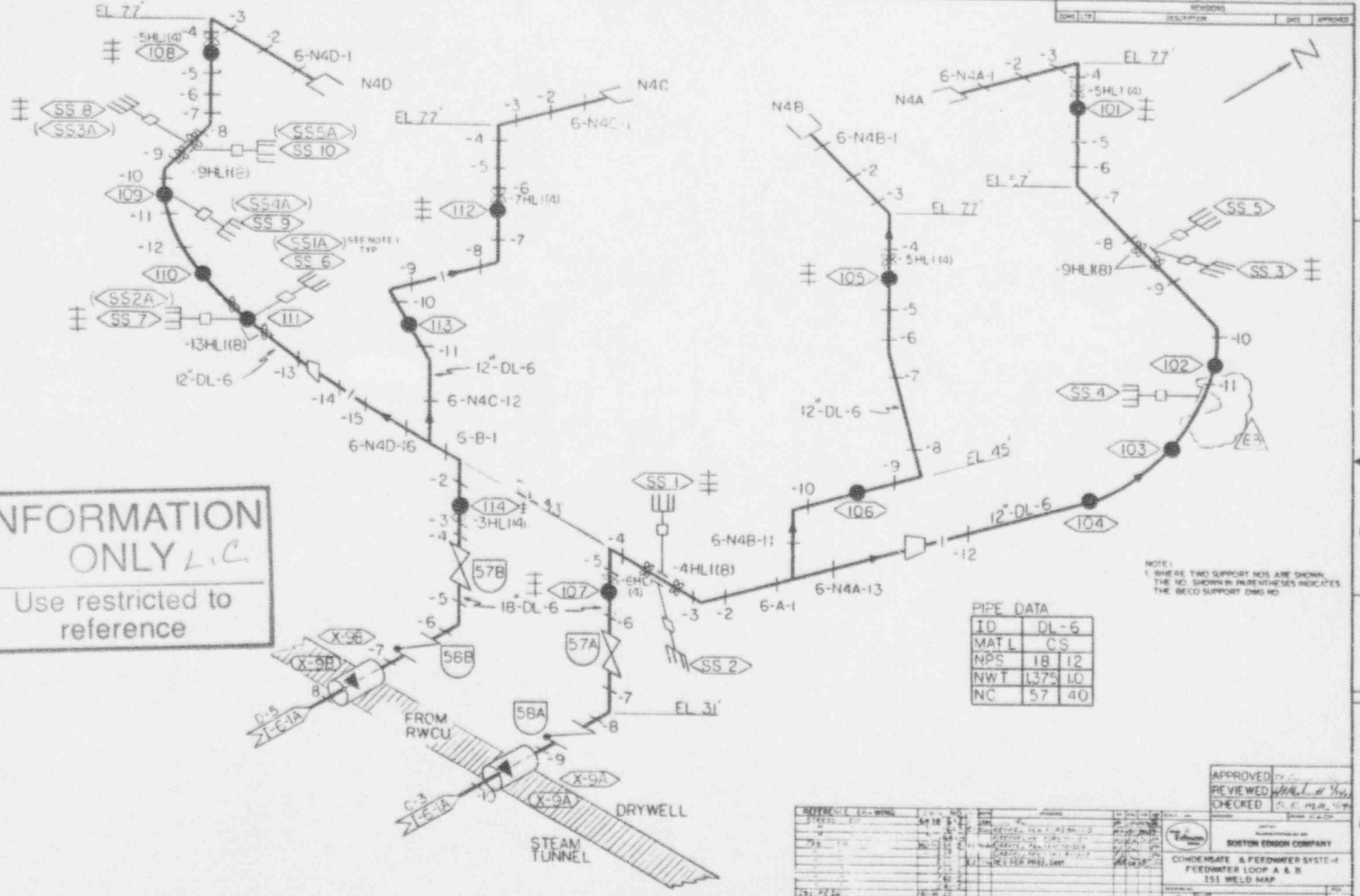
BOSTON CORROSION COMPANY	
NUCLEAR BOILER SYSTEM REACTOR VESSEL NOZZLES	
151-1-54-4	E1

ACCEPTED WITH THIS DATE

D C B A A B C D

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NO.	DESCRIPTION	DATE	APPROVED



INFORMATION ONLY
L.C.
 Use restricted to reference

NOTE:
 1. WHERE TWO SUPPORT NCS ARE SHOWN, THE NO. SHOWN IN PARENTHESES INDICATES THE BECO SUPPORT DRWG NO.

PIPE DATA

ID	DL-6
MAT L	CS
NPS	18 12
NWT	1375 10
NC	57 40

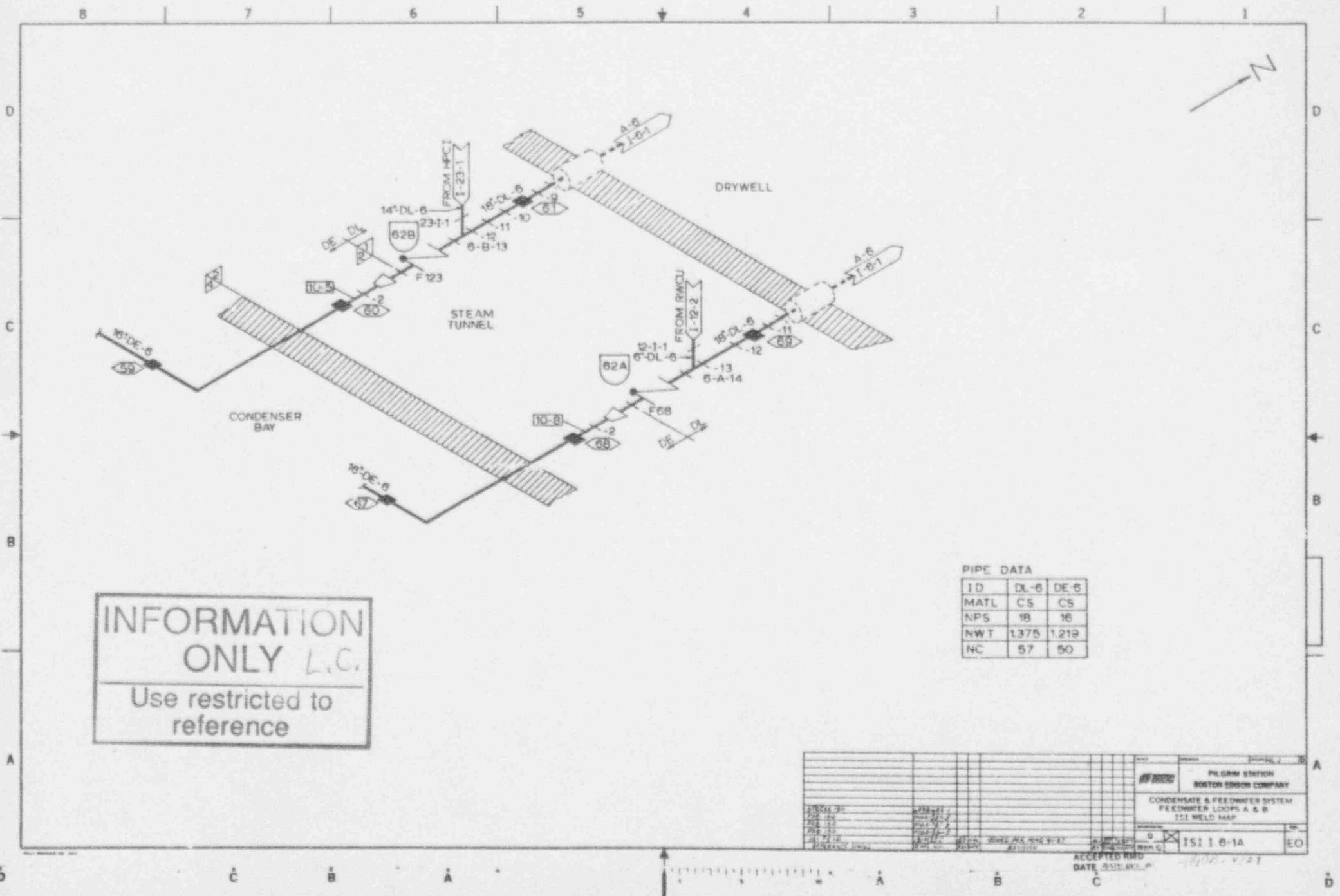
NO.	DATE	DESCRIPTION	BY	CHKD

APPROVED	
REVIEWED	
CHECKED	

BOSTON EDISON COMPANY	
CONDENSATE & FEEDWATER SYSTEM	
FEEDWATER LOOP A & B	
ISI WELD MAP	

ACCEPTED FOR THIS DATE
 41600-3907

C | B | A | A | B | C



INFORMATION
 ONLY L.C.

 Use restricted to
 reference

PIPE DATA

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

PILGRIM STATION BOSTON Edison COMPANY	
CONDENSATE & FEEDWATER SYSTEM FEEDWATER LOOPS A & B ISI WELD MAP	
DATE: 01/28/81 DRAWN BY: J. J. J. CHECKED BY: J. J. J. APPROVED BY: J. J. J. PROJECT NO.: 81-001	SHEET NO. 18-1A TOTAL SHEETS 18-1A DATE: 01/28/81 ACCEPTED RWD DATE: 01/28/81
18-1A 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