

December 16, 1993

Green Bay

**Revision and Control Third 10-Year Inservice Inspection (ISI) Program**

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Attached is Revision 0 of the ISI Plan for your use during the Third Inspection Interval. In the future, changes to this document may be made in accordance with ECD 5.17.

Please sign, date, and return a copy of this transmittal to me by *January 7, 1994*. If you have any questions, please feel free to contact me at (414) 433-1729.

I CERTIFY that the revised sections for the document described herein has been entered.

\_\_\_\_\_  
Signature/Date

When update is complete, please return this page for a record of revision to Julie Van Handel - Nuclear Power, Green Bay.

*Charles A Tomes*

Charles A. Tomes

Attach.

P.S. A copy of Revision 0 of the ISI Plan will be maintained by the State of Wisconsin, Hartford Steam Boiler and Insurance, and the NRC.

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## Revision and Control

Changes to ISI drawings will be reviewed in accordance with the requirements specified in ECP 4.23. Revision of the ISI Plan will be controlled by ECD 5.17. When a revision is made to the ISI Program Manual, the whole affected section will be sent out as an update. All original ISI sections will be sent as a permanent record to the KNPP QA Vault. The updates will be sent to all controlled copy holders (see current distribution on the following page).

A revision and control basis section will be included with each update. It will contain the revision number, a brief description of the changes that occurred with that update, the section(s) affected, the date of issuance, and the approvals.

A revision log will be maintained to track controlled copy holders manual updates. This log will be kept on the Green Bay File Server for 10 years. After the 10 years, the log may be printed and sent to the KNPP QA Vault to serve as a permanent record.

The original revision of the ISI Plan was approved by the Plant Operations Review Committee on December 6, 1993; Refer to minutes for PORC meeting 93-111. The ISI Plan consists of the following sections and appendices:

REV.	SECTION	PAGES	DESCRIPTION OF CHANGE	DATE OF ISSUANCE	APPROVALS
ORIGINAL	Section 1.0	1-1			
ORIGINAL	Section 2.0	2-1			
ORIGINAL	Section 3.0	3-1 through 3-6			
ORIGINAL	Section 4.0	4-1 through 4-3			
ORIGINAL	Section 5.0	5-1 through 5-12			
ORIGINAL	Section 6.0	6-1 through 6-36			
ORIGINAL	Section 7.0	7-1 through 7-16			
ORIGINAL	Section 8.0	8-1 through 8-3			
ORIGINAL	<b>SCHEDULE TABLES</b>				
ORIGINAL	B-A	Page 1 through 1			
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ORIGINAL	B-H	Page 1 through 1			
ORIGINAL	B-J	Page 1 through 41			
ORIGINAL	B-K-1	Page 1 through 3			

REV.	SECTION	PAGES	DESCRIPTION OF CHANGE	DATE OF ISSUANCE	APPROVALS
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ORIGINAL	B-L-2	Page 1 through 1			
ORIGINAL	B-M-2	Page 1 through 2			
ORIGINAL	B-N-1	Page 1 through 1			
ORIGINAL	B-N-2	Page 1 through 1			
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ORIGINAL	B-O	Page 1 through 3			
ORIGINAL	B-P (OPER)	Page 1 through 2			
ORIGINAL	B-P (HYDRO)	Page 1 through 2			
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ORIGINAL	D-A	Page 1 through 2			
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ORIGINAL	F-A (CLASS 1)	Page 1 through 9			
ORIGINAL	F-A (CLASS 2)	Page 1 through 6			
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ORIGINAL	Section 9.0	9-1			
ORIGINAL	Appendix A	A-1 through A-13			
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ORIGINAL	Appendix C	C-1 through C-2			
ORIGINAL	Appendix D	D-1 through D-3			
ORIGINAL	Appendix E	E-1 through E-2			
ORIGINAL	Appendix F	F-1 through F-10			
ORIGINAL	Appendix G	G-1 through G-2			

With every update, the following cover letter will be issued to controlled copy holders of the ISI Plan. This letter will include detailed instructions and a certification box that needs to be signed, dated, and returned to the Licensing Group to serve as a record of revision.

(DATE)

Green Bay

**Revision and Control Third 10-Year Inservice Inspection (ISI) Program**

J P Giesler KNPP (1, 2)  
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C S Sinoker KNPP (4, 5)  
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Attached are revisions to the ISI Program Manual. Follow the directions listed below when updating. Please sign, date, and return a copy of this transmittal to me by *(date)*.

If you have any questions, please call Chuck Tones at (414) 433-1729.

Remove (Section)	Revision	Insert (Section)	Revision

I CERTIFY that the revised sections for the document described herein has been entered.

\_\_\_\_\_  
Signature/Date

When update is complete, please return this page for a record of revision to Julie Van Handel - Nuclear Power, Green Bay.

*Charles A Tones*

Charles A. Tones

Attach.



**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD 10-YEAR  
INSERVICE INSPECTION (ISI) PROGRAM**

**1994-2004**

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## Section 1.0

### Introduction

The Inservice Inspection (ISI) Plan has been prepared for the Kewaunee Nuclear Power Plant by the Licensing Department to address the inspection requirements for the Third Inspection Interval. The original issue of the plan was approved by the Plant Operations Review Committee on December 6, 1993. The Kewaunee Nuclear Power Plant, located nine miles south of Kewaunee, Wisconsin, on the western shore of Lake Michigan, is operated by Wisconsin Public Service Corporation, Wisconsin Power & Light Company, and Madison Gas & Electric Company. The Kewaunee Nuclear Power Plant is a 535 megawatt electric, Westinghouse design, two-loop pressurized water reactor that was placed into commercial operation in June 1974.

This plan fulfills the Third Inspection Interval ISI requirements specified by the Code of Federal Regulation 10 CFR 50.55a(g) with the exception of steam generator tube and snubber examinations and the pump and valve test program. The Third Inspection Interval starts June 16, 1994, and ends June 16, 2004.

As specified in 10 CFR 50.55a(g)(4)(ii), the ASME Boiler and Pressure Vessel Code edition and addenda selected for the preparation and use of this plan during the Third Inspection Interval is the latest version incorporated by reference in 10 CFR 50.55a(b)(2) approved one year prior to the start of the Third Inspection Interval. On June 16, 1993, addenda through the 1989 edition were the latest versions of ASME Boiler and Pressure Vessel Code, Section XI, referenced in 10 CFR 50.55a(b)(2).

An exception to the use of the 1989 edition of Section XI is the use of the 1974 edition and addenda through summer 1975 addenda for determining the selection requirements of pressure retaining welds in ASME Boiler and Pressure Vessel Code Class 1 piping as allowed by 10 CFR 50.55a(b)(2)(ii).

The Section XI requirements of IWE (class MC examination) do not apply to the Third Inspection Interval at Kewaunee by virtue of the exclusion of IWE from 10 CFR 50.55a.

In addition to Section XI, other regulatory and Kewaunee plant-specific documents were used in the preparation of this plan. A listing of these documents is included in Section 9.0.

The Third Inspection Interval ISI Plan for the Kewaunee Nuclear Power Plant addresses all the welds, bolts, surfaces, and supports that are required to be examined, the method of examination, and the inspection period (3 $\frac{1}{3}$ -years time frame) during the ten years (1994-2004) when the examinations are scheduled.

This program follows Inspection Program B as defined in Section XI, IWA-2432 (10-year inspection intervals).

Discussion to clarify each section of this document is found in the front of that particular section. For example, a description and list of drawing numbers has been provided as an introduction to Appendix A, ISI Drawings.

## Section 2.0

### Background

The Kewaunee Nuclear Power Plant piping systems and associated components were designed and fabricated before the examination requirements of Section XI were formalized and published. Access to components for inservice inspection was considered during the design; and modifications have been made where practical to make provision for maximum access within the limits of the current plant design. However, since this plant was not specifically designed to meet the requirements of Section XI, 100 percent compliance is not feasible or practical. Therefore, limitations are likely to occur due to conditions such as accessibility, geometric configuration, and/or metallurgical characteristics. Typically, these conditions will be documented in the annual ISI reports. For these cases, when necessary, an alternate component will be selected for examination where practical in order to satisfy the code statistical and distribution requirements or a relief request will be submitted in accordance with 10 CFR 50.55a(g)(5).

The preservice and inservice inspection plans that have been implemented to date are listed below.

PLAN	PERIOD	DATE	ASME BOILER AND PRESSURE VESSEL CODE SECTION XI EDITION AND ADDENDA
Preservice	N/A	1973-1974	1970S71
1st Interval	1st	1974-1977	1970S71
1st Interval	2nd and 3rd	1978-1984	1974S75
2nd Interval	1st, 2nd, and 3rd	1984-1994	1980W81

The results of these examinations are documented in reports that are located in the KNPP QA Vault at the Kewaunee Nuclear Power Plant.

## Section 3.0

### Exemptions

Portions of class 1, 2, and 3 components that are exempt from certain examinations are defined by code class as follows. If an exemption is being applied to a specific examination, it is noted in the appropriate column of the tables in Section 8.0. However, exempt components are not typically specified or listed in these tables.

#### CLASS 1

##### Exemption E 1-1

Code reference: IWB-1220(b)(1)/(b)(2), 1989 edition.

##### Description

Piping of NPS 1" and smaller, and components and their connections of NPS 1" and smaller with the exception of steam generator tubing.

Method of examination exempt:	Volumetric and surface
Portion(s) of systems affected:	<ol style="list-style-type: none"><li>1. Reactor Coolant System (ISIXK-100-10)</li><li>2. Auxiliary Coolant System (ISIXK-100-18)</li><li>3. Safety Injection System (ISIXK-100-28)</li><li>4. Chemical and Volume Control (ISIXK-100-35)</li><li>5. Sampling System (ISIXK-100-44)</li></ol>

## Section 3.0

### Exemptions

#### CLASS 2

#### Exemption E 2-1

Code reference: IWC-1221(a)/(c) or IWC-1222(a)/(b), 1989 edition

#### Description

Vessels, piping, pumps, valves, and other components including component connections NPS 4" and smaller in all systems except high pressure safety injection systems of pressurized water reactor plants.

Method of examination exempt:	Volumetric and surface
Portion(s) of systems affected:	<ol style="list-style-type: none"><li>1. Reactor Coolant System (ISIXK-100-10)</li><li>2. Auxiliary Coolant System (ISIXK-100-18 and ISIXK-100-35)</li><li>3. Safety Injection System (ISIXK-100-28 and ISIXK-100-29)</li><li>4. Chemical and Volume Control (ISIXK-100-36)</li><li>5. Sampling System (ISIXK-100-44)</li><li>6. Main Auxiliary Steam and Steam Dump (ISIM-203)</li><li>7. Feedwater System (ISIM-205)</li><li>8. Chemical Injection System (ISIM-214)</li><li>9. Internal Containment Spray (ISIM-217)</li><li>10. Spent Fuel Pool Cooling and Cleanup System (ISIM-218)</li><li>11. Secondary Sampling System (ISIM-219)</li><li>12. Reactor Plant Misc. Vents, Drains, and Sump Pump Piping (ISIM-350)</li></ol>

## Section 3.0

### Exemptions

#### Exemption E 2-2

Code reference: IWC-1221(b)/(d), 1989 edition.

#### Description

Vessels, piping, pumps, valves, and other components including component connections NPS 1½" and smaller in high pressure safety injection systems of pressurized water reactor plants.

Method of examination exempt:	Volumetric and surface
Portion(s) of systems affected:	1. Safety Injection System (ISIXK-100-28 and ISIXK-100-29)

#### Exemption E 2-3

Code reference: IWC-1221(e), 1989 edition.

#### Description

Vessels, piping, pumps, valves, other components, component connections of any size in statically pressurized, passive (e.g., no pumps) safety injection systems of pressurized water reactor plants.

Method of examination exempt:	Volumetric and surface
Portion(s) of systems affected:	1. Safety Injection Accumulators and Associated Piping (ISIXK-100-28) 2. Refueling Water Storage Tank and Associated Piping (ISIXK-100-29, ISIM-217, and ISIM-218) 3. Boric Acid Tanks and Associated Piping (ISIXK-100-38)



## Section 3.0

### Exemptions

#### Exemption E 2-4

Code reference: IWC-1221(f) and IWC-1222(d), 1989 edition

#### Description

Piping and other components of any size beyond the last shutoff valve in open ended portions of systems that do not contain water during normal plant operating conditions.

Method of examination exempt:	Volumetric and surface
Portion(s) of systems affected:	1. Safety Injection System (ISIXK-100-28) 2. Internal Containment Spray (ISIM-217)

#### Exemption E 2-5

Code reference: IWC-1222(c), 1989 edition.

#### Description

Vessels, piping, pumps, valves, other components, and component connections of any size in systems or portions of systems that operate (when the system function is required) at a pressure equal to or less than 275 psig and at a temperature equal to or less than 200°F.

Method of examination exempt:	Volumetric and surface
Portion(s) of systems affected:	1. Chemical and Volume Control (ISIXK-100-36) 2. Seal Water Return Filter (ISIXK-100-36) 3. Reactor Coolant Filter (ISIXK-100-36) 4. Seal Water Heat Exchanger (ISIXK-100-36) 5. Volume Control Tank (ISIXK-100-36) 6. Charging Pump Suction Stabilizers (ISIXK-100-36) 7. Boric Acid Tanks and Associated Piping to Valves SI-2A and SI-2B (ISIXK-100-38)

## Section 3.0

### Exemptions

#### Exemption E 2-6

Code reference: IWC-1230, 1989 edition.

#### Description

Piping support members and piping support components that are encased in concrete.

Method of examination exempt:	All examination requirements of IWC-2500
Portion(s) of systems affected:	Various class 2 systems

### CLASS 3

#### Exemption E 3-1

Code reference: IWD-1220.1, 1989 edition.

#### Description

Integral attachments of supports and restraints to components that are NPS 4" and smaller within the system boundaries of examination categories D-A, D-B, and D-C of Table IWD-2500-1, except for PWR auxiliary feedwater systems.

Method of examination exempt:	Visual VT-3
Portion(s) of systems affected:	<ol style="list-style-type: none"><li>1. Auxiliary Coolant System (ISIXK-100-19 and ISIXK-100-20)</li><li>2. Chemical and Volume Control System (ISIXK-100-36 and ISIXK-100-38)</li><li>3. Service Water System (ISIM-202-1, ISIM-202-2, ISIM-547 and ISIM-606)</li><li>4. Spent Fuel Pool Cooling and Cleanup System (ISIM-218)</li><li>5. Main Auxiliary Steam and Steam Dump (ISIM-203)</li></ol>

## Section 3.0

### Exemptions

#### Exemption E 3-2

Code reference: IWD-1220.2, 1989 edition.

#### Description

Integral attachments of supports and restraints to components exceeding NPS 4", provided:

1. The components are located in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal or emergency core cooling; and
2. The components operate at a pressure of 275 psig or less and at a temperature of 200°F or less.

Method of examination exempt:	Visual VT-3
Portion(s) of systems affected:	<ol style="list-style-type: none"><li>1. Spent Fuel Pool Cooling and Cleanup System (ISIM-218)</li><li>2. Service Water System (ISIM-202-1, ISIM-202-2, M-205, and ISIM-547)</li><li>3. Component Cooling Water System (ISLXK-100-19 and ISLXK-100-20)</li></ol>

## Section 4.0

### Code Cases

The guidance of the code cases listed in Regulatory Guide 1.147, Revision 10 may be used during the course of examinations performed in the Third Inspection Interval. The following is a summary of selected code cases and how they will be applied to Kewaunee Nuclear Power Plant during the Third Inspection Interval. If a code case is being applied to a specific examination, it is noted in the appropriate column of the tables in Section 8.0.

#### Case N-460 (Approved 07/27/88)

The Examination Table (IWx-2500-1) in the Code frequently uses the expression "essentially 100%" when describing the extent of the Class 1 or Class 2 weld length or volume to be examined. 10 CFR 50.55a(g)(5)(iii) states that if a licensee has determined that conformance with certain code requirements is impractical for its facility, the licensee shall notify the Commission and submit information to support the determination (i.e., a relief request).

Kewaunee Nuclear Power Plant will utilize Code Case N-460 which states when the entire examination volume or area on any Class 1 or Class 2 weld cannot be examined due to interference by another component or part geometry, a reduction in examination coverage may be accepted provided the examination records identify both the cause and the percentage of reduced examination coverage. The implementation of this code case means that a request for relief will not be required or submitted for examinations in which 90 percent or greater coverage is achieved. However, all exam limitations will be documented and reviewed by the ANII.

#### Case N-481 (Approved 03/05/90)

Table IWB-2500-1, Examination Category B-L-1, Item B12.10 of ASME Section XI, requires that the reactor coolant pump casing weld in pump 1A receives a volumetric examination once during the Third Inspection Interval.

Kewaunee Nuclear Power Plant will utilize Code Case N-481 which states the following requirements shall be met in lieu of the code specified examination.

1. Perform a VT-2 visual examination of the pump exterior during the hydrostatic pressure test required by Table IWB-2500-1, Category B-P.
2. Perform a VT-1 visual examination of the external surfaces of the weld of one pump casing.
3. Perform a VT-3 visual examination of the internal surfaces whenever the pump is disassembled for maintenance.
4. Perform an evaluation to demonstrate the safety and serviceability of the pump casing.
5. Submit this evaluation to the regulatory authorities having jurisdiction at the site.

## Section 4.0

### Code Cases

To facilitate implementation of this code case, the above examinations have been scheduled in the examination tables of the Third Inspection Interval ISI Plan. WCAP-13044 and WCAP-13045 documents an evaluation conducted to demonstrate the safety and serviceability of Westinghouse Electric Corporation designed reactor coolant pumps. These WCAPs were transmitted by letter on October 25, 1991, to the U.S. Nuclear Regulatory Commission by the Westinghouse Owners Group. Although this Code Case requires a VT-2 visual examination during the hydrostatic pressure test, the VT-2 visual examination will be conducted during the pressure test at or near the end of the inspection interval in accordance with Code Case N-498.

#### Case N-491 (Approved 03/14/91)

Table IWF-2500-1, Examination Category F-A, Supports, requires that all supports (that are required to be examined under IWB, IWC, and IWD) receive a VT-3 visual examination once during the Third Inspection Interval.

Kewaunee Nuclear Power Plant will utilize Code Case N-491 which provides alternate rules for the examination of Class 1, 2 and 3 piping supports and supports other than piping supports. The implementation of this code case requires that component supports be divided into four groups that equate to ISI Class 1 (F1.10), ISI Class 2 (F1.20), ISI Class 3 (F1.30) piping supports and supports other than piping supports (F1.40). The supports were further divided into groups (A, B and C) by function. The group letter designations were added to the item number for each component. These groups correspond to one-directional rod hangers, multidirectional restraints and supports that allow for thermal movement (e.g., snubbers, springs and constant load), respectively. A representative sample of supports of each ISI classification and function within each system has been scheduled for examination as specified in Footnotes 1 and 2 of the table in the Code Case.

#### Case N-498 (Approved 05/13/91)

Table IWB-2500-1, Category B-P and Table IWC-2500-1, Category C-H of ASME Section XI, requires that pressure retaining components within the Class 1 and 2 system boundary receive a hydrostatic pressure test once near the end of the inspection interval.

As an alternative to the 10-year hydrostatic pressure tests required by Table IWB-2500-1, Category B-P and Table IWC-2500-1, Category C-H, KNPP will utilize Code Case N-498 which states the following requirements be satisfied.

1. Class 1
  - a. A system leakage test (IWB-5221) shall be conducted at or near the end of each inspection interval, prior to reactor startup.
  - b. The boundary subject to test pressurization during the system leakage test shall extend to all Class 1 pressure retaining components within the system boundary.

## Section 4.0

### Code Cases

- c. Prior to performing VT-2 visual examination, the system shall be pressurized to nominal operating pressure for at least 4 hours for insulated systems and 10 minutes for noninsulated systems. The system shall be maintained at nominal operating pressure during the performance of the VT-2 visual examination.
  - d. Test temperatures and pressures shall not exceed limiting conditions for the hydrostatic test curve as contained in the plant Technical Specifications.
  - e. The VT-2 visual examination shall include all components within the boundary identified in (b) above.
2. Class 2
- a. A system pressure test shall be conducted at or near the end of each inspection interval or during the same inspection period of each inspection interval of Inspection Program B.
  - b. The boundary subject to test pressurization during the system pressure test shall extend to all Class 2 components included in those portions of systems required to operate or support the safety system function up to and including the first normally closed valve (including a safety or relief valve) or valve capable of automatic closure when the safety function is required.
  - c. Prior to performing the VT-2 visual examination, the system shall be pressurized to nominal operating pressure for a minimum of four hours for insulated systems and 10 minutes for noninsulated systems. The system shall be maintained at nominal operating pressure during the performance of the VT-2 visual examination.
  - d. The VT-2 visual examination shall include all components within the boundary identified in (b) above.

## Section 5.0

### Relief Requests

The Kewaunee Nuclear Power Plant was not originally designed to meet all the requirements of the 1989 edition of Section XI. Efforts are made to provide access within the limits of the current plant design.

In accordance with 10 CFR 50.55a(g)(5), we have identified herein the areas where Section XI code requirements are impractical for the Kewaunee Nuclear Power Plant. As a result, we are requesting relief from certain code requirements and hereby establish alternative examination methods, where practicable, to achieve a sound level of integrity. We have concluded that such relief will not endanger life or property or the common defense and security and is otherwise in the public interest while giving due consideration to the burden upon Wisconsin Public Service Corporation that would result if the code requirements were imposed.

#### *CLASS 1*

##### Relief Request No. RR-1-1

##### 1. Components Affected

Three Class 1 circumferential pipe welds:

	<b>Isometric</b>	<b>Description</b>
RC-W61	ISIM-936	6" SI high head adjacent to valve SI-13B off RC cold leg
SI-W12	ISIM-982	6" SI high head adjacent to valve SI-13A off RC cold leg
RTD-W30	ISIM-1460	3" RTD return adjacent to valve RC-103A off RC intr. leg

##### 2. Section XI Requirements

Volumetric and surface examinations per the 1989 edition of Section XI, Table IWB-2500-1, Category B-J, Item B9.11.

##### 3. Basis for Requesting Relief

Due to access restrictions on either side of these welds, volumetric examination of 100% of the weld and heat affected zones cannot be performed.

## Section 5.0

### Relief Requests

#### 4. Alternative Method of Examination

Supplement the limited volumetric examination with surface examination. Surface examination will serve to detect any indications in the near surface of the weld and heat affected zone.

#### Relief Request No. RR-1-2

##### 1. Components Affected

Two Class 1 circumferential pipe welds:

	Isometric	Description
SI-W57	ISIM-938-1	10" RHR return to RC Loop B cold leg
SI-W58	ISIM-938-1	downstream of valve RHR-11

##### 2. Section XI Requirements

Volumetric and surface examinations per the 1989 edition of Section XI, Table IWB-2500-1, Category B-J, Item B9.11.

##### 3. Basis for Requesting Relief

Access restrictions on either side of these welds due to non-moveable whip restraints and supports inhibit the ability to perform volumetric examination on the weld and heat affected zones.

##### 4. Alternative Method of Examination

Supplement the limited volumetric examination with surface examination. Surface examination will serve to detect any indications in the near surface of the weld and heat affected zone.



## Section 5.0

### Relief Requests

#### Relief Request No. RR-1-3

#### 1. Components Affected

Five Class 1 Nozzles:

	Isometric
Pressurizer Surge Nozzle Inner Radius P-IR7	M-1200
Pressurizer Safety Nozzle Inner Radius P-IR8	M-1200
Pressurizer Safety Nozzle Inner Radius P-IR9	M-1200
Pressurizer Relief Nozzle Inner Radius P-IR10	M-1200
Pressurizer Spray Nozzle Inner Radius P-IR11	M-1200

#### 2. Section XI Requirements

Volumetric examination of nozzle inner radius per the 1989 edition of Section XI, Table IWB-2500-1, Category B-D, Item B3.120.

#### 3. Basis for Requesting Relief

The pressurizer inner radius sections cannot be ultrasonically examined for the following reasons:

- a. Course grain found in castings causes sound to be attenuated.
- b. Cannot maintain a perpendicular scan to the inner radius section.
- c. Difficult to differentiate flaws from normal geometry (clad roll).
- d. No ASME code-qualified examination procedures exist to perform this examination on castings.
- e. Section V of the ASME Boiler and Pressure Vessel code provides no guidance for the design and fabrication of calibration blocks for examination of a nozzle inner radius.

WPSC has reviewed several vendor "best effort" outer surface volumetric methods, and we have determined that these procedures do not provide for inspecting all of the code required examination volume at code sensitivities for cast materials.

## Section 5.0

### Relief Requests

#### 4. Alternative Methods of Examination

The surge line (at bottom of pressurizer) is inaccessible for visual exam even when the manway (at top of pressurizer) is removed; therefore, no alternative exam on the pressurizer surge nozzle can be performed. The design of the pressurizer is such that access to the inside of the safety, relief, and spray nozzles requires removing the manway and entering through the access port. If the pressurizer manway is removed for purposes of maintenance, the performance of a visual (VT-3) examination of the pressurizer spray, relief, and safety nozzle inner radius sections will be considered by the plant staff.

The integrity of these nozzles will be verified during the Class 1 system leakage test which is performed after each refueling outage during startup as required by Table IWB-2500-1, Category B-P, Item B15.20.

#### Relief Request No. RR-1-4

##### 1. Components Affected

Four Class 1 Nozzles:

	Isometric
Steam Generator 1A Hot Leg Nozzle Inner Radius SG-IR 21	M-1201
Steam Generator 1A Intermediate Leg Nozzle Inner Radius SG-IR 22	M-1201
Steam Generator 1B Hot Leg Nozzle Inner Radius SG-IR 23	M-1201
Steam Generator 1B Intermediate Leg Nozzle Inner Radius SG-IR 24	M-1201

##### 2. Section XI Requirements

Volunetric examination of nozzle inner radius per the 1989 edition of Section XI, Table IWB-2500-1, Examination Category B-D, Item B3.60.

## Section 5.0

### Relief Requests

#### 3. Basis for Requesting Relief

No practical method exists for volumetrically examining the inner radius of the steam generator nozzles at the Kewaunee Nuclear Power Plant (KNPP). A volumetric examination would require significant research and development efforts. Due to the complex geometry (and other reasons discussed herein), the utilization of either a demonstration block or unrestricted access to the inside surface of the nozzle is required for development of an ultrasonic examination procedure. During original plant construction, Wisconsin Public Service Corporation (WPSC) did not design or fabricate a demonstration block. The original plant ISI rules and existing ISI rules for the steam generator nozzle do not mandate the utilization of a demonstration block.

Utilizing the actual steam generator inner radius section to develop an ultrasonic examination procedure requires access to both the inside and outside surface of the nozzle. The design of the steam generator is such that access to the inner radius section requires removing and entering through the primary manways. The radiation levels inside the steam generator primary bowl range from approximately 1-5 R/hr. After access to the inside surface has been obtained, this process would consist of plotting the area of the nozzles to be ultrasonically tested. Procedure development would require trial and error sound attenuation to ensure proper volumetric examination beam angles, transducer frequency, sound path depth, and scanning paths. Utilizing the existing steam generator nozzle inner radius sections for development of an ultrasonic examination procedure would require extensive manhours (i.e., estimated 16 hours) inside the steam generator resulting in very high radiation dose.

Even if WPSC had a demonstration block or unrestricted access to the inside radius section, research and development efforts would not result in an ultrasonic examination procedure capable of satisfying the code required examination coverage for the following reasons:

- a. The coarse grain found in castings causes sound to be attenuated.
- b. A perpendicular scan to the inner radius section cannot be maintained.
- c. It is difficult to differentiate flaws from normal geometry (clad roll).
- d. Section V of the ASME code provides no guidance for the design and fabrication of calibration blocks for nozzle inner radius sections.

WPSC has reviewed several vendor "best effort" outer surface volumetric methods and although improvements have been made in this evolving technology, there are still no methods currently available that satisfy code requirements for examination volume and sensitivities for cast material. A volumetric examination is impractical for KNPP at this time.

## Section 5.0

### Relief Requests

#### 4. Alternative Method of Examination

A remote visual examination of the accessible portions of the inner radius will be performed using a robotic type camera. A visual examination of the OD and ID surfaces is more reliable than the ultrasonic examination required by Section XI. This Section XI visual examination is more than adequate for the detection of gross cracking that could effect the pressure boundary. These examinations will be performed, concurrent with scheduled steam generator tube eddy current inspections and/or nozzle dam installation or removal. The steam generator tube inspection frequency will be in accordance with Technical Specification 4.2.b.3. Due to the extremely high radiation levels, a camera will not be installed for the exclusive purpose of conducting this visual examination. The visual examinations will only be performed when a camera is already installed in the steam generator bowl for scheduled activities such as steam generator tube eddy current inspection or nozzle dam installation and/or removal. VT-2 inspections will also be performed during the periodic Class 1 system pressure tests. These examinations will ensure integrity of the pressure boundary.

WPSC is considering replacement of the steam generators at KNPP. Replacement is expected to be performed during the Third Inspection Interval (1994-2004). Since WPSC is required and committed to examining Section XI components, design and material selection for the bowl of the new steam generators is currently being evaluated to ensure a volumetric examination can be adequately performed following replacement. WPSC is considering a forged bowl for the new steam generators. The forged construction will reduce the technical difficulties associated with performing examinations on cast material. A mock-up of the steam generator nozzle might also be procured to permit development and qualification of the UT procedure consistent with the intent of Appendix VIII of Section XI.

#### Relief Request No. RR-1-5

##### 1. Components Affected

Class 1 NPS 2" Auxiliary Spray Piping:

	Isometric	Description
NPS 2" Auxiliary Spray Piping	ISIM-874-3	8" long, NPS 2", Schedule 160, stainless steel pipe located between valve CVC-16 and valve CVC-15

## Section 5.0

### Relief Requests

#### 2. Section XI Requirements

A VT-2 visual examination of auxiliary spray piping per 1989 edition of Section XI, Table IWB-2500-1, Category B-P, Item B15.51, footnote 2. This requires that all Class 1 components within the system boundary be pressurized.

#### 3. Basis for Requesting Relief

Pressurizer pressure is maintained by the reactor coolant pumps via normal pressurizer spray. Normal pressurizer spray is controlled by the pressurizer pressure control system which automatically controls the pressurizer environment. The primary purpose of the auxiliary spray line is for pressure control when the reactor coolant pumps are not running. (i.e., during a post accident condition when it is desired to decrease reactor coolant system pressure.) The use of the auxiliary spray line at hot standby or power may lead to an unnecessary plant transient. Implementing this code requirement requires that the plant open valve CVC-15 to pressurize the subject pipe. Opening of valve CVC-15 at hot standby or power increases pressurizer spray which will cause an adverse reduction in reactor coolant system pressure.

#### 4. Alternative Method of Examination

Perform a VT-2 visual examination during the Class 1 system hydrostatic pressure test in accordance with Code Case N-498 except that the pressurization boundary will be dictated by the Class 1 system leakage test requirements specified in Table IWB-2500-1, examination category B-P, item number B15.50.

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Relief Requests

CLASS 3

Relief Request No. RR-3-1

1. Components Affected

Four Class 3 integrally welded attachments:

	Isometric	Description
SW-H10	ISIM-900	20" Train B Service Water Header adjacent to valve SW-4B
SW-H87	ISIM-924-1	16" Train B Service Water Header
SW-H181	ISIM-922	8" Train B Service Water to Containment Penetration 37EN
SW-H182	ISIM-922	8" Train B Service Water to Containment Penetration 37ES

2. Section XI Requirements

VT-3 Visual examination per 1989 edition of Section XI, Table IWD-2500-1, Category D-B, Item D2.20.

3. Basis for Requesting Relief

These integrally welded attachments are made inaccessible by sealed penetrations.

4. Alternative Method of Examination

Due to access restrictions, no alternative method of examination can be employed in these areas.

## Section 5.0

### Relief Requests

#### Relief Request No. RR-3-2

#### 1. Components Affected

Five Class 3 component supports:

	Isometric	Description
SW-H10	ISIM-900	20" Train B Service Water Header adjacent to valve SW-4B
SW-H87	ISIM-924-1	16" Train B Service Water Header
SW-H148	ISIM-901	16" Train A Service Water Header
SW-H181	ISIM-922	8" Train B Service Water to Containment Penetration 37EN
SW-H182	ISIM-922	8" Train B Service Water to Containment Penetration 37ES

#### 2. Section XI Requirements

VT-3 Visual examination per 1989 edition of Section XI, Table IWF-2500-1, Category F-A, Item F1.30B.

#### 3. Basis for Requesting Relief

These component supports are made inaccessible by sealed penetrations.

#### 4. Alternative Method of Examination

Due to access restrictions, no alternative method of examination can be employed in these areas.

## Section 5.0

### Relief Requests

#### General Relief Requests

##### Relief Request No. RR-G-1

#### 1. Components Affected

Class 1, 2 and 3 pressure retaining fasteners, e.g., bolts, studs, nuts, bushings, and washers.

#### 2. Section XI Requirements

##### IWA-5250(a)(2) Corrective Measures

(a) The source of leakages detected during the conduct of a system pressure test shall be located and evaluated by the Owner for corrective measures as follows:

(2) If leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion, and evaluated in accordance with IWA-3100;

#### 3. Basis for Requesting Relief

Satisfying this Code requirement may require significant planning and scheduling due to existing Technical Specification requirements, operational concerns, and personnel safety. To allow for these considerations our intent is to repair the bolted connection at the next scheduled refueling outage if the joint can be shown to be acceptable for continued service. Typically, a valve (and associated piping) is removed from service prior to maintenance activities. In cases of unisolable or non-redundant piping, the requirement to remove the bolting in order to conduct an evaluation, may necessitate shutdown and depressurization of the plant. Shutdown of the plant for the sole purpose of satisfying this Code requirement constitutes an undue hardship in that the plant would be subjected to unnecessary fatigue cycles. The integrity of the bolted connection can be adequately accessed without removal of the bolting.

#### 4. Alternative Method of Examination

The following list includes those activities that may be performed to access the integrity of the bolted connection without removal of the bolting:

- a. Ultrasonic examination,
- b. Radiography,
- c. Observation and analysis of corrosion products,
- d. Assessment of affected area of joint,
- e. Analysis of number of fasteners needed to maintain closure,



## Section 5.0

### Relief Requests

- f. Consideration of corrosion resistance of bolting material,
- g. Tightening of joint to stop or reduce leakage,
- h. Inspection of other components in the immediate and surrounding vicinity to ensure no adverse conditions exist as a result of the leakage, and
- i. Monitoring.

Information from these items will be collectively utilized as needed to determine whether or not the joint can perform its function until the next scheduled refueling outage. The evaluation shall be documented in writing, approved by the Plant Operating Review Committee, and maintained in the KNPP QA Vault. Results of these findings will be made available to the regulatory and enforcement authority having jurisdiction at the plant site via transmittal of Form NIS-2, "Owner's Report for Repairs or Replacements."

## Section 6.0

### ISI Plan

Section 6.0 is a summary of the code requirements sorted by code item number. This section defines the total number of components that exist at the Kewaunee Nuclear Power Plant per code item number and defines how many have been selected for examination each period. Comments are also provided to clarify particular code requirements (e.g., the comment for examination category C-C states that in case of multiple vessels of similar design and service, the required examinations may be conducted on only one vessel).

#### Selection and Scheduling Criteria

The following outlines the basis used in selection of items to be examined and the scheduling of those items by period during Kewaunee's Third Inspection Interval.

##### 1. Selection Criteria

The methodology used for selecting a weld/surface/component/component support to be examined was based on one or more of the following factors.

- a. As stated in 10 CFR 50, if the facility's application for a construction permit was docketed prior to July 1, 1978, the use of ASME Boiler and Pressure Vessel Code, 1974 Edition with Addenda through and including Summer 1975 is acceptable for selection of code class 1 pipe welds under examination category B-J. However, the method, frequency, and applicable footnotes were extracted from ASME Boiler and Pressure Vessel Code Section XI, 1989 Edition.
- b. Inspection Program B.
- c. Section XI specified 100 percent of welds/surfaces/components/component supports requires examination.
- d. Section XI clearly specifies which weld/surface/component/component support is to be examined. (e.g., all structural discontinuity welds, longitudinal welds that intersect the circumferential weld, all terminal ends in each pipe or branch run connected to vessels, ..., spaces above and below the reactor core.)
- e. Section XI specifies that less than 100 percent of the items identified in item "d" are required to be examined. This selection is further based on location, multiple stream requirements and a representative cross sampling of systems.
- f. An additional item number was created to address certain ISI Class 2 pressure retaining piping welds. These welds are not subject to examination since the nominal wall thickness is less than the lower limit (0.375") specified in Table IWC-2500-1. The item number that was assigned to these welds is C5.14. These welds have been included in the total weld count to which the sampling rate has been applied in accordance with ASME Section XI.

## Section 6.0

### ISI Plan

Strict adherence to the Code in this regard and not conducting examinations on piping welds that are below the nominal wall thickness requirements essentially eliminates examinations to ISI Class 2 pressure retaining piping welds in the residual heat removal system and the internal containment spray system since all of this piping is less than the nominal wall thickness that is specified in the Code. Therefore, these RHR and ICS piping welds were assigned an item number of C5.13, and as a good practice, an appropriate sample of these welds was selected and scheduled for examination during the Third Inspection Interval.

As stated in Code Case N-491, "Piping supports to be examined shall be the supports of piping not exempted under IWB-1220, IWC-1220, IWD-1220 and IWE-1220." Since the piping welds would not normally be selected for examination, the supports that are on this piping have not been scheduled for examination.

- g. High energy line whip restraints that do not provide component support are excluded from the requirements of ASME Boiler and Pressure Vessel Code Section XI.

#### 2. Scheduling Criteria

Once the appropriate welds/surfaces/components/component supports were selected for examination, they were then scheduled for a particular period within the interval in accordance with one of the following code requirements:

- a. Deferral of inspection to the end of interval (EOI or third period). Items that may be deferred until the EOI have been identified in the ISI schedule tables. The plant staff has placed items that may be deferred in the period that is most convenient in terms of resource planning and scheduling. However, the examinations may occur during any one of the periods prior to EOI as preferred by the plant.
- b. Nonpermissible deferral. For these items, examination was distributed in accordance with the minimum/maximum allowable percentage per period as outlined by IWB-2412, IWC-2412, and IWD-2412. Further consideration was given to the last examination of that item (if applicable) and the geometric configuration. For example, if an item was last examined in the second period of the second inspection interval, if possible, it has been scheduled for no later than the second period of the third inspection interval. If a second interval inspection was not performed or was performed at EOI, a geometric sampling method or location method, as applicable, was used.

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ISI Plan

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B1.11	2	100	2	2	100	0	0	2	May be deferred to end of Interval.
B1.12	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B1.21	2	100	2	2	100	0	0	2	May be deferred to end of Interval.
B1.22	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B1.30	1	100	1	1	100	1	0	1	May be deferred to end of Interval. If partial examinations are conducted from the flange face, the remaining volumetric examinations required to be conducted from the vessel wall may be performed at or near the end of the inspection interval. The examination may be performed during the first and third inspection periods in conjunction with the B-D nozzle exams. At least 50% of the shell to flange welds shall be examined by the end of the first inspection period, the remainder by the end of the third period.

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ISI Plan

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B1.40	1	100	1	1	100	1	1	1	May be deferred to end of Interval. If partial examinations are conducted from the flange face, the remaining volumetric examinations required to be conducted from the vessel wall may be performed at or near the end of the inspection interval.
BI.51	0	N/A	N/A	0	0	0	0	0	There are no weld repair areas in the beltline region.
B2.11	2	100	2	2	100	2	2	2	Examine 33% of each weld during each inspection period.
B2.12	2	100	2	2	100	2	2	2	1 Ft. of one weld per head.
B2.21	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B2.22	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B2.31	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B2.32	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B2.40	2	N/A	1	1	N/A	1	1	1	The examination may be limited to one vessel among the group of vessels performing a similar function.
B2.51	0	N/A	N/A	0	0	0	0	0	The examination may be limited to one vessel among the group of vessels performing a similar function. Excess Letdown Heat Exchanger has 3/4" Inlet and Outlet lines and is exempt per IWB-1220(b)(1) and (2).
B2.52	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B2.60	0	N/A	N/A	0	0	0	0	0	The examination may be limited to one vessel among the group of vessels performing a similar function. Excess Letdown Heat Exchanger has 3/4" Inlet and Outlet lines and is exempt per IWB-1220(b)(1) and (2).
B2.70	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B2.80	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B3.10	0	N/A	N/A	0	0	0	0	0	Inspection Program A does not apply.
B3.20	0	N/A	N/A	0	0	0	0	0	Inspection Program A does not apply.
B3.30	0	N/A	N/A	0	0	0	0	0	Inspection Program A does not apply.
B3.40	0	N/A	N/A	0	0	0	0	0	Inspection Program A does not apply.
B3.50	0	N/A	N/A	0	0	0	0	0	Inspection Program A does not apply.
B3.60	0	N/A	N/A	0	0	0	0	0	Inspection Program A does not apply.
B3.70	0	N/A	N/A	0	0	0	0	0	Inspection Program A does not apply.
B3.80	0	N/A	N/A	0	0	0	0	0	Inspection Program A does not apply.

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B3.90	6	100	6	6	100	2	0	4	May be partially deferred to end of Interval. If examinations are conducted from inside the component and the nozzle weld is examined by straight beam ultrasonic method from the nozzle bore, the remaining examinations required to be conducted from the shell inside diameter may be performed at or near the end of the inspection interval.
B3.100	6	100	6	6	100	2	0	4	
B3.110	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant. Pressurizer nozzles are integrally cast.
B3.120	5	100	5	5	100	5	5	5	See Relief Request RR-1-3.
B3.130	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant. Steam Generator nozzles are integrally cast.
B3.140	4	100	4	4	100	4	4	4	See Relief Request RR-1-4.



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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B3.150	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B3.160	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B4.11	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B4.12	40	25	10	20	50	0	0	20	The Code requires that examinations be conducted during the system hydrostatic pressure test. Examinations will be conducted during pressure test in accordance with Code Case N-498. All peripheral CRDMs are scheduled for examination.
B4.13	36	25	9	36	100	0	0	36	The Code requires that examinations be conducted during the system hydrostatic pressure test. Examinations will be conducted during pressure test in accordance with Code Case N-498. Reactor vessel (36 total).

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B4.20	78	100	78	78	100	0	0	78	The Code requires that examinations be conducted during the system hydrostatic pressure test. Examinations will conducted during pressure test in accordance with Code Case N-498. Pressurizer Heater Penetration welds.
B5.10	6	100	6	6	100	3	0	3	RPV nozzle safe ends may be examined coincident with B-D nozzle examinations.
B5.20	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.30	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.40	5	100	5	5	100	1	3	1	
B5.50	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.60	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.70	4	100	4	4	100	1	1	2	

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B5.80	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.90	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.100	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.110	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.120	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.130	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.140	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B5.150	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.10	48	100	48	48	100	16	16	16	
B6.20	0	N/A	N/A	0	0	0	0	0	Not applicable. All studs removed for examination.

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B6.30	48	100	48	48	100	16	16	16	May be deferred to end of interval except when the detected leakage of borated water requires a VT-1 visual examination in accordance with IWA-5250(a)(2).
B6.40	48	100	48	48	100	16	9	23	
B6.50	48	100	48	48	100	16	16	16	
B6.60	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.70	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.80	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.90	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.100	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.110	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B6.120	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.130	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.140	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.150	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.160	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.170	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.180	48	N/A	24	24	N/A	8	8	8	Bolts. Examinations are limited to those components selected for examination under examination category B-L-2. May be deferred to end of interval except when the detected leakage of borated water requires a VT-1 visual examination in accordance with IWA-5250(a)(2).

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B6.190	48	N/A	24	0	0	0	0	0	Flange surface will be examined if connection is disassembled. Examinations are limited to those components selected for examination under examination category B-L-2. May be deferred to end of interval except when the detected leakage of borated water requires a VT-1 visual examination in accordance with IWA-5250(a)(2).
B6.200	48	N/A	24	24	N/A	8	8	8	Nuts. Examinations are limited to those components selected for examination under examination category B-L-2. May be deferred to end of interval except when the detected leakage of borated water requires a VT-1 visual examination in accordance with IWA-5250(a)(2).
B6.210	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.220	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B6.230	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B7.10	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B7.20	1	100	1	1	100	1	0	0	One manway consisting of 16 bolts, studs and nuts.
B7.30	4	N/A	2	2	N/A	0	1	1	There are a total of four (4) manways. Two manways per Steam Generator consisting of 16 studs and nuts and 32 washers each. Examination is limited to those components selected for examination under examination category B-B.
B7.40	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B7.50	8	100	8	8	100	3	2	3	There are a total of eight (8) Class 1 piping flange connections.
B7.60	2	N/A	1	1	N/A	0	0	1	There are a total of two (2) Class 1 pump seal connections consisting of 12 bolts each. Examination is limited to those components selected for examination under examination category B-L-2.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B7.70	29	N/A	5	5	N/A	1	3	1	There are a total of twenty nine (29) Class 1 valves with pressure retaining bolting. Examination is limited to those components selected for examination under examination category B-M-2.
B7.80	3	100	3	3	100	1	1	1	Examine bolts, studs and nuts if connection is disassembled. Only three CRDM housings have Marmon Clamp and Conoseal Bolting (#34, #35, and #37).
B8.10	6	0	0	0	0	0	0	0	There are two bracket supports on the vessel shell at 90° and 270°. The support pads underneath the Inlet and Outlet nozzles are also welded. Inspection Program B. Not required for third interval.
B8.20	1	0	0	0	0	0	0	0	Inspection Program B. Not required for third interval.
B8.30	0	N/A	N/A	0	0	0	0	0	Inspection Program B. Not required for third interval. None at Kewaunee Nuclear Plant.



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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B8.40	0	N/A	N/A	0	0	0	0	0	Inspection Program B. Not required for third interval. None at Kewaunee Nuclear Plant.
B9.11	164	25	41	45	27	14	16	15	
B9.12	8	25	2	2	25	2	0	0	
B9.21	95	25	24	26	27	8	9	9	
B9.22	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B9.31	9	25	2	3	33	1	1	1	
B9.32	16	25	4	4	25	1	1	2	
B9.40	343	25	86	89	26	29	29	31	
B10.10	22	0	0	0	0	0	0	0	Inspection Program B. Not required for third interval.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B10.20	6	0	0	0	0	0	0	0	Inspection Program B. Not required for third interval. Pumps RCP-1A and RCP-1B have three pump support feet each that are integrally welded.
B10.30	0	0	0	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B12.10	1	100	1	1	100	0	0	1	May be deferred to end of Interval. Weld exists in RCP-1A. Examination will be as specified in Code Case N-481.
B12.20	2	N/A	1	0	N/A	0	0	0	May be deferred to end of Interval. Examination is required for one pump if disassembled for maintenance, repair or volumetric examination.
B12.30	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B12.40	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B12.50	17	N/A	N/A	0	N/A	0	0	0	May be deferred to end of Interval. There are 17 valves that comprise 5 "groups" of valves that are of the same size, constructional design and manufacturing method, and that perform similar functions. Examination is required when valve is disassembled.
B13.10	1	N/A	1	1	N/A	1	1	1	Areas to be examined shall include the spaces above and below the core that are made accessible for examination by removal of components during normal refueling outages.
B13.20	0	N/A	N/A	0	0	0	0	0	This Item applies to BWR vessels only.
B13.30	0	N/A	N/A	0	0	0	0	0	This Item applies to BWR vessels only.
B13.40	0	N/A	N/A	0	0	0	0	0	This Item applies to BWR vessels only.
B13.50	1	N/A	1	1	N/A	0	0	1	May be deferred to end of Interval. Examination of accessible areas to be performed once during inspection interval when core barrel removed.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B13.60	1	N/A	1	1	N/A	0	0	1	Areas to be examined shall include the spaces above and below the core that are made accessible for examination by removal of components during normal refueling outages. The vessel interior is required to be examined once each period.
B13.70	1	N/A	1	1	N/A	0	0	1	May be deferred to end of Interval. Examination to be performed once during inspection interval when core barrel removed.
B14.10	23	10	3	3	10	0	0	3	May be deferred to end of Interval. Examine 10% of the peripheral CRDMs. There are a total of 40 CRDM housing welds. Only 23 of these are peripheral.
B15.10	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B15.11	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
B15.20	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B15.21	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
B15.30	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B15.31	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
B15.40	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B15.41	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
B15.50	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
B15.51	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
B15.60	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B15.61	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
B15.70	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.

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		% Required	No. Required			Per 1	Per 2	Per 3	
B15.71	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
B16.10	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
B16.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	The extent and frequency of Steam Generator Tube examinations are conducted in accordance with plant technical specifications.
C1.10	11	N/A	6	6	N/A	2	2	2	In the case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels. There are two RHR HXs, examine one (1) weld. There is one Letdown HX, examine one (1) weld. There are two Seal Water Injection Filters, examine one (1) weld. There are two Steam Generators, examine three (3) welds. Item applies only to gross structural discontinuity welds as defined in NB-3213.2.



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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C1.20	19	N/A	8	8	N/A	2	3	3	In the case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels. There are two Steam Generators, examine one (1) weld. There are two RHR HXs, examine one (1) weld. There are three Regenerative HXs (Three vessels of like design), examine two (2) welds. There is one Letdown HX, examine one (1) weld. There are three Charging Pump Pulsation Dampeners, examine two (2) welds, There are two Seal Water Injection Filters, examine one (1) weld.
C1.30	8	N/A	3	3	N/A	1	1	1	In the case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels. There are two Steam Generators, examine one (1) weld. There are three Regenerative HXs (Three vessels of like design), examine two (2) welds.
C2.11	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C2.21	4	N/A	2	2	N/A	1	0	1	In the case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels. Steam Generators have a total of two (2) main steam nozzles and two (2) feedwater nozzles each.
C2.22	4	N/A	2	2	N/A	1	0	1	In the case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels. Steam Generators have a total of two (2) main steam inner radius sections and two (2) feedwater inner radius sections.
C2.31	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant. The vessel wall thickness of the RHR HXs is not greater than 1/2" and therefore, is not subject to examination.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C2.32	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant. The vessel wall thickness of the RHR HXs is not greater than 1/2" and therefore, is not subject to examination.
C2.33	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant. The vessel wall thickness of the RHR HXs is not greater than 1/2" and therefore, is not subject to examination.
C3.10	4	N/A	2	2	N/A	1	1	0	In the case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels. There are two RHR HXs with a total of four (4) integrally welded supports that are 3/4" thick, examine two (2) of these IWAs.
C3.20	12	100	12	12	100	3	4	5	
C3.30	8	N/A	8	8	N/A	3	2	3	There are two Safety Injection Pumps with a total of eight (8) integrally welded supports that are 3/4" thick or greater.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C3.40	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
C4.10	0	N/A	N/A	0	0	0	0	0	There is no Class 2 pressure retaining bolting greater than 2" in diameter at Kewaunee Nuclear Plant.
C4.20	0	N/A	N/A	0	0	0	0	0	There is no Class 2 pressure retaining bolting greater than 2" in diameter at Kewaunee Nuclear Plant.
C4.30	0	N/A	N/A	0	0	0	0	0	There is no Class 2 pressure retaining bolting greater than 2" in diameter at Kewaunee Nuclear Plant.
C4.40	0	N/A	N/A	0	0	0	0	0	There is no Class 2 pressure retaining bolting greater than 2" in diameter at Kewaunee Nuclear Plant.
C5.11	37	7.5	3	4	11	1	2	1	
C5.12	5	7.5	1	2	40	2	0	0	

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		% Required	No. Required			Per 1	Per 2	Per 3	
C5.13	408	0	0	31	7.5	9	10	12	This Item Number represents those welds that are not within the requirements of Table IWC-2500-1 due to the wall thickness limitation. (They are less than 3/8" thick.) These welds are, however, included in the total weld count to which the 7.5% sampling rate is applied as required by Table IWC-2500-1, Footnote 2. As a good practice, an appropriate percentage of these welds are scheduled for examination and distributed within systems that would otherwise not be properly sampled and examined.
C5.14	65	0	0	0	0	0	0	0	No C5.14 welds are scheduled for examination since they are not required to be examined in accordance with Table IWC-2500-1. These welds are, however, included in the total weld count to which the 7.5% sampling rate is applied as required by Table IWC-2500-1, Footnote 2.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C5.21	107	7.5	10	10	9	3	3	4	The number of welds required to be examined was increased from 8 to 10 due to the C5.14 welds that were added to the total weld count to which the 7.5% sampling rate was applied as required by Table IWC-2500-1.
C5.22	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
C5.30	155	7.5	15	15	10	5	5	5	The number of welds required to be examined was increased from 12 to 15 due to the C5.14 welds that were added to the total weld count to which the 7.5% sampling rate was applied as required by Table IWC-2500-1.
C5.41	17	7.5	1	3	18	1	1	1	
C5.42	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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		% Required	No. Required			Per 1	Per 2	Per 3	
C5.51	106	7.5	18	18	17	5	6	7	The number of C5.51 welds required to be examined was increased from 8 to 18 to bring the total number of C-F-2 welds that are scheduled for examination to 28. A total of 28 C-F-2 piping welds are required to be examined as required by Table IWC-2500-1, Footnote 2.
C5.52	43	7.5	7	7	16	2	2	3	The number of C5.52 welds required to be examined was increased from 3 to 7 to bring the total number of C-F-2 welds that are scheduled for examination to 28. A total of 28 C-F-2 piping welds are required to be examined as required by Table IWC-2500-1, Footnote 2.
C5.61	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
C5.62	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
C5.70	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C5.81	14	7.5	3	3	21	1	1	1	The number of C5.81 welds required to be examined was increased from 1 to 3 to bring the total number of C-F-2 welds that are scheduled for examination to 28. A total of 28 C-F-2 piping welds are required to be examined as required by Table IWC-2500-1, Footnote 2.
C5.82	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
C6.10	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
C6.20	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
C7.10	2	100	2	2	100	1	1	0	Pressure test required during each inspection period. As a good practice, a VT-2 visual examination will be conducted on the telltale hole of the RHR HX Inlet and Outlet nozzles.



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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C7.20	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10. As a good practice, a VT-2 visual examination will be conducted on the telltale hole of the RHR HX Inlet and Outlet nozzles.
C7.30	2	100	2	2	100	1	1	0	Pressure test required during each inspection period.
C7.40	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
C7.50	2	100	2	2	100	1	1	0	Pressure test required during each inspection period.

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C7.60	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
C7.70	2	100	2	2	100	1	1	0	Pressure test required during each inspection period.
C7.80	1	100	1	1	100	0	0	1	A hydrostatic pressure test will not be performed during the inspection interval. A pressure test will be performed in lieu of this test as allowed by Code Case N-498 referenced in Regulatory Guide 1.147, Revision 10.
D1.10	3	100	3	3	100	1	1	1	Pressure test required during each inspection period. A hydrostatic pressure test (in lieu of the pressure test) is required to be performed at or near the end of the inspection interval (i.e., during the last inspection period).
D1.20	16	100	16	16	100	4	4	8	

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ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
D1.30	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D1.40	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D1.50	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D1.60	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D2.10	3	100	3	3	100	1	1	1	Pressure test required during each inspection period. A hydrostatic pressure test (in lieu of the pressure test) is required to be performed at or near the end of the inspection interval (i.e., during the last inspection period).
D2.20	65	100	65	65	100	18	27	20	
D2.30	1	100	1	1	100	0	0	1	
D2.40	18	100	18	18	100	1	8	9	
D2.50	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.

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WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
D2.60	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D3.10	3	100	3	3	100	1	1	1	Pressure test required during each inspection period. A hydrostatic pressure test (in lieu of the pressure test) is required to be performed at or near the end of the inspection interval (i.e., during the last inspection period).
D3.20	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D3.30	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D3.40	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D3.50	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
D3.60	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Plant.
F1.10	132	25	33	33	25	9	10	14	
F1.20	82	15	12	12	15	4	4	4	

Section 6.0

ISI Plan

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Inservice Inspection Plan									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
F1.30	195	10	20	21	10	6	6	9	
F1.40	134	N/A	N/A	73	N/A	24	23	26	For multiple components other than piping, within a system of similar design, function, and service, the supports of only one of the multiple components are required to be examined.

## Section 7.0

### Distribution

Section 7.0 shows the distribution of components subject to examination under Examination Category B-J, C-F-1, and C-F-2 by system. Component supports subject to examination under Examination Category F-A are distributed and scheduled for examination in accordance with the requirements of Code Case N-491. The total number of welds that exists within the system examination boundary and the number selected for examination during each period are defined. The total number of component supports subject to examination within the ASME Boiler and Pressure Vessel Code Section XI Class 1, 2, and 3 boundary and the number selected for examination during each period is defined. The distribution by system for other examination categories is not provided in Section 7.0 because the code item number applies to a specific piece of equipment (e.g., reactor pressure vessel, steam generator, or pressurizer), or only a few components are governed by a given examination category.

Section 7.0

Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category B-I Piping Weld Distribution								
Item Number	System	Total Subject to Exam	Code Requirement		Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	No. Required		Period 1	Period 2	Period 3
<b>B9.11</b>  Circumferential Piping Welds NPS 4" or Larger	Reactor Coolant Loop	23	25	6	6	2	2	2
	Pressurizer Safety and Relief	18	25	5	5	1	2	2
	Pressurizer Spray	1	25	1	1	1	0	0
	Pressurizer Surge	5	25	1	1	0	1	0
	Safety Injection	73	25	18	21	7	7	7
	Residual Heat Removal	44	25	11	11	3	4	4
<b>B9.12</b>  Longitudinal Piping Welds NPS 4" or Larger	Reactor Coolant Loop	8	25	2	2	2	0	0

Section 7.0

Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category B-I Piping Weld Distribution								
Item Number	System	Total Subject to Exam	Code Requirement		Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	No. Required		Period 1	Period 2	Period 3
<b>B9.21</b>  Circumferential Piping Welds NPS Less Than 4"	RTD	21	25	6	6	2	2	2
	Pressurizer Spray	58	25	15	15	5	5	5
	Pressurizer Relief	14	25	4	4	1	1	2
	Safety Injection	2	25	1	1	0	1	0
<b>B9.31</b>  Branch Pipe Connection Welds NPS 4" or Larger	Reactor Coolant Loop	9	25	3	3	1	1	1
	Reactor Coolant Loop	13	25	3	3	1	1	1
<b>B9.32</b>  Branch Pipe Connection Welds NPS Less Than 4"	Pressurizer Spray	1	25	0	0	0	0	0
	Safety Injection	2	25	1	1	0	0	1



Section 7.0

Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category B-J Piping Weld Distribution								
Item Number	System	Total Subject to Exam	Code Requirement		Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	No. Required		Period 1	Period 2	Period 3
<b>B9.40</b>  Socket Welds	RTD	84	25	21	21	7	7	7
	Safety Injection	46	25	12	12	4	4	4
	Seal Injection	114	25	29	30	10	10	10
	Charging	38	25	10	10	3	3	4
	Auxiliary Spray	27	25	7	7	2	2	3
	Letdown/Waste Disposal	34	25	9	9	3	3	3

Section 7.0

Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category C-F-1 and C-F-2 Piping Weld Distribution										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Code Requirement			Total Required for Examination	Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	Subtotal Subject to Examination	Additional Welds to be Distributed			Per 1	Per 2	Per 3
<b>C5.11</b>  Circumferential Piping Welds Having a Wall Thickness $\geq 3/8$ " and NPS > 4"	Safety Injection	10	7.5	1	0	1	1	0	1	0
	Residual Heat Removal	25	7.5	2	0	2	2	1	0	1
	Internal Containment Spray	2	7.5	1	0	1	1	0	0	1
<b>C5.12</b>  Longitudinal Piping Welds Having a Wall Thickness $\geq 3/8$ " and NPS > 4"	Residual Heat Removal	5	7.5	1	0	1	2	2	0	0

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Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category C-F-1 and C-F-2 Piping Weld Distribution										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Code Requirement			Total Required for Examination	Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	Subtotal Subject to Examination	Additional Welds to be Distributed			Per 1	Per 2	Per 3
<b>C5.13</b>  Circumferential Piping Welds Having a Wall Thickness < 3/8" and NPS ≥ 4"	Residual Heat Removal	276	7.5	21	0	21	21	6	7	8
	Internal Containment Spray	132	7.5	10	0	10	10	3	3	4
<b>C5.14</b>  Circumferential Piping Welds Having a Wall Thickness < 3/8" and NPS ≥ 4"	Safety Injection	65	0	5	0	0	0	0	0	0

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Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category C-F-1 and C-F-2 Piping Weld Distribution										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Code Requirement			Total Required for Examination	Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	Subtotal Subject to Examination	Additional Welds to be Distributed			Per 1	Per 2	Per 3
<b>C5.21</b> Circumferential Piping Welds Having a Wall Thickness > 1/5" and NPS ≥ 2" and ≤ 4"	Safety Injection	107	7.5	8	2	10	10	3	3	4
<b>C5.30</b> Socket Welds	Safety Injection	155	7.5	12	3	15	15	5	5	5
<b>C5.41</b> Circumferential Pipe Branch Connection Welds of Branch Piping ≥ 2"	Safety Injection	7	7.5	1	0	1	1	1	0	0
	Residual Heat Removal	6	7.5	1	0	1	1	0	1	0
	Internal Containment Spray	4	7.5	1	0	1	1	0	0	1

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Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category C-F-1 and C-F-2 Piping Weld Distribution										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Code Requirement			Total Required for Examination	Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	Subtotal Subject to Examination	Additional Welds to be Distributed			Per 1	Per 2	Per 3
<b>C5.51</b>  Circumferential Piping Welds Having a Wall Thickness $\geq 3/8"$ and NPS $> 4"$	Main Steam	61	7.5	5	6	11	11	3	4	4
	Feedwater	45	7.5	3	4	7	7	2	2	3
<b>C5.52</b>  Longitudinal Piping Welds Having a Wall Thickness $\geq 3/8"$ and NPS $> 4"$	Main Steam	43	7.5	3	4	7	7	2	2	3

**Section 7.0**

**Distribution**

<p align="center"><b>WISCONSIN PUBLIC SERVICE CORPORATION</b>                      Kewaunee Nuclear Plant                      Third Inservice Inspection Interval                      Category C-F-1 and C-F-2 Piping Weld Distribution</p>										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Code Requirement			Total Required for Examination	Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	Subtotal Subject to Examination	Additional Welds to be Distributed			Per 1	Per 2	Per 3
<b>C5.81</b>  Circumferential Pipe Branch Connection Welds of Branch Piping $\geq$ 2"	Main Steam	12	7.5	1	1	2	2	0	1	1
	Feedwater	2	7.5	0	1	1	1	1	0	0

**Notes:**

- There are a total of 320 C5.11, C5.21, C5.30 and C5.41 piping welds.
- There are a total of 408 C5.13 piping welds. C5.13 represents an item number that was created by WPSC for RHR and ICS piping welds that are  $< 3/8$ " nominal wall thickness for piping that is  $> \text{NPS } 4$ ". The majority of piping welds in the RHR and the ICS systems are not required to be examined in accordance with Table IWC-2500-1 since they are less than  $3/8$ " thick. However, WPSC has scheduled a proper representative sample of these welds identified as item number C5.13.
- There are a total of 65 C5.14 piping welds. C5.14 represents an item number created by WPSC for SI piping welds  $< 3/8$ " nominal wall thickness for piping that is  $> \text{NPS } 4$ ". No C5.14 welds were scheduled for examination since they are not required to be examined in accordance with Table IWC-2500-1.
- All C5.13 and C5.14 welds were included in the total weld count to which the 7.5% sampling rate was applied.
- There are a total of 162 C-F-2 piping welds to which the 7.5% sampling rate was applied. This would result in only 12 welds being required to be examined.
- Table IWC-2500-1, Footnote 2 requires the minimum number of welds to be examined is 28. Therefore, a total of 28 C-F-2 piping welds have been scheduled to be examined.
- The total number of C-F-2 piping welds required to be examined was increased from 12 welds to 28 welds.

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Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category F-A Component Support Distribution								
Item Number	ISI System	Total Number of Nonexempt Supports in System Boundary	Code Requirement		Total Scheduled for Examination	Total Scheduled for Inspection Period		
			% Required	Total Required for Examination		Period 1	Period 2	Period 3
F1.10A	Safety Injection (System 33)	4	25	1	1	0	1	0
	Residual Heat Removal (System 34)	3	25	1	1	0	0	1
	Seal Injection (System 35-2)	8	25	2	2	1	1	0
	Pressurizer Spray (System 36-3)	6	25	1	1	0	0	1
	RTD (System 36-4)	2	25	1	1	1	0	0

Section 7.0

Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewannee Nuclear Plant Third Inservice Inspection Interval Category F-A Component Support Distribution								
Item Number	ISI System	Total Number of Nonexempt Supports in System Boundary	Code Requirement		Total Scheduled for Examination	Total Scheduled for Inspection Period		
			% Required	Total Required for Examination		Period 1	Period 2	Period 3
<b>F1.10B</b>	Safety Injection (System 33)	15	25	4	4	1	1	2
	Residual Heat Removal (System 34)	6	25	1	1	1	0	0
	Letdown/Waste Disposal (System 35-1)	1	25	1	1	0	0	1
	Seal Injection (System 35-2)	16	25	4	4	1	2	1
	Charging (System 35-3)	3	25	1	1	0	1	0
	Pressurizer Relief/Safety (System 36-2)	2	25	1	1	0	0	1
	Pressurizer Spray (System 36-3)	13	25	2	2	1	0	1



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Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category F-A Component Support Distribution								
Item Number	ISI System	Total Number of Nonexempt Supports in System Boundary	Code Requirement		Total Scheduled for Examination	Total Scheduled for Inspection Period		
			% Required	Total Required for Examination		Period 1	Period 2	Period 3
F1.10C	Safety Injection (System 33)	8	25	2	2	1	0	1
	Residual Heat Removal (System 34)	5	25	1	1	0	1	0
	Letdown/Waste Disposal (System 35-1)	5	25	1	1	0	1	0
	Seal Injection (System 35-2)	2	25	1	1	0	1	0
	Charging (System 35-3)	5	25	1	1	0	0	1
	Pressurizer Surge (System 36-1)	1	25	1	1	0	0	1
	Pressurizer Relief/Safety (System 36-2)	2	25	1	1	1	0	0
	Pressurizer Spray (System 36-3)	15	25	3	3	1	0	2
	RTD (System 36-4)	10	25	2	2	0	1	1

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**Distribution**

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category F-A Component Support Distribution								
Item Number	ISI System	Total Number of Nonexempt Supports in System Boundary	Code Requirement		Total Scheduled for Examination	Total Scheduled for Inspection Period		
			% Required	Total Required for Examination		Period 1	Period 2	Period 3
<b>F1.20A</b>	Safety Injection (System 33)	22	15	3	3	1	1	1
<b>F1.20B</b>	Feedwater (System 5A)	2	15	0	0	0	0	0
	Main Steam (System 6)	4	15	1	1	0	1	0
	Safety Injection (System 33)	32	15	5	5	2	1	2
<b>F1.20C</b>	Feedwater (System 5A)	1	15	0	0	0	0	0
	Main Steam (System 6)	2	15	0	0	0	0	0
	Safety Injection (System 33)	15	15	2	2	0	1	1
	Residual Heat Removal (System 34)	4	15	1	1	1	0	0

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Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category F-A Component Support Distribution								
Item Number	ISI System	Total Number of Nonexempt Supports in System Boundary	Code Requirement		Total Scheduled for Examination	Total Scheduled for Inspection Period		
			% Required	Total Required for Examination		Period 1	Period 2	Period 3
F1.30A	Service Water (System 2)	42	10	4	4	2	1	1
	Auxiliary Feedwater (System 5B)	5	10	1	1	0	0	1
	Component Cooling Water (System 31)	18	10	2	2	0	1	1
F1.30B	Service Water (System 2)	93	10	9	9	2	3	4
	Auxiliary Feedwater (System 5B)	2	10	1	1	0	0	1
	Component Cooling Water (System 31)	12	10	1	1	1	0	0
F1.30C	Service Water (System 2)	17	10	2	2	0	1	1
	Component Cooling Water (System 31)	6	10	1	1	1	0	0
F1.40A	N/A (System N/A)	0	100	0	0	0	0	0

Section 7.0

Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category F-A Component Support Distribution								
Item Number	ISI System	Total Number of Nonexempt Supports in System Boundary	Code Requirement		Total Scheduled for Examination	Total Scheduled for Inspection Period		
			% Required	Total Required for Examination		Period 1	Period 2	Period 3
<b>F1.40B</b>	Service Water (System 2)	36	100	Note 2	13	4	4	4
	Auxiliary Feedwater (System 5B)	15	100	Note 2	10	2	4	4
	Internal Containment Spray (System 23)	2	100	Note 2	1	1	0	0
	Component Cooling Water (System 31)	28	100	Note 2	19	7	6	6
	Safety Injection (System 33)	10	100	Note 2	5	2	1	2
	Residual Heat Removal (System 34)	6	100	Note 2	3	1	1	1
	Chemical and Volume Control (System 35)	16	100	Note 2	9	3	3	3
	Reactor Coolant Loop (System 36)	21	100	Note 2	14	4	4	6

**Section 7.0**

**Distribution**

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Third Inservice Inspection Interval Category F-A Component Support Distribution								
Item Number	ISI System	Total Number of Nonexempt Supports in System Boundary	Code Requirement		Total Scheduled for Examination	Total Scheduled for Inspection Period		
			% Required	Total Required for Examination		Period 1	Period 2	Period 3
<b>F1.40C</b>	N/A (System N/A)	0	100	0	0	0	0	0

**Notes:**

- Code Case N-491 is being invoked for the purpose of piping and component support examinations.
- For multiple components within a system of similar design, function and service, the supports of only one of the multiple components are required to be examined.

## Section 8.0

### Schedule

The following provides an explanation of the ISI schedule sheet (see attached sample).

1. The examination category letter designation specified by ASME Boiler and Pressure Vessel Code Section XI (B-A, B-B, etc.).
2. The written designation associated with the examination category.
3. The item number associated with a particular examination category.
4. The written description associated with the item number (e.g., listed under "Parts Examined" on the code examination Tables IWx-2500-1. For component supports, this column is labeled "ISI System;" (ISI system in which the component support exists.) The ISI System designation is defined based on the system function.
5. The component, isometric, or flow diagram depicting the weld/surface/component being examined.
6. The equipment number of the weld/surface/component being examined.
7. This column allows for the placement of the characters 1, 2, 3, A or B. For class 1, B-J and B-O welds, the letters A or B identify that the class 1 weld was examined in the First or Second Inspection Interval. The letter A signifies that the weld was examined during the First Inspection Interval. The specific period that a weld was examined during the First Inspection Interval is not identified in the table. The letter B signifies that the weld was examined during the Second Inspection Interval. The number 1, 2, or 3 indicates that the component was examined in the first, second, or third period of the Second Inspection Interval.
8. Examinations are scheduled by means of an "X" in the appropriate period (3 $\frac{1}{3}$  years or  $\frac{1}{3}$  of interval) column for which the examination is scheduled to be performed. The end of interval (EOI) columns are used to indicate whether or not ASME Boiler and Pressure Vessel Code Section XI permits this examination to be deferred until the end of the interval: a "P" means permissible, a "PD" indicates partial deferral is allowed, and "N" means the examination may not be deferred. Items identified with a "P" in the EOI column may be examined at any time during the interval and can be rescheduled as preferred by the plant without compromising code requirements. Items scheduled for examination that are identified with a "N" in the EOI column must be performed during that 3 $\frac{1}{3}$ -year period. The only exception is if they are exchanged one for one (e.g., same system/subsystem, item number, terminal end considerations, and prior examination duration). All exchanges should be documented in the ISI Plan or annual ISI outage reports. The items that are not selected for examination are identified by a "N" in the schedule column.

## Section 8.0

### Schedule

9. The method by which the weld/surface/component is to be examined. If the method is to be volumetric (Vol), surface (Sur), or visual (Vis), it will be denoted by an "X" in the respective column.
10. This column denotes the relief request, code case, or any other specific exemption where the code required examination is not met. Refer to the exemption, code case, and relief request sections of this document for further discussion.
11. The comments and category notes sections are used when required to provide further clarification pertaining to the selection, scheduling, coverage required, and examination method of the weld/surface/component specified in the plan. Coverage is 100 percent unless otherwise noted.





WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-A Description PRESSURE RETAINING WELDS IN REACTOR VESSEL

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B1.10	Shell Welds													
B1.11	Circumferential	M-1193	RV-W2	3	Y			X	P	X				
B1.11	Circumferential	M-1193	RV-W3	3	Y			X	P	X				
B1.20	Head Welds													
B1.21	Circumferential	M-1193	RV-W4	3	Y			X	P	X				
B1.21	Circumferential	M-1193	RV-W5	3	Y			X	P	X				
B1.30	Shell-to-Flange Weld	M-1193	RV-W1	1	Y	X		X	PD	X				Note 1 and 2
B1.40	Head-to-Flange Weld	M-1198	RV-W12	1,2,3	Y	X	X	X	PD	X	X			Note 1 and 3

**Category Notes:**

1. If partial examinations are conducted from flange face, the remaining volumetric examinations required to be conducted from vessel wall may be deferred.
2. Examine at least 50% by the end of the first inspection period (i.e., examine from 15° clockwise to 97.5°, 165° clockwise to 210° and 262.5° clockwise to 315° from 0° reference). Examine the remainder by the end of the interval.
3. Examine one-third of weld length each inspection period. During first inspection period examine from center line of stud hole 1 clockwise to center line of stud hole 17. During second inspection period examine from center line of stud hole 17 clockwise to center line of stud hole 33. During third inspection period examine from center line of stud hole 33 clockwise to center line of stud hole 1.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-B Description PRESSURE RETAINING WELDS IN VESSELS OTHER THAN REACTOR VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
-	Pressurizer Shell-to-Head Welds													
B2.11	Circumferential	M-1200	P-W3	1,2,3	Y	X	X	X	N	X				Note 1
B2.11	Circumferential	M-1200	P-W5	1,2,3	Y	X	X	X	N	X				Note 1
B2.12	Longitudinal	M-1200	P-W1	1,2,3	Y	X	X	X	N	X				Note 2
B2.12	Longitudinal	M-1200	P-W2	1,2,3	Y	X	X	X	N	X				Note 2
	Steam Generators (Primary Side) Head Welds													
B2.40	Tubesheet-to-Head Weld	M-1201	SG-W6	2,3	Y	X	X	X	N	X				Note 1 and 3
B2.40	Tubesheet-to-Head Weld	M-1201	SG-W14	1	N									Note 3

**Category Notes:**

1. Examine weld from 0° clockwise to 120° (using manyway center line as reference) during first inspection period. Examine weld from 120° clockwise to 240° during second inspection period. Examine weld from 240° clockwise to 360° during third inspection period.
2. Examine weld from 0° to 4° (using intersecting circumferential weld as zero reference) during first inspection period. Examine weld from 4° to 8° during second inspection period. Examine weld from 8° to 12° during third inspection period.
3. The examination is limited to one vessel among the group of vessels performing a similar function.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-D**

Description **FULL PENETRATION WELDS OF NOZZLES IN VESSELS - INSPECTION PROGRAM B**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Reactor Vessel													
B3.90	Nozzel-to-Vessel Welds	M-1194	RV-W6	3				X	PD	X				Note 1 and 2
B3.90	Nozzel-to-Vessel Welds	M-1194	RV-W7	1	Y	X			PD	X				Note 1 and 2
B3.90	Nozzel-to-Vessel Welds	M-1194	RV-W8	3	Y			X	PD	X				Note 1 and 2
B3.90	Nozzel-to-Vessel Welds	M-1194	RV-W9	3	Y			X	PD	X				Note 1 and 2
B3.90	Nozzel-to-Vessel Welds	M-1194	RV-W10	1	Y	X			PD	X				Note 1 and 2
B3.90	Nozzel-to-Vessel Welds	M-1194	RV-W11	3	Y			X	PD	X				Note 1 and 2
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR6	3	Y			X	N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR7	1	Y	X			N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR8	3	Y			X	N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR9	3	Y			X	N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR10	1	Y	X			N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR11	3	Y			X	N	X				Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-D** Description **FULL PENETRATION WELDS OF NOZZLES IN VESSELS - INSPECTION PROGRAM B**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	<b>Pressurizer</b>													
B3.120	Nozzle Inside Radius Section	M-1200	P-IR7		Y	X	X	X	N			X	RR-1-3	Note 3
B3.120	Nozzle Inside Radius Section	M-1200	P-IR8		Y	X	X	X	N			X	RR-1-3	Note 3
B3.120	Nozzle Inside Radius Section	M-1200	P-IR9		Y	X	X	X	N			X	RR-1-3	Note 3
B3.120	Nozzle Inside Radius Section	M-1200	P-IR10		Y	X	X	X	N			X	RR-1-3	Note 3
B3.120	Nozzle Inside Radius Section	M-1200	P-IR11		Y	X	X	X	N			X	RR-1-3	Note 3
	<b>Steam Generators (Primary Side)</b>													
B3.140	Nozzle Inside Radius Section	M-1201	SG-IR21		Y	X	X	X	N			X	RR-1-4	Note 4
B3.140	Nozzle Inside Radius Section	M-1201	SG-IR22		Y	X	X	X	N			X	RR-1-4	Note 4
B3.140	Nozzle Inside Radius Section	M-1201	SG-IR23		Y	X	X	X	N			X	RR-1-4	Note 4
B3.140	Nozzle Inside Radius Section	M-1201	SG-IR24		Y	X	X	X	N			X	RR-1-4	Note 4

WISCONSIN SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-D** Description **FULL PENETRATION WELDS OF NOZZLES IN VESSELS - INSPECTION PROGRAM B**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period				Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur		

Category Notes:

1. At least 25% but not more than 50% (credited) of the nozzles shall be examined by the end of the first inspection period, and the remainder by the end of the inspection interval.
2. Examinations may be partially deferred under the following conditions: If examinations are conducted from inside the component and the nozzle weld is examined by straight beam ultrasonic method from the nozzle bore, the remaining examinations required to be conducted from the shell inside diameter may be performed at or near the end of each inspection interval.
3. Examine nozzles during Class 1 system leakage test after each refueling outage.
4. Examine accessible portions of the inner radius concurrent with scheduled steam generator eddy current examinations and/or nozzle dam installation/removal using a robotic type camera.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD1	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD2	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD3	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD4	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD5	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD6	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD7	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD8	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD9	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD10	1,2,3	N					P			X	
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD11	1,2,3	N					P			X	

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD12	1,2,3	N				P			X		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD13	1,2,3	N				P			X		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD14	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD15	1,2,3	N				P			X		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD16	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD17	1,2,3	N				P			X		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD18	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD19	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD20	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD21	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD22	1,2,3	N				P			X		

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD23	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD24	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD25	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD26	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD27	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD28	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD29	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD30	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD31	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD32	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD33	1,2,3	Y			X	P			X		Note 1 and 2



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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD34	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD35	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rnd Drive Nozzles	M-1197	RV-CD37	1,2,3	Y			X	P			X		Note 1 and 2
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD38	1,2,3	N				P			X		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD39	1,2,3	N				P			X		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD40	1,2,3	N				P			X		
B4.12	Control Rod Drive Nozzles	M-1197	RV-CD41	1,2,3	N				P			X		
B4.13	Instrumentation Nozzles	M-1193	RV-P1	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P2	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P3	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P4	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P5	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P6	1,2,3	Y			X	P			X		Note 2

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.13	Instrumentation Nozzles	M-1193	RV-P7	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P8	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P9	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P10	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P11	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P12	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P13	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P14	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P15	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P16	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P17	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P18	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P19	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P20	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P21	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P22	1,2,3	Y			X	P			X		Note 2

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
B4.13	Instrumentation Nozzles	M-1193	RV-P23	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P24	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P25	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P26	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P27	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P28	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P29	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P30	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P31	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P32	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P33	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P34	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P35	1,2,3	Y			X	P			X		Note 2
B4.13	Instrumentation Nozzles	M-1193	RV-P36	1,2,3	Y			X	P			X		Note 2
	Pressurizer													
B4.20	Heater Penetration Welds	M-1200	PRZ-P1	1,2,3	Y			X	P			X		Note 2

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.20	Heater Penetration Welds	M-1200	PRZ-P2	1,2,3	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P3	1,2,3	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P4	1,2,3	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P5	1,2,3	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P6	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P7	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P8	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P9	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P10	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P11	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P12	1,2	Y			X	P			X		Note 2

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.20	Heater Penetration Welds	M-1200	PRZ-P13	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P14	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P15	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P16	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P17	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P18	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P19	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P20	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P21	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P22	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P23	1,2	Y			X	P			X		Note 2

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.20	Heater Penetration Welds	M-1200	PRZ-P24	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P25	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P26	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P27	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P28	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P29	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P30	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P31	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P32	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P33	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P34	1,2	Y			X	P			X		Note 2

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.20	Heater Penetration Welds	M-1200	PRZ-P35	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P36	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P37	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P38	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P39	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P40	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P41	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P42	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P43	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P44	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P45	1,2	Y			X	P			X		Note 2

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-E Description PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.20	Heater Penetration Welds	M-1200	PRZ-P46	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P47	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P48	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P49	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P50	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P51	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P52	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P53	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P54	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P55	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P56	1,2	Y			X	P			X		Note 2



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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-E** Description **PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.20	Heater Penetration Welds	M-1200	PRZ-P57	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P58	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P59	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P60	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P61	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P62	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P63	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P64	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P65	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P66	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P67	1,2	Y			X	P			X		Note 2

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-E** Description **PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B4.20	Heater Penetration Welds	M-1200	PRZ-P68	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P69	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P70	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P71	1,2	Y			X	P			X		Note 2
B4.20	Heater Penetration Welds	M-1200	PRZ-P72	1,2	Y			X	P			X		Note 2

**Category Notes:**

1. Examine 25% of the nozzles. Examine the peripheral CRD housings due to accessibility.
2. Examinations shall be conducted during the system hydrostatic test (IWB-5222).

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-F**

Description **PRESSURE RETAINING DISSIMILAR METAL WELDS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Reactor Vessel													
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-938-2SH1	SI-W112DM	2	Y			X	N	X	X			Note 1
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-939SH1	SI-W54DM	1	Y	X			N	X	X			Note 1
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1703	RC-W1DM	1	Y	X			N	X	X			Note 1
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1703	RC-W26DM	3	Y			X	N	X	X			Note 1
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1704	RC-W30DM	1	Y	X			N	X	X			Note 1
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1704	RC-W58DM	3	Y			X	N	X	X			Note 1

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-F** Description **PRESSURE RETAINING DISSIMILAR METAL WELDS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Pressurizer													
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-874-1	PS-W61DM	1	Y	X				N	X	X		
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-892	RC-W67DM	2	Y		X			N	X	X		
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-940-1	PR-W1DM	1,2	Y		X			N	X	X		
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-940-2	PR-W16DM	3	Y			X		N	X	X		
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-940-2	PR-W26DM	2	Y		X			N	X	X		
	Steam Generators													
B5.70	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1703	RC-W6DM	1	Y	X				N	X	X		
B5.70	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1703	RC-W7DM	2	Y		X			N	X	X		

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-F Description PRESSURE RETAINING DISSIMILAR METAL WELDS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B5.70	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1704	RC-W36DM	3	Y			X	N	X	X			
B5.70	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1704	RC-W37DM	3	Y			X	N	X	X			

Category Notes:

- Nozzle-to-safe end butt weld examinations may be performed coincident with the vessel nozzle examinations required by examination Category B-D.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Reactor Vessel													
B6.10	Closure Head Nuts	M-1196	RV-N1	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N2	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N3	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N4	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N5	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N6	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N7	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N8	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N9	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N10	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N11	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N12	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N13	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N14	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N15	1	Y	X			N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.10	Closure Head Nuts	M-1196	RV-N16	1	Y	X			N		X			
B6.10	Closure Head Nuts	M-1196	RV-N55	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N18	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N19	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N20	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N21	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N22	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N23	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N24	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N25	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N26	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N27	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N28	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N29	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N30	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N31	2	Y		X		N		X			

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.10	Closure Head Nuts	M-1196	RV-N32	2	Y		X		N		X			
B6.10	Closure Head Nuts	M-1196	RV-N33	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N34	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N35	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N36	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N37	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N38	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N39	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N40	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N41	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N42	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N43	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N44	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N45	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N46	3	Y			X	N		X			
B6.10	Closure Head Nuts	M-1196	RV-N47	3	Y			X	N		X			



**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.10	Closure Head Nuts	M-1196	RV-N48	3	Y			X	N		X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST1	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST2	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST3	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST4	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST5	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST6	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST7	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST8	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST9	1,2	Y	X			P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST10	1,2	Y	X			P	X	X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-I Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.30	Closure Studs, When Removed	M-1196	RV-ST11	1,2	Y	X				P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST12	1,2	Y	X				P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST13	1,2	Y	X				P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST14	1,2	Y	X				P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST15	1,2	Y	X				P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST16	1,2	Y	X				P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST55	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST18	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST19	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST20	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST21	2	Y		X			P	X	X		

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
B6.30	Closure Studs, When Removed	M-1196	RV-ST22	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST23	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST24	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST25	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST26	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST27	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST28	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST29	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST30	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST31	2	Y		X			P	X	X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST32	2	Y		X			P	X	X		

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Via		
B6.30	Closure Studs, When Removed	M-1196	RV-ST33	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST34	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST35	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST36	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST37	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST38	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST39	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST40	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST41	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST42	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST43	3	Y			X	P	X	X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.30	Closure Studs, When Removed	M-1196	RV-ST44	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST45	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST46	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST47	3	Y			X	P	X	X			
B6.30	Closure Studs, When Removed	M-1196	RV-ST48	3	Y			X	P	X	X			
B6.40	Threads in Flange	M-1195	RV-S1	2	Y		X		N	X			Note 1	
B6.40	Threads in Flange	M-1195	RV-S2	3	Y			X	N	X			Note 1	
B6.40	Threads in Flange	M-1195	RV-S3	3	Y			X	N	X			Note 1	
B6.40	Threads in Flange	M-1195	RV-S4	1	Y	X			N	X			Note 1	
B6.40	Threads in Flange	M-1195	RV-S5	1	Y	X			N	X			Note 1	
B6.40	Threads in Flange	M-1195	RV-S6	1	Y	X			N	X			Note 1	
B6.40	Threads in Flange	M-1195	RV-S7	1	Y	X			N	X			Note 1	
B6.40	Threads in Flange	M-1195	RV-S8	1	Y	X			N	X			Note 1	
B6.40	Threads in Flange	M-1195	RV-S9	1	Y	X			N	X			Note 1	

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.40	Threads in Flange	M-1195	RV-S10	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S11	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S12	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S13	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S14	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S15	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S16	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S17	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S18	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S19	2	Y		X		N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S20	2	Y		X		N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S21	2	Y		X		N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S22	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S23	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S24	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S25	1	Y	X			N	X				Note 1

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.40	Threads in Flange	M-1195	RV-S26	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S27	1	Y	X			N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S28	1	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S29	1	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S30	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S31	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S32	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S33	2	Y		X		N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S34	2	Y		X		N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S35	2	Y		X		N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S36	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S37	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S38	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S39	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S40	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S41	3	Y			X	N	X				Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.40	Threads in Flange	M-1195	RV-S42	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S43	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S44	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S45	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S46	3	Y			X	N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S47	2	Y		X		N	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S48	2	Y		X		N	X				Note 1
B6.50	Closure Washers, Bushings	M-1196	RV-WC1	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC2	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC3	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC4	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC5	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC6	1	Y	X			N			X		



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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.50	Closure Washers, Bushings	M-1196	RV-WC7	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC8	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC9	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC10	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC11	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC12	1	Y	X			N			X		
B6.50	Closure Washers, Pushings	M-1196	RV-WC13	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC14	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC15	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC16	1	Y	X			N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC55	2	Y		X		N			X		

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**THIRD INTERVAL ISI SCHEDULE**

**Examination Category B-G-I Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.50	Closure Washers, Bushings	M-1196	RV-WC18	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC19	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC20	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC21	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC22	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC23	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC24	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC25	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC26	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC27	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC28	2	Y		X		N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.50	Closure Washers, Bushings	M-1196	RV-WC29	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC30	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC31	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC32	2	Y		X		N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC33	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC34	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC35	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC36	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC37	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC38	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC39	3	Y			X	N			X		

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.50	Closure Washers, Bushings	M-1196	RV-WC40	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC41	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC42	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC43	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC44	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC45	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC46	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC47	3	Y			X	N			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC48	3	Y			X	N			X		
	<b>Pumps</b>													
B6.180	Bolts and Studs	M-1205	RCP-B1	2	Y	X			N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B2	2	Y	X			N	X				Note 2

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.180	Bolts and Studs	M-1205	RCP-B3	2	Y	X			N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B4	2	Y	X			N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B5	2	Y	X			N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B6	2	Y	X			N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B7	2	Y	X			N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B8	2	Y	X			N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B9	2	Y		X		N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B10	2	Y		X		N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B11	2	Y		X		N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B12	2	Y		X		N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B13	2	Y		X		N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B14	2	Y		X		N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B15	2	Y		X		N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B16	2	Y		X		N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B17	2	Y			X	N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B18	2	Y			X	N	X				Note 2

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** B-G-1      **Description** PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Via		
B6.180	Bolts and Studs	M-1205	RCP-B19	2	Y			X	N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B20	2	Y			X	N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B21	2	Y			X	N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B22	2	Y			X	N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B23	2	Y			X	N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B24	2	Y			X	N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B25	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B26	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B27	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B28	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B29	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B30	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B31	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B32	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B33	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B34	3	N				N	X				Note 2

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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.180	Bolts and Studs	M-1205	RCP-B35	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B36	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B37	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B38	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B39	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B40	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B41	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B42	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B43	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B44	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B45	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B46	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B47	3	N				N	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B48	3	N				N	X				Note 2
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B1		N				N			X		Note 1 and 3

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sen	1	2	3	DOT	Vol	Sur	Vis		
B6.190	Flange Surface, When Disassembled	M-1205	RCP-B2		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Disassembled	M-1205	RCP-B3		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Disassembled	M-1205	RCP-B4		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Disassembled	M-1205	RCP-B5		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Disassembled	M-1205	RCP-B6		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Disassembled	M-1205	RCP-B7		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Disassembled	M-1205	RCP-B8		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Disassembled	M-1205	RCP-B9		N				N			X		Note 1 and 3



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**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B10		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B11		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B12		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B13		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B14		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B15		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B16		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B17		N				N			X		Note 1 and 3

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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B18		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B19		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B20		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B21		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B22		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B23		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B24		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B25		N				N			X		Note 1 and 3

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vis	Sar	Vol		
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B26		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B27		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B28		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B29		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B30		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B31		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B32		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B33		N				N			X		Note 1 and 3

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**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** B-G-1      **Description** PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B34		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B35		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B36		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B37		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B38		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B39		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B40		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B41		N				N			X		Note 1 and 3

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B42		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B43		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B44		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B45		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B46		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B47		N				N			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B48		N				N			X		Note 1 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B1	2	Y	X			N			X		Note 2 and 3

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B2	2	Y	X			N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B3	2	Y	X			N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B4	2	Y	X			N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B5	2	Y	X			N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B6	2	Y	X			N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B7	2	Y	X			N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B8	2	Y	X			N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B9	2	Y		X		N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B10	2	Y		X		N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B11	2	Y		X		N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B12	2	Y		X		N			X		Note 2 and 3

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B13	2	Y		X		N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B14	2	Y		X		N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B15	2	Y		X		N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B16	2	Y		X		N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B17	2	Y			X	N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B18	2	Y			X	N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B19	2	Y			X	N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B20	2	Y			X	N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B21	2	Y			X	N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B22	2	Y			X	N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B23	2	Y			X	N			X		Note 2 and 3

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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-G-1** Description **PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B24	2	Y			X	N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B25	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B26	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B27	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B28	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B29	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B30	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B31	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B32	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B33	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B34	3	N				N			X		Note 2 and 3



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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-1 Description PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments	
					Sch	1	2	3	EOI	Vol	Sur	Vis			
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B35	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B36	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B37	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B38	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B39	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B40	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B41	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B42	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B43	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B44	3	N					N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B45	3	N					N			X		Note 2 and 3

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** B-G-1      **Description** PRESSURE RETAINING BOLTING, GREATER THAN 2 in. IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B46	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B47	3	N				N			X		Note 2 and 3
B6.200	Nuts, Bushings, and Washers	M-1205	RCP-B48	3	N				N			X		Note 2 and 3

**Category Notes:**

1. Examination includes 1 in. annular surface of flange surrounding each stud.
2. Examination is limited to components selected for examination under examination Category B-L-2. Examination Category B-L-2 permits limiting examination to one pump.
3. Flange surface, bushings and threads in base material of flanges are required to be examined only when the connections are disassembled.

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-2 Description PRESSURE RETAINING BOLTING, 2 in. AND LESS IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	<b>Pressurizer</b>													
B7.20	Bolts, Studs, and Nuts	M-1200	P-MWB	1,2,3	Y	X			N			X		Note 1
	<b>Steam Generators</b>													
B7.30	Bolts, Studs, and Nuts	M-1201	SG-1A-HLMW	1,2,3	Y		X		N			X		Note 2
B7.30	Bolts, Studs, and Nuts	M-1201	SG-1A-CLMW	1,2,3	Y			X	N			X		Note 2
B7.30	Bolts, Studs, and Nuts	M-1201	SG-1B-HLMW	1,2,3	N				N			X		Note 2 and 3
B7.30	Bolts, Studs, and Nuts	M-1201	SG-1B-CLMW	1,2,3	N				N			X		Note 2 and 3
	<b>Piping</b>													
B7.50	Bolts, Studs, and Nuts	ISIM-940-2	PR-F1	2,3	Y		X		N			X		Note 4
B7.50	Bolts, Studs, and Nuts	ISIM-940-2	PR-F2	3	Y			X	N			X		Note 4
B7.50	Bolts, Studs, and Nuts	ISIM-1460	FE-458	3	Y			X	N			X		Note 5
B7.50	Bolts, Studs, and Nuts	ISIM-1461	FE-459	1	Y	X			N			X		Note 5
B7.50	Bolts, Studs, and Nuts	ISIM-1471	CVC-F1	2	Y		X		N			X		
B7.50	Bolts, Studs, and Nuts	ISIM-1471	CVC-F2	2,3	Y			X	N			X		
B7.50	Bolts, Studs, and Nuts	ISIM-1476	CVC-F3	1	Y	X			N			X		Note 5
B7.50	Bolts, Studs, and Nuts	ISIM-1476	CVC-F4	1	Y	X			N			X		Note 6

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**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-G-2** Description **PRESSURE RETAINING BOLTING, 2 in. AND LESS IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT:	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	<b>Pumps</b>													
B7.60	Bolts, Studs, and Nuts	M-1205	RCP-1A-SLB	3	Y			X	N			X		Note 3 and 7
B7.60	Bolts, Studs, and Nuts	M-1205	RCP-1B-SLB	1,3	N				N			X		Note 3 and 7
	<b>Valves</b>													
B7.70	Bolts, Studs, and Nuts	ISIM-874-1	PS-1B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-874-2	PS-1A	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-874-3	CVC-15	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-935	SI-21A	2,3	Y		X		N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-935	SI-22A	2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-936	SI-13B	2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-1	RHR-11	1,2,3	Y	X			N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-1	SI-21B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-1	SI-22B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-2SH1	SI-303A	2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-2SH1	SI-304A	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-939SH1	SI-303B	1,2,3	Y		X		N			X		Note 3

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-G-2 Description PRESSURE RETAINING BOLTING, 2 in. AND LESS IN DIAMETER

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B7.70	Bolts, Studs, and Nuts	ISIM-939SH1	SI-304B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-1	PR-1A	1,2	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-1	PR-1B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-1	PR-2A	3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-1	PR-2B	1	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-2	PR-3A	2,3	Y		X		N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-2	PR-3B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-957-1SH1	RHR-1A	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-957-1SH1	RHR-1B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-957-1SH1	RHR-2A	2,3	Y			X	N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-957-1SH1	RHR-2B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-982	SI-13A	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-1460	RC-103A	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-1461	RC-103B	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-1473	CVC-11	1,2,3	N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-1474	LD-2	1,2,3	N				N			X		Note 3

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**THIRD INTERVAL ISI SCHEDULE**

**Examination Category B-G-2**

**Description PRESSURE RETAINING BOLTING, 2 in. AND LESS IN DIAMETER**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B7.70	Bolts, Studs, and Nuts	ISIM-1474	LD-3	1,2,3	N				N			X		Note 3
	CRD Housings													
B7.80	Bolts, Studs, and Nuts	M-1197	RV-CD34	1,2,3	Y	X			N			X		Note 8
B7.80	Bolts, Studs, and Nuts	M-1197	RV-CD35	1,2,3	Y		X		N			X		Note 8
B7.80	Bolts, Studs, and Nuts	M-1197	RV-CD37	1,2,3	Y			X	N			X		Note 8

**Category Notes:**

1. Manway contains 16 bolts.
2. Manway contains 16 studs.
3. For heat exchangers, piping, pumps, and valves, examinations are limited to components selected for examination under examination Category B-B, B-J, B-L-2, and B-M-2.
4. Flange contains 12 studs.
5. Flange contains 8 studs.
6. Flange contains 4 studs.
7. Seal housing contains 24 bolts.
8. CRD housing has one marmon clamp with 3 bolts and one jacking screw assembly with 6 screws.

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Examination Category B-H Description INTEGRAL ATTACHMENTS FOR VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Reactor Vessel													
B8.10	Integrally Welded Attachments	M-1194	RV-CS5	3	N				N		X			Note 1
B8.10	Integrally Welded Attachments	M-1194	RV-CS6	3	N				N		X			Note 1
	Pressurizer													
B8.20	Integrally Welded Attachments	M-1200	P-W6	1,2,3	N				N		X			Note 1

Category Notes:

- Class 1 integral attachments for vessels were examined in the first and second intervals in accordance with Inspection Program B. No examinations are required in the third interval for Inspection Program B.

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Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	NPS 4 and Larger													
B9.11	Circumferential Welds	ISIM-874-1	PS-W60		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-892	RC-W62	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-892	RC-W63	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-892	RC-W64		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-892	RC-W65	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-892	RC-W66	B,1,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W113	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W114		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W115	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W116	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W117	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W118		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W119		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W120		N				N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W121	B,2	N				N	X	X			



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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-I** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-935	SI-W122	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-935	SI-W123		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-936	RC-W60	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-936	RC-W61	B,1	N				N	X	X		RR-1-1	
B9.11	Circumferential Welds	ISIM-936	SI-W88	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W55	A B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W56	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W57	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W58	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W59		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W60	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W61	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W62		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W63	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W64	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W65	A	N				N	X	X			

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** B-1      **Description** PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-938-1	SI-W66	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W67		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W68	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W69		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W70		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W71	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W72	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W73	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W74	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W75		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-938-1	SI-W76	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W89	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W90		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W105	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W106	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W107	B,2	N				N	X	X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W108		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W109	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W110	A B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W13		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W14		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W15	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W16		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W17	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W18	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W19	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W20	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W21		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W22	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W23	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W24		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W25		Y		X		N	X	X			

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-939SH1	SI-W26	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W27		N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W28	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W43		N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W44		N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W45	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W46		N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W47		N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W48	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W49	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W50		N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W51		N				N	X	X			
B9.11	Circumferential Welds	ISIM-939SH1	SI-W52	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-1	PR-W2		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W17		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W18		Y		X		N	X	X			

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-940-2	PR-W19	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W20	A B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W21		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W22		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W23	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W25	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W27		N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W28	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W29		N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W30	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W31		N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W32		N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W33		N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W34		N				N	X	X			
B9.11	Circumferential Welds	ISIM-940-2	PR-W36		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-ISH1	RHR-W1	A	N				N	X	X			

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W2	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W3	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W4	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W5		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W6		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W7		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W8	A B,2,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W9	A B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W10		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W11		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W12		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W13		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W14	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W15		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W16	B,3	N				N	X	X			

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-J**

Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W17		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W18		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W19	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W20		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W21		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W22	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W23		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W24		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W25	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W26		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W27		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W28	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W29	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W30		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W31	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W32	A B,2,3	N				N	X	X			

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-1** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W33		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W34	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W35	A B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W36		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W37		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W38	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W39		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W40		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W41	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W42	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W43		N				N	X	X			
B9.11	Circumferential Welds	ISIM-957-1SH2	RHR-W44	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-982	SI-W12	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-982	RC-W28	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-982	RC-W29		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W5		N				N	X	X			



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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-I** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-1703	RC-W8	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W9	A B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W12		N				N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W15		Y	X			N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W18	B,1	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W19	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W20	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W24		Y		X		N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W27	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1703	RC-W70		Y			X	N	X	X			
B9.11	Circumferential Welds	ISIM-1704	RC-W35	B,2	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1704	RC-W38	B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1704	RC-W39	A B,3	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1704	RC-W42	A	N				N	X	X			
B9.11	Circumferential Welds	ISIM-1704	RC-W45	A	N				N	X	X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.11	Circumferential Welds	ISIM-1704	RC-W48	B,3	N					N	X	X		
B9.11	Circumferential Welds	ISIM-1704	RC-W49	B,3	N					N	X	X		
B9.11	Circumferential Welds	ISIM-1704	RC-W55	B,3	N					N	X	X		
B9.11	Circumferential Welds	ISIM-1704	RC-W56		Y	X				N	X	X		
B9.11	Circumferential Welds	ISIM-1704	RC-W59	A	N					N	X	X		
B9.11	Circumferential Welds	ISIM-1704	RC-W69		Y			X		N	X	X		
B9.11	Circumferential Welds	ISIM-1704	RC-W73		Y		X			N	X	X		
B9.12	Longitudinal Welds	ISIM-1703	RC-W10L	B,1	N					N	X	X		
B9.12	Longitudinal Welds	ISIM-1703	RC-W11L	B,1	N					N	X	X		
B9.12	Longitudinal Welds	ISIM-1703	RC-W16L	B,1	Y	X				N	X	X		
B9.12	Longitudinal Welds	ISIM-1703	RC-W17L	B,1	Y	X				N	X	X		
B9.12	Longitudinal Welds	ISIM-1704	RC-W40L	B,3	N					N	X	X		
B9.12	Longitudinal Welds	ISIM-1704	RC-W41L	B,3	N					N	X	X		
B9.12	Longitudinal Welds	ISIM-1704	RC-W46L	B,3	N					N	X	X		
B9.12	Longitudinal Welds	ISIM-1704	RC-W47L	B,3	N					N	X	X		

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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-1** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Less than NPS 4													
B9.21	Circumferential Welds	ISIM-874-1	PS-W30	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W31	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W32	A B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W33		Y	X			N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W34		Y	X			N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W35		Y	X			N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W36	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W37	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W38		N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W39	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W40	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W41		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W42		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W43		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W44		N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.21	Circumferential Welds	ISIM-874-1	PS-W45	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W46		N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W47	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W48		N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W49	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W50	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W51		N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W52		N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W53		Y		X		N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W54		Y		X		N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W55	B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W56	B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W57	B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W58	B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-874-1	PS-W59	B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W1	A	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-I**

Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.21	Circumferential Welds	ISIM-874-2	PS-W2	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W3		Y	X			N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W4		Y		X		N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W5		Y		X		N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W6		Y		X		N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W7		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W8		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W9		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W10		Y	X			N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W11	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W12	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W13		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W14		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W15		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W16		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W17		N				N		X			

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** B-1      **Description** PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.21	Circumferential Welds	ISIM-874-2	PS-W18		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W19		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W20		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W21	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W22		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W23	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W24	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W25	A	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W26	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W28		N				N		X			
B9.21	Circumferential Welds	ISIM-874-2	PS-W29		N				N		X			
B9.21	Circumferential Welds	ISIM-936	SI-W87B	A	N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W3		N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W4	A	N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W5	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W6		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.21	Circumferential Welds	ISIM-940-1	PR-W7	A	N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W8		N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W9	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W10	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W11	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W12		Y	X			N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W13		Y		X		N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W14		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W15		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-940-1	PR-W37		N				N		X			
B9.21	Circumferential Welds	ISIM-982	S1-W11B		Y		X		N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W5B		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W6B		Y		X		N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W25B	A	N				N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W26		Y	X			N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W27		Y		X		N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-I** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.21	Circumferential Welds	ISIM-1460	RTD-W28	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W29	A B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W30	B,2	N				N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W31		N				N		X			
B9.21	Circumferential Welds	ISIM-1460	RTD-W55B		N				N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W60B		Y	X			N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W61B		Y			X	N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W78B	A B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W79	B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W80	A B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W81	B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W82	A B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W83	B,3	N				N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W84	A	N				N		X			



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.21	Circumferential Welds	ISIM-1461	RTD-W106B	A B,1	N				N		X			
B9.21	Circumferential Welds	ISIM-1461	RTD-W107	A	N				N		X			
	Branch Pipe Connection Welds													
B9.31	NPS 4 or Larger	ISIM-1703	RC-W3BC	B,1	N				N	X	X			
B9.31	NPS 4 or Larger	ISIM-1703	RC-W4BC	A	Y			X	N	X	X			
B9.31	NPS 4 or Larger	ISIM-1703	RC-W22BC	B,2	N				N	X	X			
B9.31	NPS 4 or Larger	ISIM-1703	RC-W23BC	A	Y	X			N	X	X			
B9.31	NPS 4 or Larger	ISIM-1704	RC-W32BC	A	N				N	X	X			
B9.31	NPS 4 or Larger	ISIM-1704	RC-W33BC	A B,2	N				N	X	X			
B9.31	NPS 4 or Larger	ISIM-1704	RC-W34BC	B,2	N				N	X	X			
B9.31	NPS 4 or Larger	ISIM-1704	RC-W50BC		Y		X		N	X	X			
B9.31	NPS 4 or Larger	ISIM-1704	RC-W54BC	B,3	N				N	X	X			
B9.32	Less Than NPS 4	ISIM-874-2	PS-W27BC	B,3	N				N		X			
B9.32	Less Than NPS 4	ISIM-938-2SH1	SI-W104BC	A	Y			X	N		X			
B9.32	Less Than NPS 4	ISIM-939SH1	SI-W42BC	A	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-J Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.32	Less Than NPS 4	ISIM-1703	RC-W13BC	B,1	N				N		X			
B9.32	Less Than NPS 4	ISIM-1703	RC-W14BC	A	Y	X			N		X			
B9.32	Less Than NPS 4	ISIM-1703	RC-W21BC	A	Y			X	N		X			
B9.32	Less Than NPS 4	ISIM-1703	RC-W68BC		N				N		X			
B9.32	Less Than NPS 4	ISIM-1703	RC-W71BC		N				N		X			
B9.32	Less Than NPS 4	ISIM-1703	RC-W72BC		N				N		X			
B9.32	Less Than NPS 4	ISIM-1704	RC-W43BC	A	N				N		X			
B9.32	Less Than NPS 4	ISIM-1704	RC-W44BC	A	N				N		X			
B9.32	Less Than NPS 4	ISIM-1704	RC-W51BC	A	N				N		X			
B9.32	Less Than NPS 4	ISIM-1704	RC-W52BC	A	Y		X		N		X			
B9.32	Less Than NPS 4	ISIM-1704	RC-W53BC	B,3	N				N		X			
B9.32	Less Than NPS 4	ISIM-1704	RC-W74BC		N				N		X			
B9.32	Less Than NPS 4	ISIM-1704	RC-W75BC		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W153S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W154S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W155S	B,3	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-874-3	CVC-W156S	A B,3	N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W157S	A	N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W158S		Y	X			N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W159S		Y	X			N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W160S		Y		X		N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W161S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W162S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W163S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W164S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W165S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W166S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W167S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W168S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W169S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W170S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W171S	A	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-874-3	CVC-W172S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W173S		Y		X		N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W174S		Y			X	N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W175S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W176S		Y			X	N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W177S		Y			X	N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W178S		N				N		X			
B9.40	Socket Welds	ISIM-874-3	CVC-W179S		N				N		X			
B9.40	Socket Welds	ISIM-936	SI-W77S	A B,3	N				N		X			
B9.40	Socket Welds	ISIM-936	SI-W78S	A	N				N		X			
B9.40	Socket Welds	ISIM-936	SI-W79S	A	N				N		X			
B9.40	Socket Welds	ISIM-936	SI-W80S		Y	X			N		X			
B9.40	Socket Welds	ISIM-936	SI-W81S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-936	SI-W82S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-936	SI-W83S	B,1,2	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-I** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code, or Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-936	SI-W84S	A B,1	N				N		X			
B9.40	Socket Welds	ISIM-936	SI-W85S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-936	SI-W86S	A B,1	N				N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W29S		N				N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W30S		Y		X		N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W31S		N				N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W32S		Y	X			N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W33S		Y		X		N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W34S		Y			X	N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W35S	A	N				N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W36S	A	N				N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W37S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W38S		N				N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W39S	A	N				N		X			
B9.40	Socket Welds	ISIM-937-1	SI-W40S		Y			X	N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-937-1	SI-W41S	B,2,3	N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W91S		N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W92S		Y	X			N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W93S		N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W94S	A	N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W95S		Y		X		N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W96S		Y			X	N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W97S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W98S		N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W99S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W100S	A	N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W101S		N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W102S		N				N		X			
B9.40	Socket Welds	ISIM-937-2SH1	SI-W103S	A	N				N		X			
B9.40	Socket Welds	ISIM-982	SI-W1S		Y	X			N		X			
B9.40	Socket Welds	ISIM-982	SI-W2S		Y		X		N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-982	SI-W3S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-982	SI-W4S	A B,1	N				N		X			
B9.40	Socket Welds	ISIM-982	SI-W5S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-982	SI-W6S		Y			X	N		X			
B9.40	Socket Welds	ISIM-982	SI-W7S	A B,1	N				N		X			
B9.40	Socket Welds	ISIM-982	SI-W8S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-982	SI-W9S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-982	SI-W10S	A B,1	N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W1S		N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W2S		N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W3S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W4S	A	N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W5S	A	N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W6S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W7S		Y	X			N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-J Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1369-2	WD-W8S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W9S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W10S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W11S	A	N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W12S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W13S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W14S		N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W15S		N				N		X			
B9.40	Socket Welds	ISIM-1369-2	WD-W16S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W1S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W2S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W3S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W4S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W7S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W8S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W9S	B,2	N				N		X			



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1460	RTD-W10S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W11S		N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W12S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W13S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W14S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W15S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W16S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W17S		N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W18S		N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W19S		N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W20S		N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W21S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W22S	A B,1	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W23S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W24S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W32S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-J Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1460	RTD-W33S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W34S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W35S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W36S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W37S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W38S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W39S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W40S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W41S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W42S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W43S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W44S		N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W45S		N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W46S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W49S	A	N				N		X			
B9.40	Socket Welds	ISIM-1460	RTD-W50S	A	N				N		X			



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1461	RTD-W70S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W71S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W72S		N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W73S		N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W74S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W75S	B,2	Y	X	X		N		X			Note 1
B9.40	Socket Welds	ISIM-1461	RTD-W76S		N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W77S	A	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W85S	A	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W86S		N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W87S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W88S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W89S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W90S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W91S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W92S	B,1	N				N		X			

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**THIRD INTERVAL ISI SCHEDULE**

Examination Category B-J Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1461	RTD-W93S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W94S		N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W95S	A	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W96S	A	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W97S	B,1,2	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W98S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W99S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W100S	A	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W101S	A	N				N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W102S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W103S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W104S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1461	RTD-W105S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W1S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W2S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W3S	A	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-J Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1471	CVC-W4S	A	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W5S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W6S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W7S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W8S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W9S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W10S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W11S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W12S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W13S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W14S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W15S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W16S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W17S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W18S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W19S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
B9.40	Socket Welds	ISIM-1471	CVC-W20S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W21S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W22S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W23S	A	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W24S	A	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W25S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W26S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W27S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W28S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W29S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W30S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W31S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W32S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W33S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W34S	A	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W35S	A	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-J Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1471	CVC-W36S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W37S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W38S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W39S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W40S	A	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W41S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W42S	A	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W43S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W44S	A	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W45S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W46S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W47S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W48S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W49S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W50S		N				N		X			
B9.40	Socket Welds	ISIM-1471	CVC-W51S		N				N		X			



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1471	CVC-W52S	B,3	N					N		X		
B9.40	Socket Welds	ISIM-1471	CVC-W53S	B,3	N					N		X		
B9.40	Socket Welds	ISIM-1471	CVC-W54S	B,3	N					N		X		
B9.40	Socket Welds	ISIM-1471	CVC-W55S	A	N					N		X		
B9.40	Socket Welds	ISIM-1471	CVC-W56S	A	N					N		X		
B9.40	Socket Welds	ISIM-1471	CVC-W57S	A	N					N		X		
B9.40	Socket Welds	ISIM-1471	CVC-W58S	A	N					N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W59S	B,2	N					N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W60S	B,2	N					N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W61S	B,2	N					N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W62S	B,2	N					N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W63S	B,2	N					N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W64S		Y	X				N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W65S		Y	X				N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W66S	B,1	N					N		X		
B9.40	Socket Welds	ISIM-1473	CVC-W67S	B,1	N					N		X		

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1473	CVC-W68S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W69S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W70S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W71S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W72S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W73S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W74S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W75S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W76S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W77S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W78S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W79S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W80S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W81S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W82S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W83S		Y		X		N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-J Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1473	CVC-W84S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W85S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W86S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W87S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W88S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W89S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W90S	B,3	Y			X	N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W91S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W92S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W93S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W94S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W95S	A	N				N		X			
B9.40	Socket Welds	ISIM-1473	CVC-W96S	A	N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W1S		N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W2S		N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W3S	B,2	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-1 Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1474	LD-W4S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1474	LD-W5S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1474	LD-W6S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W7S	A	N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W8S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1474	LD-W9S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1474	LD-W10S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W11S		N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W12S		N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W13S	A	N				N		X			
B9.40	Socket Welds	ISIM-1474	LD-W14S		N				N		X			
B9.40	Socket Welds	ISIM-1474	WD-W17S	A	N				N		X			
B9.40	Socket Welds	ISIM-1474	WD-W18S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1474	WD-W19S		N				N		X			
B9.40	Socket Welds	ISIM-1474	WD-W20S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W97S	B,1	N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-I Description PRESSURE RETAINING WELDS IN PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1476	CVC-W98S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W99S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W100S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W101S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W102S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W103S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W104S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W105S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W106S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W107S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W108S	B,1	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W109S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W110S		Y	X			N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W111S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W112S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W113S	B,2	N				N		X			

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-I** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1476	CVC-W114S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W115S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W116S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W117S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W118S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W119S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W120S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W121S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W122S	B,2	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W123S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W124S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W125S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W126S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W127S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W128S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W129S	B,3	N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-1** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1476	CVC-W130S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W131S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W132S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W133S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W134S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W135S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W136S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W137S		Y		X		N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W138S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W139S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W140S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W141S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W142S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W143S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W144S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W145S		Y			X	N		X			

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-I** Description **PRESSURE RETAINING WELDS IN PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1476	CVC-W146S	B,3	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W147S		Y			X	N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W148S		N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W149S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W150S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W151S	A	N				N		X			
B9.40	Socket Welds	ISIM-1476	CVC-W152S	A	N				N		X			

**Category Notes:**

- Scheduled for successive examinations. The indication was evaluated and determined to be non-relevant. However, WPSC has scheduled the area for successive examinations to be completed during the first and second inspection period of the third interval as a precautionary measure. These examinations are not included in the total count of those welds that are scheduled for examination during the inspection interval for Item B9.40.



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THIRD INTERVAL ISI SCHEDULE

Examination Category B-K-1 Description INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Piping													
B10.10	Integrally Welded Attachments	ISIM-874-2	RC-H22		N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-874-2	RC-H23	1	N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-874-2	RC-H24	1	N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-874-2	RC-H27	1	N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-874-2	RC-H29A	2	N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-874-2	RC-H32	1	N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-874-2	RC-H33	1	N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-874-2	RC-H35	1	N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-935	RS1-H56	3	N				N		X			Note 1
B10.10	Integrally Welded Attachments	ISIM-935	RS1-H57	3	N				N		X			Note 1

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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-K-1** Description **INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B10.10	Integrally Welded Attachments	ISIM-935	RSI-H58	3	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-936	RSI-H7	2	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-937-2SH1	RSI-H77	2	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-938-1	RRHR-H17	3	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-938-2SH1	RSI-H34	2	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-939SH1	RSI-H62	2	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-957-1SH1	RRHR-H1	2	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-957-1SH1	RRHR-H2	2	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-957-1SH1	RRHR-H3	2	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-957-1SH1	RRHR-H4	2	N					N		X		Note 1
B10.10	Integrally Welded Attachments	ISIM-957-1SH1	RRHR-H9		N					N		X		Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-K-1** Description **INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B10.10	Integrally Welded Attachments	ISIM-982	RSI-H14	2,3	N					N		X		Note 1
	Pumps													
B10.20	Integrally Welded Attachments	M-1204	RCP-CS1	1	N					N		X		Note 1
B10.20	Integrally Welded Attachments	M-1204	RCP-CS2	2	N					N		X		Note 1
B10.20	Integrally Welded Attachments	M-1204	RCP-CS3	1	N					N		X		Note 1
B10.20	Integrally Welded Attachments	M-1204	RCP-CS4	3	N					N		X		Note 1
B10.20	Integrally Welded Attachments	M-1204	RCP-CS5	3	N					N		X		Note 1
B10.20	Integrally Welded Attachments	M-1204	RCP-CS6	3	N					N		X		Note 1

**Category Notes:**

1. Integral attachments for piping and pumps were examined in the first and second intervals in accordance with Inspection Program B. No examinations are required in the third interval for Inspection Program B.

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** B-L-1      **Description** PRESSURE RETAINING WELDS IN PUMP CASINGS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
	Pumps													
B12.10	Pump Casing Welds	M-1203	RCP-W1	2	Y			X	P			X	N-481	Note 1

**Category Notes:**

1. Weld exists in RCP-1A. Examinations will be as specified in Code Case N-481: VT-2 visual examination of pump exterior during the pressure test (Code Case N-498) required by Table IWB-2500-1, Category B-P; VT-1 visual examination of external surfaces of pump casing weld; and VT-3 visual examination of the internal surfaces whenever the pump is disassembled for maintenance.

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** B-L-2      **Description** PRESSURE RETAINING WELDS IN PUMP CASINGS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Pumps													
B12.20	Pump Casing	M-1203	RCP-1A-INT		N				P			X		Note 1
B12.20	Pump Casing	M-1203	RCP-1B-INT		N				P			X		Note 1

**Category Notes:**

- VT-3 visual examination is required only when pump is disassembled for maintenance, repair, or volumetric examination. Examination of the internal pressure boundary shall be performed to the extent practicable. Examination is required only once during the inspection interval. Examination is limited to one reactor coolant pump.

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-M-2

Description PRESSURE RETAINING WELDS IN VALVE BODIES

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Valves													
B12.50	Valve Body, Exceeding NPS 4	ISIM-935	SI-21A	2	N				P			X		Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-935	SI-22A	2	N				P			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-936	SI-13B	2	N				P			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-1	RHR-11	2	N				P			X		Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-1	SI-21B	2	N				P			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-1	SI-22B	2	N				P			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-2SH1	SI-303A	2	N				P			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-2SH1	SI-304A	2	N				P			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-939SH1	SI-303B	2	N				P			X		Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-939SH1	SI-304B	2	N				P			X		Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-M-2** Description **PRESSURE RETAINING WELDS IN VALVE BODIES**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B12.50	Valve Body, Exceeding NPS 4	ISIM-940-2	PR-3A	2	N					P			X	Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-940-2	PR-3B	1,2	N					P			X	Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-957-1SH1	RHR-1A	2	N					P			X	Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-957-1SH1	RHR-1B	2	N					P			X	Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-957-1SH1	RHR-2A	2	N					P			X	Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-957-1SH1	RHR-2B	2	N					P			X	Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-982	SI-13A	2	N					P			X	Note 1

**Category Notes:**

- Examination is only required when a valve is disassembled for maintenance, repair, or volumetric examination. VT-2 visual examination of the internal pressure boundary shall be performed to the extent practicable. Examination is required only once during the inspection interval. Examinations are limited to at least one valve within a group of valves that are of the same size, constructional design (such as globe, gate, or check valves), and manufacturing method, and that perform similar functions in the system (such as containment isolation and system overpressure protection). There are 17 valves that comprise five "groups" of valves that are the same size, constructional design and manufacturing method, and that perform similar functions: 1) RHR-11; 2) RHR-1A, RHR-1B, RHR-2A, RHR-2B; 3) SI-21A, SI-21B, SI-22A, SI-22B; 4) SI-13A, SI-13B, SI-303A, SI-303B, SI-304A, SI-304B; and 5) PR-3A, PR-3B.
- Bolting examination in accordance with the requirements of examination category B-G-2 is scheduled for this valve.

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**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-N-1** Description **INTERIOR OF REACTOR VESSEL**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Reactor Vessel													
B13.10	Vessel Interior	M-1199	RV	1,2,3	Y	X	X	X	N			X		Note 1

**Category Notes:**

1. Areas to be examined shall include the spaces above and below the reactor core made accessible for examination by removal of components during normal refueling outages.



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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-N-2** Description **INTEGRALLY WELDED CORE SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO REACTOR VESSELS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Reactor Vessel													
B13.50	Interior Attachments Within Beltline Region	M-1199	RV	3	Y			X	P			X		
B13.60	Interior Attachments Beyond Beltline Region	M-1199	RV	3	Y			X	P			X		

Category Notes:

1. None.

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-N-3 Description REMOVABLE CORE SUPPORT STRUCTURES

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
	Reactor Vessel													
B13.70	Core Support Structure	M-1199	RV INTERNALS	3	Y			X	P			X		Note 1 and 2

Category Notes:

1. The structure shall be removed from the reactor vessel for examination.
2. Inspect baffle/barrel region bolts and all flexures. Reference WCAP-13627.

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-O Description PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Reactor Vessel													
B14.10	Welds in CRD Housing	M-1197	RV-CD1		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD2		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD3		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD4		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD5		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD6		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD7		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD8		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD9		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD10		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD11		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD12		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD13		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD14		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD15		N									Note 1 and 2

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-O Description PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B14.10	Welds in CRD Housing	M-1197	RV-CD16		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD17		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD18		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD19		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD20		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD21		Y			X	P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD22		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD23		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD24		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD25		Y			X	P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD26		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD27	B,3	N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD28		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD29		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD30	B,3	N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD31		N									Note 1 and 2

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THIRD INTERVAL ISI SCHEDULE

Examination Category B-Q Description PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
B14.10	Welds in CRD Housing	M-1197	RV-CD32		N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD33	A B,3	N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD34	A	N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD35	A	N									Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD37		Y			X	P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD38		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD39		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD40		N									Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD41		N									Note 1

Category Notes:

1. Surface or volumetric examination required.
2. Peripheral CRD housing.

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THIRD INTERVAL ISI SCHEDULE

Examination Category **B-P**

Description **ALL PRESSURE RETAINING COMPONENTS (SYSTEM LEAKAGE PRESSURE TESTS)**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	<b>Reactor Vessel</b>													
B15.10	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y	X	X	X	N			X		
	<b>Pressurizer</b>													
B15.20	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y	X	X	X	N			X		
	<b>Steam Generators</b>													
B15.30	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y	X	X	X	N			X		
	<b>Heat Exchangers</b>													
B15.40	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y	X	X	X	N			X		
	<b>Piping</b>													
B15.50	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y	X	X	X	N			X		
	<b>Pumps</b>													
B15.60	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y	X	X	X	N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **B-P** Description **ALL PRESSURE RETAINING COMPONENTS (SYSTEM LEAKAGE PRESSURE TESTS)**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Valves													
B15.70	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y	X	X	X	N				X	

**Category Notes:**

1. The pressure retaining boundary during the system leakage test shall correspond to the reactor coolant system boundary with all valves in the normal position, which is required for normal reactor operation startup. The VT-2 examination shall, however, extend to and include the second closed valve at the boundary extremity.
2. System pressure tests of the reactor coolant system shall be conducted in accordance with IWA-5000. System pressure tests for repaired, replaced, or altered components shall be governed by IWA-5214(c).
3. The system leakage test (IWB-5221) shall be conducted prior to plant startup following each reactor refueling outage. However, a system hydrostatic test (IWB-5222) and the accompanying VT-2 examination will be performed in lieu of the system leakage test (IWB-5221) during the last inspection period of the interval.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category B-P Description ALL PRESSURE RETAINING COMPONENTS (HYDROSTATIC PRESSURE TESTS)

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Reactor Vessel													
B15.11	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y			X	P			X	N-498	
	Pressurizer													
B15.21	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y			X	P			X	N-498	
	Steam Generators													
B15.31	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y			X	P			X	N-498	
	Heat Exchangers													
B15.41	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y			X	P			X	N-498	
	Piping													
B15.51	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y			X	P			X	N-498	
	Pumps													
B15.61	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y			X	P			X	N-498	



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **B-P** Description **ALL PRESSURE RETAINING COMPONENTS (HYDROSTATIC PRESSURE TESTS)**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Valves													
B15.71	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44			Y			X	P			X	N-498	

**Category Notes:**

1. The pressure retaining boundary during the system hydrostatic test shall include all class 1 components within the system boundary.
2. System pressure tests of the reactor coolant system shall be conducted in accordance with IWA-5000. System pressure tests for repaired, replaced, or altered components shall be governed by IWA-5214(c).
3. The system hydrostatic test (IWB-5222) shall be conducted at or near the end of each inspection interval.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **C-A** Description **PRESSURE RETAINING WELDS IN PRESSURE VESSELS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C1.10	Shell Circumferential Welds	M-1206	SG-W2	2	N				N	X				STEAM GENERATOR 1A Note 1 and 3
C1.10	Shell Circumferential Welds	M-1206	SG-W3	3	Y		X		N	X				STEAM GENERATOR 1A Note 1, 2, and 3
C1.10	Shell Circumferential Welds	M-1206	SG-W4	3	Y			X	N	X				STEAM GENERATOR 1A Note 1 and 3
C1.10	Shell Circumferential Welds	M-1206	SG-W10	1,2	Y	X			N	X				STEAM GENERATOR 1B Note 1 and 3
C1.10	Shell Circumferential Welds	M-1206	SG-W11		N				N	X				STEAM GENERATOR 1B Note 1, 2, and 3
C1.10	Shell Circumferential Welds	M-1206	SG-W12		N				N	X				STEAM GENERATOR 1B Note 1 and 3
C1.10	Shell Circumferential Welds	M-1207	AHRS1-W1	1,2,3	Y	X			N	X				RHR HEAT EXCHANGER 1A Note 3
C1.10	Shell Circumferential Welds	M-1207	AHRS2-W5		N				N	X				RHR HEAT EXCHANGER 1B Note 3
C1.10	Shell Circumferential Welds	M-1209	AHNR-W1	1,2,3	Y		X		N	X				LETDOWN HEAT EXCHANGER
C1.10	Shell Circumferential Welds	M-1212	AFSI-W1	1,2,3	Y			X	N	X				SEAL WATER INJECTION FILTER 1A Note 3
C1.10	Shell Circumferential Welds	M-1212	AFSI-W3	2	N				N	X				SEAL WATER INJECTION FILTER 1B Note 3

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **C-A** Description **PRESSURE RETAINING WELDS IN PRESSURE VESSELS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C1.20	Head Circumferential Welds	M-1206	SG-W1		N				N	X				STEAM GENERATOR 1A Note 3
C1.20	Head Circumferential Welds	M-1206	SG-W9	1	Y			X	N	X				STEAM GENERATOR 1B Note 3
C1.20	Head Circumferential Welds	M-1207	AHRS1-W2	1,3	Y		X		N	X				RHR HEAT EXCHANGER 1A Note 3
C1.20	Head Circumferential Welds	M-1207	AHRS2-W6	2	N				N	X				RHR HEAT EXCHANGER 1B Note 3
C1.20	Head Circumferential Welds	M-1208	ARG-W1		N				N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.20	Head Circumferential Welds	M-1208	ARG-W4		N				N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.20	Head Circumferential Welds	M-1208	ARG-W5		N				N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.20	Head Circumferential Welds	M-1208	ARG-W8		N				N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.20	Head Circumferential Welds	M-1208	ARG-W9		Y		X		N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.20	Head Circumferential Welds	M-1208	ARG-W12		Y	X			N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.20	Head Circumferential Welds	M-1209	AHNR-W2	1,2,3	Y			X	N	X				LETDOWN HEAT EXCHANGER

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-A Description PRESSURE RETAINING WELDS IN PRESSURE VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C1.20	Head Circumferential Welds	M-1210	APD-1A-W1	1	Y	X			N	X				CHG PUMP PULSATION DAMPENER 1A Note 3
C1.20	Head Circumferential Welds	M-1210	APD-1A-W2	2	N				N	X				CHG PUMP PULSATION DAMPENER 1A Note 3
C1.20	Head Circumferential Welds	M-1210	APD-1B-W3		N				N	X				CHG PUMP PULSATION DAMPENER 1B Note 3
C1.20	Head Circumferential Welds	M-1210	APD-1B-W4	3	Y			X	N	X				CHG PUMP PULSATION DAMPENER 1B Note 3
C1.20	Head Circumferential Welds	M-1210	APD-1C-W5		N				N	X				CHG PUMP PULSATION DAMPENER 1C Note 3
C1.20	Head Circumferential Welds	M-1210	APD-1C-W6		N				N	X				CHG PUMP PULSATION DAMPENER 1C Note 3
C1.20	Head Circumferential Welds	M-1212	AFSI-W2	2,3	Y		X		N	X				SEAL WATER INJECTION FILTER 1A Note 3
C1.20	Head Circumferential Welds	M-1212	AFSI-W4	2	N				N	X				SEAL WATER INJECTION FILTER 1B Note 3
C1.30	Tubesheet-to-Shell Weld	M-1206	SG-W5	2	Y		X		N	X				STEAM GENERATOR 1A Note 3
C1.30	Tubesheet-to-Shell Weld	M-1206	SG-W13		N				N	X				STEAM GENERATOR 1B Note 3
C1.30	Tubesheet-to-Shell Weld	M-1208	ARG-W2		N				N	X				REGENERATIVE HEAT EXCHANGER Note 3

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category C-A Description PRESSURE RETAINING WELDS IN PRESSURE VESSELS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C1.30	Tubesheet-to-Shell Weld	M-1208	ARG-W3		N				N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.30	Tubesheet-to-Shell Weld	M-1208	ARG-W6		N				N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.30	Tubesheet-to-Shell Weld	M-1208	ARG-W7		N				N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.30	Tubesheet-to-Shell Weld	M-1208	ARG-W10		Y	X			N	X				REGENERATIVE HEAT EXCHANGER Note 3
C1.30	Tubesheet-to-Shell Weld	M-1208	ARG-W11		Y			X	N	X				REGENERATIVE HEAT EXCHANGER Note 3

**Category Notes:**

1. Examination is limited to welds at gross structural discontinuities as defined in NB-3213.2.
2. Inaccessible weld due to bracket for snubber.
3. In the case of multiple vessels of similar design, size, and service (such as steam generator, heat exchangers), the required examinations may be limited to one vessel or distributed among the vessels.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **C-B**

Description **PRESSURE RETAINING NOZZLE WELDS IN VESSELS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Nozzles Without Reinforcing Plate in Vessels > 1/2 In. Nominal Thickness													
C2.21	Nozzle-to-Shell (or Head) Weld	M-1206	SG-W7		N					X	X			STEAM GENERATOR 1A Note 1
C2.21	Nozzle-to-Shell (or Head) Weld	M-1206	SG-W8	2	Y	X				X	X			STEAM GENERATOR 1A Note 1
C2.21	Nozzle-to-Shell (or Head) Weld	M-1206	SG-W15	3	N					X	X			STEAM GENERATOR 1B Note 1
C2.21	Nozzle-to-Shell (or Head) Weld	M-1206	SG-W16	1	Y			X		X	X			STEAM GENERATOR 1B Note 1
C2.22	Nozzle Inside Radius Section	M-1206	SG-IR7		N					X				STEAM GENERATOR 1A Note 1
C2.22	Nozzle Inside Radius Section	M-1206	SG-IR8	2	Y	X				X				STEAM GENERATOR 1A Note 1
C2.22	Nozzle Inside Radius Section	M-1206	SG-IR15	3	Y			X		X				STEAM GENERATOR 1B Note 1
C2.22	Nozzle Inside Radius Section	M-1206	SG-IR16	1	N					X				STEAM GENERATOR 1B Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **C-B** Description **PRESSURE RETAINING NOZZLE WELDS IN VESSELS**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		

**Category Notes:**

1. In the case of multiple vessels of similar design, size, and service (such as steam generators, heat exchangers), the required examinations may be limited to one vessel or distributed among the vessels.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-C Description INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Pressure Vessels													
C3.10	Integrally Welded Attachments	M-1207	AHRS1-SW1	2	Y	X			N		X			RHR HEAT EXCHANGER 1A Note 1
C3.10	Integrally Welded Attachments	M-1207	AHRS1-SW2	1	Y		X		N		X			RHR HEAT EXCHANGER 1A Note 1
C3.10	Integrally Welded Attachments	M-1207	AHRS2-SW3		N				N		X			RHR HEAT EXCHANGER 1B Note 1
C3.10	Integrally Welded Attachments	M-1207	AHRS2-SW4	3	N				N		X			RHR HEAT EXCHANGER 1B Note 1
	Piping													
C3.20	Integrally Welded Attachments	ISIM-934-2	SI-H16		Y	X			N		X			
C3.20	Integrally Welded Attachments	ISIM-934-2	SI-H17A		Y	X			N		X			
C3.20	Integrally Welded Attachments	ISIM-937-2SH1	RSI-H68		Y		X		N		X			
C3.20	Integrally Welded Attachments	ISIM-937-2SH1	RSI-H72		Y			X	N		X			
C3.20	Integrally Welded Attachments	ISIM-938-2SH1	RSI-H1	3	Y			X	N		X			



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-C

Description INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C3.20	Integrally Welded Attachments	ISIM-970	FDW-H169		Y			X	N		X			
C3.20	Integrally Welded Attachments	ISIM-971	FDW-H170		Y			X	N		X			
C3.20	Integrally Welded Attachments	ISIM-982	RSI-H8		Y	X			N		X			
C3.20	Integrally Welded Attachments	ISIM-982	RSI-H9		Y		X		N		X			
C3.20	Integrally Welded Attachments	ISIM-982	RSI-H10		Y			X	N		X			
C3.20	Integrally Welded Attachments	ISIM-982	RSI-H12		Y		X		N		X			
C3.20	Integrally Welded Attachments	ISIM-982	RSI-H13A		Y		X		N		X			
	<b>Pumps</b>													
C3.30	Integrally Welded Attachments	M-1707	APSI-1A-S1		Y	X			N		X			SAFETY INJECTION PUMP 1A
C3.30	Integrally Welded Attachments	M-1707	APSI-1A-S2		Y		X		N		X			SAFETY INJECTION PUMP 1A
C3.30	Integrally Welded Attachments	M-1707	APSI-1A-S3		Y			X	N		X			SAFETY INJECTION PUMP 1A

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** C-C      **Description** INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C3.30	Integrally Welded Attachments	M-1707	APSI-1A-S4		Y	X			N		X			SAFETY INJECTION PUMP 1A
C3.30	Integrally Welded Attachments	M-1707	APSI-1B-S1		Y			X	N		X			SAFETY INJECTION PUMP 1B
C3.30	Integrally Welded Attachments	M-1707	APSI-1B-S2		Y	X			N		X			SAFETY INJECTION PUMP 1B
C3.30	Integrally Welded Attachments	M-1707	APSI-1B-S3		Y		X		N		X			SAFETY INJECTION PUMP 1B
C3.30	Integrally Welded Attachments	M-1707	APSI-1B-S4		Y			X	N		X			SAFETY INJECTION PUMP 1B

**Category Notes:**

1. In case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Piping Welds ≥ 3/8 In. Nominal Wall Thickness for Piping > NPS 4													
C5.11	Circumferential Weld	ISIM-938-1	RHR-W190		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	S1-W124		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	S1-W125		Y		X		N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	S1-W126		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	S1-W127		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W177		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W177A		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W178		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W185		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W186		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W187		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W188		N				N	X	X			
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W189		N				N	X	X			
C5.11	Circumferential Weld	ISIM-939SH1	S1-W149		N				N	X	X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.11	Circumferential Weld	ISIM-939SH1	SI-W150		N				N	X	X			
C5.11	Circumferential Weld	ISIM-939SH1	SI-W168		N				N	X	X			
C5.11	Circumferential Weld	ISIM-939SH1	SI-W169	1	N				N	X	X			
C5.11	Circumferential Weld	ISIM-951	ICS-W43		Y			X	N	X	X			
C5.11	Circumferential Weld	ISIM-951	ICS-W44		N				N	X	X			
C5.11	Circumferential Weld	ISIM-957-2	RHR-W62		N				N	X	X			
C5.11	Circumferential Weld	ISIM-957-2	RHR-W63C		N				N	X	X			
C5.11	Circumferential Weld	ISIM-957-2	RHR-W412		N				N	X	X			
C5.11	Circumferential Weld	ISIM-958-1SH1	RHR-W87	3	N				N	X	X			
C5.11	Circumferential Weld	ISIM-958-1SH1	RHR-W88	3	N				N	X	X			
C5.11	Circumferential Weld	ISIM-958-1SH1	RHR-W89		N				N	X	X			
C5.11	Circumferential Weld	ISIM-958-1SH1	RHR-W413		Y			X	N	X	X			
C5.11	Circumferential Weld	ISIM-958-1SH1	RHR-W414		N				N	X	X			
C5.11	Circumferential Weld	ISIM-959-2	RHR-W111		N				N	X	X			
C5.11	Circumferential Weld	ISIM-959-2	RHR-W112		N				N	X	X			
C5.11	Circumferential Weld	ISIM-959-2	RHR-W113		Y	X			N	X	X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.11	Circumferential Weld	ISIM-959-2	RHR-W114		N				N	X	X			
C5.11	Circumferential Weld	ISIM-959-2	RHR-W400		N				N	X	X			
C5.11	Circumferential Weld	ISIM-959-2	RHR-W401		N				N	X	X			
C5.11	Circumferential Weld	M-1707	APSI-1A-W1		N				N	X	X			
C5.11	Circumferential Weld	M-1707	APSI-1A-W2		N				N	X	X			
C5.11	Circumferential Weld	M-1707	APSI-1B-W1		N				N	X	X			
C5.11	Circumferential Weld	M-1707	APSI-1B-W2		N				N	X	X			
C5.12	Longitudinal Weld	ISIM-958-1SH1	RHR-W415L	3	N				N	X	X			
C5.12	Longitudinal Weld	ISIM-958-1SH1	RHR-W416L	3	N				N	X	X			
C5.12	Longitudinal Weld	ISIM-959-2	RHR-W402L	3	N				N	X	X			
C5.12	Longitudinal Weld	ISIM-959-2	RHR-W403L	3	Y	X			N	X	X			
C5.12	Longitudinal Weld	ISIM-959-2	RHR-W404L	3	Y	X			N	X	X			
	<b>Piping Welds &gt; 3/8 In. Nominal Wall Thickness for Piping &gt; NPS 4</b>													
C5.13	Circumferential Weld	ISIM-933	RHR-W276		N									
C5.13	Circumferential Weld	ISIM-933	RHR-W277		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-933	RHR-W278		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W279		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W280		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W281		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W282	1	Y	X			N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W283		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W315		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W316		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W317		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W318		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W319		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W320		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W321		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W322		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W323		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W324		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-933	RHR-W325	2	N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W326		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W327		N				N		X			
C5.13	Circumferential Weld	ISIM-933	RHR-W328		N				N		X			
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W176A		N				N		X			
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W179	2	Y		X		N		X			
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W180	2	Y		X		N		X			
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W181		N				N		X			
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W182		N				N		X			
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W183		N				N		X			
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W184	2	Y		X		N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W151	2	Y		X		N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W152	2	Y		X		N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W153		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W154		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W155		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-939SH1	SI-W156	2,3	Y			X	N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W157		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W158		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W159		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W160		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W161	1	Y	X			N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W162		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W163		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W164		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W165		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W166		N				N		X			
C5.13	Circumferential Weld	ISIM-939SH1	SI-W167	2	N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	ICS-W45		Y		X		N		X			
C5.13	Circumferential Weld	ISIM-950-1	ICS-W47		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	ICS-W48		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	ICS-W49		N				N		X			



**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Exammed	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-950-1	RHR-W262		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W263		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W264		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W265		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W266		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W267		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W268		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W269		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W270		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W271		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W272		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W273		Y	X			N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W274		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W275		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W406		N				N		X			
C5.13	Circumferential Weld	ISIM-950-1	RHR-W407		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1

Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-950-1	RHR-W408		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	ICS-W50		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	ICS-W52		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	ICS-W53		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	ICS-W54		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W298		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W299		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W300		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W301		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W302		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W303		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W304		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W305		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W306		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W307		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W308		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-950-2	RHR-W309		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W310		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W311		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W312		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W313		Y			X	N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W314		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W409		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W410		N				N		X			
C5.13	Circumferential Weld	ISIM-950-2	RHR-W411		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W1		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W2		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W3		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W4		Y			X	N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W5		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W6		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W8		N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-951	ICS-W9		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W10		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W11		Y			X	N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W12		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W13		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W14		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W15		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W16		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W17		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W18		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W19		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W20		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W21		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W22		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W23		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W24		N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1

Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Exammed	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-951	ICS-W25		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W26		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W27		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W28		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W29		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W30		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W31		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W32		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W33		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W34		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W35		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W36		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W37		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W38		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W39		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W40		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-951	ICS-W41		N				N		X			
C5.13	Circumferential Weld	ISIM-951	ICS-W42		N				N		X			
C5.13	Circumferential Weld	ISIM-952	ICS-W141		N				N		X			
C5.13	Circumferential Weld	ISIM-952	ICS-W142		N				N		X			
C5.13	Circumferential Weld	ISIM-952	ICS-W143		N				N		X			
C5.13	Circumferential Weld	ISIM-952	ICS-W144		N				N		X			
C5.13	Circumferential Weld	ISIM-952	ICS-W145		N				N		X			
C5.13	Circumferential Weld	ISIM-952	ICS-W146		N				N		X			
C5.13	Circumferential Weld	ISIM-952	ICS-W147		Y	X			N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W100		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W101		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W102		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W103		Y	X			N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W104		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W105		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W107		N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-953	ICS-W108		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W109		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W110		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W111		Y		X		N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W112		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W113		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W114		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W115		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W116		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W117		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W118		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W119		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W120		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W121		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W122		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W123		N				N		X			

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Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-953	ICS-W124		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W125		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W126		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W127		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W128		N				N		X			
C5.13	Circumferential Weld	ISIM-953	ICS-W129		N				N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W148		N				N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W149		N				N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W150		N				N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W151		Y		X		N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W152		N				N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W153		N				N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W154		N				N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W155		Y			X	N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W156		N				N		X			
C5.13	Circumferential Weld	ISIM-954	ICS-W157		N				N		X			



**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **C-F-1** Description **PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-957-1SH1	RHR-W46	1	Y		X		N		X			
C5.13	Circumferential Weld	ISIM-957-1SH2	RHR-W45	1	Y	X			N		X			
C5.13	Circumferential Weld	ISIM-957-1SH2	RHR-W47		N				N		X			
C5.13	Circumferential Weld	ISIM-957-1SH2	RHR-W48	3	Y			X	N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W49	3	N				N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W50	3	N				N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W51		N				N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W53		N				N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W54		N				N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W55		N				N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W56	1	Y	X			N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W57	1	Y	X			N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W58	1	Y	X			N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W59		N				N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W60		N				N		X			
C5.13	Circumferential Weld	ISIM-957-2	RHR-W61		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-957-2	RHR-W63B		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W82		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W83	2	Y		X		N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W84	3	Y			X	N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W85	3	Y			X	N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W90		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W91		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W92		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W93		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W94		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W96		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W97		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W98		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W99	1	N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W100	1	N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W101		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W102		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W134		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W135		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W136		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W137	1	N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W138	1	N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W139		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W140		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH1	RHR-W141		N				N		X			
C5.13	Circumferential Weld	ISIM-958-1SH2	RHR-W80	3	Y			X	N		X			
C5.13	Circumferential Weld	ISIM-958-1SH2	RHR-W81		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W63		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W63A		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W64	2	N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W65	2	N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W66		N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-958-2	RHR-W66A		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W67		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W68		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W69		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W71		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W72		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W73		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W74		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W75		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W76		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W77		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W78		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W79		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W103		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W104		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W105		N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-958-2	RHR-W106		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W107		N				N		X			
C5.13	Circumferential Weld	ISIM-958-2	RHR-W108		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W109		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W110		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W118		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W119		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W120		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W121		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W123		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W124		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W126		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W127		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W128		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W129		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W130		N				N		X			

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**KEWAUNEE NUCLEAR POWER PLANT**

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Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W131		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W132		N				N		X			
C5.13	Circumferential Weld	ISIM-959-1SH1	RHR-W133		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W115	1	N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W116	2	N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W117		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W191		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W192		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W193		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W194		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W195		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W196		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W197	3	Y			X	N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W198		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W199		N				N		X			
C5.13	Circumferential Weld	ISIM-959-2	RHR-W200		N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-960-1	RHR-W142		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W143		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W143-1	2	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W143-2	2	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W144		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W145		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W146		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W147		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W148		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W149		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W150		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W151	2	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W152	2	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W153		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W154		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W155		N				N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-960-1	RHR-W156	2	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W201		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W202	3	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W202-1	2	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W202-2	2	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W203	3	Y			X	N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W204		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W205		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W206		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W207		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W208		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W209		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W210		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W211		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W212		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W213		N				N		X			



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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-960-1	RHR-W230		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W231		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W232		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W233		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W234		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W235		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W236		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W237	3	N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W239		N				N		X			
C5.13	Circumferential Weld	ISIM-960-1	RHR-W240		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W225		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W226		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W227		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W228		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W229		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W241	2	N				N		X			

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** C-F-I      **Description** PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-961-1	RHR-W242		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W243		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W244	2	N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W245		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W246		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W247		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W248		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W249	3	N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W250		N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W251	1	N				N		X			
C5.13	Circumferential Weld	ISIM-961-1	RHR-W252	1	N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W214		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W215	1	N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W216		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W217		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W218		N				N		X			

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Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-961-2	RHR-W219		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W220		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W221		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W222		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W223		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W224		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W284		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W285		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W286		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W287		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W288		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W289		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W290		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W291		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W292		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W293		N				N		X			

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Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-961-2	RHR-W294		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W295		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W296		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	RHR-W297	2	N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W128		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W129		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W130		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W131		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W132		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W133		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W134	3	N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W135		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W136		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W137		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W138		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W139		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-961-2	SI-W140		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W141		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W142		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W143	3	N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W144		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W145	3	N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W146		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W147		N				N		X			
C5.13	Circumferential Weld	ISIM-961-2	SI-W148		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W162		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W163		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W164		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W165		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W166		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W167		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W168		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W169		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W170		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W171		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W172		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W173	3	N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W174	3	N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W175		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W176		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W253		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W254	3	Y			X	N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W255		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W256		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W257	1	N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W258		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W259		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W260		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W261		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W157	1	N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W158		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W159		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W160		N				N		X			
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W161		N				N		X			
C5.14	Circumferential Weld	ISIM-933	SI-W394		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W395		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W396		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W397		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W398		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W400		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W401		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W402		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W403		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W407		N				N					Note 1

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **C-F-1** Description **PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.14	Circumferential Weld	ISIM-933	SI-W408		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W409		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W410		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W411		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W412		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W413		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W414		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W415		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W416		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W417		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W418		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W419		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W420		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W421		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W422		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W423		N				N					Note 1



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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.14	Circumferential Weld	ISIM-933	SI-W424		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W425		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W426		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W427		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W428		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W429		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W430		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W431		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W432		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W433		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W435		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W436		N				N					Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W437		N				N					Note 1
C5.14	Circumferential Weld	ISIM-958-1SH2	RHR-W417		N				N					Note 1
C5.14	Circumferential Weld	ISIM-959-1SH1	RHR-W329		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W466		N				N					Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.14	Circumferential Weld	ISIM-992-1	SI-W467		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W468		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W469		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W470		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W471		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W472		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W473		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W474		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W475		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W476		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W477		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W478		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W479		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W480		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W481		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W482		N				N					Note 1

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.14	Circumferential Weld	ISIM-992-1	SI-W483		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W484		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W485		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W486		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W487		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W488		N				N					Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W489		N				N					Note 1
	<b>Piping Welds</b>													
	<b>&gt; 1/5 In. Nominal</b>													
	<b>Wall Thickness for</b>													
	<b>Piping ≥ NPS 2 and</b>													
	<b>≤ NPS 4</b>													
C5.21	Circumferential Weld	ISIM-934-1	SI-W200		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W201		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W202		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W203		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W204		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W205		N				N	X	X			

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.21	Circumferential Weld	ISIM-934-1	SI-W206		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W207		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W208		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W209		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W210		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W211		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W212		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W213		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W214		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W215		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W216		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W217		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W218		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W219		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W221		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-1	SI-W222		N				N	X	X			



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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.21	Circumferential Weld	ISIM-934-1	SI-W239		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W220		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W240		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W241		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W242		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W243		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W244		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W245		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W246		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W247		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W248		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W249		Y		X		N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W250		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W251		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W252		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W253		N				N	X	X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.21	Circumferential Weld	ISIM-934-2	SI-W254		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W235		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W256		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W257		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W258		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W259		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W260		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W261		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W262		Y	X			N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W263		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W264		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W265		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W266		Y			X	N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W267		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W268		N				N	X	X			
C5.21	Circumferential Weld	ISIM-934-2	SI-W269		N				N	X	X			

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Examination Category C-F-1

Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.21	Circumferential Weld	ISIM-934-2	SI-W270		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W271		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W272		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W273		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W274		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W275		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W276		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W277		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W278		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W279		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W280		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W281		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W282		Y		X		N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W283		Y	X			N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W284		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W285		N				N	X	X			



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Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.21	Circumferential Weld	ISIM-936	SI-W286		N				N	X	X			
C5.21	Circumferential Weld	ISIM-936	SI-W287		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W342		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W343		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W344		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W345		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W346		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W347		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W348		Y			X	N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W349		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-1	SI-W350S		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-2SH1	SI-W309S		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W305		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W306		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W307		Y			X	N	X	X			
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W308		N				N	X	X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **C-F-1** Description **PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W338		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W339		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W340		N				N	X	X			
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W341		N				N	X	X			
C5.30	Socket Welds	ISIM-933	SI-W405S		N				N		X			
C5.30	Socket Welds	ISIM-933	SI-W406S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W288S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W289S		Y		X		N		X			
C5.30	Socket Welds	ISIM-936	SI-W290S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W291S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W292S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W293S		Y	X			N		X			
C5.30	Socket Welds	ISIM-936	SI-W294S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W295S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W296S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W297S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-936	SI-W298S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W299S		Y			X	N		X			
C5.30	Socket Welds	ISIM-936	SI-W300S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W301S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W302S		N				N		X			
C5.30	Socket Welds	ISIM-936	SI-W303S		N				N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W351S		N				N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W352S		N				N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W353S		N				N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W354S		Y		X		N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W355S		N				N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W356S		N				N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W357S		N				N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W358S		N				N		X			
C5.30	Socket Welds	ISIM-937-1	SI-W359S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W310S		Y	X			N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-I Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-937-2SH1	SI-W311S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W312S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W313S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W314S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W315S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W316S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W317S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W318S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W319S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W320S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W321S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W322S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W323S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W324S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W325S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W326S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-P-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-937-2SH1	SI-W327S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W328S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W329S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W331S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W332S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W333S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W334S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W335S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W336S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH1	SI-W337S		N				N		X			
C5.30	Socket Welds	ISIM-937-2SH2	SI-W330S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W439S		Y	X			N		X			
C5.30	Socket Welds	ISIM-982	SI-W440S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W441S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W442S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W443S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-I Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-982	SI-W444S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W445S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W446S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W447S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W448S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W449S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W450S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W451S		Y		X		N		X			
C5.30	Socket Welds	ISIM-982	SI-W452S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W453S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W454S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W455S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W456S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W457S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W458S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W459S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **C-F-1**

Description **PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-982	SI-W460S		Y			X	N		X			
C5.30	Socket Welds	ISIM-982	SI-W461S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W462S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W463S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W464S		N				N		X			
C5.30	Socket Welds	ISIM-982	SI-W465S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W492S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W493S		Y	X			N		X			
C5.30	Socket Welds	ISIM-993	SI-W494S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W495S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W496S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W497S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W498S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W499S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W500S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W501S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-993	SI-W502S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W503S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W504S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W505S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W506S		Y			X	N		X			
C5.30	Socket Welds	ISIM-993	SI-W507S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W508S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W509S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W510S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W511S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W512S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W513S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W514S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W515S		Y			X	N		X			
C5.30	Socket Welds	ISIM-993	SI-W516S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W517S		N				N		X			



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-993	SI-W518S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W519S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W520S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W521S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W522S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W523S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W524S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W525S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W526S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W527S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W528S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W529S		Y		X		N		X			
C5.30	Socket Welds	ISIM-993	SI-W530S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W531S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W532S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W533S		N				N		X			

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-993	SI-W534S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W535S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W536S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W537S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W538S		N				N		X			
C5.30	Socket Welds	ISIM-993	SI-W539S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W360S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W361S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W362S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W363S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W364S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W365S		Y	X			N		X			
C5.30	Socket Welds	ISIM-1608	SI-W366S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W367S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W369S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W370S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.30	Socket Welds	ISIM-1608	SI-W371S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W372S		Y		X		N		X			
C5.30	Socket Welds	ISIM-1608	SI-W373S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W374S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W375S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W376S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W377S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W378S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W379S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W380S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W381S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W382S		N				N		X			
C5.30	Socket Welds	ISIM-1608	SI-W383S		Y			X	N		X			
C5.30	Socket Welds	ISIM-1608	SI-W384S		N				N		X			

WISCONSIN PUBLIC SERVICE CORPORATION

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-1

Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Piping Branch Connections of Branch Piping ≥ NPS 2													
C5.41	Circumferential Weld	ISIM-933	SI-W399BC		N				N		X			
C5.41	Circumferential Weld	ISIM-933	SI-W404BC		N				N		X			
C5.41	Circumferential Weld	ISIM-933	SI-W434BC		N				N		X			
C5.41	Circumferential Weld	ISIM-934-1	SI-W540BC		N				N		X			
C5.41	Circumferential Weld	ISIM-934-2	SI-W491BC		N				N		X			
C5.41	Circumferential Weld	ISIM-950-1	ICS-W46BC		N				N		X			
C5.41	Circumferential Weld	ISIM-950-2	ICS-W51BC		N				N		X			
C5.41	Circumferential Weld	ISIM-951	ICS-W7BC		Y			X	N		X			
C5.41	Circumferential Weld	ISIM-953	ICS-W106BC		N				N		X			
C5.41	Circumferential Weld	ISIM-958-1SH1	RHR-W95BC		Y		X		N		X			
C5.41	Circumferential Weld	ISIM-958-1SH2	RHR-W86BC		N				N		X			
C5.41	Circumferential Weld	ISIM-958-2	RHR-W70BC		N				N		X			
C5.41	Circumferential Weld	ISIM-959-1SH1	RHR-W122BC	1,2	N				N		X			
C5.41	Circumferential Weld	ISIM-959-1SH1	RHR-W125BC	1,2	N				N		X			

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category C-F-1 Description PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.41	Circumferential Weld	ISIM-960-1	RHR-W238BC		N				N		X			
C5.41	Circumferential Weld	ISIM-992-1	SI-W368BC		Y	X			N		X			
C5.41	Circumferential Weld	ISIM-992-1	SI-W385BC		N				N		X			

**Category Notes:**

- C5.14 represents an item number created by WPSC for SI piping welds < 3/8 in. nominal wall thickness for piping > NPS 4. C5.14 welds are included in the total weld count to which the 7 1/2% sampling rate was applied. No C5.14 welds were scheduled for examination since they are not required to be examined in accordance with Table IWC-2500-1.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-2 Description PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Piping Welds ≥ 3/8 In. Nominal Wall Thickness for Piping > NPS 4													
C5.51	Circumferential Weld	ISIM-866	FW-W54		N				N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W1		N				N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W2	1	Y	X			N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W3	1	Y	X			N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W4		N				N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W5		N				N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W6		N				N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W7	2	Y		X		N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W8	2	Y		X		N	X	X			
C5.51	Circumferential Weld	ISIM-871	MS-W100		N				N	X	X			
C5.51	Circumferential Weld	ISIM-872	MS-W49		Y		X		N	X	X			
C5.51	Circumferential Weld	ISIM-872	MS-W50	3	Y			X	N	X	X			
C5.51	Circumferential Weld	ISIM-872	MS-W51		N				N	X	X			
C5.51	Circumferential Weld	ISIM-872	MS-W52		N				N	X	X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-2 Description PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.51	Circumferential Weld	ISIM-872	MS-W53		N				N	X	X			
C5.51	Circumferential Weld	ISIM-872	MS-W54		N				N	X	X			
C5.51	Circumferential Weld	ISIM-872	MS-W54A		N				N	X	X			
C5.51	Circumferential Weld	ISIM-872	MS-W55		N				N	X	X			
C5.51	Circumferential Weld	ISIM-872	MS-W56		N				N	X	X			
C5.51	Circumferential Weld	ISIM-96S	MS-W79		N				N	X	X			
C5.51	Circumferential Weld	ISIM-968	MS-W80	3	Y			X	N	X	X			
C5.51	Circumferential Weld	ISIM-96S	MS-W81	3	Y			X	N	X	X			
C5.51	Circumferential Weld	ISIM-96S	MS-W82		N				N	X	X			
C5.51	Circumferential Weld	ISIM-969	MS-W83		N				N	X	X			
C5.51	Circumferential Weld	ISIM-969	MS-W20		N				N	X	X			
C5.51	Circumferential Weld	ISIM-969	MS-W21	3	N				N	X	X			
C5.51	Circumferential Weld	ISIM-969	MS-W22		N				N	X	X			
C5.51	Circumferential Weld	ISIM-969	MS-W23		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W12		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W13		N				N	X	X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-2 Description PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.51	Circumferential Weld	ISIM-970	FW-W14		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W15	2	Y		X		N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W16		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W17		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W18		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W19		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W20		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W21		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W22		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W23		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W24	3	Y			X	N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W25		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W26		N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W28	1,2,3	N				N	X	X			
C5.51	Circumferential Weld	ISIM-970	FW-W29	1,2,3	Y	X			N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W42		N				N	X	X			



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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-2 Description PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.51	Circumferential Weld	ISIM-971	FW-W43		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W44		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W45		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W46		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W47		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W48		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W49		Y		X		N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W50		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W51		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W52		Y			X	N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W53		Y	X			N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W56	1,2,3	N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W57	1,2,3	Y			X	N	X	X			
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W32		N				N	X	X			
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W33		N				N	X	X			
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W34		N				N	X	X			

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-2 Description PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W35		N				N	X	X			
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W36		N				N	X	X			
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W39P		N				N	X	X			
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W40		N				N	X	X			
C5.51	Circumferential Weld	ISIM-971	FW-W41		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W9		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W10		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W10A		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W11		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W12		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W13		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W14		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W15		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W16		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W18		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W24		N				N	X	X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-2 Description PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W26		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W28		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W30		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W32		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W47P		N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH2	MS-W96	2	N				N	X	X			
C5.51	Circumferential Weld	ISIM-984-2SH2	MS-W97	2	Y			X	N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W57		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W58		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W59		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W59A		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W60		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W62		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W63		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W64	2	Y		X		N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W65		N				N	X	X			

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **C-F-2**

Description **PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W67		Y	X			N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W69		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W71		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W73		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W75		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W77		N				N	X	X			
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W94P		N				N	X	X			
C5.51	Circumferential Weld	ISIM-991SH1	FW-W6		N				N	X	X			
C5.51	Circumferential Weld	ISIM-991SH1	FW-W7P		N				N	X	X			
C5.51	Circumferential Weld	ISIM-991SH1	FW-W8P		N				N	X	X			
C5.51	Circumferential Weld	ISIM-991SH1	FW-W10		N				N	X	X			
C5.51	Circumferential Weld	ISIM-991SH1	FW-W11		N				N	X	X			
	<b>Piping Welds ≥ 3/8 In. Nominal Wall Thickness for Piping &gt; NPS 4</b>													
C5.52	Longitudinal Weld	ISIM-871	MS-W43L	1	N				N	X	X			
C5.52	Longitudinal Weld	ISIM-871	MS-W44L	1	N				N	X	X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-2 Description PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.52	Longitudinal Weld	ISIM-871	MS-W45L	1	N				N	X	X			
C5.52	Longitudinal Weld	ISIM-871	MS-W46L	1	Y	X			N	X	X			
C5.52	Longitudinal Weld	ISIM-871	MS-W101L	1	Y	X			N	X	X			
C5.52	Longitudinal Weld	ISIM-871	MS-W102L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-871	MS-W103L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-871	MS-W104L	3	N				N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W105L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W90L	3	Y			X	N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W91L	3	Y			X	N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W92L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W93L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W106L	3	Y			X	N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W107L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W108L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W109L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-872	MS-W110L		N				N	X	X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category **C-F-2** Description **PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W33L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W34L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W35L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W36L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W37L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W38L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W39L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W40L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W41L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W42L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W111L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W112L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W117L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W82L	2	Y		X		N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W83L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W84L		N				N	X	X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category **C-F-2** Description **PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W85L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W86L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W87L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W88L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W89L	2	Y		X		N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH1	MS-W113L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH1	MS-W114L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH1	MS-W115L		N				N	X	X			
C5.52	Longitudinal Weld	ISIM-985-1SH1	MS-W116L		N				N	X	X			
	<b>Pipe Branch Connections of Branch Piping ≥ NPS 2</b>													
C5.81	Circumferential Weld	ISIM-970	FW-W27BC		N				N		X			
C5.81	Circumferential Weld	ISIM-971	FW-W55BC	1	Y	X			N		X			
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W19BC	2	Y		X		N		X			
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W23BC		N				N		X			
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W25BC	3	Y			X	N		X			

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-F-2 Description PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W27BC		N				N		X			
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W29BC		N				N		X			
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W31BC		N				N		X			
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W68BC		N				N		X			
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W70BC	2	N				N		X			
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W72BC		N				N		X			
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W74BC		N				N		X			
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W76BC		N				N		X			
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W78BC		N				N		X			

Category Notes:

1. None.



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THIRD INTERVAL ISI SCHEDULE

Examination Category C-H Description ALL PRESSURE RETAINING COMPONENTS (SYSTEM OPERATIONAL PRESSURE TESTS)

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Pressure Vessels													
C7.10	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 38, 44, ISIM-203, 205, 214, 217, 218, 219, 350			Y	X	X		N			X		
	Piping													
C7.30	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 38, 44, ISIM-203, 205, 214, 217, 218, 219, 350			Y	X	X		N			X		
	Pumps													
C7.50	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 38, 44, ISIM-203, 205, 214, 217, 218, 219, 350			Y	X	X		N			X		

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category C-H Description ALL PRESSURE RETAINING COMPONENTS (SYSTEM OPERATIONAL PRESSURE TESTS)

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Valves													
C7.70	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 38, 44, ISIM-203, 205, 214, 217, 218, 219, 350			Y	X	X			N			X	

Category Notes:

1. The pressure retaining boundary includes only those portions of the system required to operate or support the safety system function up to and including the first normally closed valve (including a safety or relief valve) or valve capable of automatic closure when the safety function is required.
2. No components within the pressure retaining boundary are exempt or excluded from the examination requirements, except as specified in IWA-5214(c) for repairs and replacements.
3. Where portions of a system are subject to system pressure tests associated with two different system functions, the VT-2 examination need only be performed during the test conducted at the higher test pressures of the respective system function.
4. A system hydrostatic test (IWC-5222) and the accompanying VT-2 examination will be performed in lieu of the system operational pressure test (IWC-5221) during the last inspection period of the interval.

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Examination Category C-H Description ALL PRESSURE RETAINING COMPONENTS (HYDROSTATIC PRESSURE TESTS)

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Pressure Vessels													
C7.20	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 38, 44, ISIM-203, 205, 214, 217, 218, 219, 350			Y			X	Y			X	N-498	
	Piping													
C7.40	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 38, 44, ISIM-203, 205, 214, 217, 218, 219, 350			Y			X	Y			X	N-498	
	Pumps													
C7.60	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 38, 44, ISIM-203, 205, 214, 217, 218, 219, 350			Y			X	Y			X	N-498	

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THIRD INTERVAL ISI SCHEDULE

Examination Category C-H Description ALL PRESSURE RETAINING COMPONENTS (HYDROSTATIC PRESSURE TESTS)

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
	Valves													
C7.80	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 38, 44, ISIM-203, 205, 214, 217, 218, 219, 350			Y				X	Y			X	N-498

**Category Notes:**

1. The pressure retaining boundary includes only those portions of the system required to operate or support the safety system function up to and including the first normally closed valve (including a safety or relief valve) or valve capable of automatic closure when the safety function is required.
2. No components within the pressure retaining boundary are exempt or excluded from the examination requirements, except as specified in IWA-5214(c) for repairs and replacements.

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THIRD INTERVAL ISI SCHEDULE

Examination Category **D-A** Description **SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Via		
D1.10	Pressure Retaining Components	ISI-XK-100-19, 20, 36, 38, ISIM-202-1, 202-2, 203, 205, 547, 606	Operational Pressure Test		Y	X	X		N				X	Note 1, 2 and 3
D1.10	Pressure Retaining Components	ISI-XK-100-19, 20, 36, 38, ISIM-202-1, 202-2, 203, 205, 547, 606	Hydrostatic Pressure Test		Y			X	Y				X	Note 1, 2 and 3
D1.20	Integral Attachment	M-1221	AHEL-1A-S1		Y			X	N				X	EXCESS LETDOWN HX 1A
D1.20	Integral Attachment	M-1221	AHEL-1A-S2		Y			X	N				X	EXCESS LETDOWN HX 1A
D1.20	Integral Attachment	M-1221	AHEL-1B-S1		Y			X	N				X	EXCESS LETDOWN HX 1B
D1.20	Integral Attachment	M-1221	AHEL-1B-S2		Y			X	N				X	EXCESS LETDOWN HX 1B
D1.20	Integral Attachment	M-1231	APFT-S1	2,3	Y		X		N				X	TURBINE DRIVEN AFW PUMP
D1.20	Integral Attachment	M-1231	APFT-S2	2,3	Y		X		N				X	TURBINE DRIVEN AFW PUMP
D1.20	Integral Attachment	M-1231	APFT-S3	2,3	Y		X		N				X	TURBINE DRIVEN AFW PUMP
D1.20	Integral Attachment	M-1231	APFT-S4	2,3	Y		X		N				X	TURBINE DRIVEN AFW PUMP
D1.20	Integral Attachment	M-1232	APFM-1A-S1	3	Y			X	N				X	AUXILIARY FEEDWATER PUMP 1A
D1.20	Integral Attachment	M-1232	APFM-1A-S2	3	Y			X	N				X	AUXILIARY FEEDWATER PUMP 1A

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THIRD INTERVAL ISI SCHEDULE

Examination Category D-A Description SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
D1.20	Integral Attachment	M-1232	APFM-1A-S3	3	Y			X	N			X		AUXILIARY FEEDWATER PUMP 1A
D1.20	Integral Attachment	M-1232	APFM-1A-S4	3	Y			X	N			X		AUXILIARY FEEDWATER PUMP 1A
D1.20	Integral Attachment	M-1232	APFM-1B-S1	3	Y	X			N			X		AUXILIARY FEEDWATER PUMP 1B
D1.20	Integral Attachment	M-1232	APFM-1B-S2	3	Y	X			N			X		AUXILIARY FEEDWATER PUMP 1B
D1.20	Integral Attachment	M-1232	APFM-1B-S3	3	Y	X			N			X		AUXILIARY FEEDWATER PUMP 1B
D1.20	Integral Attachment	M-1232	APFM-1B-S4	3	Y	X			N			X		AUXILIARY FEEDWATER PUMP 1B

Category Notes:

1. The system boundary extends up to and including the first normally closed valve or valve capable of automatic closure as required to perform the safety-related system function.
2. There are no exemptions or exclusions from the system boundary requirements except as specified in IWA-5214(c).
3. A system hydrostatic test (IWD-5223) and the accompanying VT-2 examination will be performed in lieu of the system operational pressure test (IWD-5221) during the last inspection period of the interval.

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**Examination Category D-B Description SYSTEMS IN SUPPORT OF EMERG CORE COOLING, CNTMT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RHR**

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
D2.10	Pressure Retaining Components	ISI-XK-100-19, 20, 36, ISIM-202-1, 202-2, 203, 205, 547, 606	Operational Pressure Test		Y	X	X		N			X		Note 1, 2 and 3
D2.10	Pressure Retaining Components	ISI-XK-100-19, 20, 36, ISIM-202-1, 202-2, 203, 205, 547, 606	Hydrostatic Pressure Test		Y			X	Y			X		Note 1, 2 and 3
D2.20	Integral Attachment	ISIM-868	RSW-H3		Y		X		N			X		Note 4
D2.20	Integral Attachment	ISIM-869	RSW-H3		Y		X		N			X		Note 4
D2.20	Integral Attachment	ISIM-875	AC-H3	3	Y	X			N			X		
D2.20	Integral Attachment	ISIM-875	AC-H5	3	Y	X			N			X		
D2.20	Integral Attachment	ISIM-881-1	AC-H16		Y			X	N			X		Note 5
D2.20	Integral Attachment	ISIM-885-1	RSW-H15	2	Y		X		N			X		
D2.20	Integral Attachment	ISIM-885-1	RSW-H16	2	Y		X		N			X		
D2.20	Integral Attachment	ISIM-885-1	RSW-H113		Y		X		N			X		
D2.20	Integral Attachment	ISIM-889-1	RSW-H3		Y		X		N			X		Note 4
D2.20	Integral Attachment	ISIM-889-1	RSW-H9		Y		X		N			X		Note 5

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THIRD INTERVAL ISI SCHEDULE

Examination Category D-B Description SYSTEMS IN SUPPORT OF EMERG CORE COOLING, CNTMT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RHR

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
D2.20	Integral Attachment	ISIM-889-2	RSW-H3		Y		X		N			X		Note 4
D2.20	Integral Attachment	ISIM-891-2	FDW-H55		Y			X	N			X		
D2.20	Integral Attachment	ISIM-891-2	FDW-H58		Y			X	N			X		
D2.20	Integral Attachment	ISIM-893	SW-H8	3	Y			X	N			X		Note 5
D2.20	Integral Attachment	ISIM-893	SW-H9		Y		X		N			X		Note 5
D2.20	Integral Attachment	ISIM-900	SW-H10		Y		X		N			X	RR-3-1	Note 5
D2.20	Integral Attachment	ISIM-901	SW-H149		Y			X	N			X		
D2.20	Integral Attachment	ISIM-901	SW-H150		Y			X	N			X		
D2.20	Integral Attachment	ISIM-901	SW-H261	3	Y			X	N			X		
D2.20	Integral Attachment	ISIM-913	AC-H2	2,3	Y	X			N			X		
D2.20	Integral Attachment	ISIM-913	AC-H4	2,3	Y	X			N			X		
D2.20	Integral Attachment	ISIM-913	AC-H9		Y			X	N			X		
D2.20	Integral Attachment	ISIM-913	AC-H67		Y	X			N			X		
D2.20	Integral Attachment	ISIM-914	AC-H10	3	Y	X			N			X		
D2.20	Integral Attachment	ISIM-914	AC-H20	2	Y		X		N			X		Note 5
D2.20	Integral Attachment	ISIM-915	AC-H25	2,3	Y		X		N			X		



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Examination Category D-B Description SYSTEMS IN SUPPORT OF EMERG CORE COOLING, CNTMT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RHR

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
D2.20	Integral Attachment	ISIM-915	AC-H25A		Y	X			N			X		
D2.20	Integral Attachment	ISIM-922	SW-H134		Y			X	N			X		Note 5
D2.20	Integral Attachment	ISIM-922	SW-H177		Y		X		N			X		
D2.20	Integral Attachment	ISIM-922	SW-H178		Y		X		N			X		
D2.20	Integral Attachment	ISIM-922	SW-H181		Y			X	N			X	RR-3-1	
D2.20	Integral Attachment	ISIM-922	SW-H182		Y		X		N			X	RR-3-1	
D2.20	Integral Attachment	ISIM-922	SW-H418		Y		X		N			X		
D2.20	Integral Attachment	ISIM-924-1	SW-H87		Y		X		N			X	RR-3-1	Note 5
D2.20	Integral Attachment	ISIM-924-1	SW-H248	3	Y			X	N			X		
D2.20	Integral Attachment	ISIM-924-2	SW-H143		Y			X	N			X		Note 5
D2.20	Integral Attachment	ISIM-924-2	SW-H526		Y	X			N			X		
D2.20	Integral Attachment	ISIM-926	SW-H167	3	Y			X	N			X		
D2.20	Integral Attachment	ISIM-926	SW-H168	3	Y			X	N			X		
D2.20	Integral Attachment	ISIM-999	AC-H43		Y	X			N			X		
D2.20	Integral Attachment	ISIM-999	AC-H50		Y	X			N			X		
D2.20	Integral Attachment	M-1218	ATCS-S1	2	Y		X		N			X		COMPONENT COOLING SURGE TANK

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Examination Category D-B Description SYSTEMS IN SUPPORT OF EMERG CORE COOLING, CNTMT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RHR

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
D2.20	Integral Attachment	M-1218	ATCS-S2	2	Y		X		N			X		COMPONENT COOLING SURGE TANK
D2.20	Integral Attachment	M-1222	AHCC1-1A-S1	2	Y	X			N			X		COMPONENT COOLING HX 1A
D2.20	Integral Attachment	M-1222	AHCC1-1A-S2	2	Y	X			N			X		COMPONENT COOLING HX 1A
D2.20	Integral Attachment	M-1222	AHCC2-1B-S1		Y			X	N			X		COMPONENT COOLING HX 1B
D2.20	Integral Attachment	M-1222	AHCC2-1B-S2		Y			X	N			X		COMPONENT COOLING HX 1B
D2.20	Integral Attachment	M-1224	AHRS1-1A-WS5	2	Y	X			N			X		RHR HEAT EXCHANGER 1A
D2.20	Integral Attachment	M-1224	AHRS1-1A-WS6	2	Y	X			N			X		RHR HEAT EXCHANGER 1A
D2.20	Integral Attachment	M-1224	AHRS1-1A-WS7	2	Y	X			N			X		RHR HEAT EXCHANGER 1A
D2.20	Integral Attachment	M-1224	AHRS1-1A-WS8	2	Y	X			N			X		RHR HEAT EXCHANGER 1A
D2.20	Integral Attachment	M-1224	AHRS2-1B-WS9	3	Y			X	N			X		RHR HEAT EXCHANGER 1B
D2.20	Integral Attachment	M-1224	AHRS2-1B-WS10	3	Y			X	N			X		RHR HEAT EXCHANGER 1B
D2.20	Integral Attachment	M-1224	AHRS2-1B-WS11	3	Y			X	N			X		RHR HEAT EXCHANGER 1B
D2.20	Integral Attachment	M-1224	AHRS2-1B-WS12	3	Y			X	N			X		RHR HEAT EXCHANGER 1B
D2.20	Integral Attachment	M-1226	AHLD-WS3	2,3	Y		X		N			X		LETDOWN HEAT EXCHANGER
D2.20	Integral Attachment	M-1226	AHLD-WS4	2,3	Y		X		N			X		LETDOWN HEAT EXCHANGER
D2.20	Integral Attachment	M-1226	AHLD-WS5	2,3	Y		X		N			X		LETDOWN HEAT EXCHANGER

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**Examination Category** D-B      **Description** SYSTEMS IN SUPPORT OF EMERG CORE COOLING, CNTMT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RHR

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
D2.20	Integral Attachment	M-1226	AHLD-WS6	2,3	Y		X		N			X		LETDOWN HEAT EXCHANGER
D2.20	Integral Attachment	M-1229	AHRHRP-1A-S1		Y			X	N			X		RHR PUMP 1A SHAFT SEAL HX
D2.20	Integral Attachment	M-1229	AHRHRP-1B-S2		Y		X		N			X		RHR PUMP 1B SHAFT SEAL HX
D2.20	Integral Attachment	M-1233	APCS-1A-S1	2	Y			X	N			X		INTERNAL CNTMT SPRAY PUMP 1A
D2.20	Integral Attachment	M-1233	APCS-1B-S1		Y			X	N			X		INTERNAL CNTMT SPRAY PUMP 1B
D2.20	Integral Attachment	M-1234	APCC-1A-S1	3	Y	X			N			X		COMPONENT COOLING PUMP 1A
D2.20	Integral Attachment	M-1234	APCC-1B-S1		Y	X			N			X		COMPONENT COOLING PUMP 1B
D2.30	Integral Attachment	ISIM-924-1	SW-H401		Y			X	N			X		
D2.40	Integral Attachment	ISIM-867	RSW-H13		Y			X	N			X		
D2.40	Integral Attachment	ISIM-870	RSW-H18	2,3	Y			X	N			X		
D2.40	Integral Attachment	ISIM-881-1	AC-H17	2,3	Y		X		N			X		
D2.40	Integral Attachment	ISIM-881-1	AC-H22	3	Y	X			N			X		
D2.40	Integral Attachment	ISIM-886	RSW-H77		Y		X		N			X		
D2.40	Integral Attachment	ISIM-888-1	RSW-H39		Y			X	N			X		Note 5
D2.40	Integral Attachment	ISIM-888-2	RSW-H36		Y			X	N			X		Note 5
D2.40	Integral Attachment	ISIM-889-1	RSW-H8		Y		X		N			X		

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Examination Category D-B Description SYSTEMS IN SUPPORT OF EMERG CORE COOLING, CNMT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RHR

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
D2.40	Integral Attachment	ISIM-889-1	RSW-H59		Y			X	N			X		
D2.40	Integral Attachment	ISIM-889-1	RSW-H60		Y			X	N			X		
D2.40	Integral Attachment	ISIM-889-1	RSW-H62		Y			X	N			X		
D2.40	Integral Attachment	ISIM-889-1	RSW-H63		Y			X	N			X		Note 5
D2.40	Integral Attachment	ISIM-889-2	RSW-H6		Y		X		N			X		
D2.40	Integral Attachment	ISIM-889-2	RSW-H32		Y		X		N			X		
D2.40	Integral Attachment	ISIM-901	SW-H153A	3	Y			X	N			X		
D2.40	Integral Attachment	ISIM-914	AC-H18		Y		X		N			X		
D2.40	Integral Attachment	ISIM-914	AC-H64	2,3	Y		X		N			X		
D2.40	Integral Attachment	ISIM-915	AC-H23		Y		X		N			X		

Category Notes:

1. The system boundary extends up to and including the first normally closed valve or valve capable of automatic closure as required to perform the safety-related system function.
2. There are no exemptions or exclusions from the system boundary requirements except as specified in IWA-5214(c).
3. A system hydrostatic test (TWD-5223) and the accompanying VT-2 examination will be performed in lieu of the system operational pressure test (TWD-5221) during the last inspection period of the interval.
4. This support/hanger appears on more than one drawing and has integrally welded attachments on more than one line that is being supported by the support/hanger. Refer to Appendix D for additional drawings.
5. This support/hanger appears on more than one drawing and has integrally welded attachments identified on more than one drawing but the integrally welded attachment is attached to only one component. Refer to Appendix D for additional drawings.

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THIRD INTERVAL ISI SCHEDULE

Examination Category D-C Description SYSTEMS IN SUPPORT OF RESIDUAL HEAT REMOVAL FROM SPENT FUEL STORAGE POOL

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
D3.10	Pressure Retaining Components	ISIM-202-1, 202-2, 218	Operational Pressure Test		Y	X	X		N			X		Note 1, 2 and 3
D3.10	Pressure Retaining Components	ISIM-202-1, 202-2, 218	Hydrostatic Pressure Test		Y			X	Y			X		Note 1, 2 and 3

**Category Notes:**

1. The system boundary extends up to and including the first normally closed valve or valve capable of automatic closure as required to perform the safety-related system function.
2. There are no exemptions or exclusions from the system boundary requirements except as specified in IWA-5214(c).
3. A system hydrostatic test (TWD-5223) and the accompanying VT-2 examination will be performed in lieu of the system operational pressure test (TWD-5221) during the last inspection period of the interval.

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THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vis	Sur	Vol		
F1.10A	36-3	ISIM-874-2	RC-H28	3	N				N			X	N-491	
F1.10A	36-3	ISIM-874-2	RC-H29	2	N				N			X	N-491	
F1.10A	36-3	ISIM-874-2	RC-H31	3	Y			X	N			X	N-491	
F1.10A	36-3	ISIM-874-3	RCVC-H46	2	N				N			X	N-491	
F1.10A	36-3	ISIM-874-3	RCVC-H48	2	N				N			X	N-491	
F1.10A	36-3	ISIM-874-3	RCVC-H50	3	N				N			X	N-491	
F1.10A	33	ISIM-938-1	RRHR-H17	1	N				N			X	N-491	Note 1
F1.10A	33	ISIM-939SH1	RSI-H41	2	Y		X		N			X	N-491	
F1.10A	33	ISIM-939SH1	RSI-H103		N				N			X	N-491	
F1.10A	33	ISIM-939SH1	RSI-H104	2	N				N			X	N-491	
F1.10A	34	ISIM-957-1SH1	RRHR-H2	2	N				N			X	N-491	Note 1
F1.10A	34	ISIM-957-1SH1	RRHR-H4	2	Y			X	N			X	N-491	Note 1
F1.10A	34	ISIM-957-1SH1	RRHR-H8	2	N				N			X	N-491	
F1.10A	36-4	ISIM-1460	RTD-H4	1	Y	X			N			X	N-491	
F1.10A	36-4	ISIM-1461	RTD-H9	1	N				N			X	N-491	
F1.10A	35-2	ISIM-1471	RCVC-H198	3	N				N			X	N-491	

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.10A	35-2	ISIM-1471	RCVC-H200	2	N				N			X	N-491	
F1.10A	35-2	ISIM-1471	RCVC-H201	2	N				N			X	N-491	
F1.10A	35-2	ISIM-1471	RCVC-H202	2	N				N			X	N-491	
F1.10A	35-2	ISIM-1471	RCVC-H209	1	Y	X			N			X	N-491	
F1.10A	35-2	ISIM-1471	RCVC-H330	1	N				N			X	N-491	
F1.10A	35-2	ISIM-1476	RCVC-H237	2	Y		X		N			X	N-491	
F1.10A	35-2	ISIM-1476	RCVC-H239	2	N				N			X	N-491	
F1.10B	36-3	ISIM-874-1	RC-H14	1	N				N			X	N-491	
F1.10B	36-3	ISIM-874-1	RC-H16	1	N				N			X	N-491	
F1.10B	36-3	ISIM-874-1	RC-H19	3	N				N			X	N-491	
F1.10B	36-3	ISIM-874-1	RC-H21	3	N				N			X	N-491	
F1.10B	36-3	ISIM-874-2	RC-H23	1	N				N			X	N-491	Note 1
F1.10B	36-3	ISIM-874-2	RC-H24	1	Y	X			N			X	N-491	Note 1
F1.10B	36-3	ISIM-874-2	RC-H26	3	N				N			X	N-491	
F1.10B	36-3	ISIM-874-2	RC-H27	1	N				N			X	N-491	Note 1
F1.10B	36-3	ISIM-874-2	RC-H30	3	Y			X	N			X	N-491	

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.10B	36-3	ISIM-874-2	RC-H34	1	N				N			X	N-491	
F1.10B	36-3	ISIM-874-2	RC-H35	1	N				N			X	N-491	Note 1
F1.10B	36-3	ISIM-874-3	RCVC-H45	1	N				N			X	N-491	
F1.10B	36-3	ISIM-874-3	RCVC-H47	2	N				N			X	N-491	
F1.10B	33	ISIM-935	RSI-H56	1	N				N			X	N-491	Note 1
F1.10B	33	ISIM-935	RSI-H57	3	Y		X		N			X	N-491	Note 1
F1.10B	33	ISIM-935	RSI-H58	1,3	N				N			X	N-491	Note 1
F1.10B	33	ISIM-936	RSI-H7A	1,3	N				N			X	N-491	
F1.10B	33	ISIM-936	RSI-H7B	3	N				N			X	N-491	
F1.10B	33	ISIM-936	RSI-H82	3	N				N			X	N-491	
F1.10B	33	ISIM-937-1	RSI-H85	1	Y	X			N			X	N-491	
F1.10B	33	ISIM-938-1	RRHR-H19	1	N				N			X	N-491	
F1.10B	33	ISIM-938-2SH1	RSI-H33	3	Y			X	N			X	N-491	
F1.10B	33	ISIM-938-2SH1	RSI-H34	3	N				N			X	N-491	Note 1
F1.10B	33	ISIM-939SH1	RSI-H44	3	Y			X	N			X	N-491	
F1.10B	33	ISIM-939SH1	RSI-H62	1	N				N			X	N-491	Note 1



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **F-A** Description **CLASS 1 PIPING SUPPORTS**

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.10B	33	ISIM-939SH1	RSI-H65	2	N				N			X	N-491	
F1.10B	36-2	ISIM-940-2	RC-H8	3	N				N			X	N-491	
F1.10B	36-2	ISIM-940-2	RC-H9	3	Y			X	N			X	N-491	
F1.10B	34	ISIM-957-1SH1	RRHR-H3	2	N				N			X	N-491	Note 1
F1.10B	34	ISIM-957-1SH1	RRHR-H7	3	N				N			X	N-491	
F1.10B	34	ISIM-957-1SH1	RRHR-H20	1	N				N			X	N-491	
F1.10B	34	ISIM-957-1SH1	RRHR-H23	1	N				N			X	N-491	
F1.10B	34	ISIM-957-1SH1	RRHR-H24	1	Y	X			N			X	N-491	
F1.10B	34	ISIM-957-1SH1	RRHR-H25	1	N				N			X	N-491	
F1.10B	33	ISIM-982	RSI-H14A	3	N				N			X	N-491	
F1.10B	33	ISIM-982	RSI-H14B	3	N				N			X	N-491	
F1.10B	35-2	ISIM-1471	RCVC-H199	3	Y			X	N			X	N-491	
F1.10B	35-2	ISIM-1471	RCVC-H203	2	Y		X		N			X	N-491	
F1.10B	35-2	ISIM-1471	RCVC-H204	2	N				N			X	N-491	
F1.10B	35-2	ISIM-1471	RCVC-H205	2	N				N			X	N-491	
F1.10B	35-2	ISIM-1471	RCVC-H206	2	N				N			X	N-491	

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.10B	35-2	ISIM-1471	RCVC-H207	3	N				N			X	N-491	
F1.10B	35-2	ISIM-1471	RCVC-H208	2	N				N			X	N-491	
F1.10B	35-2	ISIM-1471	RCVC-H210	1	N				N			X	N-491	
F1.10B	35-2	ISIM-1471	RCVC-H331		N				N			X	N-491	
F1.10B	35-3	ISIM-1473	RCVC-H214	1	Y		X		N			X	N-491	
F1.10B	35-3	ISIM-1473	RCVC-H215	1	N				N			X	N-491	
F1.10B	35-3	ISIM-1473	RCVC-H217	1	N				N			X	N-491	
F1.10B	35-1	ISIM-1474	RCVC-H222	3	Y			X	N			X	N-491	
F1.10B	35-2	ISIM-1476	RCVC-H236	3	Y		X		N			X	N-491	
F1.10B	35-2	ISIM-1476	RCVC-H238	2	N				N			X	N-491	
F1.10B	35-2	ISIM-1476	RCVC-H240	3	Y	X			N			X	N-491	
F1.10B	35-2	ISIM-1476	RCVC-H241	3	N				N			X	N-491	
F1.10B	35-2	ISIM-1476	RCVC-H242	1	N				N			X	N-491	
F1.10B	35-2	ISIM-1476	RCVC-H243	1	N				N			X	N-491	
F1.10B	35-2	ISIM-1476	RCVC-H244	1	N				N			X	N-491	
F1.10C	36-3	ISIM-874-1	RC-H13	1	N				N			X	N-491	

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.10C	36-3	ISIM-874-1	RC-H15	1	Y	X			N			X	N-491	
F1.10C	36-3	ISIM-874-1	RC-H17	3	N				N			X	N-491	
F1.10C	36-3	ISIM-874-1	RC-H18	3	N				N			X	N-491	
F1.10C	36-3	ISIM-874-1	RC-H20	3	N				N			X	N-491	
F1.10C	36-3	ISIM-874-2	RC-H22	1	N				N			X	N-491	Note 1
F1.10C	36-3	ISIM-874-2	RC-H25	3	Y			X	N			X	N-491	
F1.10C	36-3	ISIM-874-2	RC-H29A	2	N				N			X	N-491	Note 1
F1.10C	36-3	ISIM-874-2	RC-H32	1	N				N			X	N-491	Note 1
F1.10C	36-3	ISIM-874-2	RC-H33	1	N				N			X	N-491	Note 1
F1.10C	36-3	ISIM-874-2	RC-H36	1	N				N			X	N-491	
F1.10C	36-3	ISIM-874-3	RCVC-H35	3	Y			X	N			X	N-491	
F1.10C	36-3	ISIM-874-3	RCVC-H44	1	N				N			X	N-491	
F1.10C	36-3	ISIM-874-3	RCVC-H49		N				N			X	N-491	
F1.10C	36-3	ISIM-874-3	RCVC-H51	3	N				N			X	N-491	
F1.10C	36-1	ISIM-892	RC-H41	2,3	Y			X	N			X	N-491	
F1.10C	33	ISIM-936	RSI-H7	3	Y			X	N			X	N-491	Note 1

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.10C	33	ISIM-937-2SH1	RSI-H77	3	N				N			X	N-491	Note 1
F1.10C	33	ISIM-938-1	RRHR-H18	1	N				N			X	N-491	
F1.10C	33	ISIM-939SH1	RSI-H63	2,3	N				N			X	N-491	
F1.10C	33	ISIM-939SH1	RSI-H64	2	N				N			X	N-491	
F1.10C	33	ISIM-939SH1	RSI-H66	1	Y	X			N			X	N-491	
F1.10C	33	ISIM-939SH1	RSI-H67	2	N				N			X	N-491	
F1.10C	36-2	ISIM-940-1	RC-H11	2	N				N			X	N-491	
F1.10C	36-2	ISIM-940-1	RC-H12	1	Y	X			N			X	N-491	
F1.10C	34	ISIM-957-1SH1	RRHR-H1	2	N				N			X	N-491	Note 1
F1.10C	34	ISIM-957-1SH1	RRHR-H6	2	Y		X		N			X	N-491	
F1.10C	34	ISIM-957-1SH1	RRHR-H9	1	N				N			X	N-491	Note 1
F1.10C	34	ISIM-957-1SH1	RRHR-H21	1	N				N			X	N-491	
F1.10C	34	ISIM-957-1SH1	RRHR-H22	1	N				N			X	N-491	
F1.10C	33	ISIM-982	RSI-H14	3	N				N			X	N-491	Note 1
F1.10C	35-1	ISIM-1369-2	RCVC-H165	2	Y		X		N			X	N-491	
F1.10C	36-4	ISIM-1460	RTD-H1	3	N				N			X	N-491	

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.10C	36-4	ISIM-1460	RTD-H2	2	Y		X		N			X	N-491	
F1.10C	36-4	ISIM-1460	RTD-H3	3	N				N			X	N-491	
F1.10C	36-4	ISIM-1460	RTD-H5	1,3	N				N			X	N-491	
F1.10C	36-4	ISIM-1460	RTD-H6	3	N				N			X	N-491	
F1.10C	36-4	ISIM-1461	RTD-H7	3	N				N			X	N-491	
F1.10C	36-4	ISIM-1461	RTD-H8	3	N				N			X	N-491	
F1.10C	36-4	ISIM-1461	RTD-H10	3	Y			X	N			X	N-491	
F1.10C	36-4	ISIM-1461	RTD-H11	3	N				N			X	N-491	
F1.10C	36-4	ISIM-1461	RTD-H12	2	N				N			X	N-491	
F1.10C	35-2	ISIM-1471	RCVC-H36	1	N				N			X	N-491	
F1.10C	35-3	ISIM-1473	RCVC-H33A	1,3	N				N			X	N-491	
F1.10C	35-3	ISIM-1473	RCVC-H33B	3	Y			X	N			X	N-491	
F1.10C	35-3	ISIM-1473	RCVC-H34	1	N				N			X	N-491	
F1.10C	35-3	ISIM-1473	RCVC-H213	2	N				N			X	N-491	
F1.10C	35-3	ISIM-1473	RCVC-H216	1	N				N			X	N-491	
F1.10C	35-1	ISIM-1474	RCVC-H32	2	N				N			X	N-491	

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
F1.10C	35-1	ISIM-1474	RCVC-H221	2	N				N			X	N-491	
F1.10C	35-1	ISIM-1474	RCVC-H223	1	N				N			X	N-491	
F1.10C	35-1	ISIM-1474	RCVC-H224	1	N				N			X	N-491	
F1.10C	35-2	ISIM-1476	RCVC-H245	3	Y		X		N			X	N-491	

**Category Notes:**

1. This support/hanger has a corresponding integrally welded attachment that also appears in the table for examination category B-K-1.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.20A	33	ISIM-934-1	SI-H18		N				N			X	N-491	
F1.20A	33	ISIM-934-1	SI-H19		N				N			X	N-491	
F1.20A	33	ISIM-934-1	SI-H42		N				N			X	N-491	
F1.20A	33	ISIM-934-2	SI-H16		Y	X			N			X	N-491	Note 1
F1.20A	33	ISIM-934-2	SI-H20		N				N			X	N-491	
F1.20A	33	ISIM-934-2	SI-H21		N				N			X	N-491	
F1.20A	33	ISIM-934-2	SI-H22		N				N			X	N-491	
F1.20A	33	ISIM-936	RSI-H4		N				N			X	N-491	
F1.20A	33	ISIM-936	RSI-H80		N				N			X	N-491	
F1.20A	33	ISIM-936	RSI-H81		N				N			X	N-491	
F1.20A	33	ISIM-937-1	RSI-H86		N				N			X	N-491	
F1.20A	33	ISIM-937-1	RSI-H88		N				N			X	N-491	
F1.20A	33	ISIM-937-1	RSI-H91		N				N			X	N-491	
F1.20A	33	ISIM-937-2SH1	RSI-H68		N				N			X	N-491	Note 1
F1.20A	33	ISIM-937-2SH1	RSI-H70		N				N			X	N-491	
F1.20A	33	ISIM-937-2SH1	RSI-H72		N				N			X	N-491	Note 1

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.20A	33	ISIM-938-2SH1	RSI-H1	3	Y			X	N			X	N-491	Note 1
F1.20A	33	ISIM-982	RSI-H8		N				N			X	N-491	Note 1
F1.20A	33	ISIM-982	RSI-H9		Y		X		N			X	N-491	Note 1
F1.20A	33	ISIM-982	RSI-H11		N				N			X	N-491	
F1.20A	33	ISIM-993	SI-H49		N				N			X	N-491	
F1.20A	33	ISIM-1608	SI-H85		N				N			X	N-491	
F1.20B	33	ISIM-934-1	SI-H19B		N				N			X	N-491	
F1.20B	33	ISIM-934-2	SI-H17A		Y	X			N			X	N-491	Note 1
F1.20B	33	ISIM-934-2	SI-H21A	3	N				N			X	N-491	
F1.20B	33	ISIM-934-2	SI-H23		N				N			X	N-491	
F1.20B	33	ISIM-934-2	SI-H25		N				N			X	N-491	
F1.20B	33	ISIM-934-2	SI-H33		N				N			X	N-491	
F1.20B	33	ISIM-934-2	SI-H34		N				N			X	N-491	
F1.20B	33	ISIM-934-2	SI-H41		Y			X	N			X	N-491	
F1.20B	33	ISIM-936	RSI-H3		N				N			X	N-491	
F1.20B	33	ISIM-936	RSI-H5		N				N			X	N-491	



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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.20B	33	ISIM-936	RSI-H5A		N				N			X	N-491	
F1.20B	33	ISIM-936	RSI-H6		N				N			X	N-491	
F1.20B	33	ISIM-936	RSI-H79		N				N			X	N-491	
F1.20B	33	ISIM-937-1	RSI-H87		N				N			X	N-491	
F1.20B	33	ISIM-937-1	RSI-H89		N				N			X	N-491	
F1.20B	33	ISIM-937-1	RSI-H90		N				N			X	N-491	
F1.20B	33	ISIM-937-1	RSI-H92		Y			X	N			X	N-491	
F1.20B	33	ISIM-937-2SH1	RSI-H69		N				N			X	N-491	
F1.20B	33	ISIM-937-2SH1	RSI-H71		N				N			X	N-491	
F1.20B	33	ISIM-937-2SH1	RSI-H73		N				N			X	N-491	
F1.20B	33	ISIM-937-2SH1	RSI-H74		N				N			X	N-491	
F1.20B	33	ISIM-937-2SH1	RSI-H75		N				N			X	N-491	
F1.20B	33	ISIM-937-2SH1	RSI-H76		N				N			X	N-491	
F1.20B	33	ISIM-937-2SH1	RSI-H93		N				N			X	N-491	
F1.20B	5A	ISIM-970	FDW-H169	2	N				N			X	N-491	Note 1
F1.20B	5A	ISIM-971	FDW-H170		N				N			X	N-491	Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Refeb Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.20B	33	ISIM-982	RSI-H10		Y			X	N			X	N-491	Note 1
F1.20B	33	ISIM-982	RSI-H12		Y		X		N			X	N-491	Note 1
F1.20B	33	ISIM-982	RSI-H13A		N				N			X	N-491	Note 1
F1.20B	33	ISIM-982	RSI-H84		N				N			X	N-491	
F1.20B	6	ISIM-984-2SH1	MS-H10	1,2	N				N			X	N-491	
F1.20B	6	ISIM-984-2SH1	MS-H11	2	N				N			X	N-491	
F1.20B	6	ISIM-985-1SH1	MS-H1	2	N				N			X	N-491	
F1.20B	6	ISIM-985-1SH1	MS-H2	2	Y		X		N			X	N-491	
F1.20B	33	ISIM-993	SI-H45		N				N			X	N-491	
F1.20B	33	ISIM-993	SI-H46		Y	X			N			X	N-491	
F1.20B	33	ISIM-993	SI-H50		N				N			X	N-491	
F1.20B	33	ISIM-1608	SI-H84		N				N			X	N-491	
F1.20C	33	ISIM-934-1	SI-H19A		N				N			X	N-491	
F1.20C	33	ISIM-934-1	SI-H26		N				N			X	N-491	
F1.20C	33	ISIM-934-1	SI-H27		N				N			X	N-491	
F1.20C	33	ISIM-934-2	SI-H17		N				N			X	N-491	

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category **F-A** Description **CLASS 2 PIPING SUPPORTS**

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.20C	33	ISIM-934-2	SI-H24		N				N			X	N-491	
F1.20C	33	ISIM-934-2	SI-H35	3	N				N			X	N-491	
F1.20C	33	ISIM-936	RSI-H2	3	N				N			X	N-491	
F1.20C	33	ISIM-936	RSI-H2A		N				N			X	N-491	
F1.20C	33	ISIM-936	RSI-H78	3	N				N			X	N-491	
F1.20C	33	ISIM-936	RSI-H101		N				N			X	N-491	
F1.20C	33	ISIM-937-1	RSI-H99	3	N				N			X	N-491	
F1.20C	33	ISIM-937-2SH1	RSI-H98	3	Y			X	N			X	N-491	
F1.20C	34	ISIM-938-2SH1	RRHR-H14	1	N				N			X	N-491	
F1.20C	34	ISIM-938-2SH1	RRHR-H15	1	N				N			X	N-491	
F1.20C	34	ISIM-958-1SH1	RHR-H27	1	Y	X			N			X	N-491	
F1.20C	34	ISIM-959-2	RHR-H28	1	N				N			X	N-491	
F1.20C	6	ISIM-968	MSRH-H1		N				N			X	N-491	
F1.20C	6	ISIM-969	MSRH-H2		N				N			X	N-491	
F1.20C	5A	ISIM-970	FDW-H116	3	N				N			X	N-491	
F1.20C	33	ISIM-982	RSI-H13		Y		X		N			X	N-491	

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.20C	33	ISIM-982	RSI-H83	3	N				N			X	N-491	
F1.20C	33	ISIM-982	RSI-H100		N				N			X	N-491	

**Category Notes:**

1. This support/hanger has a corresponding integrally welded attachment that also appears in the table for examination category C-C.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.30A	2	ISIM-868	RSW-H2	2,3	N				N			X	N-491	Note 2
F1.30A	2	ISIM-868	RSW-H4	2	N				N			X	N-491	
F1.30A	2	ISIM-869	RSW-H31	2	N				N			X	N-491	
F1.30A	31	ISIM-875	AC-H6	1	N				N			X	N-491	
F1.30A	31	ISIM-875	AC-H8	1	N				N			X	N-491	
F1.30A	31	ISIM-881-1	AC-H19	3	N				N			X	N-491	
F1.30A	31	ISIM-881-1	AC-H21	1	N				N			X	N-491	
F1.30A	31	ISIM-881-1	AC-H76	1	N				N			X	N-491	Note 2
F1.30A	2	ISIM-888-1	RSW-H50	3	N				N			X	N-491	
F1.30A	2	ISIM-889-1	RSW-H9	3	Y		X		N			X	N-491	Note 1 and 3
F1.30A	2	ISIM-889-1	RSW-H53	3	Y	X			N			X	N-491	
F1.30A	31	ISIM-890	AC-H51	1	N				N			X	N-491	
F1.30A	5B	ISIM-891-2	FDW-H52		N				N			X	N-491	
F1.30A	5B	ISIM-891-2	FDW-H53		N				N			X	N-491	
F1.30A	5B	ISIM-891-2	FDW-H54		N				N			X	N-491	
F1.30A	5B	ISIM-891-2	FDW-H55		Y			X	N			X	N-491	Note 3

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.30A	5B	ISIM-891-2	FDW-H57		N				N			X	N-491	
F1.30A	2	ISIM-893	SWSH-H11	2	N				N			X	N-491	
F1.30A	2	ISIM-893	SWSH-H533		N				N			X	N-491	
F1.30A	2	ISIM-893	SWSH-H534		N				N			X	N-491	
F1.30A	2	ISIM-897-2	SW-H232A		N				N			X	N-491	
F1.30A	2	ISIM-900	SW-H51		N				N			X	N-491	
F1.30A	2	ISIM-900	SW-H55		N				N			X	N-491	
F1.30A	2	ISIM-900	SW-H235	3	N				N			X	N-491	
F1.30A	2	ISIM-900	SW-H236	3	N				N			X	N-491	
F1.30A	2	ISIM-900	SW-H237	3	N				N			X	N-491	
F1.30A	2	ISIM-900	SW-H238	3	N				N			X	N-491	
F1.30A	2	ISIM-900	SW-H239	3	N				N			X	N-491	
F1.30A	2	ISIM-900	SW-H241	3	Y	X			N			X	N-491	
F1.30A	31	ISIM-913	AC-H1	1	N				N			X	N-491	
F1.30A	31	ISIM-913	AC-H7	1	N				N			X	N-491	
F1.30A	31	ISIM-913	AC-H9	1	Y			X	N			X	N-491	Note 3

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **F-A**

Description **CLASS 3 PIPING SUPPORTS**

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.30A	31	ISIM-913	AC-H11	3	N				N			X	N-491	
F1.30A	31	ISIM-914	AC-H10	1,2	N				N			X	N-491	Note 3
F1.30A	31	ISIM-914	AC-H12	1	N				N			X	N-491	
F1.30A	31	ISIM-915	AC-H24	1	N				N			X	N-491	
F1.30A	31	ISIM-915	AC-H25	1,2	Y		X		N			X	N-491	Note 3
F1.30A	31	ISIM-915	AC-H25A	1	N				N			X	N-491	Note 3
F1.30A	2	ISIM-922	SW-H97	3	N				N			X	N-491	
F1.30A	2	ISIM-922	SW-H101	3	N				N			X	N-491	
F1.30A	2	ISIM-922	SW-H102	3	N				N			X	N-491	
F1.30A	2	ISIM-922	SW-H104	2	N				N			X	N-491	
F1.30A	2	ISIM-922	SW-H104A	2	N				N			X	N-491	
F1.30A	2	ISIM-922	SW-H132	3	N				N			X	N-491	
F1.30A	2	ISIM-922	SW-H415		N				N			X	N-491	
F1.30A	2	ISIM-922	SW-H419		N				N			X	N-491	
F1.30A	2	ISIM-924-1	SW-H88	3	N				N			X	N-491	
F1.30A	2	ISIM-924-1	SW-H89	3	N				N			X	N-491	

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.30A	2	ISIM-924-1	SW-H118	3	N				N			X	N-491	
F1.30A	2	ISIM-924-1	SW-H119	3	N				N			X	N-491	
F1.30A	2	ISIM-924-2	SW-H138	2	N				N			X	N-491	
F1.30A	2	ISIM-924-2	SW-H142	3	N				N			X	N-491	
F1.30A	2	ISIM-924-2	SW-H142A	3	N				N			X	N-491	
F1.30A	2	ISIM-924-2	SW-H244	2	N				N			X	N-491	
F1.30A	2	ISIM-924-2	SW-H250	2	N				N			X	N-491	
F1.30A	2	ISIM-924-2	SW-H252	2	N				N			X	N-491	
F1.30A	2	ISIM-926	SW-H92	3	N				N			X	N-491	
F1.30A	2	ISIM-926	SW-H129	3	N				N			X	N-491	
F1.30A	2	ISIM-926	SW-H130	3	Y			X	N			X	N-491	
F1.30A	2	ISIM-926	SW-H144	3	N				N			X	N-491	
F1.30A	2	ISIM-926	SW-H214	3	N				N			X	N-491	
F1.30A	2	ISIM-926	SW-H215	3	N				N			X	N-491	
F1.30A	31	ISIM-999	AC-H45	1	N				N			X	N-491	
F1.30A	31	ISIM-999	AC-H47	1	N				N			X	N-491	



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.30A	31	ISIM-999	AC-H50	1	N				N			X	N-491	Note 3
F1.30B	2	ISIM-868	RSW-H3	2,3	N				N			X	N-491	Note 1 and 3
F1.30B	2	ISIM-869	RSW-H10	2,3	N				N			X	N-491	Note 2
F1.30B	31	ISIM-875	AC-H3	1	N				N			X	N-491	Note 3
F1.30B	31	ISIM-875	AC-H5	1	N				N			X	N-491	Note 3
F1.30B	31	ISIM-881-1	AC-H16	3	Y			X	N			X	N-491	Note 2 and 3
F1.30B	2	ISIM-885-1	RSW-H14		N				N			X	N-491	
F1.30B	2	ISIM-885-1	RSW-H15	2	N				N			X	N-491	Note 3
F1.30B	2	ISIM-885-1	RSW-H16	2	Y		X		N			X	N-491	Note 3
F1.30B	2	ISIM-885-1	RSW-H113		N				N			X	N-491	Note 3
F1.30B	2	ISIM-885-1	RSW-H165		N				N			X	N-491	
F1.30B	2	ISIM-886	RSW-H77		N				N			X	N-491	Note 3
F1.30B	2	ISIM-888-1	RSW-H39	3	Y			X	N			X	N-491	Note 2 and 3
F1.30B	2	ISIM-888-1	RSW-H51	3	N				N			X	N-491	
F1.30B	2	ISIM-888-2	RSW-H36	3	N				N			X	N-491	Note 2 and 3
F1.30B	2	ISIM-888-2	RSW-H49	3	N				N			X	N-491	

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.30B	2	ISIM-889-1	RSW-H59	3	Y	X			N			X	N-491	Note 3
F1.30B	2	ISIM-889-1	RSW-H60	3	N				N			X	N-491	Note 3
F1.30B	2	ISIM-889-1	RSW-H61	3	N				N			X	N-491	
F1.30B	2	ISIM-889-1	RSW-H62	3	N				N			X	N-491	Note 3
F1.30B	2	ISIM-889-1	RSW-H63	3	Y			X	N			X	N-491	Note 2 and 3
F1.30B	2	ISIM-889-2	RSW-H35	3	N				N			X	N-491	
F1.30B	31	ISIM-890	AC-H65	1,3	N				N			X	N-491	
F1.30B	31	ISIM-890	AC-H77	1	N				N			X	N-491	
F1.30B	5B	ISIM-891-2	FDW-H53A		N				N			X	N-491	
F1.30B	5B	ISIM-891-2	FDW-H58		Y			X	N			X	N-491	Note 3
F1.30B	2	ISIM-893	SW-H1	2	N				N			X	N-491	
F1.30B	2	ISIM-893	SW-H2	3	N				N			X	N-491	
F1.30B	2	ISIM-893	SW-H3	2	N				N			X	N-491	
F1.30B	2	ISIM-893	SW-H3A	2	N				N			X	N-491	
F1.30B	2	ISIM-893	SW-H4	3	N				N			X	N-491	
F1.30B	2	ISIM-893	SW-H4A	3	N				N			X	N-491	

WISCONSIN PUBLIC SERVICE CORPORATION  
 KEWAUNEE NUCLEAR POWER PLANT  
 THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments	
					Sch	1	2	3	EOI	Vol	Sur	Via			
F1.30B	2	ISIM-893	SW-H5	2	N					N			X	N-491	
F1.30B	2	ISIM-893	SW-H6	3	N					N			X	N-491	
F1.30B	2	ISIM-893	SW-H7	3	N					N			X	N-491	
F1.30B	2	ISIM-893	SW-H8	3	N					N			X	N-491	Note 2 and 3
F1.30B	2	ISIM-893	SW-H9	2	Y		X			N			X	N-491	Note 2 and 3
F1.30B	2	ISIM-893	SW-H530		N					N			X	N-491	
F1.30B	2	ISIM-893	SW-H531		N					N			X	N-491	
F1.30B	2	ISIM-893	SWSH-H9	2	N					N			X	N-491	
F1.30B	2	ISIM-893	SWSH-H10	2	N					N			X	N-491	
F1.30B	2	ISIM-893	SWSH-H12	2	N					N			X	N-491	
F1.30B	2	ISIM-893	SWSH-H14		N					N			X	N-491	
F1.30B	2	ISIM-893	SWSH-H18	2	N					N			X	N-491	
F1.30B	2	ISIM-893	SWSH-H19		N					N			X	N-491	
F1.30B	2	ISIM-893	SWSH-H20	2	N					N			X	N-491	
F1.30B	2	ISIM-893	SWSH-H532		N					N			X	N-491	
F1.30B	2	ISIM-900	SW-H10		N					N			X	N-491 RR-3-2	Note 2 and 3

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

**Examination Category** F-A      **Description** CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Via		
F1.30B	2	ISIM-900	SW-H46A		N				N			X	N-491	
F1.30B	2	ISIM-900	SW-H53		N				N			X	N-491	
F1.30B	2	ISIM-900	SW-H411	3	N				N			X	N-491	
F1.30B	2	ISIM-900	SW-H412	3	N				N			X	N-491	
F1.30B	2	ISIM-900	SW-H413	3	N				N			X	N-491	
F1.30B	2	ISIM-901	SW-H55A	3	N				N			X	N-491	
F1.30B	2	ISIM-901	SW-H147	3	N				N			X	N-491	Note 2
F1.30B	2	ISIM-901	SW-H148		N				N			X	N-491 RR-3-2	
F1.30B	2	ISIM-901	SW-H149	3	N				N			X	N-491	Note 3
F1.30B	2	ISIM-901	SW-H150	3	N				N			X	N-491	Note 3
F1.30B	2	ISIM-901	SW-H151	3	N				N			X	N-491	
F1.30B	2	ISIM-901	SW-H153	3	N				N			X	N-491	
F1.30B	2	ISIM-901	SW-H261	3	Y			X	N			X	N-491	Note 3
F1.30B	2	ISIM-901	SW-H523		N				N			X	N-491	
F1.30B	2	ISIM-901	SW-H535		N				N			X	N-491	
F1.30B	2	ISIM-901	SW-H536		N				N			X	N-491	

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**THIRD INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.30B	2	ISIM-901	SW-H537		N				N			X	N-491	
F1.30B	2	ISIM-901	SW-H538		N				N			X	N-491	
F1.30B	31	ISIM-913	AC-H2	1	N				N			X	N-491	Note 3
F1.30B	31	ISIM-913	AC-H4	1	N				N			X	N-491	Note 3
F1.30B	31	ISIM-913	AC-H67	1	N				N			X	N-491	Note 3
F1.30B	31	ISIM-914	AC-H20	1,2	N				N			X	N-491	Note 2 and 3
F1.30B	31	ISIM-914	AC-H69	1	N				N			X	N-491	
F1.30B	31	ISIM-914	AC-H70	1	N				N			X	N-491	
F1.30B	2	ISIM-922	SW-H99	3	N				N			X	N-491	
F1.30B	2	ISIM-922	SW-H101A	3	N				N			X	N-491	
F1.30B	2	ISIM-922	SW-H134	3	Y			X	N			X	N-491	Note 2 and 3
F1.30B	2	ISIM-922	SW-H177	2	Y		X		N			X	N-491	Note 3
F1.30B	2	ISIM-922	SW-H178	2	N				N			X	N-491	Note 3
F1.30B	2	ISIM-922	SW-H181		N				N			X	N-491 RR-3-2	Note 3
F1.30B	2	ISIM-922	SW-H182		N				N			X	N-491 RR-3-2	Note 3

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.30B	2	ISIM-922	SW-H222	3	N				N			X	N-491	
F1.30B	2	ISIM-922	SW-H414		N				N			X	N-491	
F1.30B	2	ISIM-922	SW-H416		N				N			X	N-491	
F1.30B	2	ISIM-922	SW-H417		N				N			X	N-491	
F1.30B	2	ISIM-922	SW-H418		N				N			X	N-491	Note 3
F1.30B	2	ISIM-924-1	SW-H87		N				N			X	N-491 RR-3-2	Note 2 and 3
F1.30B	2	ISIM-924-1	SW-H248	3	N				N			X	N-491	Note 3
F1.30B	2	ISIM-924-1	SW-H400	3	N				N			X	N-491 RR-3-2	
F1.30B	2	ISIM-924-1	SW-H528	3	N				N			X	N-491	
F1.30B	2	ISIM-924-1	SW-H565		N				N			X	N-491	
F1.30B	2	ISIM-924-2	SW-H143	3	N				N			X	N-491	Note 2 and 3
F1.30B	2	ISIM-924-2	SW-H216	2	N				N			X	N-491	
F1.30B	2	ISIM-924-2	SW-H246	2	N				N			X	N-491	
F1.30B	2	ISIM-924-2	SW-H251	2	N				N			X	N-491	
F1.30B	2	ISIM-924-2	SW-H526		Y	X			N			X	N-491	Note 3

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Via		
F1.30B	2	ISIM-924-2	SW-H566		N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H91	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H125	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H129A	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H131	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H144A	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H145	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H146	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H146A	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H166	3	N				N			X	N-491	
F1.30B	2	ISIM-926	SW-H167	3	N				N			X	N-491	Note 3
F1.30B	2	ISIM-926	SW-H168	3	N				N			X	N-491	Note 3
F1.30B	2	ISIM-926	SW-H221	3	N				N			X	N-491	
F1.30B	31	ISIM-999	AC-H43	1	Y	X			N			X	N-491	Note 3
F1.30C	2	ISIM-867	RSW-H12	3	N				N			X	N-491	
F1.30C	2	ISIM-867	RSW-H13	3	N				N			X	N-491	Note 3

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category E-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sar	Vis		
F1.30C	2	ISIM-868	RSW-H1	2	N				N			X	N-491	
F1.30C	2	ISIM-869	RSW-H7	2	N				N			X	N-491	
F1.30C	2	ISIM-870	RSW-H18	3	Y			X	N			X	N-491	Note 3
F1.30C	31	ISIM-881-1	AC-H17	1,2	N				N			X	N-491	Note 3
F1.30C	31	ISIM-881-1	AC-H22	1	Y	X			N			X	N-491	Note 3
F1.30C	2	ISIM-885-1	RSW-H114		N				N			X	N-491	
F1.30C	2	ISIM-886	RSW-H78		N				N			X	N-491	
F1.30C	2	ISIM-889-1	RSW-H8	2	N				N			X	N-491	Note 3
F1.30C	2	ISIM-889-2	RSW-H6	3	N				N			X	N-491	Note 3
F1.30C	2	ISIM-889-2	RSW-H30	3	N				N			X	N-491	
F1.30C	2	ISIM-889-2	RSW-H32	3	Y		X		N			X	N-491	Note 3
F1.30C	2	ISIM-893	SWSH-H13	2	N				N			X	N-491	
F1.30C	2	ISIM-893	SWSH-H13A		N				N			X	N-491	
F1.30C	2	ISIM-901	SW-H153A	3	N				N			X	N-491	Note 3
F1.30C	31	ISIM-914	AC-H18	1,2	N				N			X	N-491	Note 3
F1.30C	31	ISIM-914	AC-H64	1,2	N				N			X	N-491	Note 3



WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments	
					Sch	1	2	3	EOI	Vol	Sur	Vis			
F1.30C	31	ISIM-914	AC-H68	1	N					N			X	N-491	
F1.30C	31	ISIM-915	AC-H23	1,2	N					N			X	N-491	Note 3
F1.30C	2	ISIM-924-1	SW-H401	3	N					N			X	N-491	Note 3
F1.30C	2	ISIM-924-2	SW-H243	2	N					N			X	N-491	
F1.30C	2	ISIM-924-2	SW-H247	2	N					N			X	N-491	

**Category Notes:**

1. Component support/hanger that provides support for more than one component. This support/hanger appears on more than one drawing. Refer to Appendix D for additional drawings.
2. This support/hanger appears on more than one drawing but provides support for only one component. Refer to Appendix D for additional drawings.
3. This support/hanger has a corresponding integrally welded attachment that also appears in the table for examination category D-A, D-B or D-C.

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **F-A**

Description **CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS**

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	36	M-1194	RV-CS1	1	Y	X			N			X	N-491	
F1.40B	36	M-1194	RV-CS2	3	Y			X	N			X	N-491	
F1.40B	36	M-1194	RV-CS3	3	Y			X	N			X	N-491	
F1.40B	36	M-1194	RV-CS4	1	Y	X			N			X	N-491	
F1.40B	36	M-1194	RV-CS5	3	Y			X	N			X	N-491	Note 1
F1.40B	36	M-1194	RV-CS6	3	Y			X	N			X	N-491	Note 1
F1.40B	36	M-1200	PRZ-S1	3	Y			X	N			X	N-491	Note 1 (See Equipment ID# P-W6)
F1.40B	36	M-1201	SG-1A-22A	1,3	Y		X		N			X	N-491	
F1.40B	36	M-1201	SG-1A-22B	1,3	Y		X		N			X	N-491	
F1.40B	36	M-1201	SG-1A-22C	3	Y		X		N			X	N-491	
F1.40B	36	M-1201	SG-1A-22D	3	Y		X		N			X	N-491	
F1.40B	36	M-1201	SG-1B-22A	3	N				N			X	N-491	
F1.40B	36	M-1201	SG-1B-22B	3	N				N			X	N-491	
F1.40B	36	M-1201	SG-1B-22C	3	N				N			X	N-491	
F1.40B	36	M-1201	SG-1B-22D	3	N				N			X	N-491	
F1.40B	36	M-1204	RCP-CS1	1	Y	X			N			X	N-491	Note 2

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A

Description CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	36	M-1204	RCP-CS2	3	Y			X	N			X	N-491	Note 2
F1.40B	36	M-1204	RCP-CS3	1	Y	X			N			X	N-491	Note 2
F1.40B	36	M-1204	RCP-CS4	3	N				N			X	N-491	Note 2
F1.40B	36	M-1204	RCP-CS5	3	N				N			X	N-491	Note 2
F1.40B	36	M-1204	RCP-CS6	3	N				N			X	N-491	Note 2
F1.40B	34	M-1207	AHRS1-SW1	2	Y		X		N			X	N-491	RHR HEAT EXCHANGER 1A Note 3
F1.40B	34	M-1207	AHRS1-SW2	1	Y	X			N			X	N-491	RHR HEAT EXCHANGER 1A Note 3
F1.40B	34	M-1207	AHRS2-SW3	3	N				N			X	N-491	RHR HEAT EXCHANGER 1B Note 3
F1.40B	34	M-1207	AHRS2-SW4	3	N				N			X	N-491	RHR HEAT EXCHANGER 1B Note 3
F1.40B	35	M-1208	ARG-S1	1,2	Y		X		N			X	N-491	REGENERATIVE HEAT EXCHANGER
F1.40B	35	M-1208	ARG-S2	1,2	Y		X		N			X	N-491	REGENERATIVE HEAT EXCHANGER
F1.40B	35	M-1209	AHNR-SW1	1	Y			X	N			X	N-491	LETDOWN HEAT EXCHANGER
F1.40B	35	M-1209	AHNR-SW2	2	Y			X	N			X	N-491	LETDOWN HEAT EXCHANGER
F1.40B	35	M-1210	CVC-H115		Y	X			N			X	N-491	CHG PUMP PULSATION DAMPENER 1B Note 3

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	35	M-1210	CVC-H116		N				N			X	N-491	CHG PUMP PULSATION DAMPENER 1A Note 3
F1.40B	35	M-1210	CVC-H117		N				N			X	N-491	CHG PUMP PULSATION DAMPENER 1C Note 3
F1.40B	35	M-1212	AFSI-SW1	1	Y	X			N			X	N-491	SEAL WATER INJECTION FILTER 1A
F1.40B	35	M-1212	AFSI-SW2	2	Y		X		N			X	N-491	SEAL WATER INJECTION FILTER 1A
F1.40B	35	M-1212	AFSI-SW3	3	Y			X	N			X	N-491	SEAL WATER INJECTION FILTER 1A
F1.40B	35	M-1212	AFSI-SW4	3	N				N			X	N-491	SEAL WATER INJECTION FILTER 1B
F1.40B	35	M-1212	AFSI-SW5	3	N				N			X	N-491	SEAL WATER INJECTION FILTER 1B
F1.40B	35	M-1212	AFSI-SW6	3	N				N			X	N-491	SEAL WATER INJECTION FILTER 1B
F1.40B	34	M-1215	APRH1-SC1	1	Y			X	N			X	N-491	RHR PUMP 1A
F1.40B	34	M-1215	APRH2-SC2	3	N				N			X	N-491	RHR PUMP 1B
F1.40B	35	M-1216	APCH-1A-SC1	3	Y	X			N			X	N-491	CHARGING PUMP 1A
F1.40B	35	M-1216	APCH-1B-SC2	3	N				N			X	N-491	CHARGING PUMP 1B
F1.40B	35	M-1216	APCH-1C-SC3	3	N				N			X	N-491	CHARGING PUMP 1C
F1.40B	31	M-1218	ATCS-S1	2	Y		X		N			X	N-491	COMPONENT COOLING SURGE TANK Note 4

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	31	M-1218	ATCS-S2	2	Y		X		N			X	N-491	COMPONENT COOLING SURGE TANK Note 4
F1.40B	2	M-1220	ASSW-1A1-S1	2	Y		X		N			X	N-491	SERVICE WATER PUMP 1A1 STRAINER
F1.40B	2	M-1220	ASSW-1A1-S2	2	Y		X		N			X	N-491	SERVICE WATER PUMP 1A1 STRAINER
F1.40B	2	M-1220	ASSW-1A1-S3	2	Y		X		N			X	N-491	SERVICE WATER PUMP 1A1 STRAINER
F1.40B	2	M-1220	ASSW-1A1-S4	2	Y		X		N			X	N-491	SERVICE WATER PUMP 1A1 STRAINER
F1.40B	2	M-1220	ASSW-1A2-S1	3	N				N			X	N-491	SERVICE WATER PUMP 1A2 STRAINER
F1.40B	2	M-1220	ASSW-1A2-S2	3	N				N			X	N-491	SERVICE WATER PUMP 1A2 STRAINER
F1.40B	2	M-1220	ASSW-1A2-S3	3	N				N			X	N-491	SERVICE WATER PUMP 1A2 STRAINER
F1.40B	2	M-1220	ASSW-1A2-S4	3	N				N			X	N-491	SERVICE WATER PUMP 1A2 STRAINER
F1.40B	2	M-1220	ASSW-1B1-S1	3	N				N			X	N-491	SERVICE WATER PUMP 1B1 STRAINER
F1.40B	2	M-1220	ASSW-1B1-S2	3	N				N			X	N-491	SERVICE WATER PUMP 1B1 STRAINER
F1.40B	2	M-1220	ASSW-1B1-S3	3	N				N			X	N-491	SERVICE WATER PUMP 1B1 STRAINER
F1.40B	2	M-1220	ASSW-1B1-S4	3	N				N			X	N-491	SERVICE WATER PUMP 1B1 STRAINER
F1.40B	2	M-1220	ASSW-1B2-S1	3	N				N			X	N-491	SERVICE WATER PUMP 1B2 STRAINER
F1.40B	2	M-1220	ASSW-1B2-S2	3	N				N			X	N-491	SERVICE WATER PUMP 1B2 STRAINER
F1.40B	2	M-1220	ASSW-1B2-S3	3	N				N			X	N-491	SERVICE WATER PUMP 1B2 STRAINER

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **F-A**

Description **CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS**

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	2	M-1220	ASSW-1B2-S4	3	N				N			X	N-491	SERVICE WATER PUMP 1B2 STRAINER
F1.40B	31	M-1221	AHEL-1A-S1	1	Y			X	N			X	N-491	EXCESS LETDOWN HX 1A Note 4
F1.40B	31	M-1221	AHEL-1A-S2	1	Y			X	N			X	N-491	EXCESS LETDOWN HX 1A Note 4
F1.40B	31	M-1221	AHEL-1B-S1	1	Y			X	N			X	N-491	EXCESS LETDOWN HX 1B Note 4
F1.40B	31	M-1221	AHEL-1B-S2	1	Y			X	N			X	N-491	EXCESS LETDOWN HX 1B Note 4
F1.40B	2	M-1222	AHCC1-1A-S1	1	Y	X			N			X	N-491	COMPONENT COOLING HX 1A Note 4
F1.40B	2	M-1222	AHCC1-1A-S2	1	Y	X			N			X	N-491	COMPONENT COOLING HX 1A Note 4
F1.40B	2	M-1222	AHCC2-1B-S1	1	N				N			X	N-491	COMPONENT COOLING HX 1B Note 4
F1.40B	2	M-1222	AHCC2-1B-S2	1	N				N			X	N-491	COMPONENT COOLING HX 1B Note 4
F1.40B	31	M-1224	AHRS1-1A-WS5	1	Y	X			N			X	N-491	RHR HEAT EXCHANGER 1A Note 4
F1.40B	31	M-1224	AHRS1-1A-WS6	1	Y	X			N			X	N-491	RHR HEAT EXCHANGER 1A Note 4

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	31	M-1224	AHRS1-1A-WS7	1	Y	X			N			X	N-491	RHR HEAT EXCHANGER 1A Note 4
F1.40B	31	M-1224	AHRS1-1A-WS8	1	Y	X			N			X	N-491	RHR HEAT EXCHANGER 1A Note 4
F1.40B	31	M-1224	AHRS2-1B-WS9	1	N				N			X	N-491	RHR HEAT EXCHANGER 1B Note 4
F1.40B	31	M-1224	AHRS2-1B-WS10	1	N				N			X	N-491	RHR HEAT EXCHANGER 1B Note 4
F1.40B	31	M-1224	AHRS2-1B-WS11	1	N				N			X	N-491	RHR HEAT EXCHANGER 1B Note 4
F1.40B	31	M-1224	AHRS2-1B-WS12	1	N				N			X	N-491	RHR HEAT EXCHANGER 1B Note 4
F1.40B	2	M-1225	AHDG-1A-S1	2,3	Y	X			N			X	N-491	DIESEL GEN 1A COOLING WATER HX
F1.40B	2	M-1225	AHDG-1A-S2	2,3	Y	X			N			X	N-491	DIESEL GEN 1A COOLING WATER HX
F1.40B	2	M-1225	AHDG-1B-S1	3	N				N			X	N-491	DIESEL GEN 1B COOLING WATER HX
F1.40B	2	M-1225	AHDG-1B-S2	3	N				N			X	N-491	DIESEL GEN 1B COOLING WATER HX
F1.40B	31	M-1226	AHLD-WS3	1	Y		X		N			X	N-491	LETDOWN HEAT EXCHANGER Note 4
F1.40B	31	M-1226	AHLD-WS4	1	Y		X		N			X	N-491	LETDOWN HEAT EXCHANGER Note 4

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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	31	M-1226	AHLD-WS5	1	Y		X		N			X	N-491	LETDOWN HEAT EXCHANGER Note 4
F1.40B	31	M-1226	AHLD-WS6	1	Y		X		N			X	N-491	LETDOWN HEAT EXCHANGER Note 4
F1.40B	31	M-1229	AHRHRP-1A-S1	2	Y			X	N			X	N-491	RHR PUMP 1A SHAFT SEAL HX Note 4
F1.40B	31	M-1229	AHRHRP-1B-S2	3	N				N			X	N-491	RHR PUMP 1B SHAFT SEAL HX Note 4
F1.40B	5B	M-1231	APFT-S1	3	Y		X		N			X	N-491	TURBINE DRIVEN AFW PUMP Note 4
F1.40B	5B	M-1231	APFT-S2	3	Y		X		N			X	N-491	TURBINE DRIVEN AFW PUMP Note 4
F1.40B	5B	M-1231	APFT-S3	3	Y		X		N			X	N-491	TURBINE DRIVEN AFW PUMP Note 4
F1.40B	5B	M-1231	APFT-S4	3	Y		X		N			X	N-491	TURBINE DRIVEN AFW PUMP Note 4
F1.40B	5B	M-1231	APFT-S5	3	Y	X			N			X	N-491	TURBINE DRIVEN AFW PUMP
F1.40B	5B	M-1232	APFM-1A-S1	3	Y			X	N			X	N-491	AUXILIARY FEEDWATER PUMP 1A Note 4
F1.40B	5B	M-1232	APFM-1A-S2	3	Y			X	N			X	N-491	AUXILIARY FEEDWATER PUMP 1A Note 4





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KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category **F-A**

Description **CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS**

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	31	M-1234	APCC-1A-S1	1	Y	X			N			X	N-491	COMPONENT COOLING PUMP 1A Note 4
F1.40B	31	M-1234	APCC-1A-S2	1	Y	X			N			X	N-491	COMPONENT COOLING PUMP 1A
F1.40B	31	M-1234	APCC-1A-S3	1	Y	X			N			X	N-491	COMPONENT COOLING PUMP 1A
F1.40B	31	M-1234	APCC-1B-S1	1	N				N			X	N-491	COMPONENT COOLING PUMP 1B Note 4
F1.40B	31	M-1234	APCC-1B-S2	1	N				N			X	N-491	COMPONENT COOLING PUMP 1B
F1.40B	31	M-1234	APCC-1B-S3	1	N				N			X	N-491	COMPONENT COOLING PUMP 1B
F1.40B	2	M-1236	APSW-1A1-S1	3	Y			X	N			X	N-491	SERVICE WATER PUMP 1A1
F1.40B	2	M-1236	APSW-1A2-S2	3	N				N			X	N-491	SERVICE WATER PUMP 1A2
F1.40B	2	M-1236	APSW-1B1-S3	3	N				N			X	N-491	SERVICE WATER PUMP 1B1
F1.40B	2	M-1236	APSW-1B2-S4	3	N				N			X	N-491	SERVICE WATER PUMP 1B2
F1.40B	2	M-1237	AHSC-1A-1-S1	3	Y			X	N			X	N-491	SAFETY INJECTION PUMP 1A HX
F1.40B	2	M-1237	AHSC-1A-2-S2	3	Y			X	N			X	N-491	SAFETY INJECTION PUMP 1A HX
F1.40B	2	M-1237	AHSC-1B-1-S1	3	N				N			X	N-491	SAFETY INJECTION PUMP 1B HX
F1.40B	2	M-1237	AHSC-1B-2-S2	3	N				N			X	N-491	SAFETY INJECTION PUMP 1B HX
F1.40B	2	M-1239	AHCF-1A-S1	3	Y			X	N			X	N-491	CNTMT FAN COOLING UNIT 1A

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**THIRD INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	2	M-1239	AHCF-1B-S1	3	N				N			X	N-491	CNTMT FAN COOLING UNIT 1B
F1.40B	2	M-1239	AHCF-1C-S1	3	N				N			X	N-491	CNTMT FAN COOLING UNIT 1C
F1.40B	2	M-1239	AHCF-1D-S1	3	N				N			X	N-491	CNTMT FAN COOLING UNIT 1D
F1.40B	33	M-1707	APSI-1A-S1		Y	X			N			X	N-491	SAFETY INJECTION PUMP 1A Note 3
F1.40B	33	M-1707	APSI-1A-S2		Y			X	N			X	N-491	SAFETY INJECTION PUMP 1A Note 3
F1.40B	33	M-1707	APSI-1A-S3		Y		X		N			X	N-491	SAFETY INJECTION PUMP 1A Note 3
F1.40B	33	M-1707	APSI-1A-S4		Y			X	N			X	N-491	SAFETY INJECTION PUMP 1A Note 3
F1.40B	33	M-1707	APSI-1A-S5		Y	X			N			X	N-491	SAFETY INJECTION PUMP 1A
F1.40B	33	M-1707	APSI-1B-S1		N				N			X	N-491	SAFETY INJECTION PUMP 1B Note 3
F1.40B	33	M-1707	APSI-1B-S2		N				N			X	N-491	SAFETY INJECTION PUMP 1B Note 3
F1.40B	33	M-1707	APSI-1B-S3		N				N			X	N-491	SAFETY INJECTION PUMP 1B Note 3
F1.40B	33	M-1707	APSI-1B-S4		N				N			X	N-491	SAFETY INJECTION PUMP 1B Note 3

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

THIRD INTERVAL ISI SCHEDULE

Examination Category F-A Description CLASS 1, 2, AND 3 SUPPORTS OTHER THAN PIPING SUPPORTS

Item No.	ISI System	ISI Drawing No.	Equipment No.	INT.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
					Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.40B	33	M-1707	APSI-1B-S5		N				N			X	N-491	SAFETY INJECTION PUMP 1B

Category Notes:

1. This support/hanger has a corresponding integrally welded attachment that also appears in the table for examination category B-H.
2. This support/hanger has a corresponding integrally welded attachment that also appears in the table for examination category B-K-1.
3. This support/hanger has a corresponding integrally welded attachment that also appears in the table for examination category C-C.
4. This support/hanger has a corresponding integrally welded attachment that also appears in the table for examination category D-A, D-B or D-C.

## Section 9.0

### Bibliography

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3. ASME Section XI, 1989 Edition
4. Code of Federal Regulation Title 10, Part 50
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6. Kewaunee Nuclear Power Plant First 10-year ISI Plan
7. Kewaunee Nuclear Power Plant First 10-year Outage Reports
8. Kewaunee Nuclear Power Plant Integral Attachment Component Support Drawings
9. Kewaunee Nuclear Power Plant ISI Component Drawings
10. Kewaunee Nuclear Power Plant ISI Flow Diagrams
11. Kewaunee Nuclear Power Plant ISI Weld Map Isometrics
12. Kewaunee Nuclear Power Plant Piping Isometrics
13. Kewaunee Nuclear Power Plant Safety-related Equipment Drawings
14. Kewaunee Nuclear Power Plant Second 10-year Outage Reports
15. Kewaunee Nuclear Power Plant Second 10-year ISI Plan
16. Kewaunee Nuclear Power Plant System Descriptions
17. Kewaunee Nuclear Power Plant Technical Specification
18. Kewaunee Nuclear Power Plant Updated Safety Analysis Report (USAR)
19. Regulatory Guide I.147, ISI Code Case Acceptability, Rev. 10

## Appendix A

### ISI Drawings

During development of the Third 10-Year Inservice Inspection (ISI) Interval Plan, Wisconsin Public Service Corporation (WPSC) created ISI CAD drawings for the Kewaunee Nuclear Power Plant. ISI drawings provide a source document for planning, scheduling, and administration of components subject to inspection under the 1989 Edition of ASME Boiler and Pressure Vessel Code, Section XI. The ISI isometric drawings (page A-3), ISI component drawings (page A-11), and ISI flow diagrams (page A-13) are listed in the attached tables. The ISI isometric drawings and ISI flow diagrams have been leveled. The ISI component drawings are not leveled. The term levelization indicates that data within the drafting design file has been segregated into different levels. The drafting software utilized at WPSC contains 63 drawing levels. Levels are put together to form a complete drawing. Furthermore, levels can be turned on and off independently to create different drawings from one drafting file. The drafting design file for the isometric drawings are used to generate isometric drawings (stress analysis), weld map isometric drawings, and ISI isometric drawings. The drafting design files for the flow diagrams are used to generate operation flow diagrams, analytical flow diagrams, and ISI flow diagrams.

The hierarchy of information contained on the isometric drawings is as follows:

- Isometric Drawings (Stress Analysis)
  - Pipe configuration
  - Component support identification numbers and location
  - Analytical part number
  - Valve identification number and location
- Weld Map Isometric Drawings
  - Weld location
  - Fabrication weld identification number
  - Weld type (determined by referencing fabrication ID numbers to original weld datasheets located in KNPP QA Vault)
  - Pipe material and thickness
- ISI Isometric Drawings
  - ISI identification numbers
  - NDE boundary flags
  - ISI code class boundary flags

The hierarchy of information contained on the flow diagrams is as follows:

- Operations Flow Diagrams
  - All piping and instrumentation
  - QA boundary flags
- Analytical Flow Diagrams
  - Analytical Part Number
  - Anchor Points

## Appendix A

### ISI Drawings

- ISI Flow Diagrams
  - Code Class Boundary Flags
  - ISI Notes

Information contained on the ISI isometric drawings include:

- Size, schedule, material, and configuration of piping
- Location and identification of welds, supports and hangers, integrally welded attachments, and valves and flanges
- Class 1 and class 2 pressure retaining bolting within the NDE boundary
- Valve manufacturer for class 1 valves subject to VT-3 internal examination
- Floor and wall penetrations
- Calibration block
- Code class and NDE boundaries
- Examination direction

Information contained on the ISI component drawings include:

- Welds
- Component supports
- Integrally welded attachments
- Bolting
- Calibration block
- Thickness and material type
- Code class

The equipment numbering system used on the ISI isometric and component drawings is as follows. An equipment number is a unique identifier used to identify a piece of equipment. The term "equipment" refers to supports, valves, pumps, vessels, welds, etc. An example of each type of numbering scheme is given below.

#### Supports

MS-H27	MS	system abbreviation
	H	support/hanger
	27	sequential number

#### Valves

RHR-1A	RHR	system abbreviation
	1	sequential number
	A	train

## Appendix A

### ISI Drawings

#### Pumps, Vessels, etc.

AHEL-1A    A    Unit I  
               H    heat exchanger (P would indicate pump and F would indicate filter)  
               EL    equipment or system identifier  
               I    sequential number  
               A    train

#### Welds

SI-W100S    SI    system abbreviation  
                   W    weld  
                   100    sequential number  
                   S    indicates a socket weld (BC indicates a branch connection weld,  
                       L indicates a longitudinal weld, and no designation indicates a butt  
                       weld)

#### Restraints

RR66        RR    rupture restraint  
                   66    sequential number

#### Integrally Welded Attachment

MS-WA-706    MS    system abbreviation  
                   WA    welded attachment (H indicates hanger)  
                   706    sequential number

ISI ISOMETRIC DRAWINGS			
I.D.	TITLE	CLASS	ANALYTICAL PART NO.
ISIM-866	Auxiliary Feedwater Piping to Steam Generator 1B	2	AFW-05B-002
ISIM-867	Containment Service Water Piping Line 37NW	3	SW-02-001
ISIM-868	Containment Service Water Piping Line 37ES	3	SW-02-002
ISIM-869	Containment Service Water Piping Line 37EN	3	SW-02-003



Appendix A

ISI Drawings

ISI ISOMETRIC DRAWINGS			
I.D.	TITLE	CLASS	ANALYTICAL PART NO.
ISIM-870	Containment Service Water Piping Line 37NE	3	SW-02-004
ISIM-871	Main Steam Steam Generator 1A	2	MS-06-001
ISIM-872	Main Steam Steam Generator 1B	2	MS-06-002
ISIM-874-1	3" R.C. to Pressurizer	1	RC-36-001
ISIM-874-2	3" R.C. to Pressurizer	1	RC-36-001
ISIM-874-3	2" CVC to Pressurizer RC	1	RC-36-001
ISIM-875	Aux. Cooling From CC Pumps 1A & 1B to CC HT Exch's 1A & 1B Inlet	3	CC-31-001
ISIM-881-1	CC - RSDL HX 1A, 1B, BA Evap Pkg Outs & Pens 33N, 40, 33E to Surge TK	3	CC-31-005
ISIM-885-1	Service Water From FCU 1A to Shroud Cooling Coil 1A to Pene. 38NW	3	SW-02-007
ISIM-886	SW From Fan Coil Unit 1B to Shroud Clg Coil 1B to Cntmt Pen 38NE	3	SW-02-008
ISIM-888-1	Service Water From FCU 1C & 1D to Shroud Cooling Unit 1C/1D and Intermediate Anchors	3	SW-02-009
ISIM-888-2	Service Water From FCU 1C & 1D to Shroud Cooling Unit 1C/1D and Intermediate Anchors	3	SW-02-009
ISIM-889-1	Service Water From FCU 1C, 1D & Shroud Cooling Coil 1C, 1D to Pene. 38EN & 38ES	3	SW-02-010
ISIM-889-2	Service Water From FCU 1C, 1D & Shroud Cooling Coil 1C, 1D to Pene. 38EN & 38ES	3	SW-02-010

Appendix A

ISI Drawings

ISI ISOMETRIC DRAWINGS			
I.D.	TITLE	CLASS	ANALYTICAL PART NO.
ISIM-890	CC - RSDL HX 1A, 1B, BA, Evap Pkg Outs & Pens 33N, 40, 33E to Surge TK	3	CC-31-005
ISIM-891-2	From AFW Pumps 1A/1B and Turb. Driven Pump Disch. to Pen. 46E	2, 3	AFW-05B-004
ISIM-892	Pressurizer Surge Line	1	RC-36-003
ISIM-893	SW Outlets From Strainers 1A1, 1A2, 1B1, & 1B2 to Anchors on 24" Header	3	SW-02-011
ISIM-897-2	Serv. Wtr. & Feed Water Suct. to Aux. Feedwater 1A, 1B & Turb. Drvn. Pumps	3	SW-02-015
ISIM-900	SW From Intermediate Anchor on 24" HDR to Intermediate Anchors on 16" Pipe & Near VLV SW-4B	3	SW-02-018
ISIM-901	SW From Intermediate Anchor on 24" HDR to Intermediate Anchors on 16" Pipe & Near VLV SW-4A	3	SW-02-019
ISIM-913	CC - From Anchor and Letdown HX to Comp. Clg. Pumps 1A/1B Suction	3	CC-31-007
ISIM-914	CC - From CC HX 1A/1B Outlets to Letdown HX & RSDL HX 1A Inlets	3	CC-31-008
ISIM-915	CC - From Anchor to RSDL HX 1B, Pens 32N, 39, 32E & BA Evap Pkg Inlt	3	CC-31-009
ISIM-922	Service Water - From Anchor to Cntmt Pens 37EN & 37ES	3	SW-02-031
ISIM-924-1	SW Sply to CC HX 1A/1B, Spent Fuel HX & Emergency Sply to Spent Fuel Pools	3	SW-02-033

Appendix A

ISI Drawings

ISI ISOMETRIC DRAWINGS			
I.D.	TITLE	CLASS	ANALYTICAL PART NO.
ISIM-924-2	SW Sply to CC HX 1A/1B, Spent Fuel HX & Emergency Sply to Spent Fuel Pools	3	SW-02-033
ISIM-926	Service Water Anchors to Cntmt Pens. 37NE & 37NW	3	SW-02-035
ISIM-933	Safety Injection Pumps Suction Piping	2	SI-33-001
ISIM-934-1	Safety Injection Pumps Disch. Piping to Pen 28E & RWST	2	SI-33-002
ISIM-934-2	Safety Injection Pumps Disch. Piping to Pen 28N & RWST	2	SI-33-002
ISIM-935	SI - From Accumulator 1A to Loop A Cold Leg	1, 2	SI-33-003
ISIM-936	SI - From Cntmt PEN. 28N to Acmters and Cold Leg Loops	1, 2	SI-33-004
ISIM-937-1	SI - From Cntmt PEN. 28E to 2" Branch Conn on 6" HDR to Reactor	1, 2	SI-33-005
ISIM-937-2SH1	SI - From Cntmt PEN. 28E to 2" Branch Conn on 6" HDR to Reactor	1, 2	SI-33-005
ISIM-937-2SH2	SI - From Cntmt PEN. 28E to 2" Branch Conn on 6" HDR to Reactor	1, 2	SI-33-005
ISIM-938-I	SI - From Cntmt PEN. 10 to Reactor From Acmttr 1B to Loop B Cold Leg	1, 2	SI-33-006
ISIM-938-2SH1	SI - From Cntmt PEN. 10 to Reactor From Acmttr 1B to Loop B Cold Leg	1, 2	SI-33-006
ISIM-938-2SH2	SI - From Cntmt PEN. 10 to Reactor From Acmttr 1B to Loop B Cold Leg	1, 2	SI-33-006

Appendix A

ISI Drawings

ISI ISOMETRIC DRAWINGS			
I.D.	TITLE	CLASS	ANALYTICAL PART NO.
ISIM-939SH1	Safety Injection From Contmt Pen 48 to Reactor	1, 2	SI-33-007
ISIM-939SH2	Safety Injection From Contmt Pen 48 to Reactor	1, 2	SI-33-007
ISIM-940-1	Reactor Coolant - From Pressurizer to Pressurizer Relief Tank	1	RC-36-002
ISIM-940-2	Reactor Coolant - From Pressurizer to Pressurizer Relief Tank	1	RC-36-002
ISIM-950-1	Containment Spray Pump Suction Piping	2	ICS-23-001
ISIM-950-2	Containment Spray Pump Suction Piping	2	ICS-23-001
ISIM-951	Containment Spray Pump 1A Disch Piping to Pen. 29N	2	ICS-23-002
ISIM-952	Contmt Spray From Contmt Pen 29N to Ring Headers 1 & 3	2	ICS-23-003
ISIM-953	Containment Spray Pump 1B Disch Piping to Pen. 29E	2	ICS-23-004
ISIM-954	Contmt Spray From Contmt Pen 29E to Ring Headers 2 & 4	2	ICS-23-005
ISIM-957-1SHI	RHR - From RC Loops A & B Hot Legs to Contmt Pen. 9 & to Contmt Sump B	1, 2	RHR-34-001
ISIM-957-1SH2	RHR - From RC Loops A & B Hot Legs to Contmt Pen. 9 & to Contmt Sump B	1, 2	RHR-34-001
ISIM-957-2	RHR - From RC Loops A & B Hot Legs to Contmt Pen. 9 & to Contmt Sump B	1, 2	RHR-34-001
ISIM-958-1SHI	RHR - From Contmt Sump B & Anchors Thru RHR Pump 1A to Anchor on Disch. Line	2	RHR-34-002

Appendix A

ISI Drawings

ISI ISOMETRIC DRAWINGS			
I.D.	TITLE	CLASS	ANALYTICAL PART NO.
ISIM-958-1SH2	RHR - From Cntmt Sump B & Anchors Thru RHR Pump 1A to Anchor on Disch. Line	2	RHR-34-002
ISIM-958-2	RHR - From Cntmt Sump B & Anchors Thru RHR Pump 1A to Anchor on Disch. Line	2	RHR-34-002
ISIM-959-ISHI	RHR - From Cntmt Sump B & Anchors Thru RHR Pump 1B to Anchor on Disch. Line	2	RHR-34-003
ISIM-959-1SH2	RHR - From Cntmt Sump B & Anchors Thru RHR Pump 1B to Anchor on Disch. Line	2	RHR-34-003
ISIM-959-2	RHR - From Cntmt Sump B & Anchors Thru RHR Pump 1B to Anchor on Disch. Line	2	RHR-34-003
ISIM-960-1	RHR - From Anchors Thru RSDL HX 1A/1B to Pens 10, 48 & RHR-SFP Interconns	2	RHR-34-004
ISIM-961-1	RHR - From Anchors Thru RSDL HX 1A/1B to Pens 10, 48 & RHR-SFP Interconns	2	RHR-34-004
ISIM-961-2	RHR - From Anchors Thru RSDL HX 1A/1B to Pens 10, 48 & RHR-SFP Interconns	2	RHR-34-004
ISIM-962-2SHI	RHR - From Anchors Thru RSDL HX 1A/1B to Pens 10, 48 & RHR-SFP Interconns	2	RHR-34-004
ISIM-962-2SH2	RHR - From Anchors Thru RSDL HX 1A/1B to Pens 10, 48 & RHR-SFP Interconns	2	RHR-34-004
ISIM-968	Main Steam 1B Power Relief Valve Vent	2	MS-06-006
ISIM-969	Main Steam 1A Power Relief Valve Vent	2	MS-06-007

**Appendix A**

**ISI Drawings**

<b>ISI ISOMETRIC DRAWINGS</b>			
<b>I.D.</b>	<b>TITLE</b>	<b>CLASS</b>	<b>ANALYTICAL PART NO.</b>
ISIM-970	Feed Water From Anchored ELL to Steam Gen. 1A	2	FW-05A-001
ISIM-971	Feed Water From Anchored ELL to Steam Gen. 1B	2	FW-05A-002
ISIM-972-1SH1	Feed Water - From Anchor Near Htrs to Anchored ELLs Inside Cntmt	2	FW-05A-003
ISIM-972-1SH2	Feed Water - From Anchor Near Htrs to Anchored ELLs Inside Cntmt	2	FW-05A-003
ISIM-982	SI - From Cntmt Pen. 28N to Acmters and Cold leg Loops	1, 2	SI-33-004
ISIM-984-2SH1	Main Steam - From Anchored ELLs to HP Turbine Stop Valves	2	MS-06-003
ISIM-984-2SH2	Main Steam - From Anchored ELLs to HP Turbine Stop Valves	2	MS-06-003
ISIM-984-2SH3	Main Steam - From Anchored ELLs to HP Turbine Stop Valves	2	MS-06-003
ISIM-985-1SH1	Main Steam - From Anchored ELLs to HP Turbine Stop Valves	2	MS-06-003
ISIM-985-1SH2	Main Steam - From Anchored ELLs to HP Turbine Stop Valves	2	MS-06-003
ISIM-985-1SH3	Main Steam - From Anchored ELLs to HP Turbine Stop Valves	2	MS-06-003
ISIM-991SH1	Feed Water - From Anchor Near Htrs to Anchored ELLs Inside Cntmt	2	FW-05A-003
ISIM-991SH2	Feed Water - From Anchor Near Htrs to Anchored ELLs Inside Cntmt	2	FW-05A-003
ISIM-992-1	Safety Injection Pumps Suction Piping	2, 3	SI-33-001

Appendix A

ISI Drawings

ISI ISOMETRIC DRAWINGS			
I.D.	TITLE	CLASS	ANALYTICAL PART NO.
ISIM-993	Safety Injection Pumps Disch. Piping to Pen 28N, 28E & RWST	2	SI-33-002
ISIM-999	CC - From Anchor to RSDL HX 1B, Pens 32N, 39, 32E & BA Evap Pkg Intl	3	CC-31-009
ISIM-1369-2	RCS Cold leg Loop A and Acmt 1A Drains	1	CVC-35-148
ISIM-1460	RC-RTD Line For R. C. Loop A	1	RC-36-102
ISIM-1461	RC-RTD Line For R. C. Loop B	1	RC-36-103
ISIM-1471	CVC - From Pene. #13N to R. C. Pump Loop 1A	1, 2	CVC-35-140
ISIM-1473	CVC - From Disch. Line of Regen. HT. Exch. Anch. Point on Line to RCS Cold Leg Loop B	1, 2	CVC-35-143
ISIM-1474	CVC - From Loop B of Pump Suction to Regenerative HT. Exch.	1, 2	CVC-35-144
ISIM-1476	CVC- From Pene. #13E to R. C. Pump Loop 1B	1, 2	CVC-35-147
ISIM-1608	SI - From 16" S.I. Pump Suction Line to Valve SI-31 to 8" S.I. Pump Suction Line From Boric Acid Tanks	1	N/A
ISIM-1703	Reactor Coolant Piping Loop A	1	N/A
ISIM-1704	Reactor Coolant Piping Loop B	1	N/A

Appendix A

ISI Drawings

ISI COMPONENT DRAWINGS		
I.D.	TITLE	CLASS
M-1193	Reactor Vessel RV	1
M-1194	Reactor Vessel Nozzles and Integrally Welded Attachments	1
M-1195	Reactor Vessel Threads in Flange	1
M-1196	Reactor Vessel Stud, Nut and Washers	1
M-1197	Reactor Vessel Closure Head Conoseal Bolting and Control Rod Drive Mechanisms	1
M-1198	Reactor Vessel Closure Head Flange and Control Rod Drive Mechanism	1
M-1199	Reactor Vessel Internals	1
M-1200	Pressurizer PZR	1
M-1201	Steam Generators SG-1A and SG-1B	1
M-1203	Reactor Coolant Pump RCP-1A and RCP-1B Casing	1
M-1204	Reactor Coolant Pumps RCP-1A and RCP-1B, Flywheel & Supports	1
M-1205SH1	Reactor Coolant Pumps RCP-1A and RCP-1B Main Flange and No. 1 Seal Housing Bolting	1
M-1205SH2	Reactor Coolant Pump 1A and RCP-1B Main Flange Bolt	1
M-1206	Steam Generators SG-1A and SG-1B	2
M-1207	Residual Heat Exchangers AHRS1-1A and AHRS2-1B	2
M-1208	Regenerative Heat Exchanger ARG	2
M-1209	Letdown Heat Exchanger AHLD	2
M-1210	Charging Pump Pulsation Dampeners APD-1A, APD-1B and APD-1C	2
M-1212	Seal Water Injection Filters APSI-1A and APSI-1B	2
M-1215	Residual Heat Removal Pumps APRH1-1A and APRH2-1B	2
M-1216	Charging Pumps APCH-1A, APCH-1B, APCH-1C	2
M-1218	Component Cooling Surge Tank ATCS	3



Appendix A

ISI Drawings

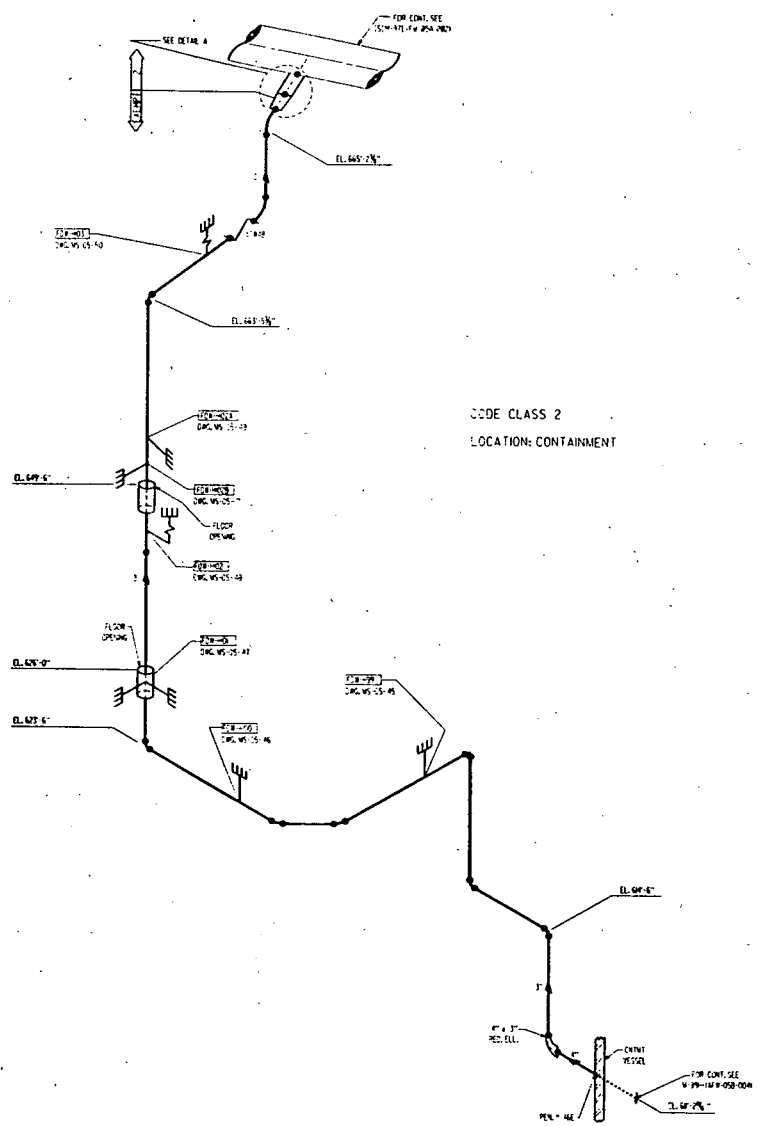
ISI COMPONENT DRAWINGS		
I.D.	TITLE	CLASS
M-1220	Service Water Pump Strainers ASSW-1A1, ASSW-1A2, ASSW-1B1, and ASSW-1B2	3
M-1221	Excess Letdown Heat Exchangers AHEL-1A & AHEL-1B	1, 3
M-1222	Component Cooling Heat Exchangers AHCC1-1A and AHCC2-1B	3
M-1224	Residual Heat Exchangers AHRS1-1A and AHRS2-1B	3
M-1225	Diesel Generator AHDG-1A and AHDG-1B Cooling Water Heat Exchangers	3
M-1226	Letdown Heat Exchanger AHLD	3
M-1229	Residual Heat Removal Pumps Shaft Seal Heat Exchangers AHRHRP-1A and AHRHRP-1B	3
M-1231	Auxiliary Feed Water Pump Turbine Driven APFT	3
M-1232	Auxiliary Feed Water Pumps Motor Driven APFM-1A and APFM-1B	3
M-1233	Containment Spray Pumps and Gland Seal Coolers APCS-1A and APCS-1B	2, 3
M-1234	Component Cooling Pumps APCC-1A and APCC-1B	3
M-1236	Service Water Pumps APSW-1A1, APSW-1A2, APSW-1B1 and APSW-1B2	3
M-1237	Safety Injection Pump Heat Exchangers (2), Lube Oil Cooler and Stuff Box Jacket AHSC-1A and AHSC-1B	3
M-1239	Containment Fan Coolers AHCF-1A, AHCF-1B, AHCF-1C and AHCF-1D	3
M-1707	Safety Injection Pumps APSI-1A and APSI-1B	2
M-1709	Control Room Air Conditioning Chiller Units 1A and 1B	3

Appendix A

ISI Drawings

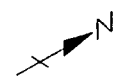
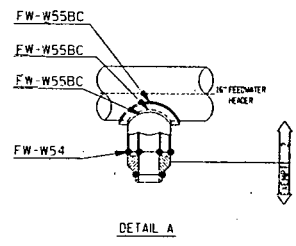
ISI FLOW DIAGRAMS		
I.D.	TITLE	CLASS
ISIXK-100-10	Reactor Coolant System	1, 2
ISIXK-100-18	Auxiliary Coolant System	1, 2
ISIXK-100-19	Auxiliary Coolant System	3
ISIXK-100-20	Auxiliary Coolant System	3
ISIXK-100-28	Safety Injection System	1, 2
ISIXK-100-29	Safety Injection System	2
ISIXK-100-35	Auxiliary Coolant System	1, 2
ISIXK-100-36	Chemical & Volume Control System	2
ISIXK-100-38	Chemical & Volume Control System	2, 3
ISIXK-100-44	Sampling System	1, 2
ISIM-202-1	Service Water System	3
ISIM-202-2	Service Water System	3
ISIM-203	Main Aux. Steam and Steam Dump	2, 3
ISIM-205	Feedwater System	2, 3
ISIM-214	Chemical Injection System	2
ISIM-217	Internal Containment Spray System	2
ISIM-218	Spent Fuel Pool Cooling and Clean-Up System	2, 3
ISIM-219	Secondary Sampling Systems	2
ISIM-350	Reactor Plant Misc. Vents, Drains & Sump Pump Piping	2
ISIM-547	Service Water System, Containment Cooling	3
ISIM-606	Air Cond. Cooling Water Piping	3

938-W53



CODE CLASS 2  
LOCATION: CONTAINMENT

PIPING			CALCULATION BLOCK		
FL. DIA.	SCH./THICKNESS (IN.)	MATERIAL	I.D.	SCH./THICKNESS (IN.)	MATERIAL
6	100/0.534	A. 105. GR. B	6PS-12	100/0.534	A. 105. GR. B



REFERENCE DWGS.  
W-99-114-B-008-000, W-99-114-B-008-001

NOTE:  
LSPRING APPLICABLE FOR 3/4 TO 1/2 IN DIA.

WISCONSIN PUBLIC SERVICE CORPORATION  
DESIGNED BY: [blank]  
DRAWN BY: [blank]  
CHECKED BY: [blank]  
DATE: [blank]

15M-866

WISCONSIN PUBLIC SERVICE CORPORATION  
DESIGNED BY: [blank]  
DRAWN BY: [blank]  
CHECKED BY: [blank]  
DATE: [blank]

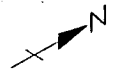
151 ISOMETRIC  
AUXILIARY FEEDWATER PIPING  
TO STEAM GENERATOR 1B

DESIGNED BY:  
WISCONSIN PUBLIC SERVICE CORP.

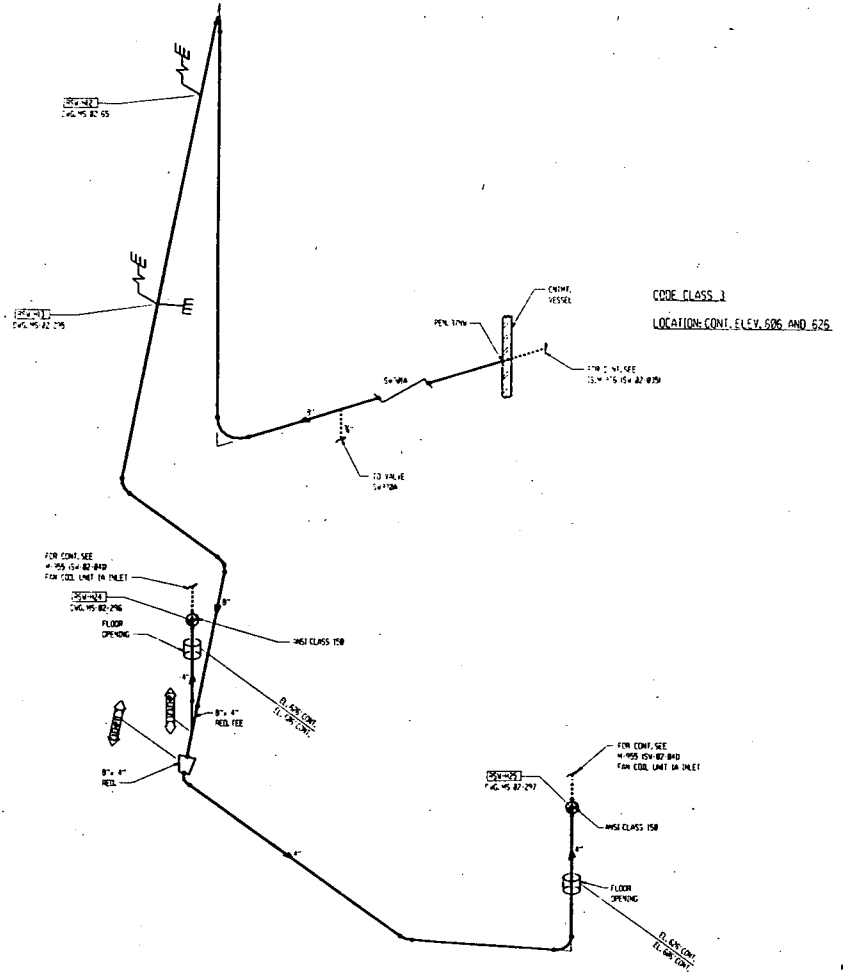
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SCALE: [blank]  
SHEET NO. [blank] OF [blank]

CADD [blank] 15M-866 1-1

ISIM-867



REVISION  
NO. 1  
DATE 12/15/87  
BY J.A. JONES  
DESCRIPTION  
ISIM-867



CODE CLASS 3  
LOCATION: CONT. ELEV. 585 AND 625

INTEGRALLY WELDED ATTACHMENT  
IDENTIFICATION NUMBER  
05M-19.2

REFERENCE DWGS.  
472, 473, 4547

- NOTES
- 1) DRAWING IS APPLICABLE FOR 300 ISM INTERVAL
  - 2) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM ALL REQUIREMENTS OF TABLES 140.2500-1 & 140.2500-1

ISIM-867

WISCONSIN PUBLIC SERVICE CORPORATION  
CALUMET PUBLIC SERVICE DIVISION  
CALUMET, WISCONSIN COUNTY, WISCONSIN

ISSUED BY  
WISCONSIN PUBLIC SERVICE CORP.  
DATE: 12/15/87

APPROVED	DATE	BY
J.A. JONES	12/15/87	J.A. JONES

CADD  
J.A. JONES  
ISIM-867  
1-0



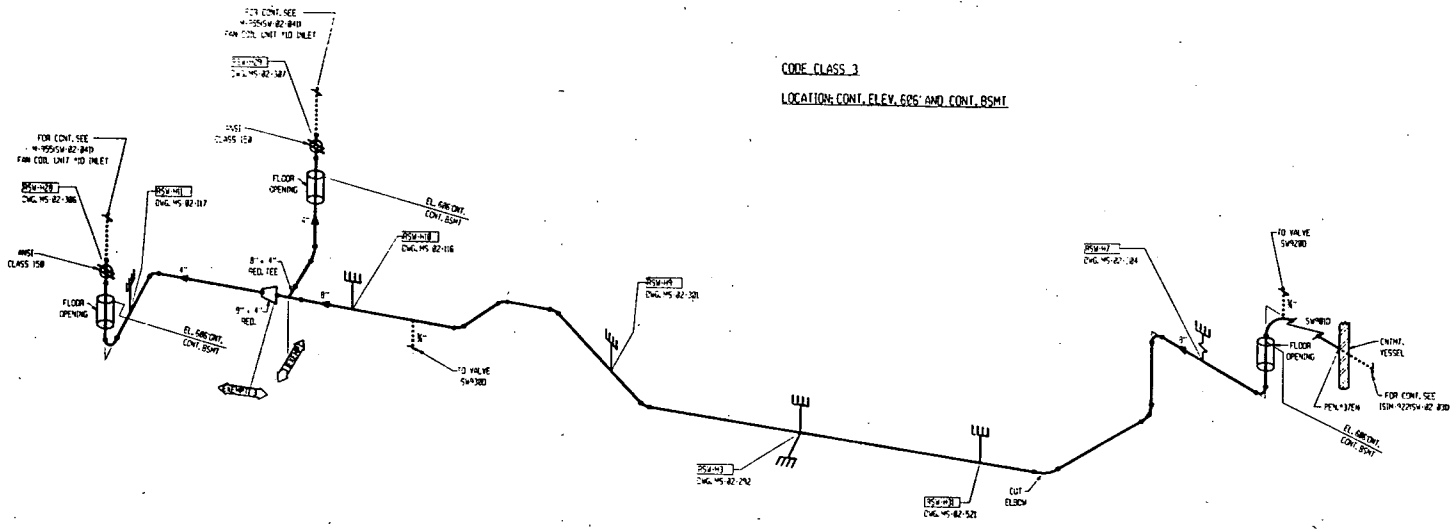
598-WISI



REVISION

1	3/13/83	ISSUE
2	8/1/83	PER ESR 92-177
3	8/1/83	APP'D. C.A.I. 11-18-83
4	8/1/83	3/13/83
5	11/17/83	REVISED WELD
6	11/17/83	FOR ESR 92-177
7	11/17/83	BY DDC 11-17-83
8	11/17-83	FOR ESR 11-17-83
9	11/17-83	APP'D. C.A.I. 11-17-83
10	12/17/83	FOR ESR 12-17/83 COMP.
11	11/30/83	SEE PER D-1
12	11/30/83	3/13/83

CODE CLASS 3  
 LOCATION: CONT. ELEV. 605 AND CONT. BSMT



0-1  
 ESR 92-177

INTEGRALLY WELDED ATTACHMENT IDENTIFICATION NUMBER  
 (RSM-43)

REFERENCE DWGS.  
 455-455-4547

NOTES

- 1) DRAWING IS APPLICABLE FOR 3RD ISI INTERNAL
- 2) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM ALL REQUIREMENTS OF TABLES 140-2500-1 & 140-2500-2

WISCONSIN PUBLIC SERVICE CORPORATION  
 GREEN BAY, WISCONSIN

ISI ISOMETRIC  
 CONTAINMENT SERVICE WATER PIPING

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 GREEN BAY, WISCONSIN

DATE	12/17/83	BY	DC
SCALE		CHECKED	
PROJECT		APPROVED	
DRAWN		DATE	

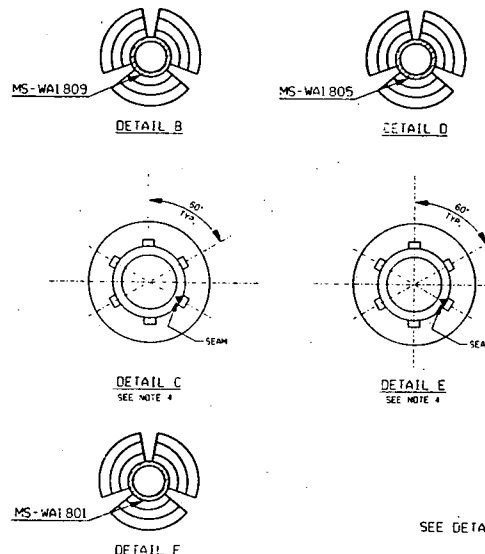
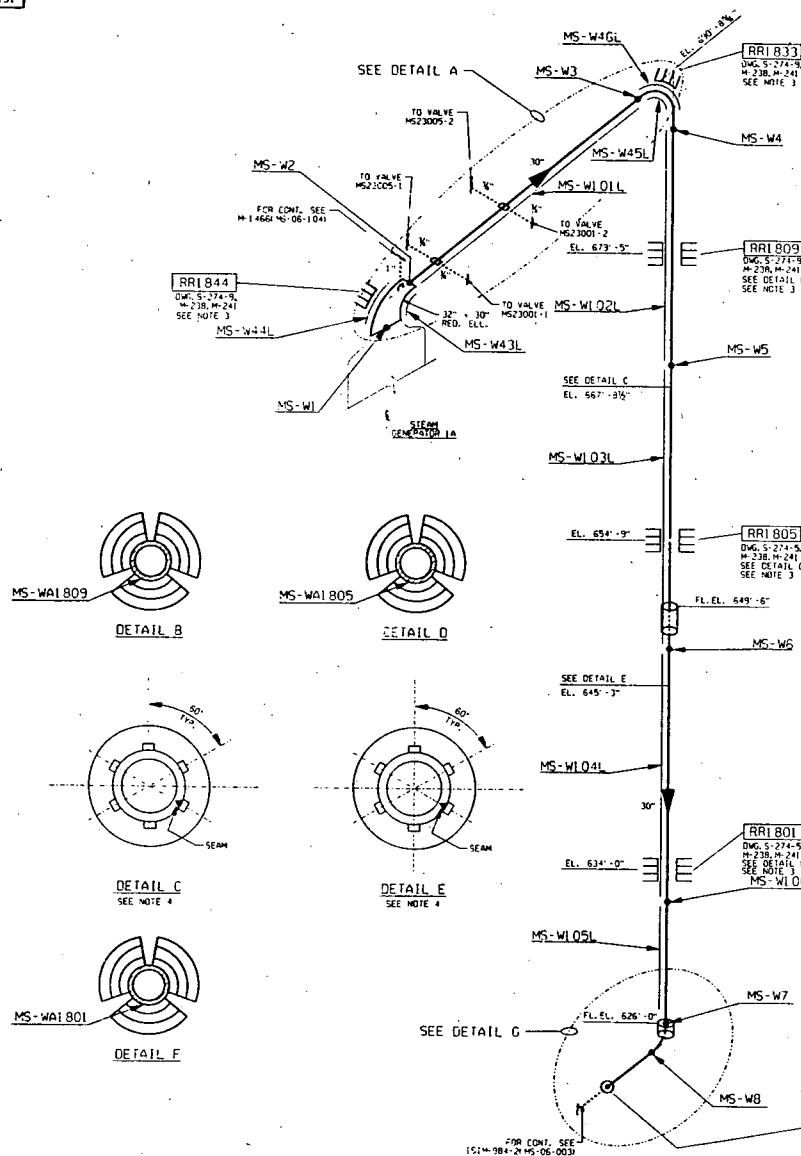
CADD

ISIM-869

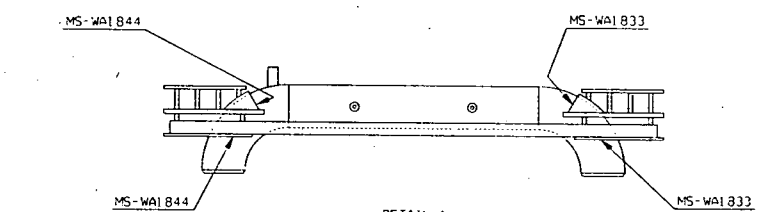
ISIM-869



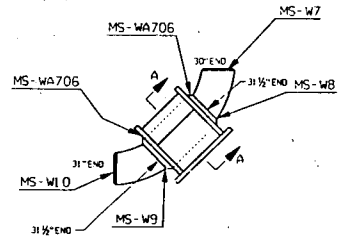
128-W151



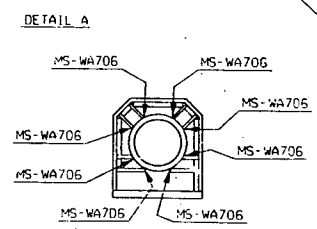
INTEGRALLY WELDED ATTACHMENT DATA	
I.D.	SCH./THICKNESS FIN.
28.706	MS-WA706
30.031	MS-WA706
30.031	MS-WA706
30.031	MS-WA706
30.031	MS-WA706
30.031	MS-WA706
30.031	MS-WA706



CODE CLASS 2  
LOCATION: CONTAINMENT



NOTES CONT.  
5. CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NDE.  
6. DRAWINGS APPLICABLE FOR 3' ISI INTERVAL.



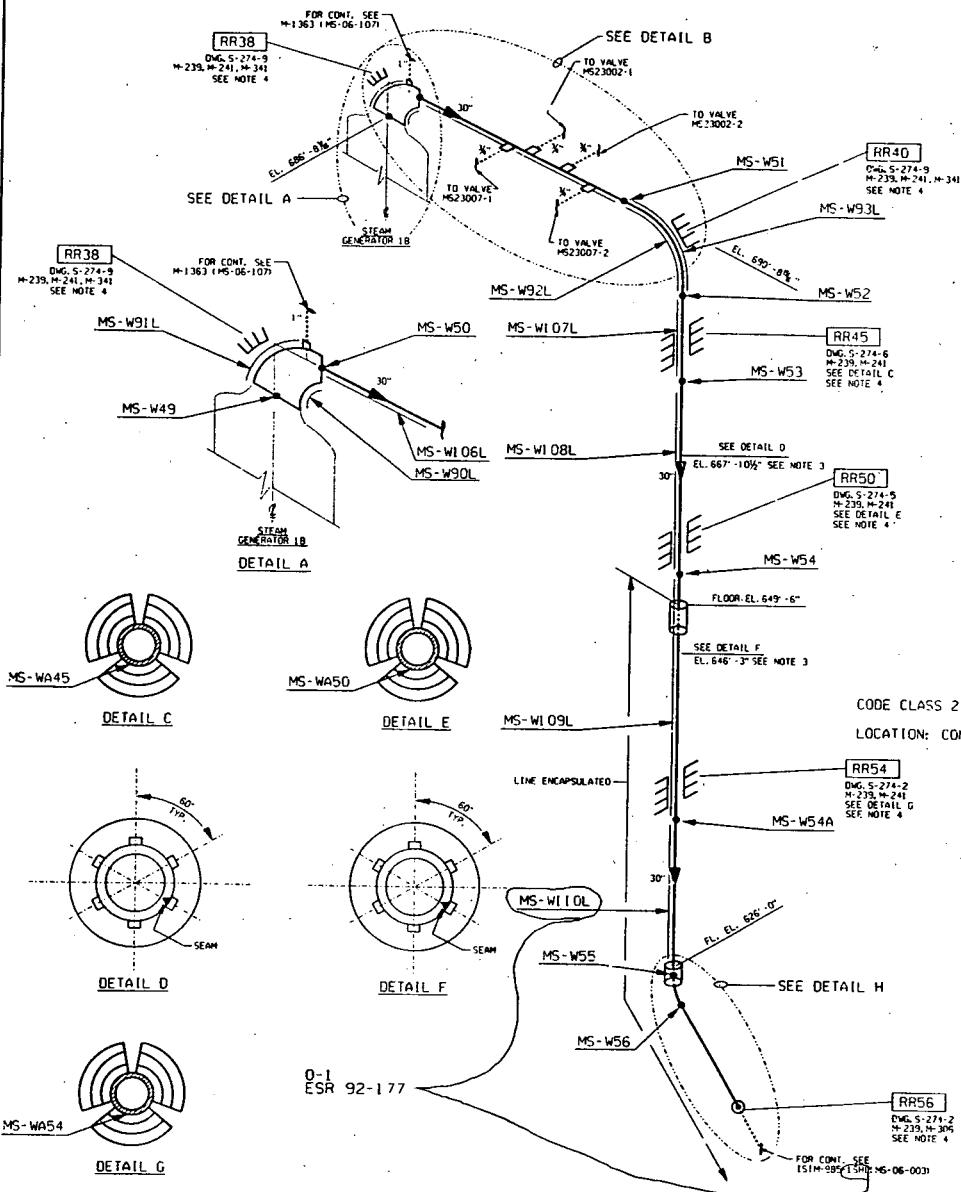
SECTION A-A  
REFERENCE DWGS.  
12-1200, MS-WA706, MS-WA706, MS-WA706, MS-WA706

- NOTES:
- LONG SEAM WELDS ALONG ENTIRE LENGTH OF SPOOL. PIPER PER ASTM A-155, KC-70, CL-1.
  - FOR MORE DETAIL ON VENTURI TUBE (FE-464) REFER TO DWG. NY-100-1375 AND 081-104X.
  - PLUPLICE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.
  - COMPONENT PROVIDES SUPPORT FOR INSULATION ONLY AND IS NOT WITHIN THE JURISDICTION OF ASME SECTION XI.

REVISION NO. DATE BY 1 11-28-78 J.S. 2 12-15-78 J.S. 3 01-25-79 J.S.	
ISM-871	
NATIONAL POWER SERVICE CORPORATION SERVICE ENGINEERING DEPT. 600 W. WISCONSIN AVENUE MILWAUKEE, WISCONSIN 53233	
IS1 ISOMETRIC MAIN STEAM STEAM GENERATOR 1A	
DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. ONE EIGHT SEVENTEEN	
CADD	ISM-871 1-1

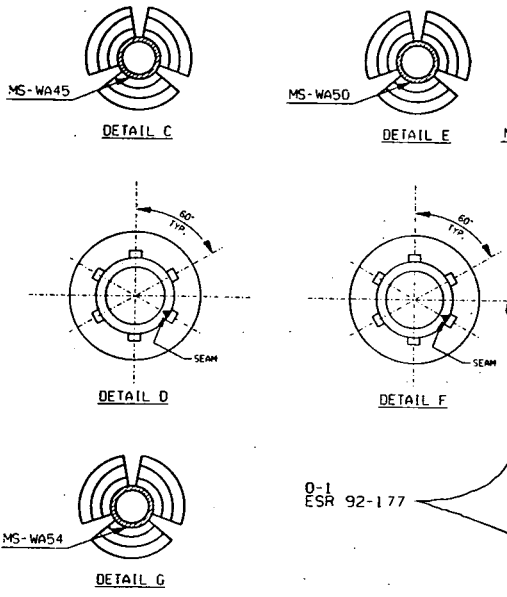
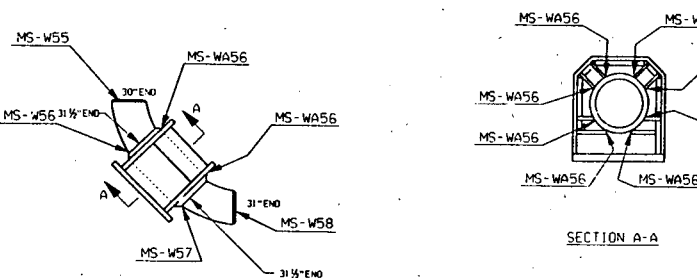
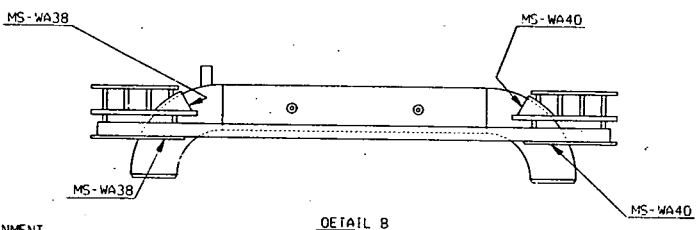


Z60-W151



PIPING			CALIBRATION BLOCK		
DIA. (IN.)	SCH./THICKNESS (IN.)	MATERIAL	I.D.	SCH./THICKNESS (IN.)	MATERIAL
24.09310 x 27.95110	N/A / 1.386	A 155 KC70 CL 1	MS-39	N/A / 2.3	SA 508 CL 2
RED. ELL.	N/A / 1.046				
18 - 30 0.0. ELL.	N/A / 1.250	A 155 KC70 CL 1	MS-37	N/A / 1.10	SA 515 CR70 CL 1
27.95110	N/A / 1.046	A 155 KC70 CL 1	MS-37	N/A / 1.10	SA 515 CR70 CL 1

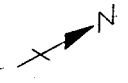
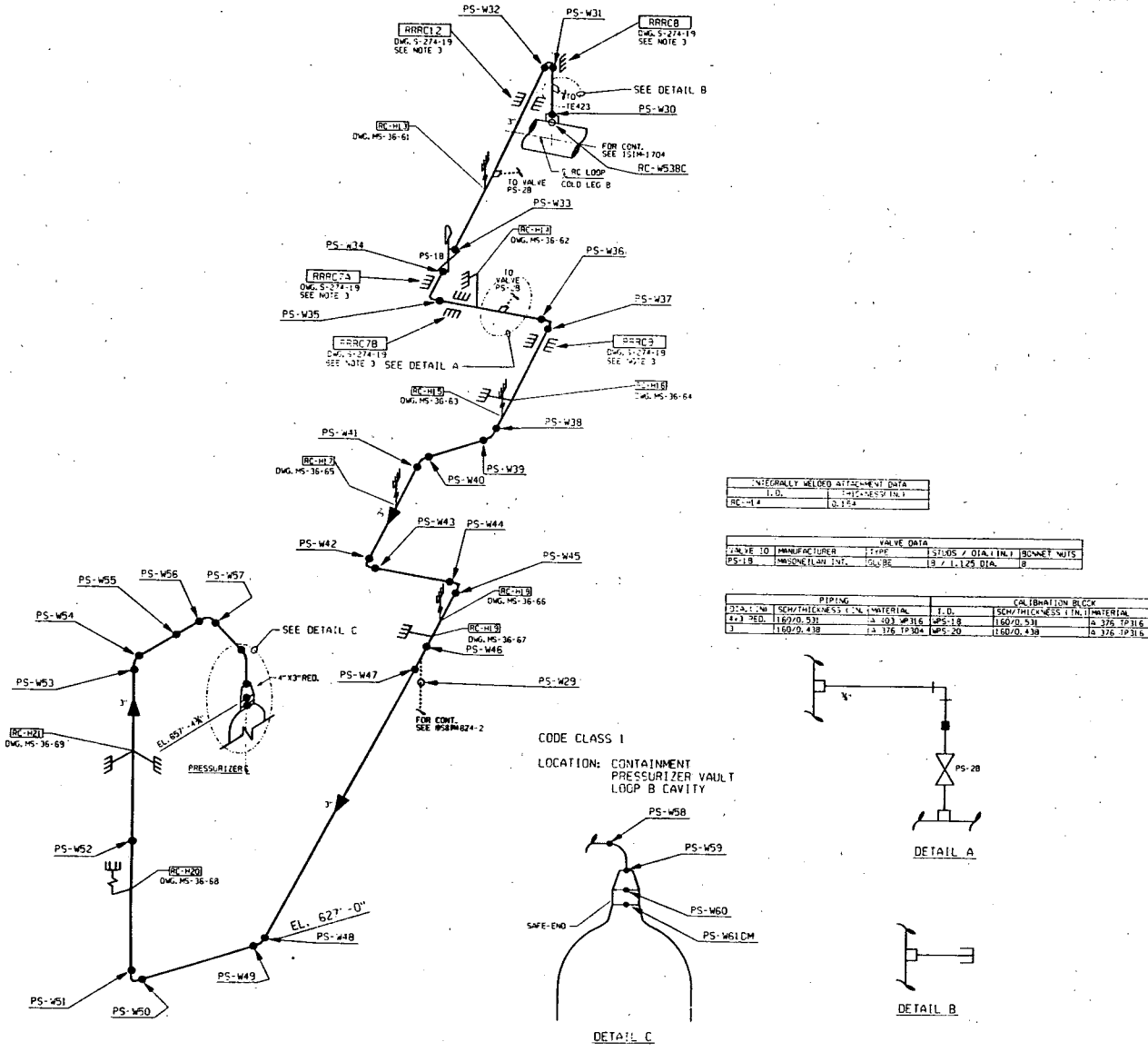
INTEGRALLY WELDED ATTACHMENT DATA	
I.D.	THICKNESS (IN.)
RR38 / MS-WA38	0.750
RR40 / MS-WA40	0.750
RR45 / MS-WA45	1.25
RR50 / MS-WA50	1.25
RR54 / MS-WA54	1.25
RR56 / MS-WA56	1.0.250



CODE CLASS 2  
LOCATION: CONTAINMENT

- REFERENCE DWGS.  
 W-1A, W-1B, W-1C, W-1D, W-1E, W-1F, W-1G, W-1H, W-1I, W-1J, W-1K, W-1L, W-1M, W-1N, W-1O, W-1P, W-1Q, W-1R, W-1S, W-1T, W-1U, W-1V, W-1W, W-1X, W-1Y, W-1Z, W-2A, W-2B, W-2C, W-2D, W-2E, W-2F, W-2G, W-2H, W-2I, W-2J, W-2K, W-2L, W-2M, W-2N, W-2O, W-2P, W-2Q, W-2R, W-2S, W-2T, W-2U, W-2V, W-2W, W-2X, W-2Y, W-2Z, W-3A, W-3B, W-3C, W-3D, W-3E, W-3F, W-3G, W-3H, W-3I, W-3J, W-3K, W-3L, W-3M, W-3N, W-3O, W-3P, W-3Q, W-3R, W-3S, W-3T, W-3U, W-3V, W-3W, W-3X, W-3Y, W-3Z, W-4A, W-4B, W-4C, W-4D, W-4E, W-4F, W-4G, W-4H, W-4I, W-4J, W-4K, W-4L, W-4M, W-4N, W-4O, W-4P, W-4Q, W-4R, W-4S, W-4T, W-4U, W-4V, W-4W, W-4X, W-4Y, W-4Z, W-5A, W-5B, W-5C, W-5D, W-5E, W-5F, W-5G, W-5H, W-5I, W-5J, W-5K, W-5L, W-5M, W-5N, W-5O, W-5P, W-5Q, W-5R, W-5S, W-5T, W-5U, W-5V, W-5W, W-5X, W-5Y, W-5Z, W-6A, W-6B, W-6C, W-6D, W-6E, W-6F, W-6G, W-6H, W-6I, W-6J, W-6K, W-6L, W-6M, W-6N, W-6O, W-6P, W-6Q, W-6R, W-6S, W-6T, W-6U, W-6V, W-6W, W-6X, W-6Y, W-6Z, W-7A, W-7B, W-7C, W-7D, W-7E, W-7F, W-7G, W-7H, W-7I, W-7J, 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1-918-MIS1



INTEGRALLY WELDED ATTACHMENT DATA

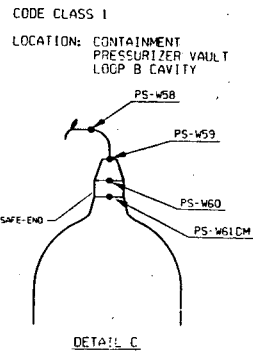
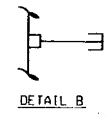
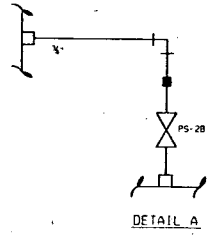
I.D.	THICKNESS (IN.)
RC-14	0.154

VALVE DATA

VALVE TO MANUFACTURER	TYPE	STUDES / DIAL IN / SONNET NITS
PS-18	MANOMETRIC INT. GLOBE	19 / 1.125 DIA. B

PIPING

DIA. (IN.)	SCH. THICKNESS (IN.)	MATERIAL	I.D.	CALIBRATION BLOCK
4x3 RED	160/0.531	A 100 TP316	PS-18	160/0.531
3	160/0.438	A 125 TP304	PS-20	160/0.438



- NOTES:
1. DRAWING APPLICABLE FOR 3-d ISI INTERVAL.
  2. CLASS I PIPING 1" DIA. AND LESS IS EXEMPT FROM MDE.
  3. RUPTURE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.

REFERENCE DWGS.  
 \*161-64, \*161-65, \*161-66, \*161-67, \*161-68, \*161-69

REVISION

FILED FIRST ISSUE
BY WPS
PER ESR 72-177
APP'D: CAL 09-28-93
FILE NO: WPS 10-12-93

ISIM-874-1

WISCONSIN PUBLIC SERVICE CORPORATION  
 WEAUWATONUCLEAR POWER PLANT  
 CARLTON, VERMILION COUNTY, WISCONSIN

**ISI ISOMETRIC**  
**3" R.C. TO PRESSURIZER**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 GREEN BAY, WISCONSIN

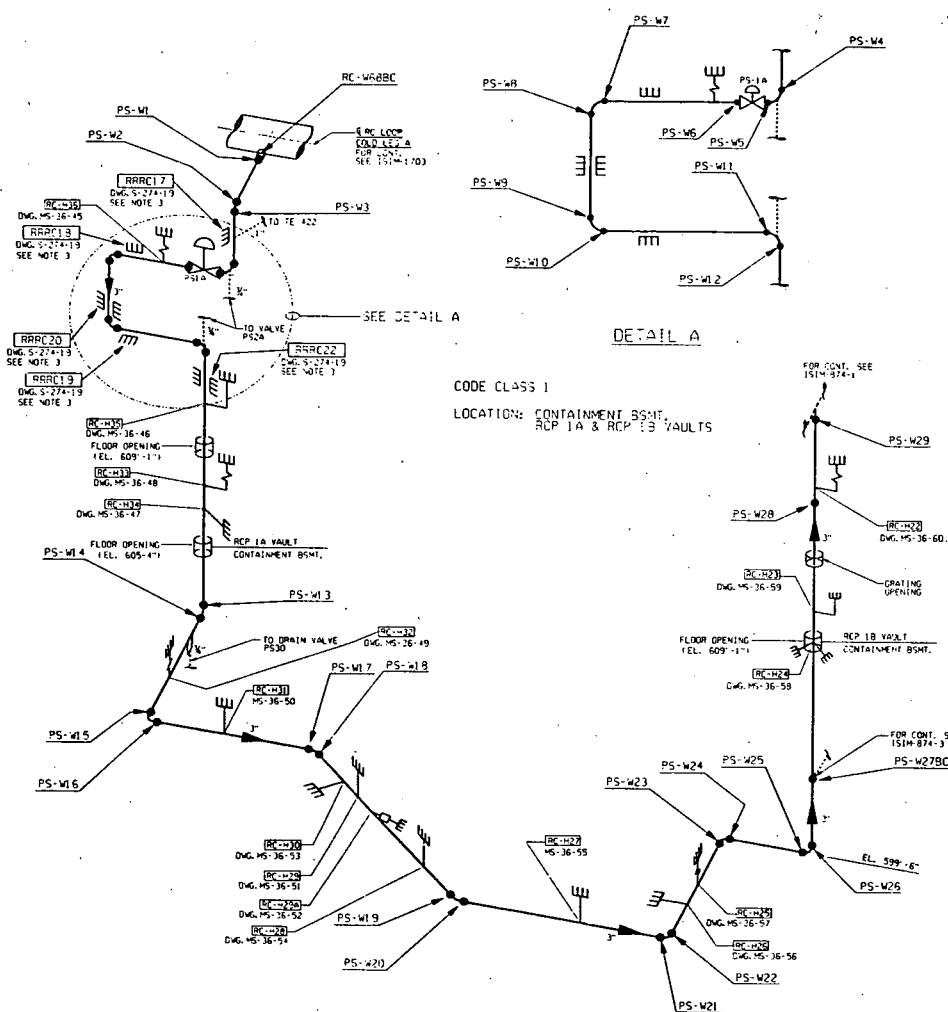
DESIGNED	BY	DATE	APPROVED	DATE
	C. A. TAYLOR			
CHECKED	BY	DATE	PROJECT MANAGER	
	S. POWELL			
DRAWN	BY	DATE	DWG. NO.	REV.
	BCY		ISIM-874-1	(-)

CADD

Z-128-1151



REVISIONS  
 FILED FROM: 1552E  
 BY: WPS  
 DATE: FEB 20 1974  
 CHECKED: GRI 04-28-73  
 FILED: WPS 10-12-73



DETAIL A

CODE CLASS 1  
 LOCATION: CONTAINMENT BASIN  
 REP 1A & REP 1B VAULTS

MANUFACTURED ATTACHMENT DATA

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	1.00	1.00	INCHES IN. 1
2	1.00	1.00	INCHES IN. 1
3	1.00	1.00	INCHES IN. 1
4	1.00	1.00	INCHES IN. 1
5	1.00	1.00	INCHES IN. 1
6	1.00	1.00	INCHES IN. 1
7	1.00	1.00	INCHES IN. 1
8	1.00	1.00	INCHES IN. 1
9	1.00	1.00	INCHES IN. 1
10	1.00	1.00	INCHES IN. 1

VALUE DATA

ITEM NO.	MANUFACTURER	TYPE	SIZE	DRILLING	STREET	NOTES
1	WISCONSIN	1.5000.3M	1.5000.3M	1.5000.3M	1.5000.3M	1.5000.3M

STRING

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	1.5000.3M	1.5000.3M	1.5000.3M

- NOTES:
1. DRAWING APPLICABLE FOR 3'-0" ISI INTERVAL.
  2. CLASS 1 PIPING IS DIA. 2.0000.3M IS EXEMPT FROM NEE.
  3. PIPING RESTRAINTS ARE NOT IN THE JURISDICTION OF THIS SECTION VI.

REFERENCE DWGS.  
 151M-874-1

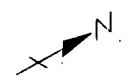
WISCONSIN PUBLIC SERVICE CORPORATION  
 Kewaunee Nuclear Power Plant  
 CALTON, KEWAUNEE COUNTY, WISCONSIN

ISI ISOMETRIC  
 3' R.C. TO PRESSURIZER

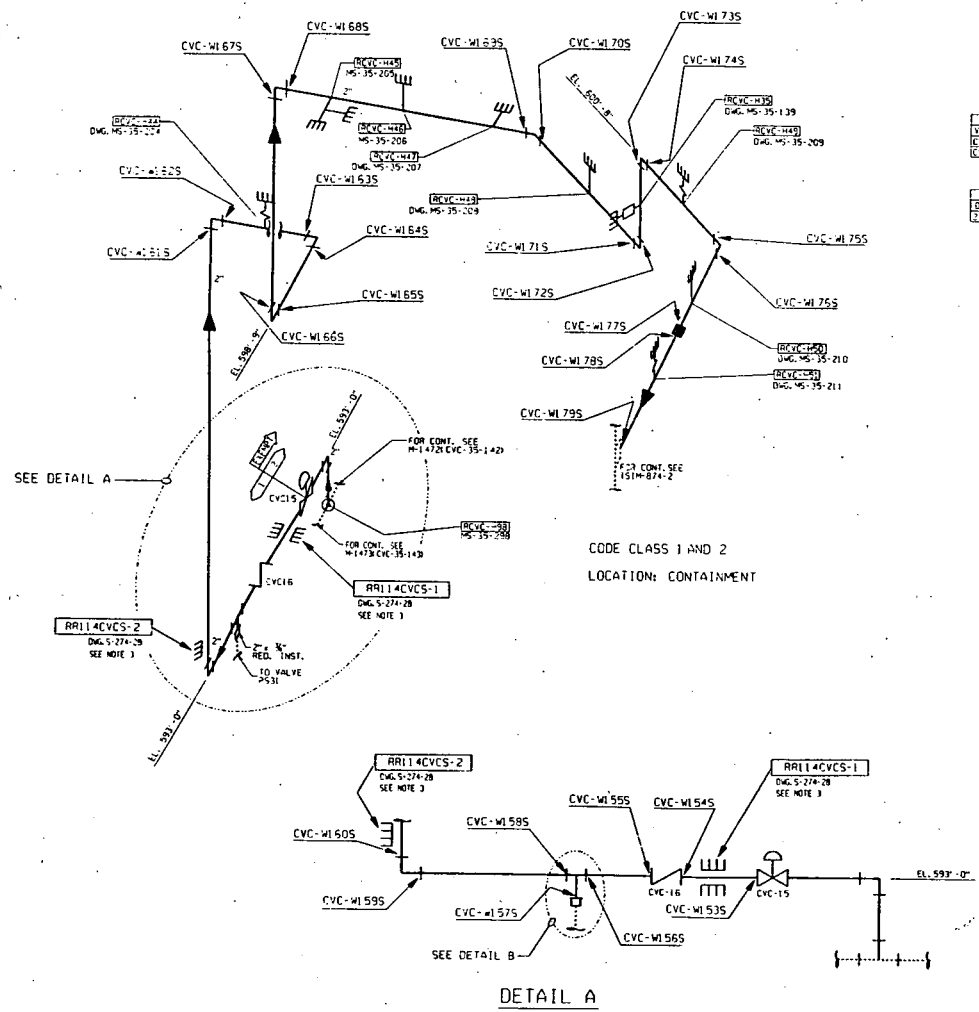
DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 GREEN BAY, WISCONSIN

NO.	DATE	BY	CHKD.	APP'D.
1	10/11/73	WPS	WPS	WPS

CADD 151M-874-2 (-)



REVISION	
FILMED FIRST ISSUE	
REV. NO. 1	
APP. DATE 07-28-83	
FILMED 01-05-10-12-83	



VALVE DATA			
VALVE ID NUMBER	TYPE	STATUS	DIAGNOSTIC TAGS
CVC-18	RELIEF VALVE	IN	INSTRUMENT
CVC-15	RELIEF VALVE	IN	INSTRUMENT

PIPE		CALIBRATION BLOCK	
DIAMETER	THICKNESS	DIAMETER	THICKNESS
1.5000 IN.	0.175 IN.	1.5000 IN.	0.175 IN.

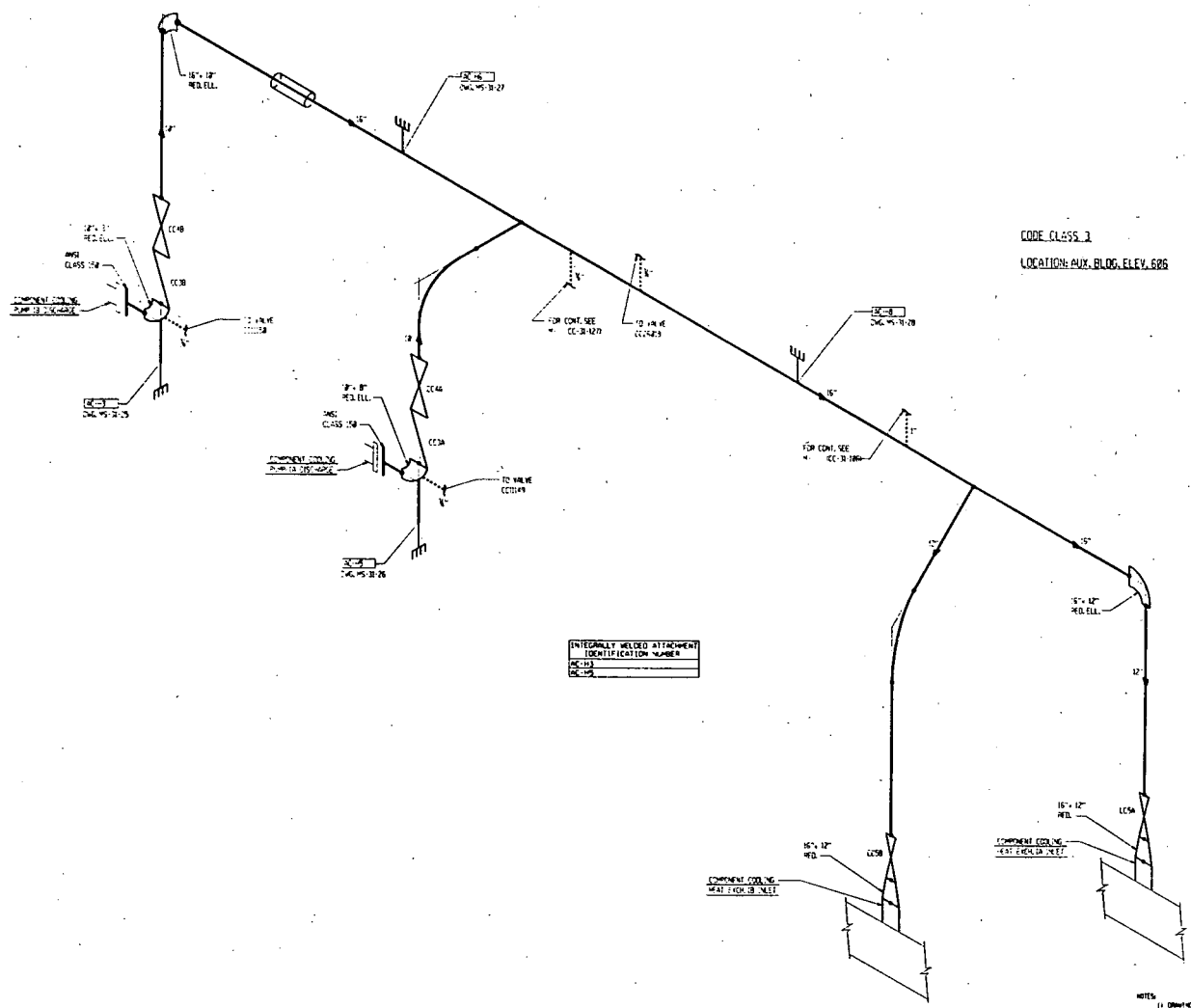
CODE CLASS 1 AND 2  
LOCATION: CONTAINMENT

- NOTES:
1. FORWARD APPLICABLE FOR 3-3 ISI INTERVAL.
  2. CLASS 1 PIPING IN DIA. AND LESS IS EXEMPT FROM NDE.
  3. PLATE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.

REFERENCE DWGS.  
WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Power Plant CARLTON, KEWAUNEE COUNTY, WISCONSIN			
<b>ISI ISOMETRIC 2" CVC TO PRESSURIZER RC</b>			
DESIGNED BY <b>GREEN BAY, WISCONSIN</b>			
DESIGNED	DATE	BY	REV.
		J. A. YOVES	
CHECKED	DATE	BY	REV.
SCALE	DATE	BY	REV.
CADD		DATE	REV.
		01/05/83	(-)

848-WIS1



CODE CLASS 3  
 LOCATION: AUX. BLDG. ELEV. 626

INTEGRALLY WELDED ATTACHMENT  
 IDENTIFICATION NUMBER  
 HX 1A  
 CC 1A

REFERENCE DWGS.  
 102, 103, 104, 105

NOTES:  
 1) DRAWING IS APPLICABLE FOR 100 PSI INTERNAL  
 2) CLASS 3 PIPING IS AND LESS TO ENERGY FROM 1A-3  
 REQUIREMENTS OF TABLE 140.2004 & 140.2004.1

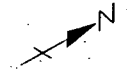
REVISION  
 1. REVISED PER EOP 02 11  
 APPROVED BY 02 11  
 12/14/02 02 11 11

ISIM-875

WISCONSIN PUBLIC SERVICE CORPORATION REGULAR SERVICE POWER PLANT CANTON, WISCONSIN COUNTY, WISCONSIN	
IS1 ISOMETRIC AUX. COOLING FROM CC PUMPS 1A & 1B TO CC HT EXCH'S 1A & 1B INLET	
DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. CANTON, WISCONSIN	
DATE	NO.
BY	CHKD
APP'D	REV'D
C.A. TUMES	ISIM-875

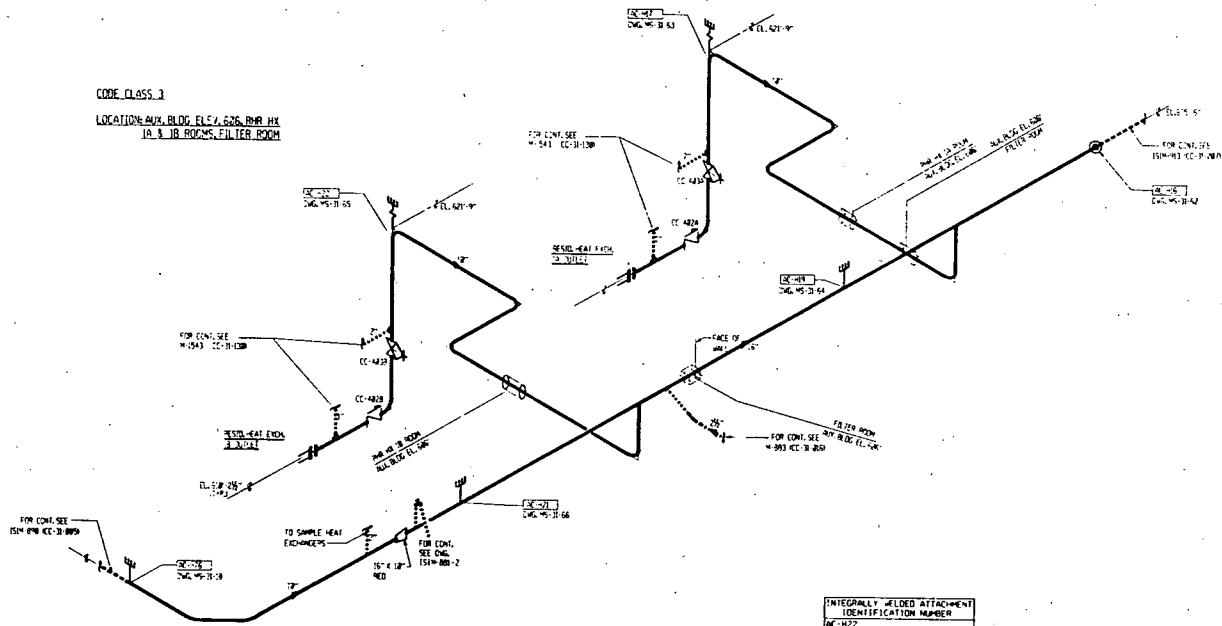
C800

1-188-WIS



CODE CLASS 3

LOCATION: AUX. BLDG. ELEV. 626. DWR. HK  
1A & 1B ROOMS, FILTER ROOM



INTEGRALLY WELDED ATTACHMENT IDENTIFICATION NUMBER
CC-422
CC-423
CC-424
CC-425

REFERENCE DWGS.  
+25 1 +25

NOTES  
1) DRAWING IS APPLICABLE FOR 300 ISS INTERNAL  
2) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM 11-3 REQUIREMENTS OF TABLES 140-2500-1 & 140-2500-2

REVISION  
15-MAY-1984  
BY: J. J. J. J.  
CHECKED: J. J. J. J.  
DATE: 05-15-84

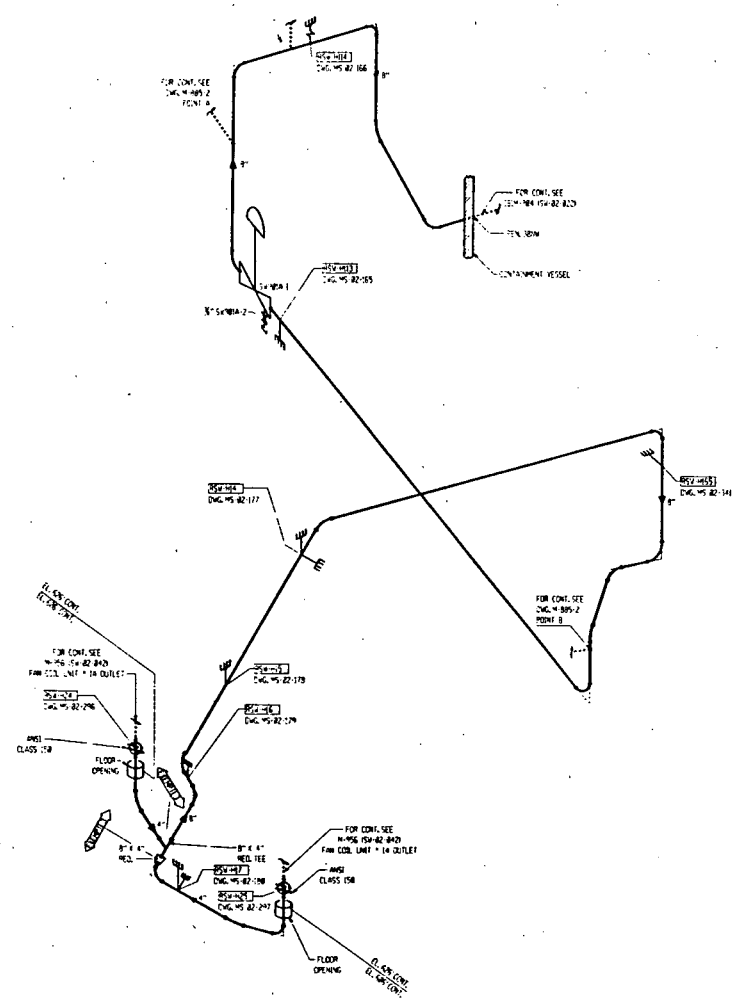
ISIM-881-1

WISCONSIN PUBLIC SERVICE CORPORATION 200 NORTH KANAWHA AVENUE MILWAUKEE, WISCONSIN 53234			
IS1 ISOMETRIC CC-RSOL HK 1A, 1B, 8A EVAP PKG OUTS & PENS 33N, 40 33E TO SURGE TX			
WISCONSIN PUBLIC SERVICE CORP. DRAWN BY: J. J. J. J.			
DATE	BY	CHKD	APPV
05-15-84	J. J. J. J.	J. J. J. J.	J. J. J. J.
SCALE	SHEET NO.		TOTAL SHEETS
	1		1
APPROVED	DATE		BY
C.A. TOMES	05-15-84		J. J. J. J.

CADD ISIM-881-1 1-1

1-588-1151

SECTION  
FURNISHING TITLE  
REV. DATE  
APP'D. DATE  
SCALE



CODE CLASS 3  
LOCATION: CONT. ELEV. 586 AND 526

INTEGRALLY NEEDED ATTACHMENT IDENTIFICATION NUMBER
DWG. NO. 113
DWG. NO. 8
DWG. NO. 145
DWG. NO. 116

REFERENCE DWGS.  
4756, 4757, 4758, 4757

NOTES  
1) DRAWING IS APPLICABLE FOR 300 ISL INTERNAL  
2) CLASS 3 PIPING 1" AND LESS IS EXEMPT FROM ALL REQUIREMENTS OF TABLES 140-2500-1 & 140-2500-1

151M-885-1

WISCONSIN PUBLIC SERVICE CORPORATION 225 FRENCH AVENUE, MADISON, WISCONSIN	
151 ISOMETRIC SERVICE WATER FROM FCU 1A TO SHROUD COOLING COIL 1A TO PENE. 38NW	
DRAWN BY WISCONSIN PUBLIC SERVICE CORP. OPER. DIV. PROJECTS	
DATE	NO.
APP'D.	DWG. NO.
C.A. ZOMES	151M-885-1

CADD

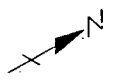
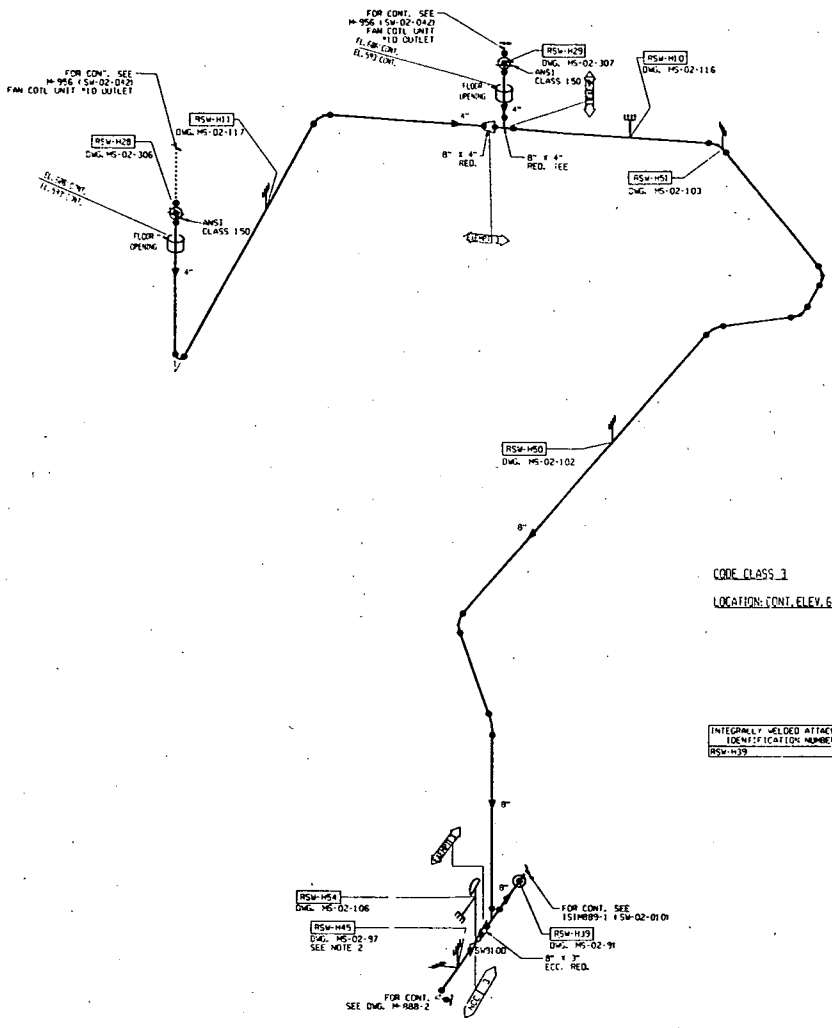
1-3





1-888-MIS1

REVISION  
DRAWN FIRST ISSUE  
BY W.P. 15M-02-11  
CHECKED BY G.A.T.  
(15M-02-11-1)



CODE CLASS 3  
 LOCATION: CONT. ELEV. 656 AND 593

INTEGRALLY WELDED ATTACHMENT  
 IDENTIFICATION NUMBER  
 RSW-H39

REFERENCE DWGS.  
 15M-02-103, 15M-02-104

FOR CONT. SEE  
 15M-02-106  
 RSW-H45  
 DWG. 15M-02-97  
 SEE NOTE 2

FOR CONT. SEE  
 15M-02-010  
 RSW-H33  
 DWG. 15M-02-91  
 ECC. RED.

FOR CONT. SEE  
 DWG. M-958-2

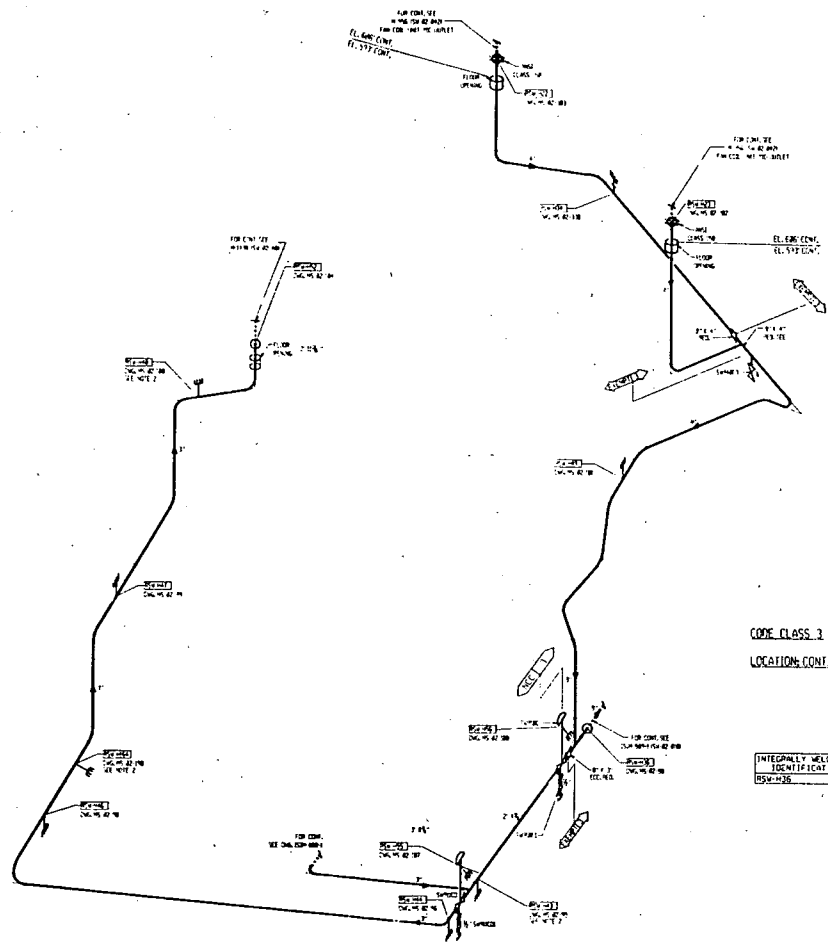
- NOTES
- 1) DRAWING IS APPLICABLE FOR 3RD ISS. INTERNAL
  - 2) NON-FUNCTIONAL SUPPORT
  - 3) CLASS 3 PIPING 8" AND LESS IS EXEMPT FROM 6E-3 REQUIREMENTS OF TABLES 140-2500-1 & 140-2500-2

15IM-888-1

WISCONSIN PUBLIC SERVICE CORPORATION A DIVISION OF WISCONSIN ENERGY SERVICES CORPORATION	
151 ISOMETRIC SERVICE WATER FROM FEU IC & 10 TO SHROUD COOLING UNIT 1C/10 AND INTERMEDIATE ANCHORS	
DRAWN BY WISCONSIN PUBLIC SERVICE CORP.	
DATE	BY
11/15/02	W.P.
CHECKED BY	DATE
G.A.T.	11/15/02
APPROVED BY	DATE
C.A. JONES	11/15/02
CADD	15IM-888-1 1-1

2-888-WIS

REVISION  
PLUMBING FIRST ISSUE  
BY: M.S. PER 158 12-17  
CHECKED: C.J. 10-8-93  
DATE: 10/15/93



CODE CLASS 3  
LOCATION: CONT. ELEV. 606 AND 593

INTEGRALLY WELDED ATTACHMENT  
IDENTIFICATION NUMBER  
ISXXXXXXXX

REFERENCE DWGS.  
WPL 202, 203, 204

- NOTES:
- 1) DRAWING IS APPLICABLE FOR 300 ISS INTERNAL
  - 2) NON-FUNCTIONAL SUPPORT
  - 3) CLASS 3 PIPING 4\"/>

15IM-888-2

WISCONSIN PUBLIC SERVICE CORPORATION  
 SERVICE WATER FROM FCU 1C & 1D TO SHROUD  
 COOLING UNIT 1C/1D AND INTERMEDIATE ANCHORS

DESIGNED BY: [ ]  
 CHECKED BY: [ ]  
 DATE: [ ]

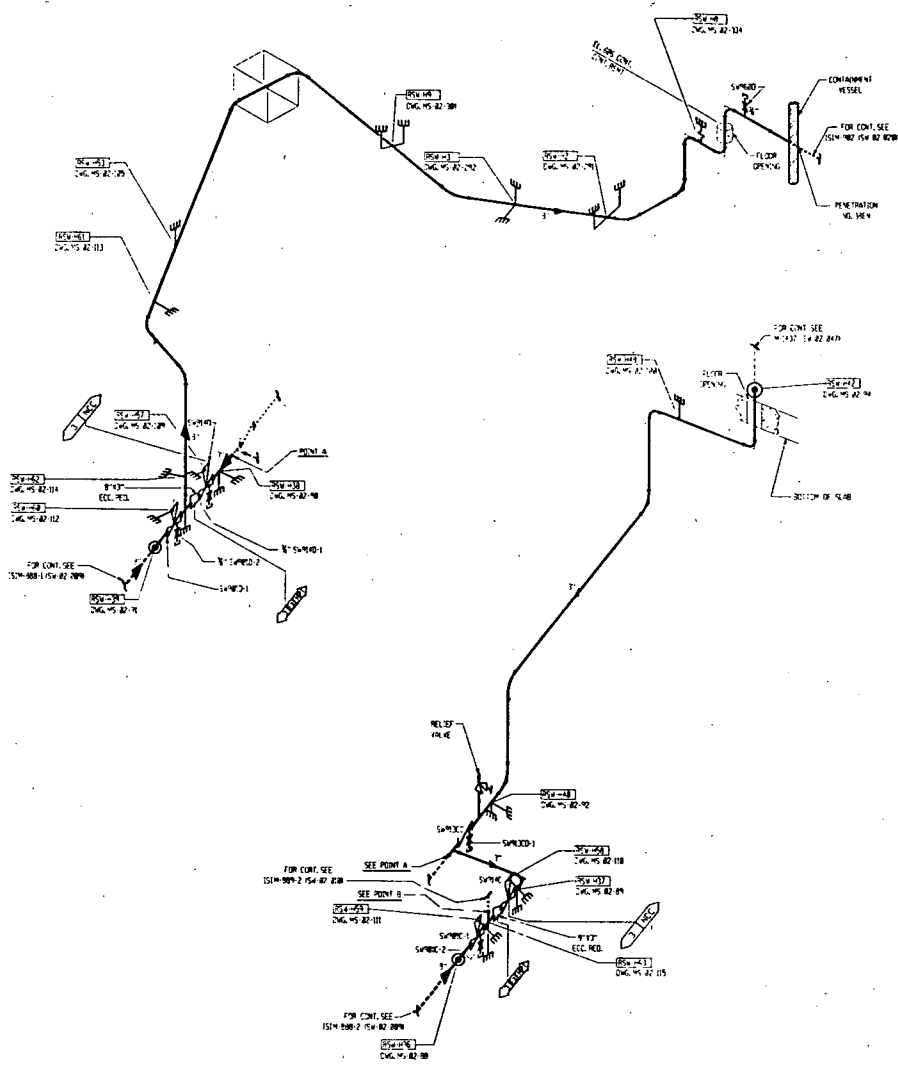
DATE	BY	REV.

PROJECT NO. 15IM-888-2

CADD

15IM-888-2 (1)

1-688-W151



REVISION  
 1. REVISED FOR ISSUE  
 2. REVISED FOR ISSUE  
 3. REVISED FOR ISSUE  
 4. REVISED FOR ISSUE  
 5. REVISED FOR ISSUE

CODE CLASS 3  
 LOCATION: CONT. ELEV. 685', CONT. SSMT

INTEGRALLY WELDED ATTACHMENT IDENTIFICATION NUMBER
ISW-101
ISW-102
ISW-103
ISW-104
ISW-105
ISW-106
ISW-107
ISW-108
ISW-109
ISW-110
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ISW-196
ISW-197
ISW-198
ISW-199
ISW-200

REFERENCE DWGS.  
 1. ISM-889-1

NOTES:  
 1) DRAWING IS APPLICABLE FOR 300 ISS INTERNAL  
 2) CLASS 3 PIPING, 4" AND LESS IS EXEMPT FROM THE REQUIREMENTS OF TABLES 140-2001 & 140-2002

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION

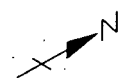
151 ISOMETRIC  
 SERVICE WATER FROM FCU 1C & 1D & SHROUD  
 COOLING COIL 1C, 1D TO PENG, 30EN & 30ES

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**

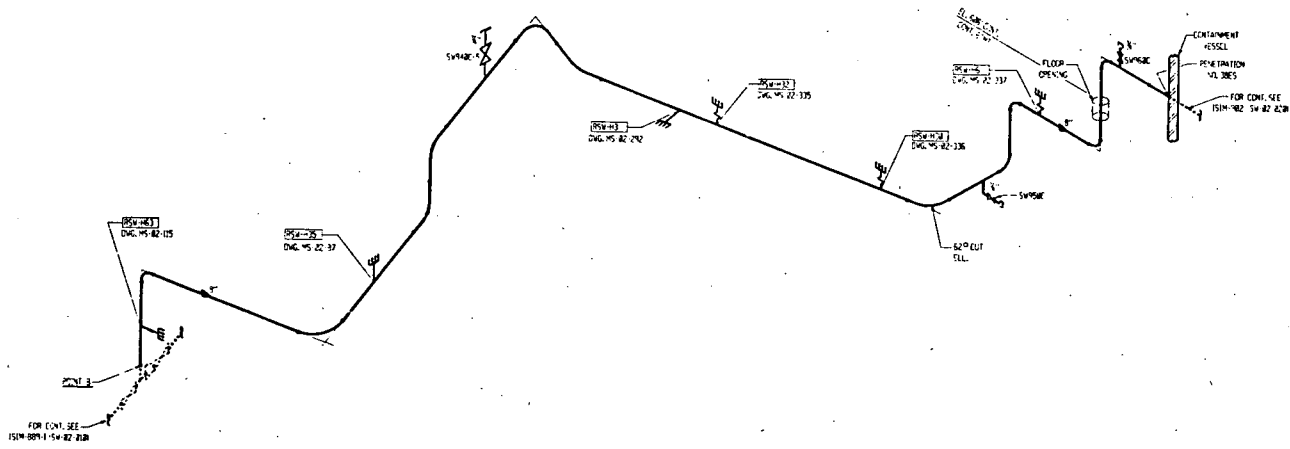
DATE: 11/11/11  
 DRAWN BY: JES  
 CHECKED BY: JES  
 APPROVED BY: JES

CADD: C.K. TOWES  
 151M-889-1 1-4

2-689-WIS1



CODE CLASS 3  
LOCATION: CONT. ELEV. 606, CONT. BSMT



0-1  
ESR 92-177

INTEGRALLY WELDED ATTACHMENT IDENTIFICATION NUMBER
PSM-113
PSM-116
PSM-117

REFERENCE DWGS.  
M54, M57, M57, M57

NOTES:  
1) DRAWING IS APPLICABLE FOR 300 USE INTERNAL  
2) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM 1E-3 REQUIREMENTS OF TABLES 140-2001-1 & 140-2001-2

REVISION	
1	REVISED FROM 1E-3
2	REVISED FROM 1E-3
3	REVISED FROM 1E-3
4	REVISED FROM 1E-3
5	REVISED FROM 1E-3
6	REVISED FROM 1E-3
7	REVISED FROM 1E-3
8	REVISED FROM 1E-3
9	REVISED FROM 1E-3
10	REVISED FROM 1E-3
11	REVISED FROM 1E-3
12	REVISED FROM 1E-3
13	REVISED FROM 1E-3
14	REVISED FROM 1E-3
15	REVISED FROM 1E-3
16	REVISED FROM 1E-3
17	REVISED FROM 1E-3
18	REVISED FROM 1E-3
19	REVISED FROM 1E-3
20	REVISED FROM 1E-3

1S1M-889-2

WISCONSIN PUBLIC SERVICE CORPORATION  
REGULATORY AND PLANT  
CONSTRUCTION CONTRACT DIVISION

1S1 ISOMETRIC  
SERVICE WATER FROM FCU IC, 10 & SHROUD  
COOLING COIL IC, 10 TO PHE, 30EN & 30ES

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.

DATE: 11-20-83

DATE	NO.	BY	CHKD.
11-20-83	1	...	...
11-20-83	2	...	...
11-20-83	3	...	...
11-20-83	4	...	...
11-20-83	5	...	...
11-20-83	6	...	...
11-20-83	7	...	...
11-20-83	8	...	...
11-20-83	9	...	...
11-20-83	10	...	...
11-20-83	11	...	...
11-20-83	12	...	...
11-20-83	13	...	...
11-20-83	14	...	...
11-20-83	15	...	...
11-20-83	16	...	...
11-20-83	17	...	...
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11-20-83	19	...	...
11-20-83	20	...	...

APPROVED: C. J. TOMES

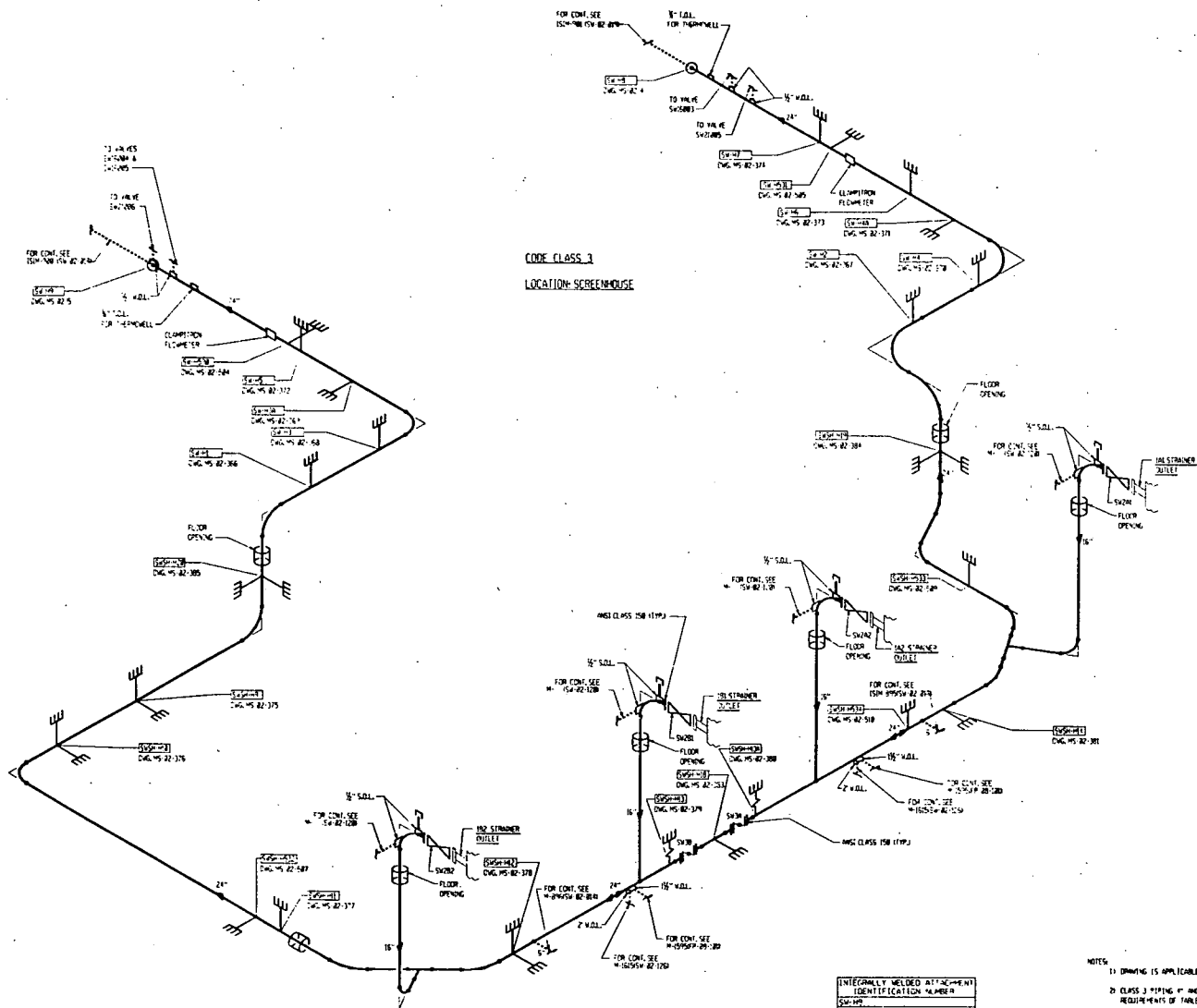
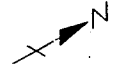
CADD 1S1M-889-2 4







REVISION  
1. 11/10/83 FIRST ISSUE  
2. 11/10/83 PER 154-22-117  
3. 11/10/83 PER 154-22-117  
4. 11/10/83 PER 154-22-117



CODE CLASS 3  
LOCATION: SCREENHOUSE

REFERENCE DWGS.  
154-22-117, 154-22-118, 154-22-119, 154-22-120, 154-22-121, 154-22-122, 154-22-123, 154-22-124, 154-22-125, 154-22-126, 154-22-127, 154-22-128, 154-22-129, 154-22-130, 154-22-131, 154-22-132, 154-22-133, 154-22-134, 154-22-135, 154-22-136, 154-22-137, 154-22-138, 154-22-139, 154-22-140, 154-22-141, 154-22-142, 154-22-143, 154-22-144, 154-22-145, 154-22-146, 154-22-147, 154-22-148, 154-22-149, 154-22-150, 154-22-151, 154-22-152, 154-22-153, 154-22-154, 154-22-155, 154-22-156, 154-22-157, 154-22-158, 154-22-159, 154-22-160, 154-22-161, 154-22-162, 154-22-163, 154-22-164, 154-22-165, 154-22-166, 154-22-167, 154-22-168, 154-22-169, 154-22-170, 154-22-171, 154-22-172, 154-22-173, 154-22-174, 154-22-175, 154-22-176, 154-22-177, 154-22-178, 154-22-179, 154-22-180, 154-22-181, 154-22-182, 154-22-183, 154-22-184, 154-22-185, 154-22-186, 154-22-187, 154-22-188, 154-22-189, 154-22-190, 154-22-191, 154-22-192, 154-22-193, 154-22-194, 154-22-195, 154-22-196, 154-22-197, 154-22-198, 154-22-199, 154-22-200

- NOTES
- 1) DRAWING IS APPLICABLE FOR 300 IS1 INTERNAL
  - 2) CLASS 3 TYPING IF AND LESS IS CHECK FROM IT-3 REQUIREMENTS OF TABLES 140-200-1 & 140-200-2

INTEGRALLY WELDED ATTACHMENT  
IDENTIFICATION NUMBER  
DATE  
BY  
SM-108

ISIM-893

WISCONSIN PUBLIC SERVICE CORPORATION  
A DIVISION OF WISCONSIN ENERGY SERVICES CORPORATION

IS1 ISOMETRICS  
SW OUTLETS FROM STRAINERS 1A1, 1A2, 1B1 & 1B2 TO ANCHORS ON 24" HEADER

PROJECT NO. 154-22-117  
DRAWING NO. ISIM-893  
DATE 11/10/83

WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED BY	SM-108
CHECKED BY	SM-108
APPROVED BY	SM-108
DATE	11/10/83

C.A. FORMS  
ISIM-893 1-1

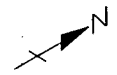
CADD



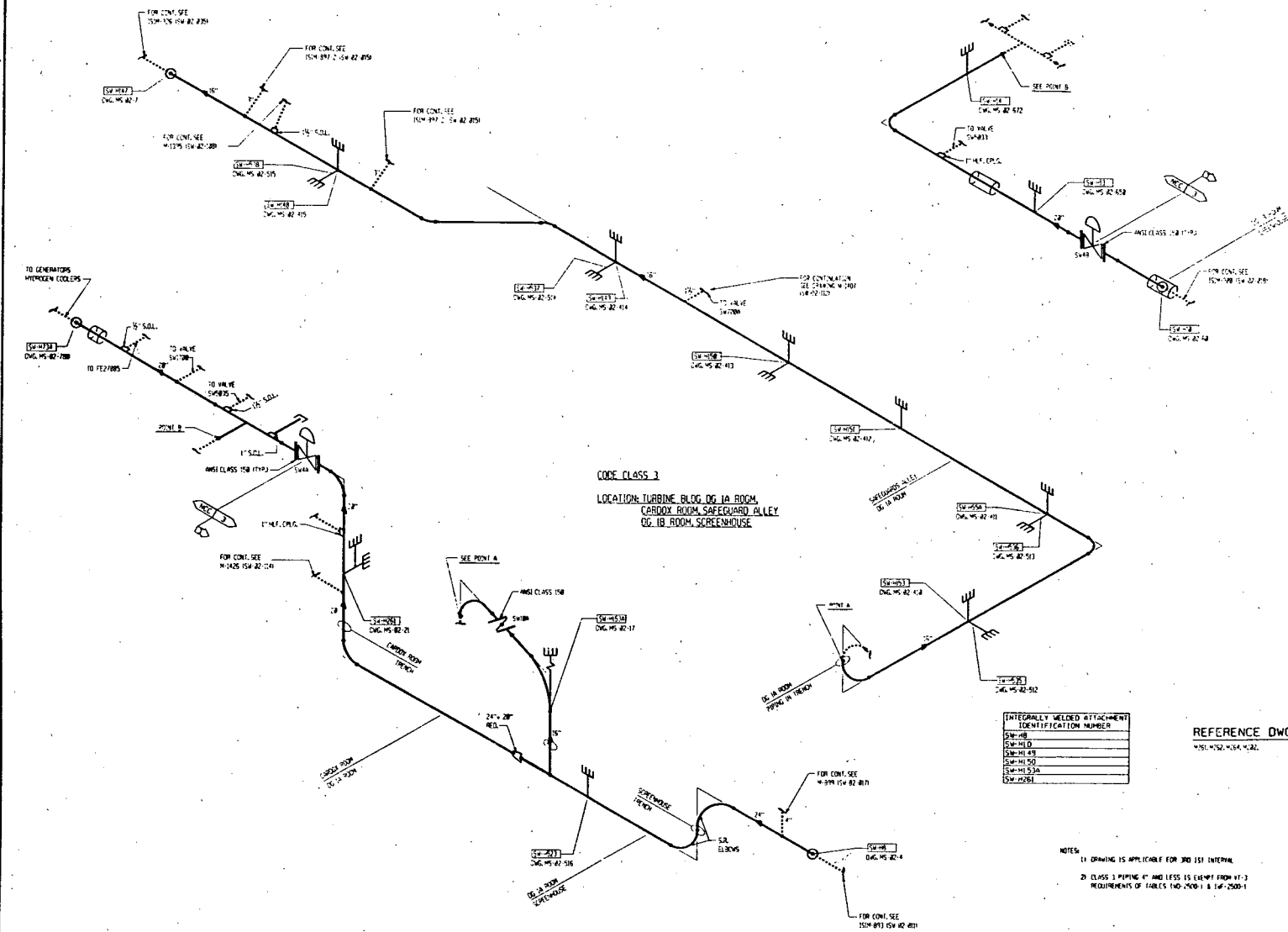




106-MIS1



REVISION  
 FILMED FIRST ISSUE  
 BY WISCONSIN PUBLIC SERVICE  
 APP'D. CAT 10-8-93  
 FILE NUMBER 10-19-93



CODE CLASS 3  
 LOCATION: TURBINE BLDG OF 1A ROOM  
 CARDOX ROOM, SAFEGUARD ALLEY  
 OF 1B ROOM, SCREENHOUSE

INTEGRALLY WELDED ATTACHMENT IDENTIFICATION NUMBER

SW-108
SW-110
SW-111-49
SW-1150
SW-1153A
SW-2261

REFERENCE DWGS.  
 WIS-1052-154-82-282

- NOTES:
- 1) DRAWING IS APPLICABLE FOR 3RD IS1 INTERNAL
  - 2) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM 11-3 REQUIREMENTS OF TABLES 140-2400-1 & 147-2500-1

106-MIS-901

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION

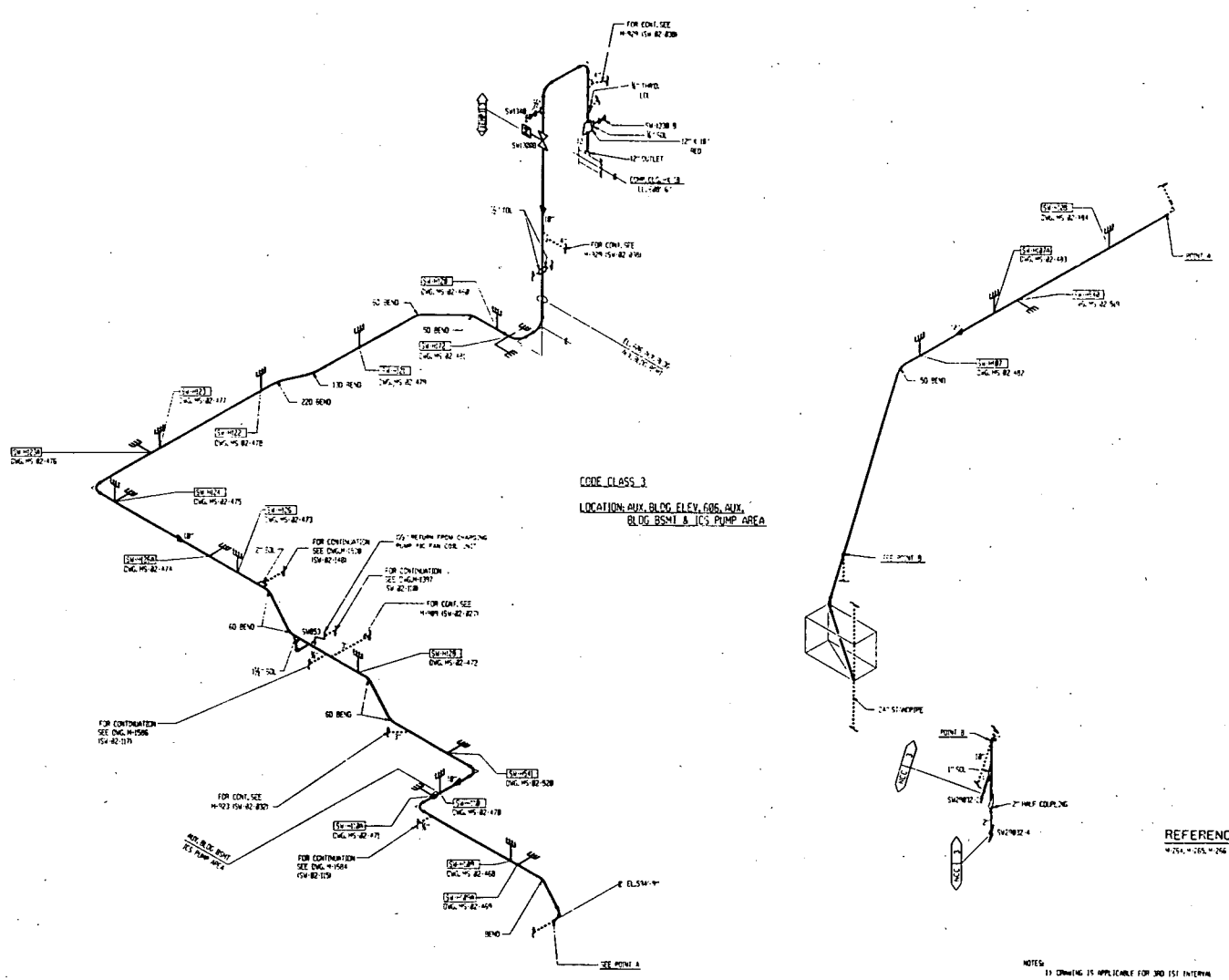
151 ISOMETRIC  
 SW FROM INTERMEDIATE ANCHOR ON 24" HORIZ TO INTERMEDIATE ANCHORS ON 16" PIPE & NEAR HORIZ SW-44

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 CHECKED BY  
 DATE  
 DRAWN BY  
 DATE  
 APPROVED BY  
 DATE

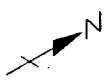
CADD  
 C.L. TOMES  
 106-MIS-901  
 (1-3)



E06-W151



CODE CLASS 3  
 LOCATION: AUX. BLDG. ELEV. A65, AUX.  
 BLDG. BSM1 & JCS PUMP AREA



REVISIONS  
 1. REVISED TO ADD  
 2. REVISED TO ADD  
 3. REVISED TO ADD  
 4. REVISED TO ADD

REFERENCE DWGS.  
 W251, W252, W253

- NOTES
- 1) DRAWING IS APPLICABLE FOR 300 PSI SYSTEM
  - 2) CLASS 3 PIPING 4" AND LESS IS EXCEPT FROM ALL REQUIREMENTS OF TABLES 140-2500-1 & 140-2500-2
  - 3) PORTIONS OF CLASS 3 PIPING EXCEEDING 4" IS EXCEPT FROM ALL REQUIREMENTS OF TABLES 140-2500-1 AND 140-2500-2 IN ACCORDANCE WITH INDUSTRY AND IAW-2500-2.

ISIM-903

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION

151 ISOMETRIC  
 SW RTN FROM COMP CLG HX IB  
 TO AUX BLDG STANOPIE

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 CHECKED BY

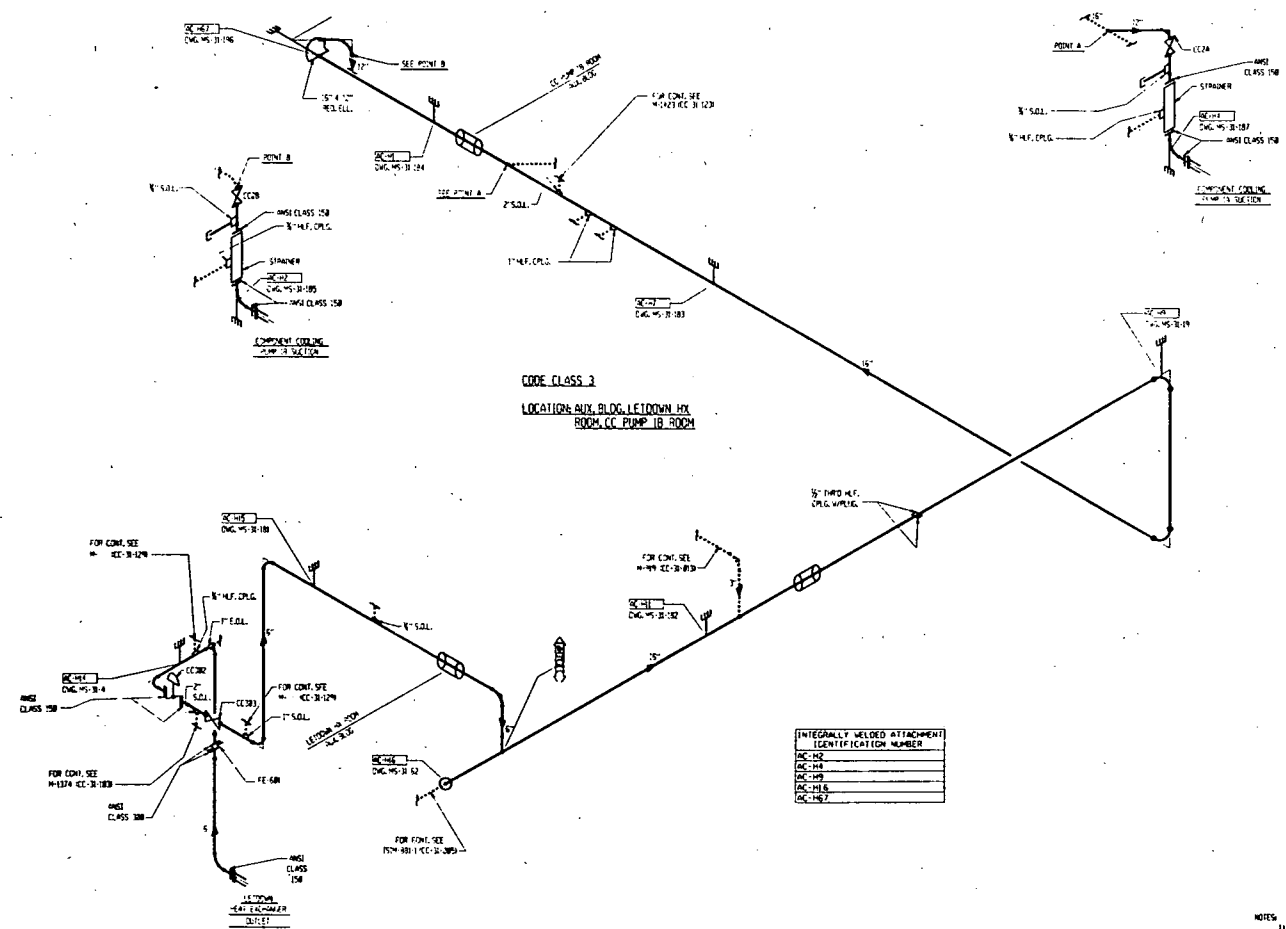
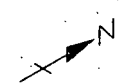
NO.	DATE	BY	CHKD.

PROJECT: C.A. FOWLS  
 DWG. NO.: ISIM-903  
 SHEET: 1-1

CADD



16-HIS1



CODE CLASS 3  
 LOCATION: AUX. BLDG. LETDOWN HX  
 ROOM: CC PUMP 1B ROOM

INTEGRALLY WELDED ATTACHMENT IDENTIFICATION NUMBER
DC-142
DC-144
DC-149
DC-146
DC-147

REFERENCE DWGS.  
 #25-132, 141, 148, 149

- NOTES:
- DRAWING IS APPLICABLE FOR 300 IS1 INTERNAL.
  - CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM 47-3 REQUIREMENTS OF TABLES 140-2500-1 & 140-2500-1.
  - PORTIONS OF CLASS 3 PIPING EXCEEDING 4" IS EXEMPT FROM 47-3 REQUIREMENTS OF TABLES 140-2500-1 AND 140-2500-1 IN ACCORDANCE WITH 140-1220.2 AND 140-2500.4.

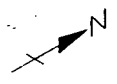
CAAD

REVISION  
 REVISION TITLE  
 BY: M.S. PER (10-10-11)  
 APPR: J.L. JOHNSON (10-10-11)  
 (140-1220.2, 140-2500)

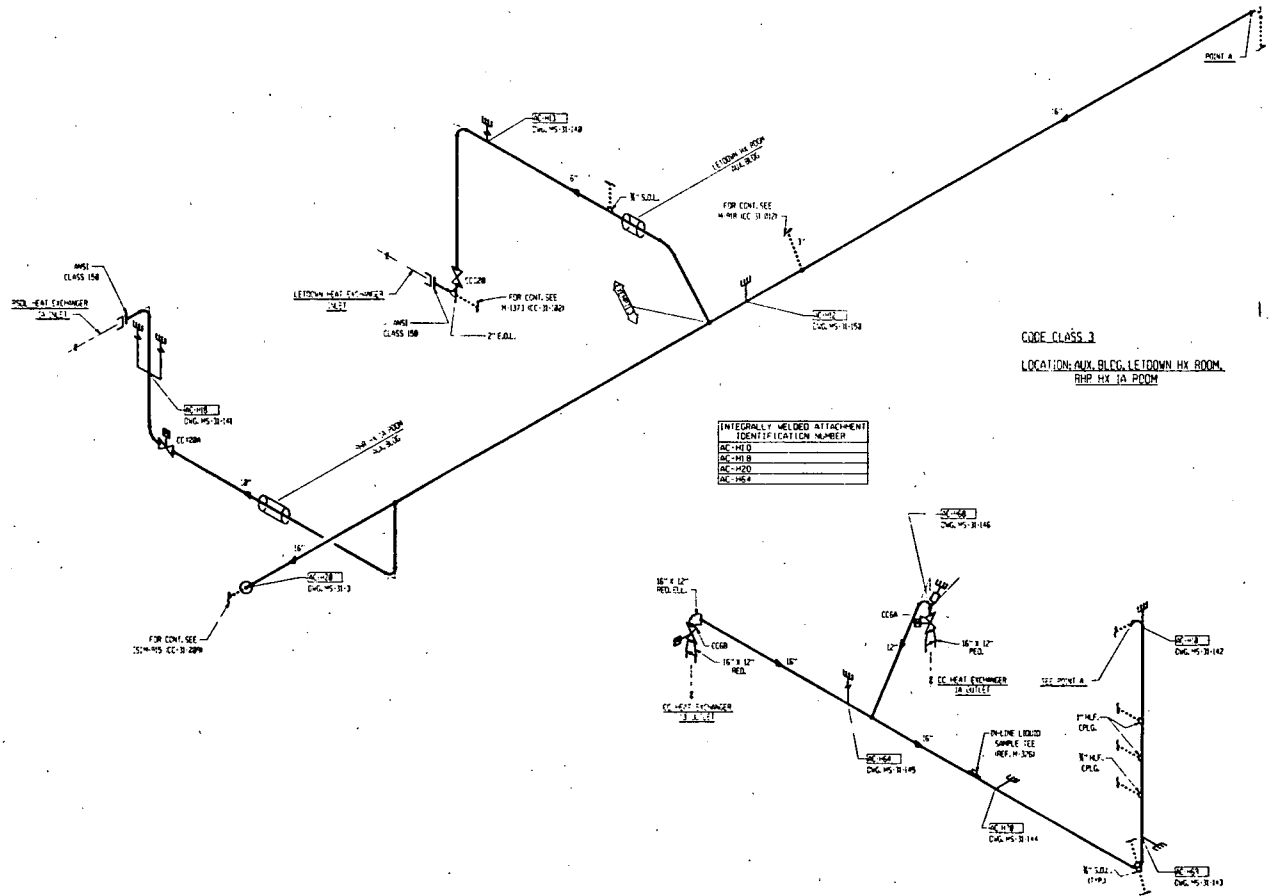
ISIM-91.3

WISCONSIN PUBLIC SERVICE CORPORATION CHANGING THE WAY WE LIVE	
IS1 ISOMETRIC CC-FROM ANCHOR AND LETDOWN HX TO COMP. CLG. PUMPS 1A/1B SUCTION	
WISCONSIN PUBLIC SERVICE CORP.	
DATE: 10/10/11	BY: M.S. PER
APPR: J.L. JOHNSON	NO. 101
SCALE: AS SHOWN	PROJECT: 140-1220.2
DATE: 10/10/11	NO. 101
BY: M.S. PER	NO. 101
APPR: J.L. JOHNSON	NO. 101

16-W151



REVISION  
FIG. 16-101 ISSUE  
BY: W.P. JEN 12-11  
APPD. CAL 70 8 11  
12/15/80 (2) 71 43



INTERIORLY WELDED ATTACHMENT IDENTIFICATION NUMBER
CC-101
CC-102
CC-103
CC-104

CODE CLASS 3  
LOCATION: AUX. BLDG. LETDOWN HX ROOM,  
RHP. HX 1A ROOM

REFERENCE DWGS.  
156, 157, 158, 159

- NOTES:
- 1) DRAWING IS APPLICABLE FOR 3RD ISST INTERIOR.
  - 2) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM V-3 REQUIREMENTS OF TABLES 140-2500-1 & 140-2500-2.
  - 3) PORTINGS OF CLASS 3 PIPING EXCEEDING 4" IS EXEMPT FROM V-3 REQUIREMENTS OF TABLES 140-2500-1 AND 140-2500-2 IN ACCORDANCE WITH 140-1200-2 AND 140-2500-1.

151M-914

WISCONSIN PUBLIC SERVICE COMMISSION  
STATE OF WISCONSIN  
CAPITOL SQUARE, MADISON, WISCONSIN

151 ISOMETRIC  
CC-FROM CC HX 1A/1B OUTLETS TO  
LETDOWN HX & RSOL HX 1A INLETS

DESIGNED BY: [ ]  
CHECKED BY: [ ]  
DATE: [ ]

WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

PROJECT NO. [ ]  
SHEET NO. [ ]

C.A. JONES [ ]  
[ ]

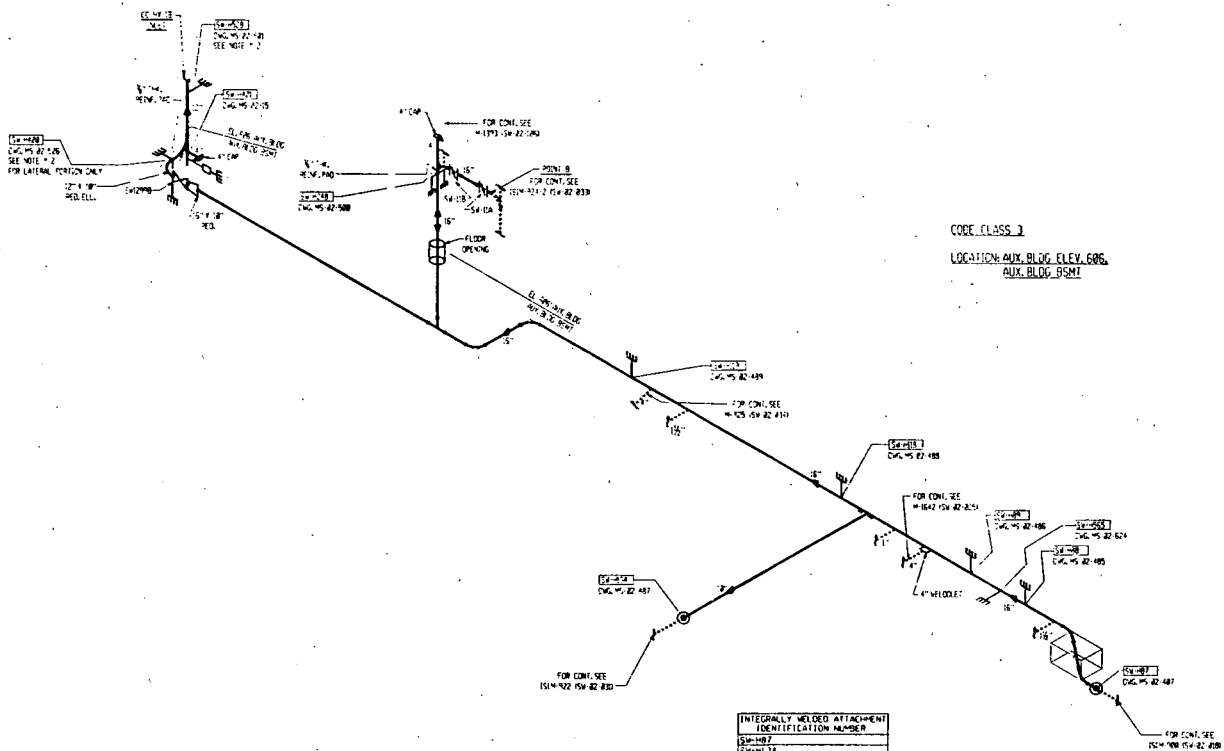
CADD [ ] 151M-914 13







26-WISI



CODE CLASS 3  
 LOCATION: AUX. BLDG. ELEV. 606.  
 AUX. BLDG. BSMT

INTEGRALLY WELDED ATTACHMENT IDENTIFICATION NUMBER	
ISIM-924	
ISIM-924	
ISIM-924	
ISIM-924	
ISIM-924	

REFERENCE DWGS.  
 1504-1000, 1000-1000, 1000-1000, 1000-1000

- NOTES:
- 1) DRAWING IS APPLICABLE FOR 300 PSI INTERNAL.
  - 2) NON-FUNCTIONAL SUPPORT.
  - 3) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM ALL REQUIREMENTS OF TABLES TAB-2000-1 & TAB-2000-2.

151 ISOMETRIC  
 SH SWLY TO CC ME TAVEL SPENT FUEL POE  
 & EMERGENCY SPRY TO SPENT FUEL POOLS

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 SALES MGR. WISCONSIN

DATE	BY	CHKD	APP'D

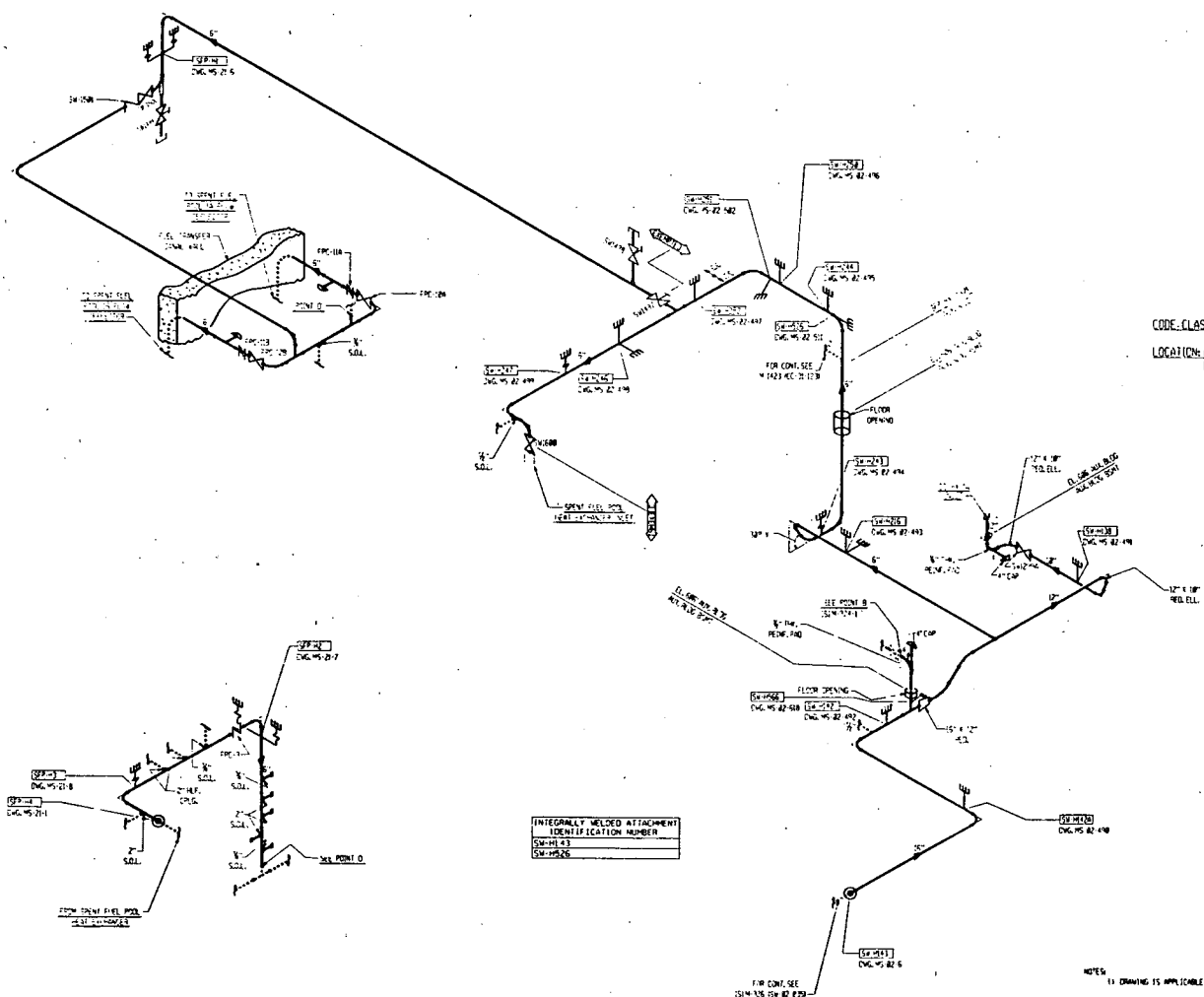
PREPARED BY  
 C.A. TOWES

151 ISOMETRIC  
 1504-1000, 1000-1000, 1000-1000, 1000-1000

ISIM-924-1

2-926-1151

REVISION  
PUMP ROOM ISSUE  
BY: JAMES R. GIBSON  
DATE: 04/20/81  
APP: (S) (S) (S)  
SHEET NO. 2 OF 10-1



CODE CLASS 3  
LOCATION: AUX. BLDG. ELEV. 685, AUX.  
BLDG. BSM1, SEP. HT. ROOM

INTEGRALLY WELDED ATTACHMENT  
IDENTIFICATION NUMBER  
CLASS 3  
SM-1526

REFERENCE DWGS.  
105A, 105B, 105C, 105D, 105E, 105F, 105G, 105H

ISIM-924-2

- NOTES
- 1) DRAWING IS APPLICABLE FOR 300 ISM INTERNAL
  - 2) CLASS 3 PIPING 1" AND LESS IS EXEMPT FROM ALL REQUIREMENTS OF TABLES 140-2500-1 & 140-2500-1
  - 3) PORTIONS OF CLASS 3 PIPING EXCEEDING 1" IS EXEMPT FROM ALL REQUIREMENTS OF TABLES 140-2500-1 AND 140-2500-1 IN ACCORDANCE WITH ENR-1700.2 AND 140-2500-1

WISCONSIN PUBLIC SERVICE CORPORATION  
STATE OF WISCONSIN PUBLIC SERVICE BOARD  
COMMERCIAL SERVICE DIVISION

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
OPER. BY: 10/20/81

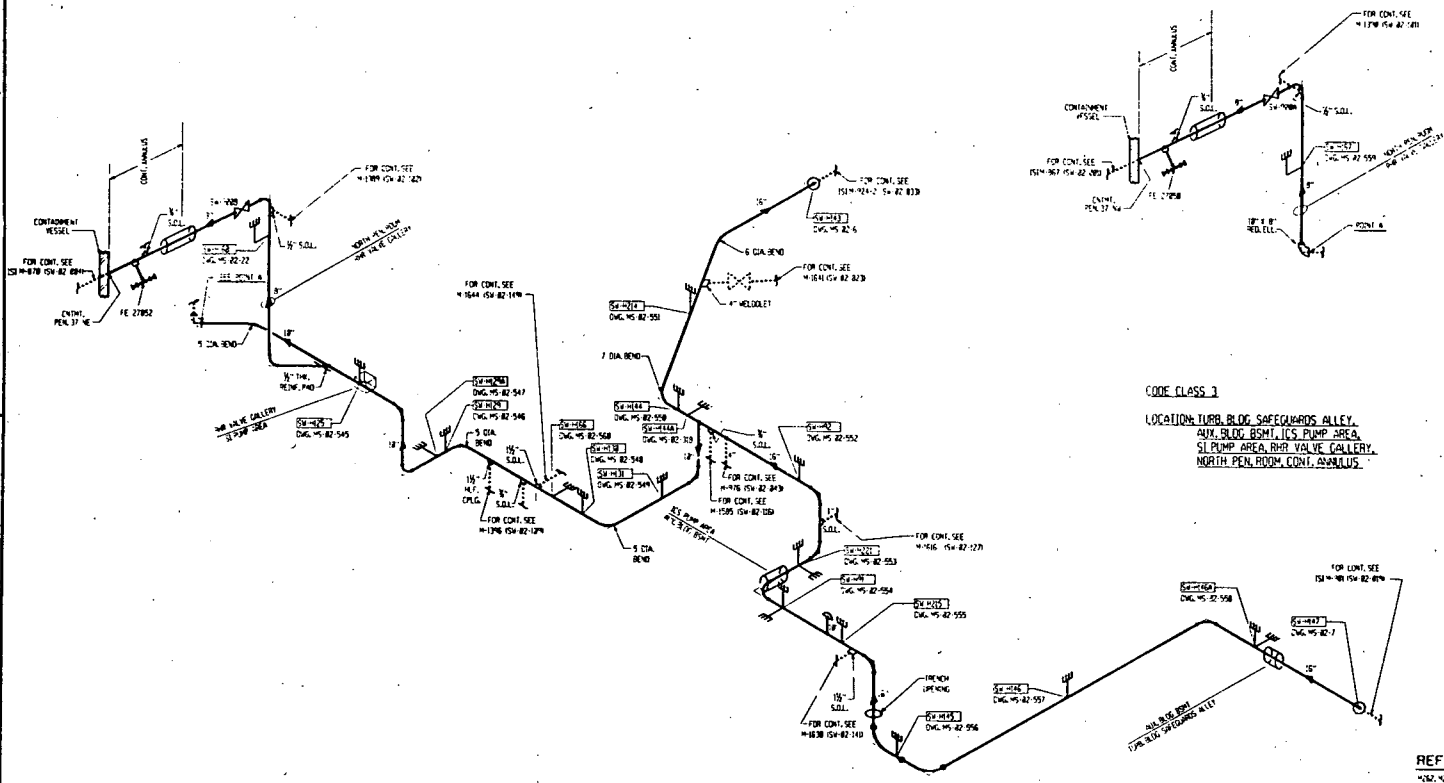
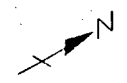
DATE	BY	CHKD

APPROVED  
J. R. JAMES  
ISIM-924-2

CADD

926-WIS1

REVISION  
FIELD PAPER ISSUE  
BY: W.P.S. PER 12-17-11  
APPD: CAT. NO. 8-13  
18 INCL. W.P.S. 10, 11, 12



CODE CLASS 3  
 LOCATION: TURB. BLDG. SAFEGUARDS ALLEY,  
 4TH. BLDG. SEPTICS. PUMP AREA,  
 SL. PUMP AREA, HIGH VALVE GALLERY,  
 NORTH PEN. ROOM, CONT. MANULUS.

REFERENCE DWGS.  
 152, 155, 156, 158, 159

INTEGRALLY WELDED ATTACHMENT IDENTIFICATION NUMBER
SW-14.3
SW-14.6
SW-14.8

- NOTES
- 1) DRAWING IS APPLICABLE FOR 300 IS1 INTERNAL.
  - 2) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM 11-3 REQUIREMENTS OF TABLE 110-2000-1 & 110-2000-1

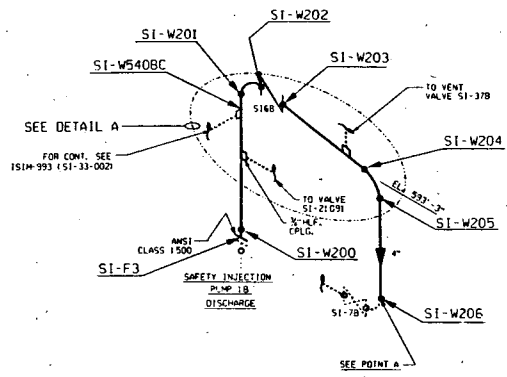
ISIM-926

WISCONSIN PUBLIC SERVICE CORPORATION <small>MEMBER OF THE WISCONSIN PUBLIC SERVICE GROUP</small>	
IS1 ISOMETRIC SERVICE WATER ANCHORS TO CONTN PENS. 37NE&37NW	
DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. 1000 W. WISCONSIN ST. MILWAUKEE, WIS. 53233	
SCALE	AS SHOWN
DATE	12/17/11
APP'D	C.A. CLUMES
CADD	ISIM-926



ISIM-934-1

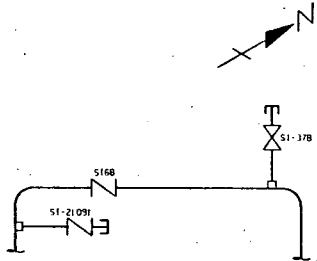
REVISION  
 NO. 1  
 DATE 11/11/83  
 BY J. W. B. / J. W. B.  
 CHECKED BY J. W. B. / J. W. B.



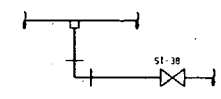
VALVE BOLT/BOLTING DATA		
I.D.	STILES / DIA. (IN.)	PROFS
SI168	1 1/2"	R2
SI178	1 1/2"	R2
SI18A	1 1/2"	R2
SI18B	1 1/2"	R2
SI19	1 1/2"	R2

INTEGRALLY WELDED ATTACHMENT DATA	
I.D.	THICKNESS (IN.)
SI-M134	0.154
SI-M15	0.154
SI-M27	0.250

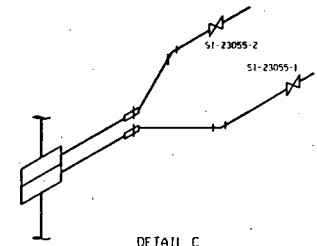
PIPING		CALIBRATION	
DIA. (IN.)	SCH./THICKNESS (IN.)	MATERIAL	I.D.
3	160/0.438	A 375 TP316	160/0.438
4	120/0.438	A 375 TP316	120/0.438



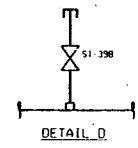
DETAIL A



DETAIL B

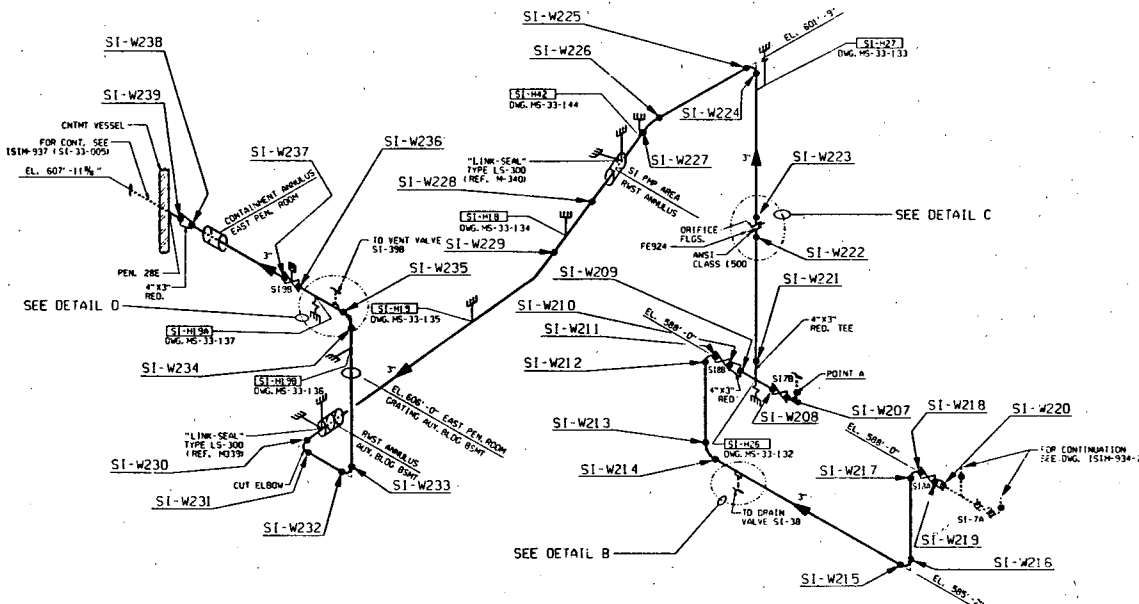


DETAIL C



DETAIL D

CODE CLASS 2  
 LOCATION: AUX. BLDG. SI PUMP AREA, RWST ANNULUS, EAST PENETRATION ROOM, CONT. ANNULUS

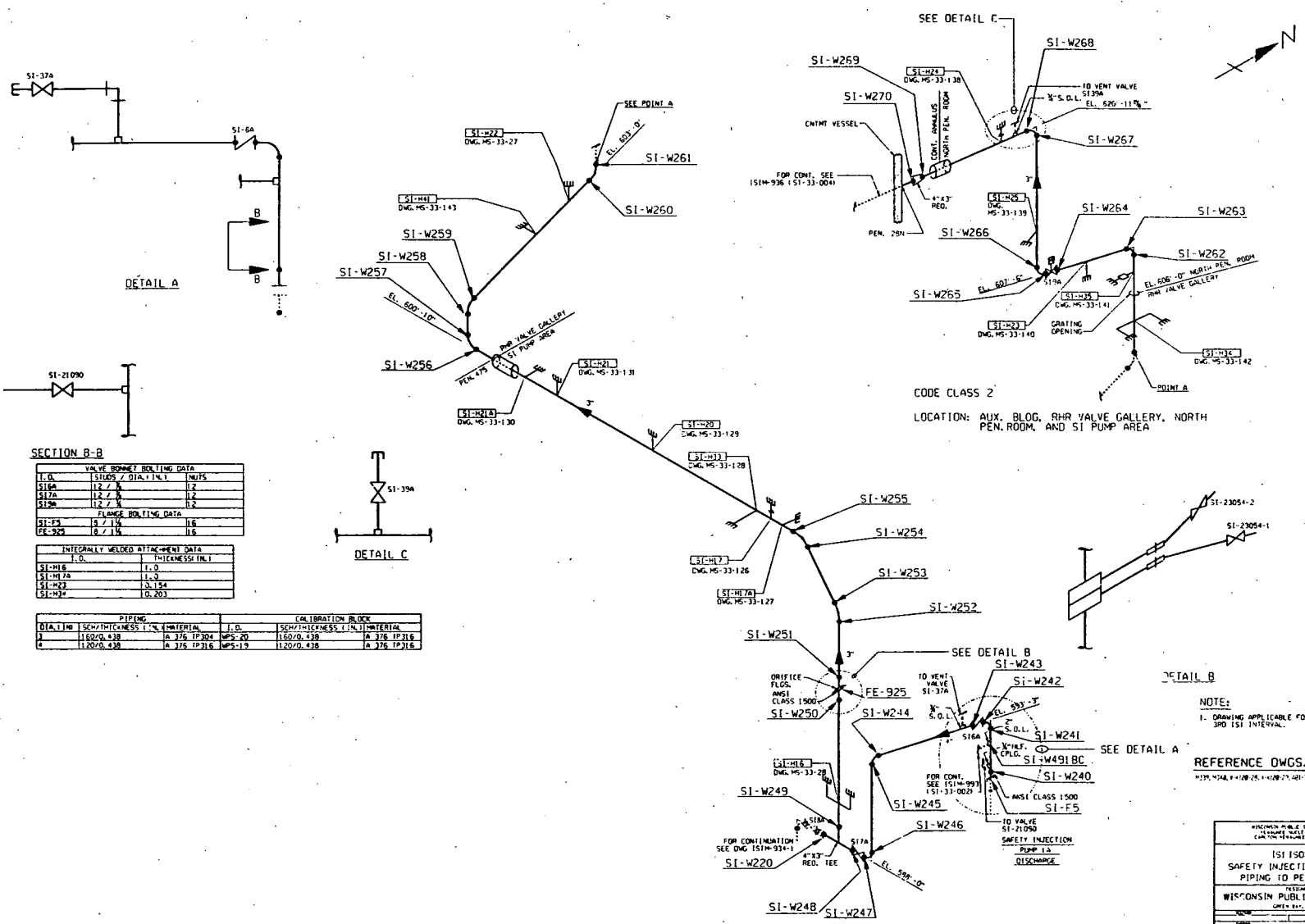


REFERENCE DWGS.

ISIM-934-1

NOTES:  
 1. DRAWING APPLICABLE FOR 3RD ISI INTERVAL.

WISCONSIN PUBLIC SERVICE CORPORATION CHICAGO, ILLINOIS 60601 ENGINEERING DEPARTMENT
ISI ISOMETRIC SAFETY INJECTION PUMPS DISCH. PIPING TO PEN 28E & RWST
DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. DRAWN BY J. W. B.
CADD ISIM-934-1 13



DETAIL A

DETAIL B

DETAIL C

SECTION B-B

VALVE BORE & BOLTING DATA		
I. D.	STUDS / DIA. TYP.	UNITS
SI-64	12 / 3/8	1/2
SI-6A	12 / 3/8	1/2
SI-24	12 / 3/8	1/2
SI-26	12 / 3/8	1/2

FLANGE BOLTING DATA	
SI-64	SI-6A
18 / 1/4	18
18 / 1/4	18

INTEGRALLY WELDED ATTACHMENT DATA	
I. D.	THICKNESS IN. I
SI-M18	1.0
SI-M19	1.0
SI-M20	1.375
SI-M21	1.0

PIPING		CALIBRATION BLOCK	
DIA. IN.	SCH. THICKNESS I. N.	MATERIAL	I. D.
3	1120/0.438	SA 378 TP304	MS-20
3	1120/0.438	SA 378 TP316	MS-19
4	1120/0.438	SA 378 TP316	MS-19

CODE CLASS 2  
LOCATION: AUX. BLDG., RHR VALVE GALLERY, NORTH PEN. ROOM, AND SI PUMP AREA

NOTE:  
1. DRAWING APPLICABLE FOR SPD ISI INTERVAL.

REFERENCE DWGS.  
MS-248, 4-1108, 28-1108, 27-201-634

WISCONSIN PUBLIC SERVICE CORPORATION  
PLANNING, DESIGN, ENGINEERING, CONSTRUCTION, MAINTENANCE, OPERATIONS

ISI ISOMETRIC  
SAFETY INJECTION PUMPS DISCH.  
PIPING TO PEN 28N & RWST

DESIGNED BY: [ ]  
CHECKED BY: [ ]  
DATE: [ ]

CADD [ ] ISM-934-2 14







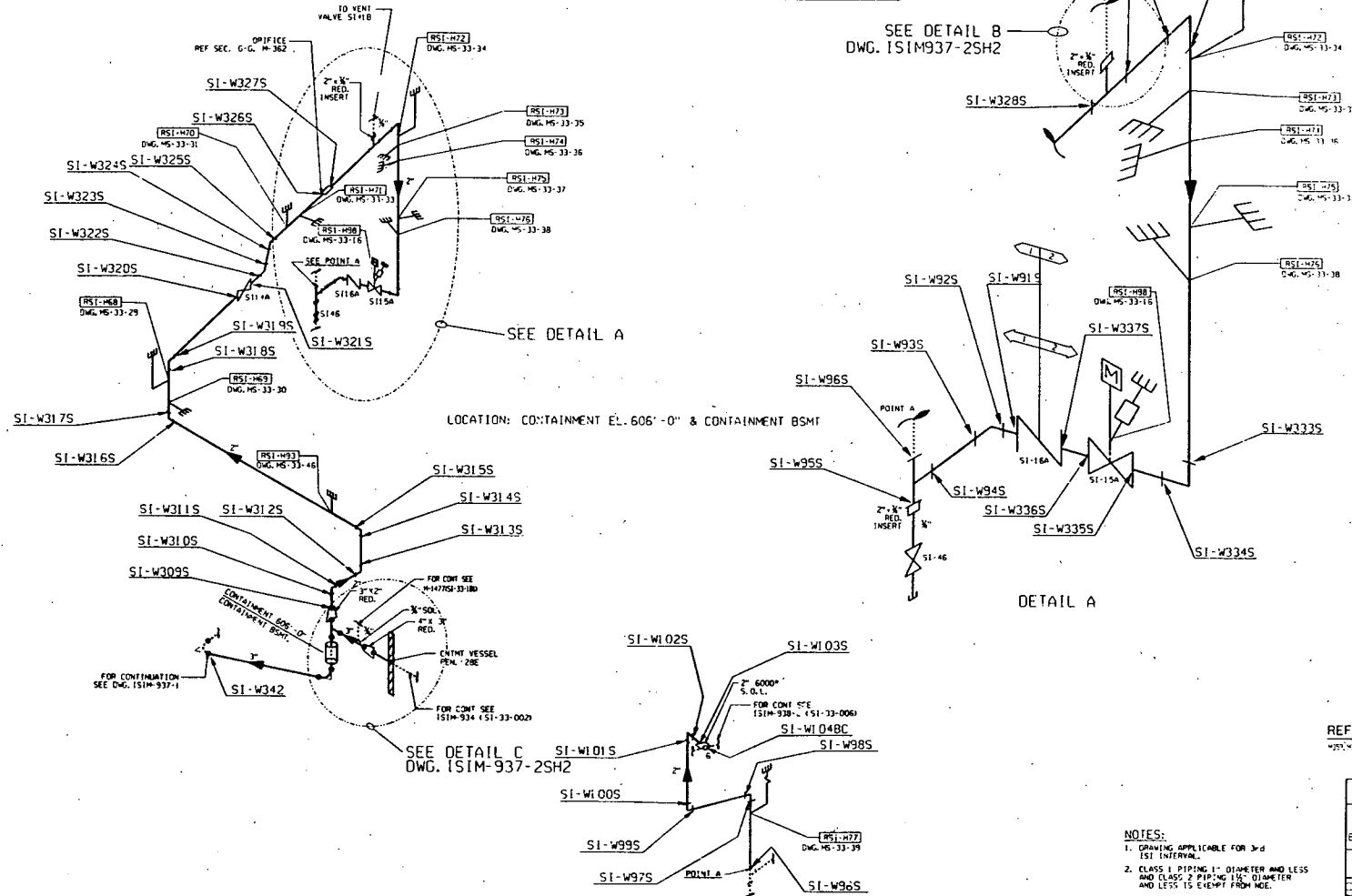


DHSZ-226-WISI

VALVE NOMENCLATURE DATA			
I.D.	SIZES / DIA. / TYP. UNITS		
SI-14A	NONE	NONE	
SI-15A	1 1/2" / 0.750	1/2"	
SI-16A	NONE	NONE	

INTEGRALLY WELDED ATTACHMENT DATA			
I.D.		THICKNESS (IN.)	
PSI-W6A		1.0	
PSI-W7		1.0	
PSI-W77		1.0	

PIPING					
DIA. (IN.)	SCHEMATIC THICKNESS (IN.)	MATERIAL	I.D.	SCHEMATIC THICKNESS (IN.)	MATERIAL
2	1.60/0.344	A 316 TP304	WPS-21	1.60/0.344	A 316 TP304
3	1.60/0.438	A 316 TP304	WPS-20	1.60/0.438	A 316 TP316
4	1.20/0.438	A 316 TP316	WPS-19	1.20/0.438	A 316 TP316



SEE DETAIL B  
DWG. ISIM937-2SH2

SEE DETAIL A

LOCATION: CONTAINMENT EL. 605'-0" & CONTAINMENT BSMT

DETAIL A

SEE DETAIL C  
DWG. ISIM-937-2SH2

REVISION  
 1. ISIM-937-2SH2  
 2. ISIM-937-2SH2  
 3. ISIM-937-2SH2

ISIM-937-2SH2

REFERENCE DWGS.  
 WSI-937-2SH2-1 (1/2/79)

ISHT 1 OF 21

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.

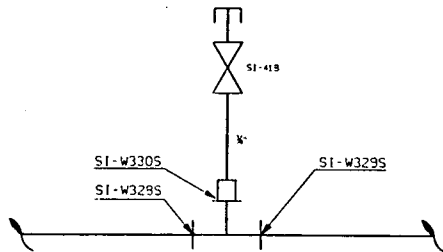
DATE: 11/19/79

SCALE: AS SHOWN

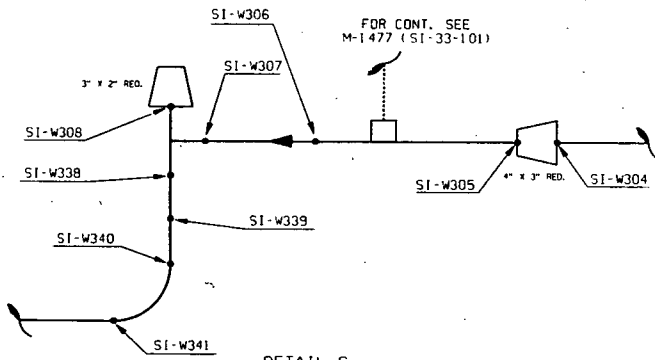
ISIM-937-2SH2

CAOD

- NOTES:
1. DRAWING APPLICABLE FOR 3" & 4" ISHT INTERVAL.
  2. CLASS 1 PIPING, 1" DIAMETER AND LESS AND CLASS 2 PIPING, 1 1/2" DIAMETER AND LESS IS EXEMPT FROM I.D.E.



DETAIL B



DETAIL C

REVISION  
 DATE: 11/17/1988  
 BY: J. J. [unclear]  
 FOR: [unclear]  
 PROJECT: [unclear]

ISIM-937-25H2

(SHT 2 OF 2)

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN NUCLEAR REGULATORY BOARD  
 CAPITAL PROJECTS DIVISION

ISI ISOMETRIC  
 SI-FROM CONTM PEN. 29E TO 2"  
 BRANCH CONN ON 5" HDR TO REACTOR

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 DATE: 11/17/88  
 DRAWN BY: [unclear]  
 CHECKED BY: [unclear]  
 IN CHARGE: [unclear]

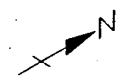
NOTES:  
 1. CHANGING APPLICABLE FOR 3/4  
 ISI INTERVAL.

CADD

ISIM-937-25H2 1-2

I-966-MSI

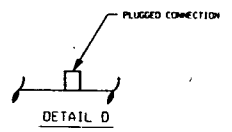
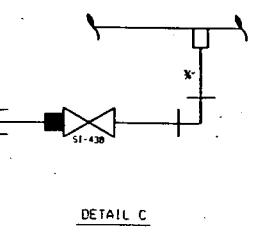
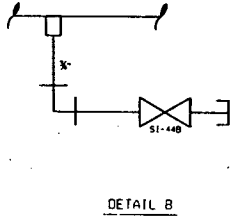
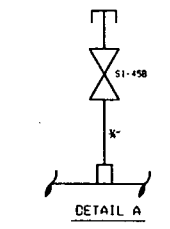
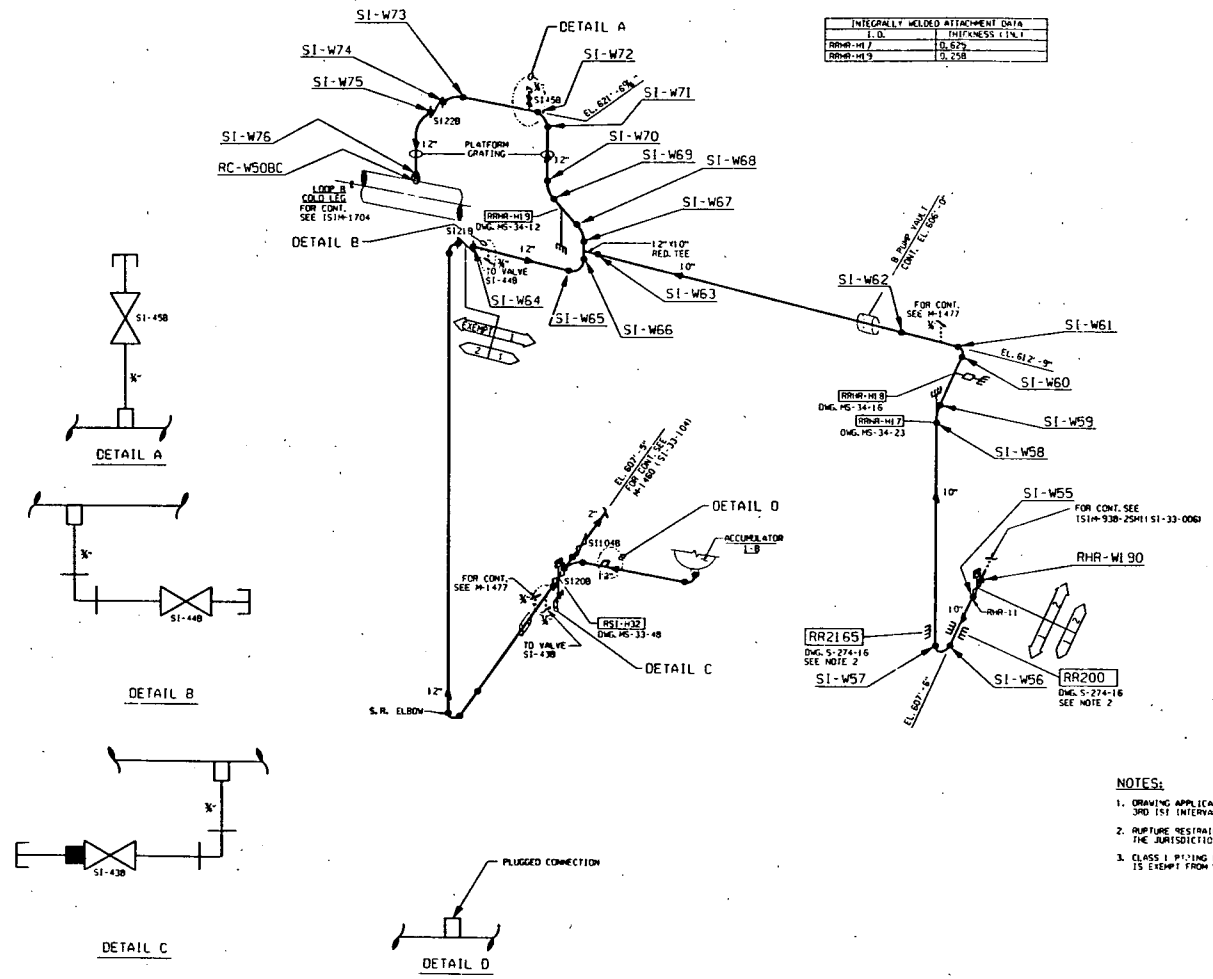
LOCATION: CONTAINMENT, EL. 606' -0"  
"B" PMP VAULT



PIPING		CALIBRATION BLOCK	
DIA. (IN.)	SCH./THICKNESS (IN.)	MATERIAL	I.D.
12	16071-312	A. 375 TP 316	MPS-7
12	14071-000	A. 375 TP 316	MPS-10

VALVE BONNET BOLTING DATA				
I.D.	MANUFACTURER	TYPE	SIZE / DIA. (IN.)	NUTS
SI-218	DMR/TMG VALVE CO.	CATE	1/6" / 1.875	1/8"
SI-228	DMR/TMG VALVE CO.	CHECK	1/6" / 1.875	1/8"

INTEGRALLY WELDED ATTACHMENT DATA	
I.D.	THICKNESS (IN.)
RRHR-M1	0.625
RRHR-M13	0.250



- NOTES:**
1. DRAWING APPLICABLE FOR 3RD SET INTERFER.
  2. RUPTURE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASH SECTION 41.
  3. CLASS 1 PIPING 1" DIAMETER AND LESS IS EXEMPT FROM NOE.

**REFERENCE DWGS.**  
 WPL 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

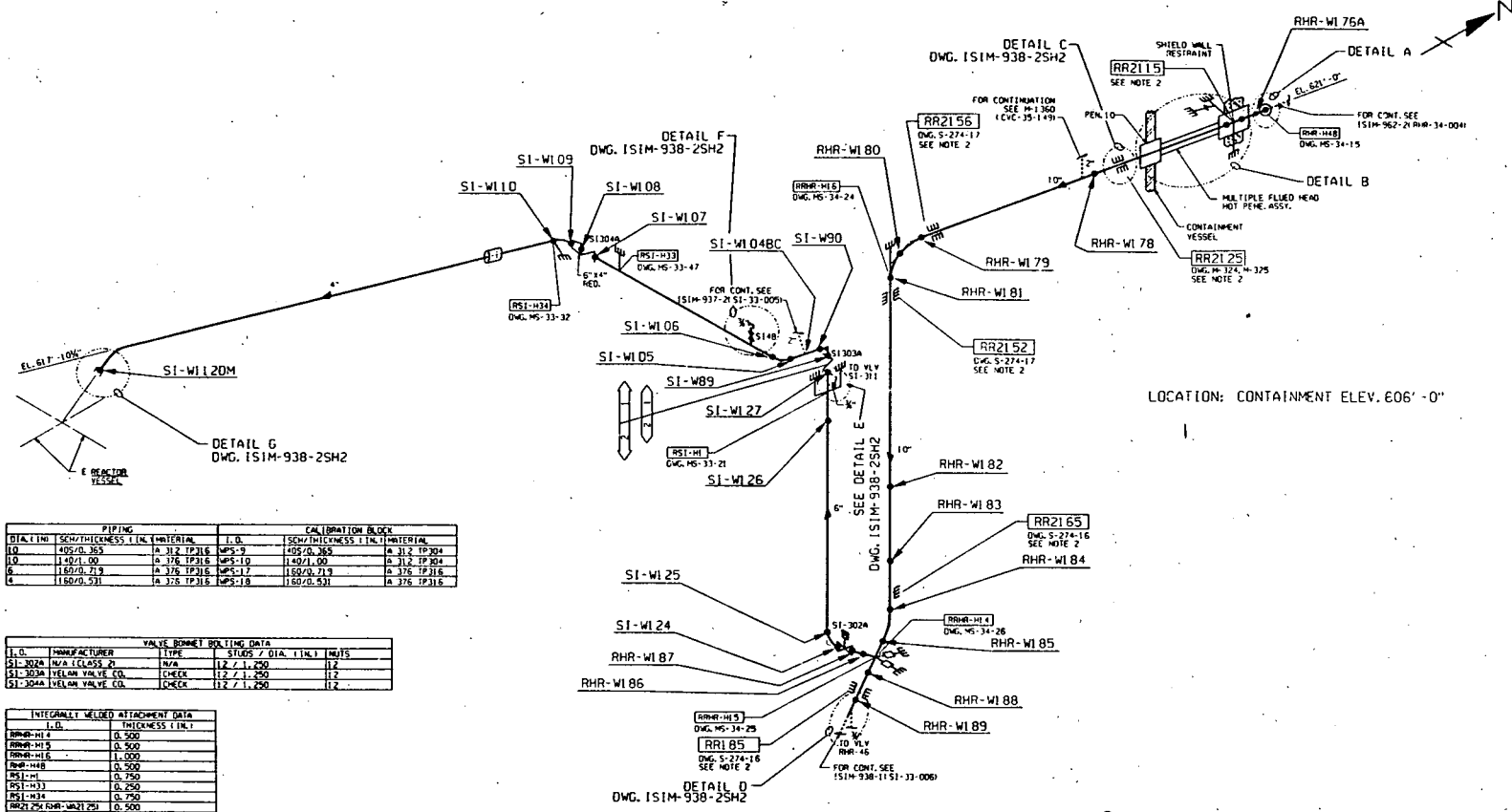
WISCONSIN PUBLIC SERVICE CORPORATION  
 ENGINEERING DEPARTMENT  
 1515 WATER STREET, MADISON, WISCONSIN 53703

ISOMETRIC  
 SI-FROM CNMT PENJO TO REACTOR  
 FROM ACMTR IB TO LOOP B COLD LEG

DESIGNED BY: [Signature]  
 CHECKED BY: [Signature]  
 DATE: [Date]

ISIM-938-1

CADD

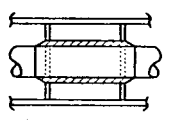


LOCATION: CONTAINMENT ELEV. 606'-0"

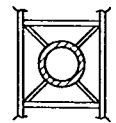
PIPING				CALCINATION BLOCK			
DIAM./LTH	SCH./THICKNESS	LIN./MATERIAL	L.D.	SCH./THICKNESS	LIN./MATERIAL	L.D.	
10	40S/0.365	A 312 TP316	MPS-9	40S/0.365	A 312 TP304		
10	140/1.00	A 376 TP316	MPS-10	140/1.00	A 312 TP304		
6	180/0.719	A 376 TP316	MPS-17	180/0.719	A 376 TP316		
4	180/0.531	A 376 TP316	MPS-18	180/0.531	A 376 TP316		

VALVE BONNET BOLTING DATA				
L.D.	MANUFACTURER	TYPE	STDS / DIA.	LIN./MATS
SI-3024	M/A CLOSS CO.	N/A	1/2 / 1.250	1/2
SI-3034	VELUM VALVE CO.	CHECK	1/2 / 1.250	1/2
SI-3044	VELUM VALVE CO.	CHECK	1/2 / 1.250	1/2

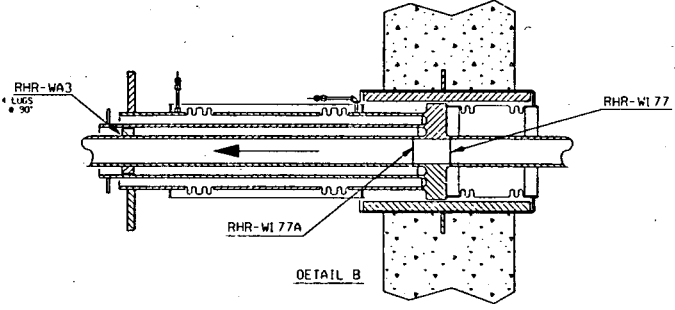
INTEGRALLY WELDED ATTACHMENT DATA	
L.D.	THICKNESS (IN.)
RRHR-WI-4	0.500
RRHR-WI-5	0.500
RRHR-WI-6	1.000
RRHR-WI-8	0.500
RSI-WI-1	0.750
RSI-WI-3	0.250
RSI-WI-4	0.750
RR2125, RRHR-WA21, ZSI	0.500
RRHR-WI-3	1.000



DETAIL A



DETAIL B



REFERENCE DWGS.  
 W14, W15, W16, W17, W18, W19, S-274-1, S-400-28

NOTES:  
 1. DRAWING APPLICABLE FOR 3RD IS1 INTERVAL.  
 2. RUPTURE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.  
 3. CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NDE.

(SHT 1 OF 2)

WISCONSIN PUBLIC SERVICE CORPORATION  
 1515 WATER STREET, MILWAUKEE, WISCONSIN 53212  
 (414) 224-1000

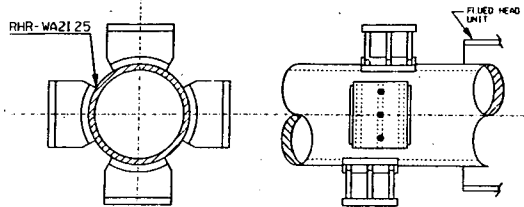
ISOMETRIC  
 SI-FROM CNMT PENIO TO REACTOR  
 FROM ACNTR IB TO LOOP B COLD LEG

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**

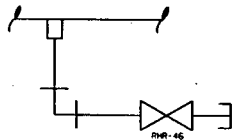
CADD

ISIM-938-25H 1-1

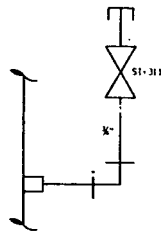
2HS2-8E6-MIS1



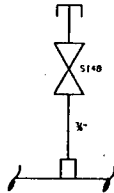
DETAIL C



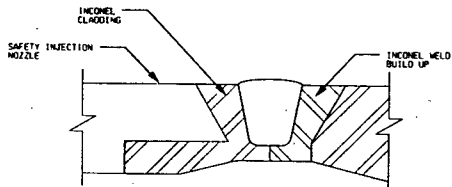
DETAIL D



DETAIL E



DETAIL F



DETAIL G

REVISION  
 1. 11-10-83  
 2. 11-10-83  
 3. 11-10-83  
 4. 11-10-83

ISIM-938-25H2

NOTES:  
 1. DRAWING APPLICABLE FOR 3RD  
 ISI INTERVAL.

(SHT 2 OF 2)

WISCONSIN PUBLIC SERVICE CORPORATION <small>1111 MARKET STREET, MILWAUKEE, WISCONSIN 53233</small>	
ISIDETAILS SI-FROM C1:TW1 PENJO TO REACTOR FROM ACMTB-B TO LOOP B COLD LEG	
DESIGNED BY <b>WISCONSIN PUBLIC SERVICE CORP.</b> <small>GREEN BAY, WISCONSIN</small>	
DATE	SCALE
BY	CHECKED
APP'D	DATE
ISIM-938-25H2	1-3

CADD

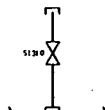




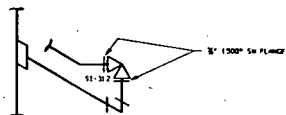
CHS66-1151



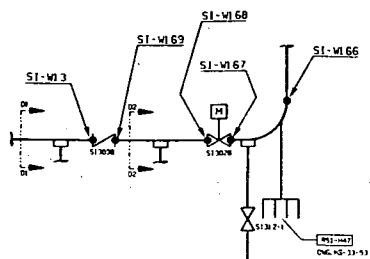
DETAIL A



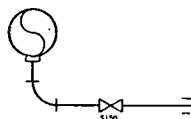
DETAIL B



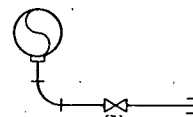
DETAIL C



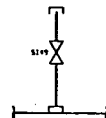
DETAIL D



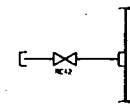
SECT. D1-D1



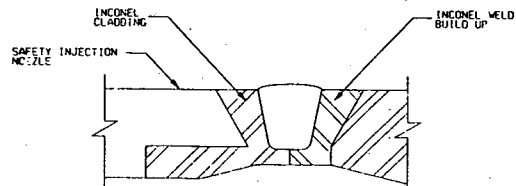
SECT. D2-D2



DETAIL E



DETAIL F



DETAIL G

SECTION  
151M-9395H2  
REV. 01  
23 SEP 93  
APP. 141 10 03  
11 03 00 00 00

151M-9395H2

(SH. 2 OF 2)  
WISCONSIN PUBLIC SERVICE CORPORATION  
151M-9395H2  
SAFETY INJECTION  
FROM CHAT PEX 48 TO REACTOR

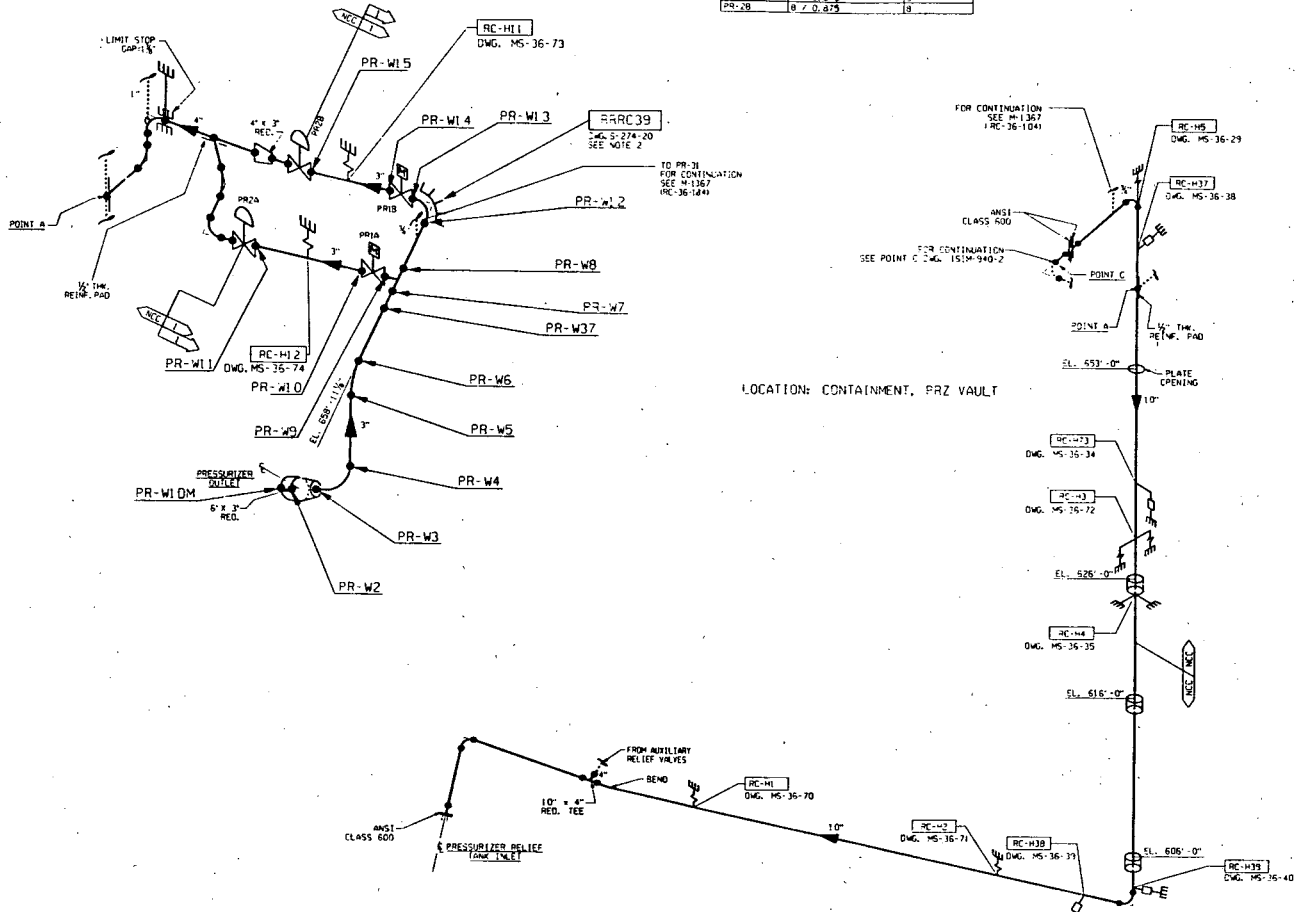
DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
DATE: 07/24/93  
SCALE: AS SHOWN  
SHEET NO. 151M-9395H2  
REV. 01

CADD 151M-9395H2 1-1

I-DP6-N151

PIPING		CORROSION BLOCK	
DIA. (IN)	SCHW. THICKNESS (IN) MATERIAL	I. D.	SCHW. THICKNESS (IN) MATERIAL
5" x 3 RED.	16000 219	4.394 TP316	16000 219
3"	15000 439	2.75 TP316	15000 439

VALVE BONNET BOLTING DATA	
I. D.	STUBS / DIA. (IN.) UNITS
PR-1A	1.2 / 0.750
PR-1B	1.2 / 0.750
PR-2B	1.2 / 0.875
PR-2B	0.7 / 0.875



LOCATION: CONTAINMENT, PRZ VAULT

**REFERENCE DWGS.**

MSL-38, MSL-39, MSL-40, MSL-41, MSL-42

**NOTES:**

1. DRAWING APPLICABLE FOR 3-d ISI INTERNAL.
2. ALL PIPE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.
3. CLASS 1 PIPING 1" DIA. & LESS IS EXEMPT FROM NOE.

WISCONSIN PUBLIC SERVICE CORPORATION  
 REGULATORY DIVISION  
 CONTAINMENT RELIEF TANK

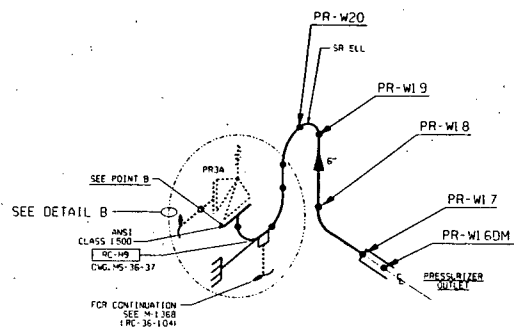
ISI ISOMETRIC  
 REACTOR COOLANT - FROM PRESSURIZER  
 TO PRESSURIZED RELIEF TANK

RECORDED BY  
 WISCONSIN PUBLIC SERVICE CORP.

DATE: 11/11/83  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 DESIGNED BY: [Signature]

CAOD 151M-940-1 1-3

Z-016-WIS1



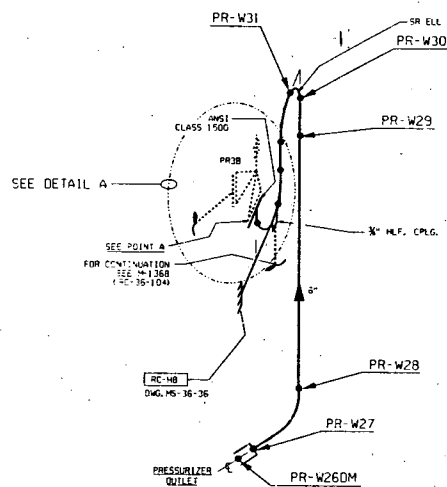
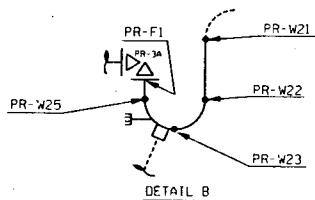
PIPING			CALIBRATION BLOCK		
DIA. (IN.)	SCH./THICKNESS (IN.)	MATERIAL	I.D.	SCH./THICKNESS (IN.)	MATERIAL
6	20/0.719	SA 376 TP316	6.565-1.7	160/0.719	SA 376 TP316

INTEGRALLY WELDED ATTACHMENT DATA	
RC-NB	THICKNESS (IN.)
RC-NB	0.375
RC-N9	0.375

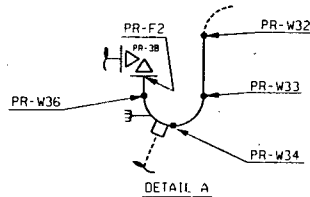
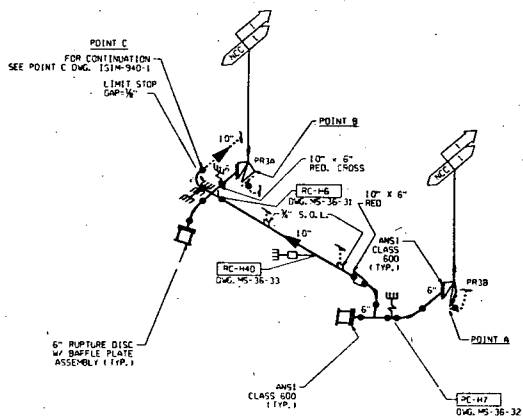
VALVE DATA		MANUFACTURER		TYPE	
I.D.	SIZE (S / DIA. (IN.))	NUIS	CROSSBY	RELIEF	RELIEF
PR-3A	1 1/2"	8	CROSSBY	RELIEF	
PR-3B	1 1/2"	8	CROSSBY	RELIEF	

FLANGE BOLTING DATA		
I.D.	SIZE (S / DIA. (IN.))	NUIS
PR-F1	1 1/2" / 1.375	24
PR-F2	1 1/2" / 1.375	27



LOCATION: CONTAINMENT, PRZ VAULT



REFERENCE DWGS.  
WISCONSIN PUBLIC SERVICE CORPORATION

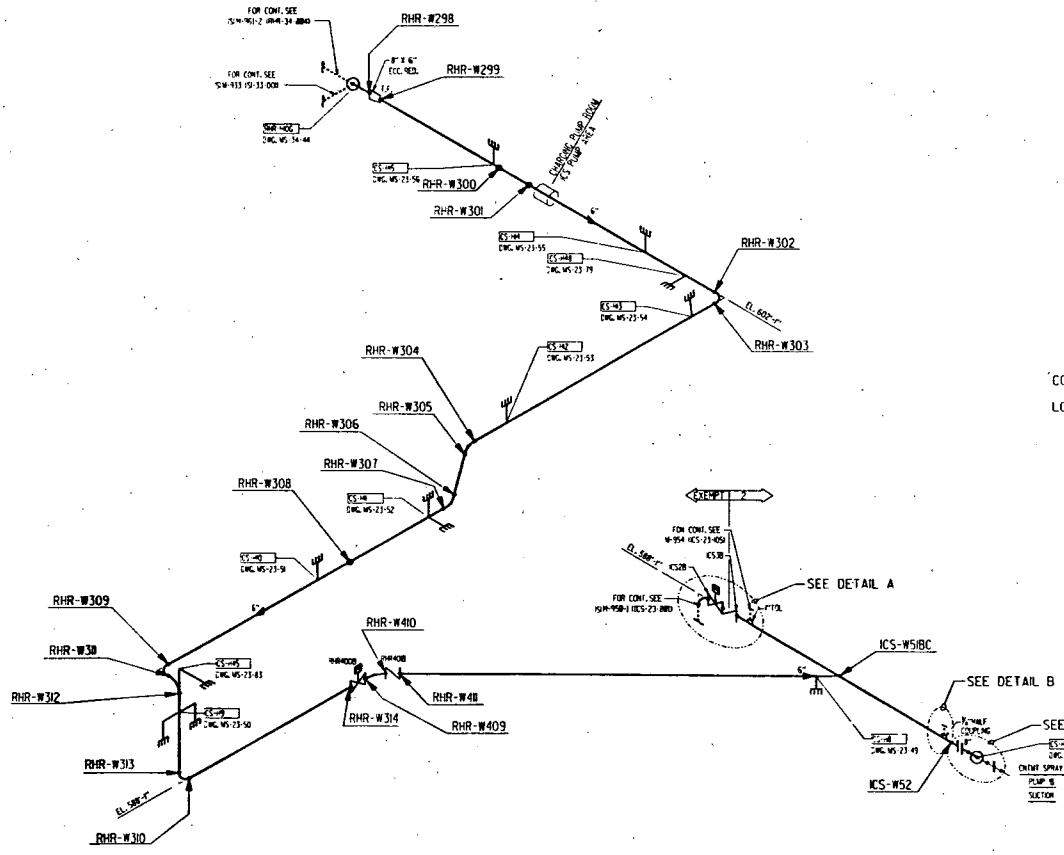
- NOTES:
1. DRAWING APPLICABLE FOR 30-DAY INTERVAL.
  2. CLASS 1 PIPING 1" DIA. & LESS IS EXEMPT FROM HOE.

WISCONSIN PUBLIC SERVICE CORPORATION STATE OF WISCONSIN CAPITOL SQUARE, MADISON, WISCONSIN	
IS1 ISOMETRIC REACTOR COOLANT FROM PRESSURIZER TO PRESSURIZER RELIEF TANK	
DESIGNED BY WISCONSIN PUBLIC SERVICE CORP. OPER. MAINTENANCE	
DATE	11/15/88
BY	J. J. [unreadable]
CHECKED	[unreadable]
APP. [unreadable]	[unreadable]
CADD	IS1M-340-2 12



2-056-9951

REVISED BY: JSAK  
 DATE: 10/20/99  
 APP'D: L.H. O'DONOGHUE  
 ICS-950-2



INTEGRALLY RECORDED ATTACHMENT DATA

I.D.	THICKNESS
RHR-W409	0.500
CS-143	1.000
CS-140	0.500
CS-145	0.203

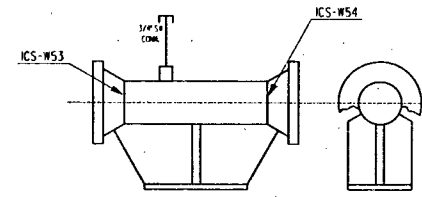
VALVE BOMME T BOLTING DATA

I.D.	STDS. / DIA. 1 IN. / 1 IN. / 1 IN. / 1 IN.	NO.
RHR-W409	1/2 / 0.625	24
RHR-W413		
ICS-30		

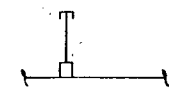
WIPING CALIBRATION BLOCK

DIA. IN.	SCRIPTING MESS. MTL MATERIAL	I.D.	SCRIPTING MESS. MTL MATERIAL
B	405/0.322	A 32 TP36	405/0.322
G	405/0.280	A 32 TP36	405/0.280

CODE CLASS 2  
 LOCATION: AUX. BLDG BSMT. CHARGING PUMP ROOM



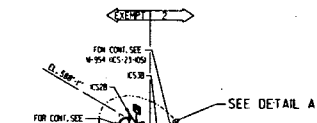
DETAIL C  
ANCHOR ASSEMBLY



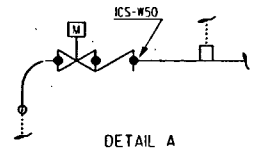
DETAIL B

NOTES:  
 1. DRAWING APPLICABLE FOR 3'-0\"/>

REFERENCE DWGS.  
 WISCONSIN STATE CODE 29



DETAIL A



ISIM-950-2

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION

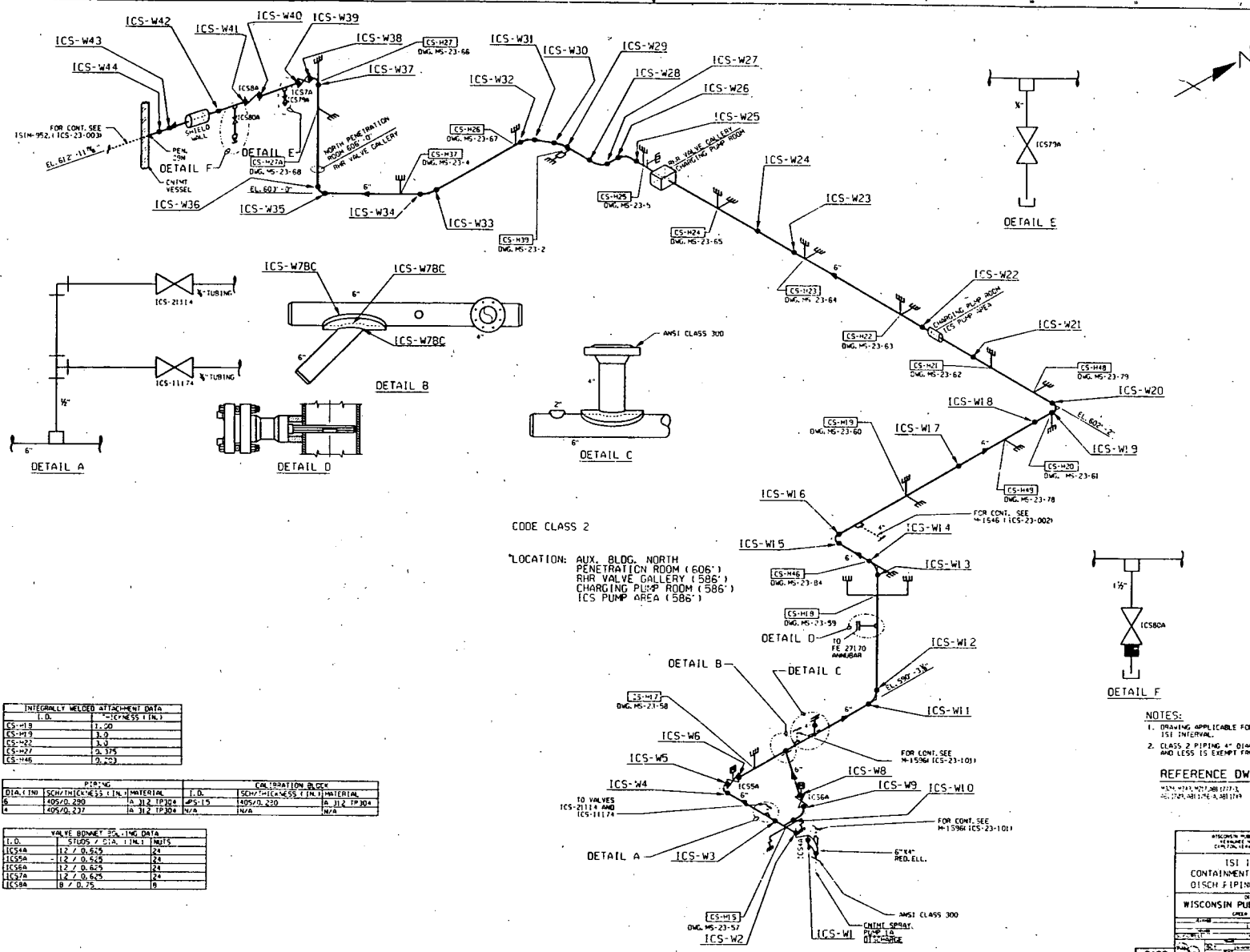
DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 01/14/99, WISCONSIN

DATE	BY	CHK'D	REV.

CADD

106-W151

106-W151



CODE CLASS 2  
 LOCATION: AUX. BLDG. NORTH PENETRATION ROOM (606')  
 RHR VALVE GALLERY (586')  
 CHARGING PUMP ROOM (586')  
 ICS PUMP AREA (586')

INTEGRALLY WELDED ATTACHMENT DATA	
I.D.	WELDED ATTACHMENT
ICS-W18	1.00
ICS-W19	3.0
ICS-W22	3.0
ICS-W27	3.375
ICS-W46	0.423

PIPING		CORROSION BLOCK	
DIAM. (IN.)	SCHW./THICKNESS (IN.)	MATERIAL	I.D.
6	405/0.280	SA-312 TP304	405/0.280
6	405/0.237	SA-312 TP304	405/0.237

VALVE BONNET SPEC. DATA	
I.D.	STUDS / DIA. / HLT. / UNITS
ICS-W4	11.2 / 0.625 / 24
ICS-W5	11.2 / 0.625 / 24
ICS-W6	11.2 / 0.625 / 24
ICS-W7	11.2 / 0.625 / 24
ICS-W8	11.2 / 0.625 / 24
ICS-W9	11.2 / 0.625 / 24
ICS-W10	11.2 / 0.625 / 24
ICS-W11	11.2 / 0.625 / 24
ICS-W12	11.2 / 0.625 / 24
ICS-W13	11.2 / 0.625 / 24
ICS-W14	11.2 / 0.625 / 24
ICS-W15	11.2 / 0.625 / 24
ICS-W16	11.2 / 0.625 / 24
ICS-W17	11.2 / 0.625 / 24
ICS-W18	11.2 / 0.625 / 24
ICS-W19	11.2 / 0.625 / 24
ICS-W20	11.2 / 0.625 / 24
ICS-W21	11.2 / 0.625 / 24
ICS-W22	11.2 / 0.625 / 24
ICS-W23	11.2 / 0.625 / 24
ICS-W24	11.2 / 0.625 / 24
ICS-W25	11.2 / 0.625 / 24
ICS-W26	11.2 / 0.625 / 24
ICS-W27	11.2 / 0.625 / 24
ICS-W28	11.2 / 0.625 / 24
ICS-W29	11.2 / 0.625 / 24
ICS-W30	11.2 / 0.625 / 24
ICS-W31	11.2 / 0.625 / 24
ICS-W32	11.2 / 0.625 / 24
ICS-W33	11.2 / 0.625 / 24
ICS-W34	11.2 / 0.625 / 24
ICS-W35	11.2 / 0.625 / 24
ICS-W36	11.2 / 0.625 / 24
ICS-W37	11.2 / 0.625 / 24
ICS-W38	11.2 / 0.625 / 24
ICS-W39	11.2 / 0.625 / 24
ICS-W40	11.2 / 0.625 / 24
ICS-W41	11.2 / 0.625 / 24
ICS-W42	11.2 / 0.625 / 24
ICS-W43	11.2 / 0.625 / 24
ICS-W44	11.2 / 0.625 / 24

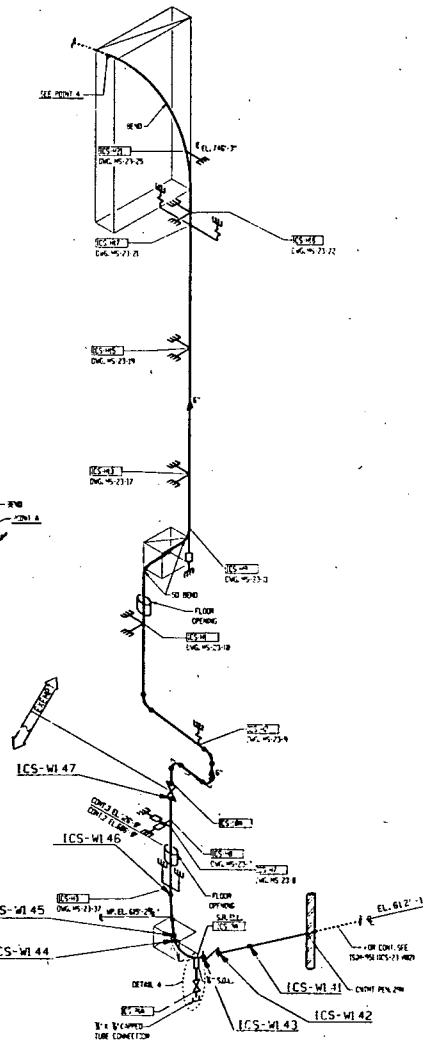
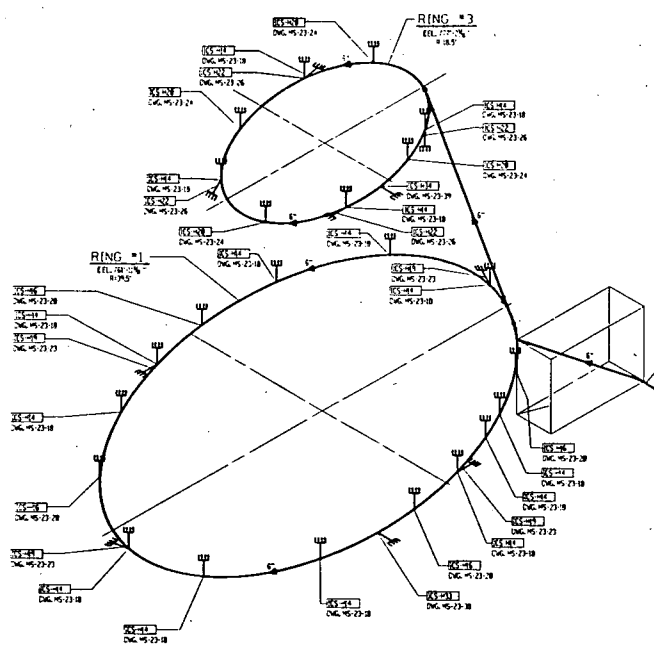
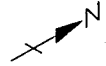
- NOTES:
- DRAWING APPLICABLE FOR 3-D USE INTERVAL.
  - CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NDE.

REFERENCE DWGS.  
 W-1546 (ICS-23-002)  
 W-1546 (ICS-23-002)

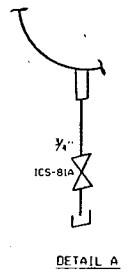
WISCONSIN PUBLIC SERVICE CORPORATION  
 ENGINEERING DEPARTMENT  
 CONTAINMENT SPRAY PUMP 1A  
 DISCH. PIPING TO PEN. 29N

DESIGNED BY: [Signature]  
 CHECKED BY: [Signature]  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 106-W151

CADD



CODE CLASS 2  
LOCATION: CONTAINMENT  
CONT. 2 ELEV. 606'-0"  
CONT. 3 ELEV. 628'-0"



VALVE BOLTING DATA	
1.0	STUDS 7 DIA. 2 INCHES
ICS-26	8/19.75
ICS-126	11/2

INTEGRALLY WELDED ATTACHMENT DATA	
1.0	TO CONNECTION
ICS-102	1.750

PIPING		CALIBRATION BLOCK	
DIAMETER	SCHEDULE/CLASS. / END FINISH	DIAMETER	SCHEDULE/CLASS. / END FINISH
6	40510.250 A 312 IP301	40510.250	A 312 IP301
6	40510.432 A 312 IP301		

REFERENCE DWGS.  
101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

- NOTES:
1. DRAWING APPLICABLE FOR 3RD ISM INTERVAL.
  2. CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NEE.

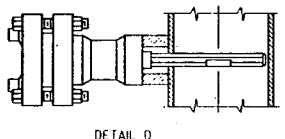
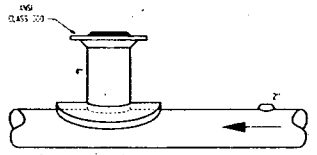
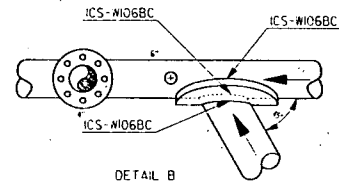
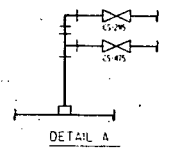
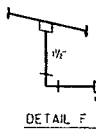
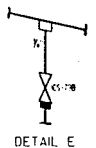
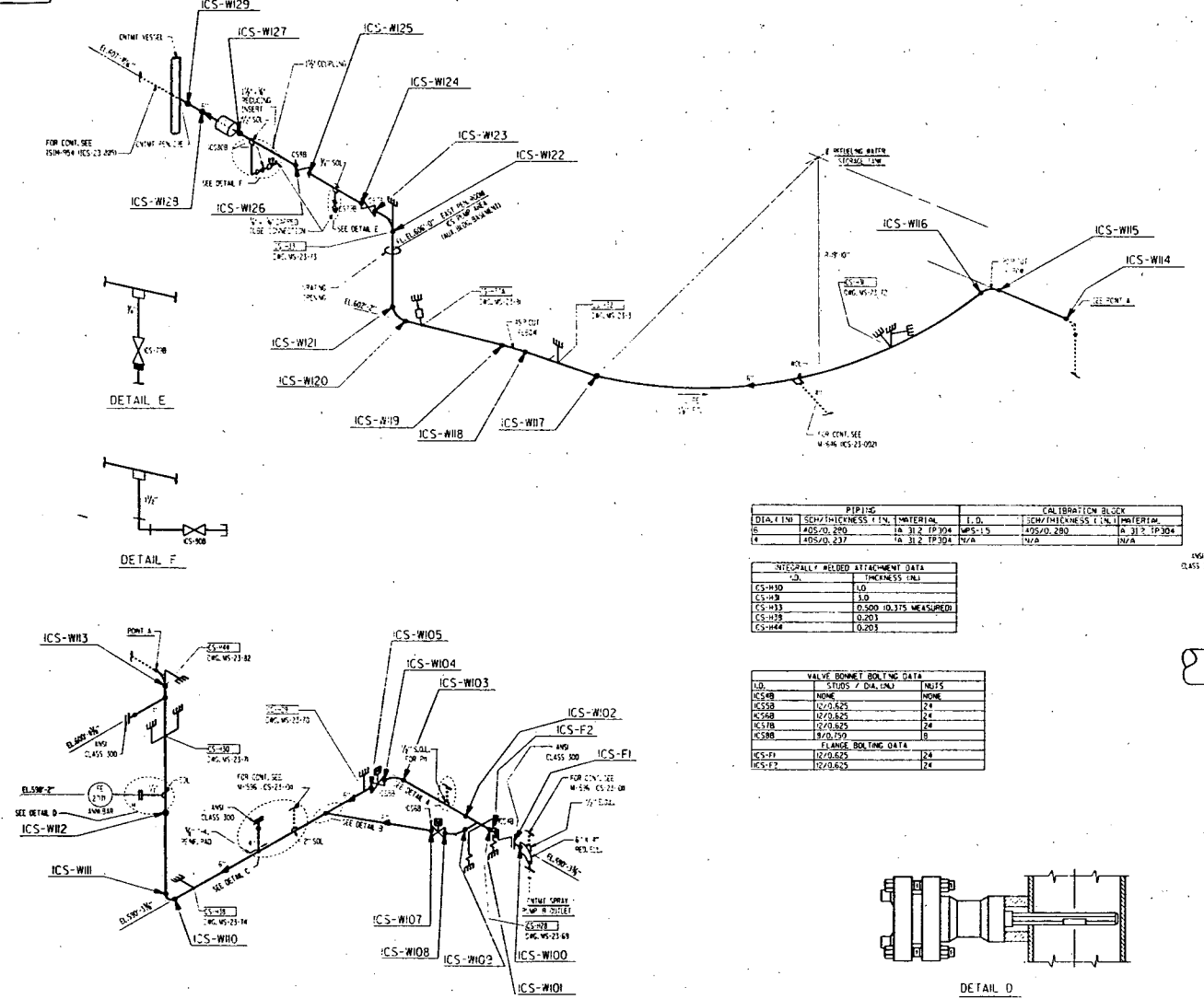
WISCONSIN PUBLIC SERVICE CORPORATION  
DIVISION OF NUCLEAR REGULATION  
CONTAINMENT COUNTY, WISCONSIN

ISSUED BY  
WISCONSIN PUBLIC SERVICE CORP.  
CREATED BY: [Name]  
DATE: [Date]

CADD: [Signature] ISM-952 (1)



ISM-953



PIPING		CALIBRATION BLOCK	
DIA. (IN)	SCH./THICKNESS (IN)	I. D.	SCH./THICKNESS (IN)
40S/D. 280	1A 3/2 TP 304	40S/D. 280	1A 3/2 TP 304
40S/D. 237	1A 3/2 TP 304	N/A	N/A

INTEGRALLY WELDED ATTACHMENT DATA	
CS	THICKNESS (IN)
CS-100	1.0
CS-10	3.0
CS-113	0.500 (0.375 MEASURED)
CS-118	0.203
CS-144	0.203

VALVE BONNET BOLTING DATA		
I. D.	STUDS / DIA. (IN)	NUTS
CS-40	NONE	NONE
CS-50	12/0.625	24
CS-58	12/0.625	24
CS-118	12/0.625	24
CS-200	8/0.159	8
FLANGE BOLTING DATA		
CS-F1	12/0.625	24
CS-F2	12/0.625	24

CODE CLASS 2  
 LOCATION: AUX. BLDG. ELEV. 606'-0"  
 EAST PENETRATION ROOM,  
 ICS PUMP AREA (AUX. BLDG. BSMT)

REFERENCE DWGS.  
 WISCONSIN PUBLIC SERVICE CORP. ISM-953

- NOTES:
- DRAWING APPLICABLE FOR 3rd ISI INTERVAL.
  - CLASS 2 PIPING AT DIAMETER AND LESS IS EXEMPT FROM ISI.

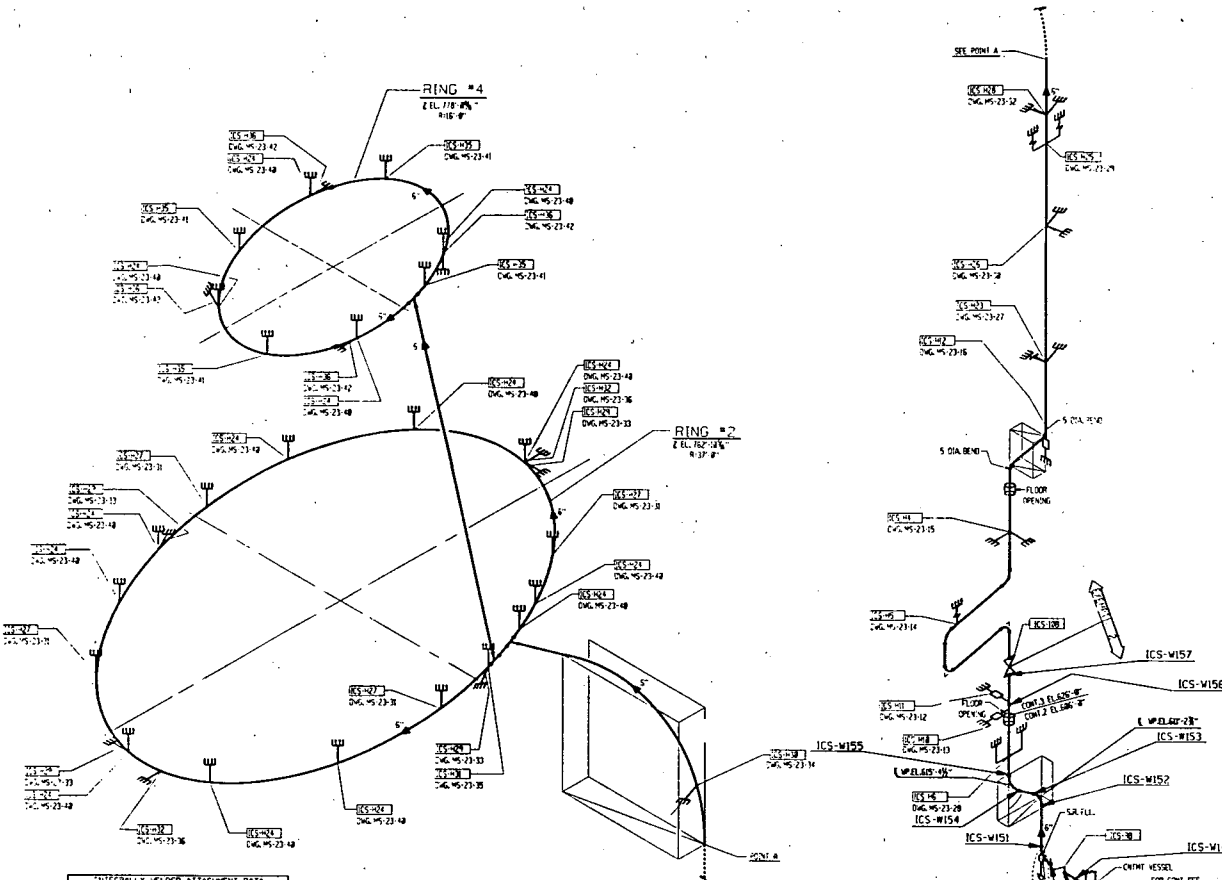
WISCONSIN PUBLIC SERVICE CORPORATION  
 ENGINEERING DEPARTMENT  
 1515 WEST WISCONSIN AVENUE  
 MADISON, WISCONSIN 53706

ISOMETRIC  
 CONTAINMENT SPRAY PUMP IB  
 DISCH PIPING TO PEN.29E

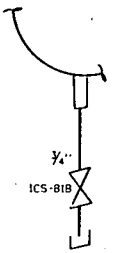
DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 CHECKED BY  
 DATE  
 DATE  
 DATE

CADD  
 ISM-953  
 (1)

956-9151



CODE CLASS 2  
 LOCATION: CONTAINMENT  
 CONT. 2 ELEV. 605' - 0"  
 CONT. 3 ELEV. 625' - 0"



DETAIL A

REFERENCE DWGS.  
 9429, 9454, 9457, 9458, 9467, 9477, 9481, 9477-2, 9481, 9489

INTEGRALLY WELDED ATTACHMENT DATA	
I. D.	THICKNESS (IN.)
ICS-15	11.3

VALVE BOLT SET BOLTING DATA	
I. D.	CLASS 2 DIA. LINE 1 INCHES
ICS-39	8.00, 7.8
ICS-18	11.2, 7.8

PIPING		CALIBRATION BLOCK	
I. D.	THICKNESS (IN.) MATERIAL	I. D.	THICKNESS (IN.) MATERIAL
15	1495/0.400 A 31.2 72304	15	1495/0.200 A 31.2 72304
18	1205/0.432 D 31.2 72304	18	1205/0.200 A 31.2 72304

NOTES:  
 1. DRAWING APPLICABLE FOR 90° IS1 INTERNAL.  
 2. CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NDE.

INTEGRATED PUBLIC SERVICE CORPORATION  
 1210 WEST WISCONSIN AVENUE  
 MILWAUKEE, WISCONSIN 53233

IS1 ISOMETRIC  
 CONTNMT SPRAY FROM CONTNMT  
 PEN 29E TO RING HEADERS 2 & 4

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.

DATE: 08/11/94

CADD

IS1M-954

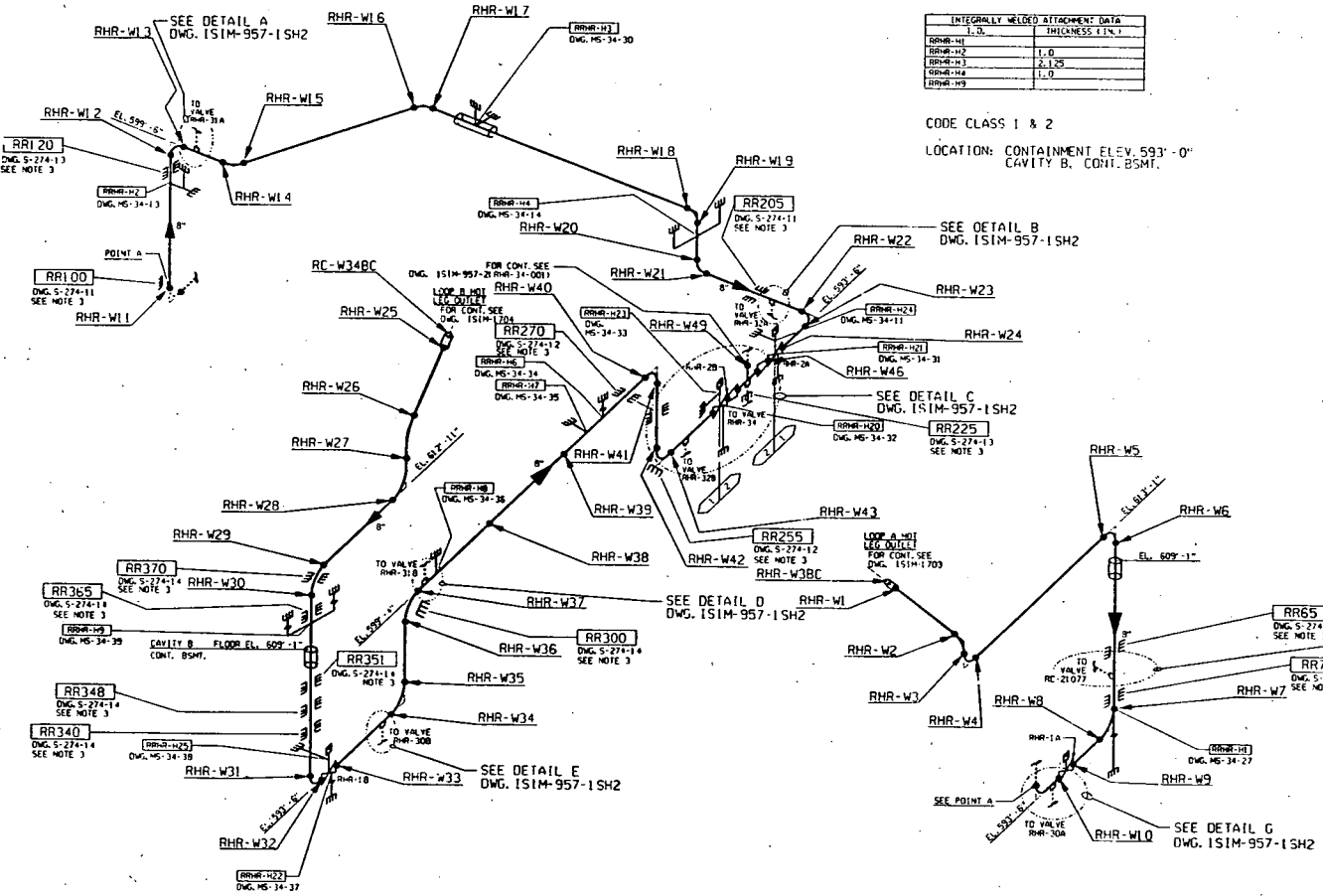


VALVE BONNET BOLTING DATA			
I.D.	VALVE	STUDS / DIA. (IN.)	UNITS
RHR-1A	VELUM VALVE CO.	GATE	16 / 1.375
RHR-2A	VELUM VALVE CO.	GATE	16 / 1.375
RHR-1B	VELUM VALVE CO.	GATE	16 / 1.375
RHR-2B	VELUM VALVE CO.	GATE	16 / 1.375

PIPING		CM FABRICATION BLOCK	
DIA. (IN.)	SCHW/THICKNESS (IN.)	MATERIAL	I.D.
14.0	8.0	316 TP316	14.0
10.0	8.0	316 TP316	10.0
10.0	8.0	316 TP316	10.0

INTEGRALLY WELDED ATTACHMENT DATA	
I.D.	THICKNESS (IN.)
RHR-H1	1.0
RHR-H2	1.0
RHR-H3	2.125
RHR-H4	1.0
RHR-H5	1.0

CODE CLASS 1 & 2  
 LOCATION: CONTAINMENT ELEV. 593'-0"  
 CAVITY B. CONT. BSMT.



- NOTES:**
1. DRAWING APPLICABLE FOR 3RD ISY INTERNAL.
  2. CLASS 1 PIPING 1" DIAMETER & LESS IS EXEMPT FROM MDE.
  3. RUPTURE RESTRAINTS ARE NOT WITHIN JURISDICTION OF ASME SECTION VIII.
  4. CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM MDE.

**REFERENCE DWGS.**  
 151M-957-151H-1  
 151M-957-151H-2  
 151M-957-151H-3  
 151M-957-151H-4  
 151M-957-151H-5  
 151M-957-151H-6  
 151M-957-151H-7  
 151M-957-151H-8  
 151M-957-151H-9  
 151M-957-151H-10  
 151M-957-151H-11  
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 151M-957-151H-100

SH. 1 OF 2

WISCONSIN PUBLIC SERVICE CORPORATION  
 151M-957-151H-1  
 151M-957-151H-2  
 151M-957-151H-3  
 151M-957-151H-4  
 151M-957-151H-5  
 151M-957-151H-6  
 151M-957-151H-7  
 151M-957-151H-8  
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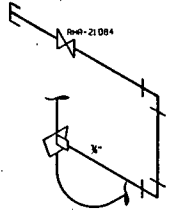




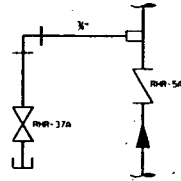


DPS1-056-W151

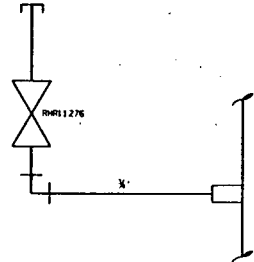
SECTION  
DATE 11/27/54  
BY J. W. B. / P. J. B.  
CHECKED BY J. W. B. / P. J. B.  
APPROVED BY J. W. B. / P. J. B.



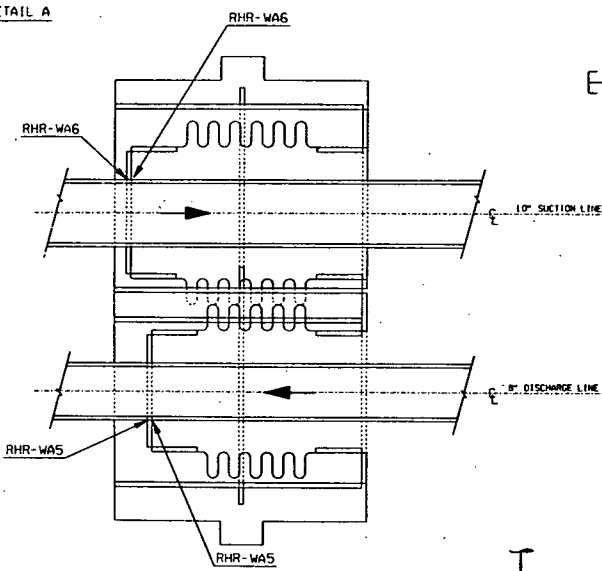
DETAIL A



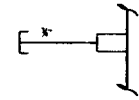
DETAIL B



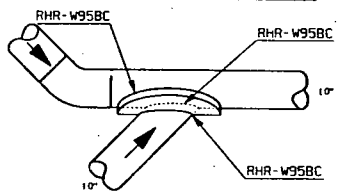
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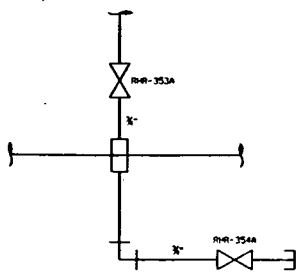
DETAIL C



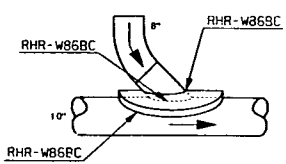
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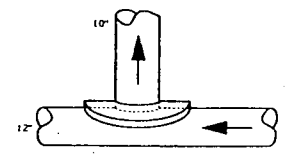
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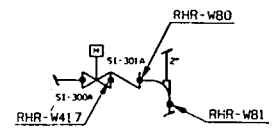
DETAIL H



DETAIL I



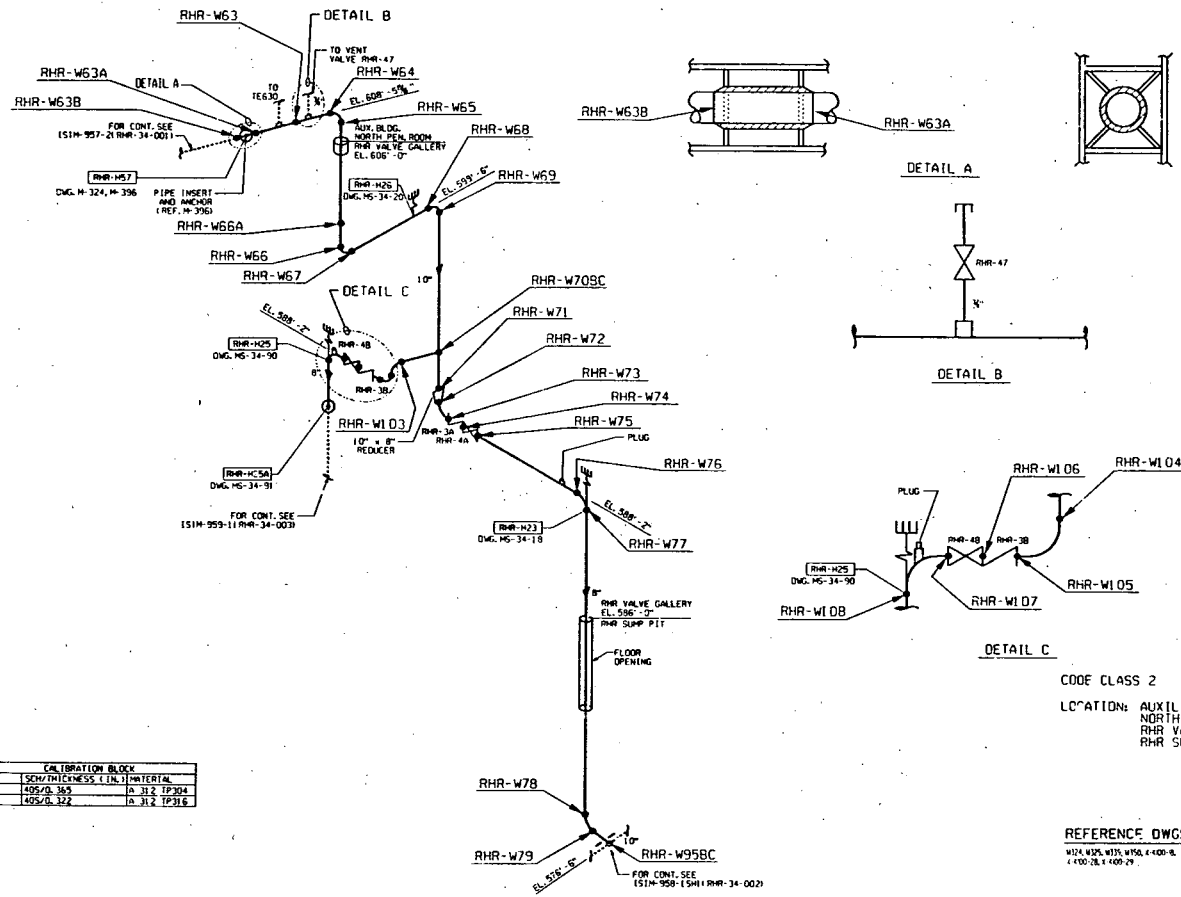
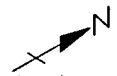
DETAIL K



DETAIL J

(SH. 2 OF 2)

WISCONSIN PUBLIC SERVICE CORPORATION	
CHARGE: RAILROAD POWER PLANT	
CANTON: WISCONSIN COUNTY, WISCONSIN	
151 - ISOMETRIC	
RHP - FROM EXHIBIT SLIP B & ANCHORS	
THRU RHP PUMP 1A TO ANCHOR ON DISCH. LINE	
DESIGNED BY	
WISCONSIN PUBLIC SERVICE CORP.	
GREEN BAY, WISCONSIN	
DATE	SCALE
BY	CHECKED
APP'D	DATE
CADD	151-958-1542



INTEGRALLY WELDED ATTACHMENT DATA

I.D.	THICKNESS (IN.)
RHR-W73	0.750
RHR-W75	0.133
RHR-W76	0.375
RHR-W77	0.500

VALVE BONNET BOLTING DATA

I.D.	STUDS / DIA. (IN.)	NUTS
RHR-38	1.4 / 0.875	28
RHR-39	1.4 / 0.875	28
RHR-48	1.8 / 0.750	32
RHR-49	1.8 / 0.750	32

PIPING

DIA. (IN.)	SCH./THICKNESS (IN.)	MATERIAL	I.D.	SCH./THICKNESS (IN.)	MATERIAL
10	40S/0.365	A 312 TP316	MS-9	40S/0.365	A 312 TP304
8	40S/0.322	A 312 TP316	MS-12	40S/0.322	A 312 TP316

COOL CLASS 2  
 LOCATION: AUXILIARY BLDG.  
 NORTH PENETRATION ROOM  
 RHR VALVE GALLERY,  
 RHR SUPP PIT

REFERENCE DWGS.  
 W514, W515, W516, 4-100-B  
 4-100-B, 4-100-29

- NOTES:
1. DRAWING APPLICABLE FOR 3RD IS1 INTERVIEW.
  2. CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NCE.

WISCONSIN PUBLIC SERVICE CORPORATION  
 3140 WISCONSIN STREET  
 MADISON, WISCONSIN 53706

151 ISOMETRIC  
 RHR FROM C/ITHE SUPP. B & ANCHORS  
 THRU RHR PUMP (A TO ANCHOR ON DISCH. LINE)

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 CHECKED BY: WISCONSIN

DATE: 10/1/83

SCALE: 1" = 10'-0"

CADD



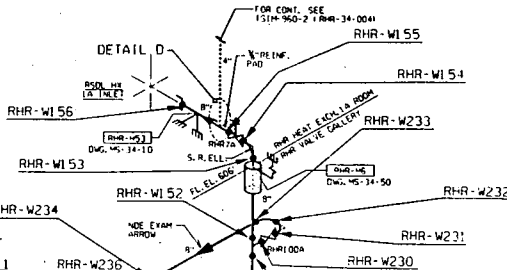
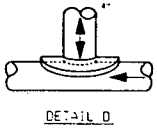
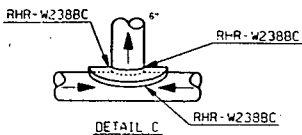






1-096-WIS

REVISION  
NO. DATE BY  
1 11/17/84 J.S.P.

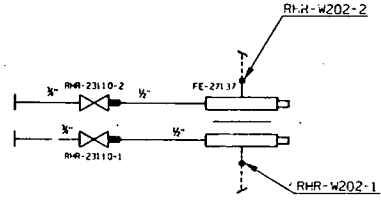
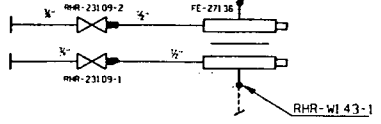
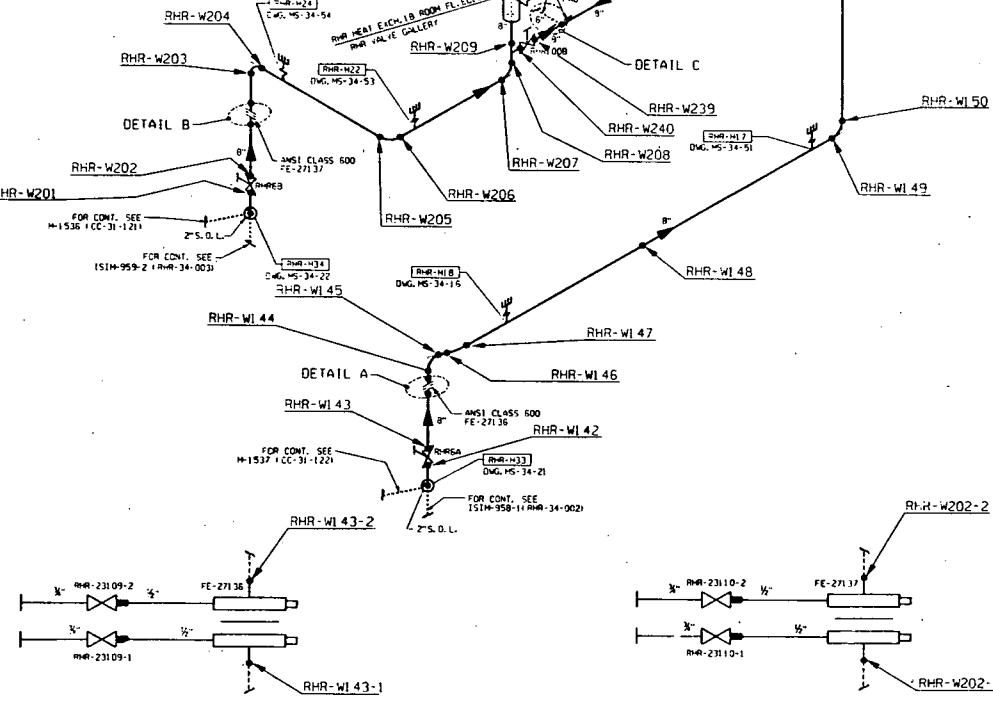


VALVE SOCKET BULKING DATA		
F.I.D.	SIEMENS / DIA. (IN.)	WTS.
RHR56A	15.7 / 0.750	32
RHR56B	15.7 / 0.750	32
RHR56C	15.7 / 0.750	32
RHR56D	15.7 / 0.750	32
RHR56E	15.7 / 0.750	32
RHR56F	15.7 / 0.750	32
FLANGE BULKING DATA		
FE-27136	11.2 / 1.125	24
FE-27137	11.2 / 1.125	24

PIPING		CALIBRATION BLOCK	
D.W.G. NO.	SOCKET/CLASS (IN.) MATERIAL	I.D.	SOCKET/CLASS (IN.) MATERIAL
10	1405/0.375 in. 316 TP316	1.0	1405/0.375 in. 316 TP316

CODE CLASS 2  
 LOCATION: AUX. BLOC.  
 RHR HEAT EXCH. 1A ROOM  
 RHR HEAT EXCH. 1B ROOM  
 RHR VALVE GALLERY

INTEGRALLY SELECTED ATTACHMENT DATA	
I.D.	THICKNESS (IN.)
RHR-145	0.25
RHR-141	0.25
RHR-143	0.50
RHR-144	1.00



NOTES:  
 1. DRAWING APPLICABLE FOR 3rd  
 1ST INTERVAL.  
 2. CLASS 2 PIPING 4" DIAMETER AND  
 LESS IS EXEMPT FROM NEE.  
 REFERENCE DWGS.  
 W27, W28, W29, W30, 4-600-8, 400-1033, 400-1032

PROVISIONS FOR SERVICE CONNECTION  
 1. ALL VALVES SHALL BE 150 LB. CLASS  
 2. ALL VALVES SHALL BE 150 LB. CLASS  
 3. ALL VALVES SHALL BE 150 LB. CLASS

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 CENTER BLDG., MADISON, WIS.

CADD  
 5/10/84  
 1-096-WIS

1116-WIS1

SECTION  
 DATE: 11/17/11  
 BY: J. J. JENSEN  
 CHECKED: J. J. JENSEN



CODE CLASS 2

LOCATION: AUX. BUILDING ELEV. 606'-0"  
 RHR HX ROOM 1B  
 RHR VALVE GALLERY

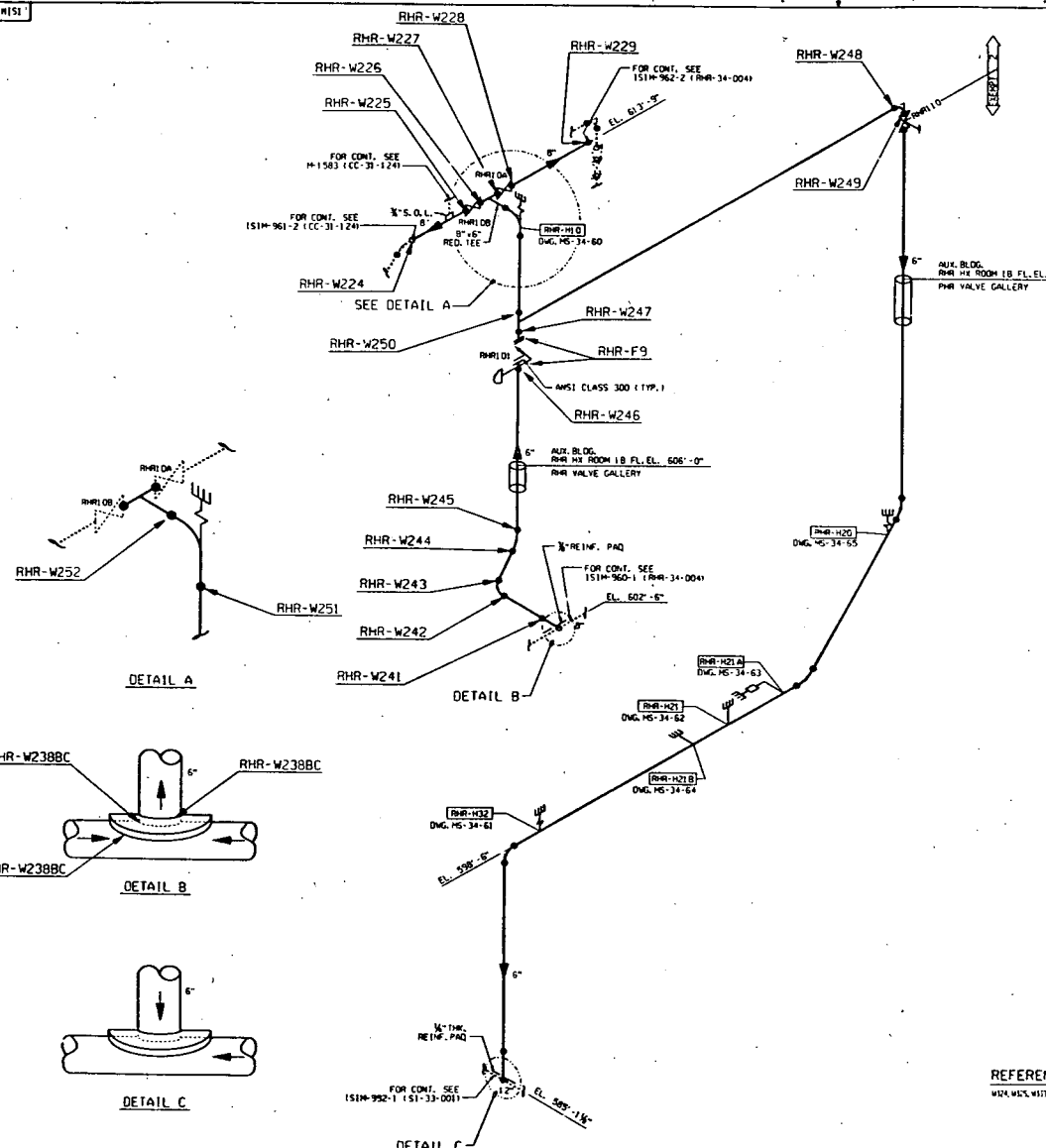
PIPING		CALCULATION BLOCK	
DIAMETER	SCH/THICKNESS (IN.) MATERIAL	I.D.	SCH/THICKNESS (IN.) MATERIAL
6"	405/0.280 1A 312 TP304	405/0.280	1A 312 TP304
8"	405/0.324 1A 325 TP316	405/0.324	1A 312 TP316

INTEGRALLY WELDED ATTACHMENT DATA	
I.D.	THICKNESS (IN.)
RHR-H10	1.0, 500

VALVE BONNET BOLTING DATA	
I.D.	STUDS / DIA. / FLAT / NUTS
RHR-H10A	16 / 0.750 / 32
RHR-H10B	16 / 0.750 / 32
RHR-H10C	NONE / NONE
RHR-H10D	16 / 0.625 / 32

FLANGE BOLTING DATA	
RHR-F9	12 / 0.750 / 24



DETAIL A

DETAIL B

DETAIL C

REFERENCE DWGS.  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 1116-WIS1, 1116-WIS2, 1116-WIS3, 1116-WIS4, 1116-WIS5, 1116-WIS6, 1116-WIS7, 1116-WIS8, 1116-WIS9, 1116-WIS10, 1116-WIS11, 1116-WIS12, 1116-WIS13, 1116-WIS14, 1116-WIS15, 1116-WIS16, 1116-WIS17, 1116-WIS18, 1116-WIS19, 1116-WIS20, 1116-WIS21, 1116-WIS22, 1116-WIS23, 1116-WIS24, 1116-WIS25, 1116-WIS26, 1116-WIS27, 1116-WIS28, 1116-WIS29, 1116-WIS30, 1116-WIS31, 1116-WIS32, 1116-WIS33, 1116-WIS34, 1116-WIS35, 1116-WIS36, 1116-WIS37, 1116-WIS38, 1116-WIS39, 1116-WIS40, 1116-WIS41, 1116-WIS42, 1116-WIS43, 1116-WIS44, 1116-WIS45, 1116-WIS46, 1116-WIS47, 1116-WIS48, 1116-WIS49, 1116-WIS50, 1116-WIS51, 1116-WIS52, 1116-WIS53, 1116-WIS54, 1116-WIS55, 1116-WIS56, 1116-WIS57, 1116-WIS58, 1116-WIS59, 1116-WIS60, 1116-WIS61, 1116-WIS62, 1116-WIS63, 1116-WIS64, 1116-WIS65, 1116-WIS66, 1116-WIS67, 1116-WIS68, 1116-WIS69, 1116-WIS70, 1116-WIS71, 1116-WIS72, 1116-WIS73, 1116-WIS74, 1116-WIS75, 1116-WIS76, 1116-WIS77, 1116-WIS78, 1116-WIS79, 1116-WIS80, 1116-WIS81, 1116-WIS82, 1116-WIS83, 1116-WIS84, 1116-WIS85, 1116-WIS86, 1116-WIS87, 1116-WIS88, 1116-WIS89, 1116-WIS90, 1116-WIS91, 1116-WIS92, 1116-WIS93, 1116-WIS94, 1116-WIS95, 1116-WIS96, 1116-WIS97, 1116-WIS98, 1116-WIS99, 1116-WIS100.

NOTE:  
 1. DRAWING APPLICABLE FOR 3RD ISI INTERVAL.  
 2. CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM HDE.

ISM-961-1

WISCONSIN PUBLIC SERVICE CORPORATION  
 1116-WIS1

DESIGNED BY: J. J. JENSEN  
 DRAWN BY: J. J. JENSEN  
 CHECKED BY: J. J. JENSEN  
 DATE: 11/17/11

SCALE: AS SHOWN

PROJECT: 1116-WIS1

REV: 1-3

















146-W51

INTEGRALLY WELDED ATTACHMENT DATA		
I.D.	THICKNESS IN.	
RR1505 (FW-WA1505)	1.0	
RR1511 (FW-WA1511)	1.0	
RR1515 (FW-WA1515)	1.0	
RR1521 (FW-WA1521)	1.0	
RR1527 (FW-WA1527)	1.0	
RR1533 (FW-WA1533)	1.0	
FW-WA117	1.528	

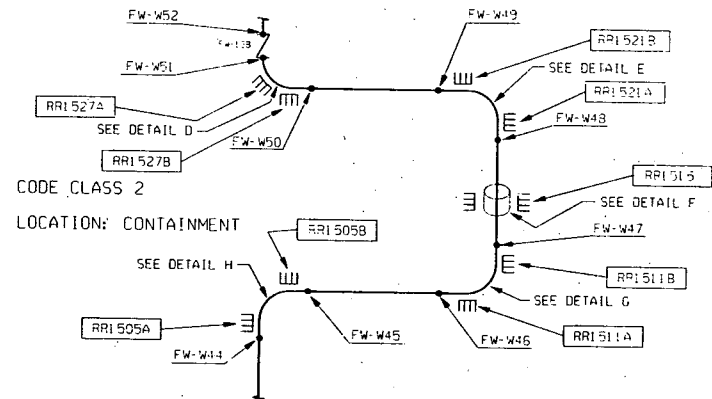
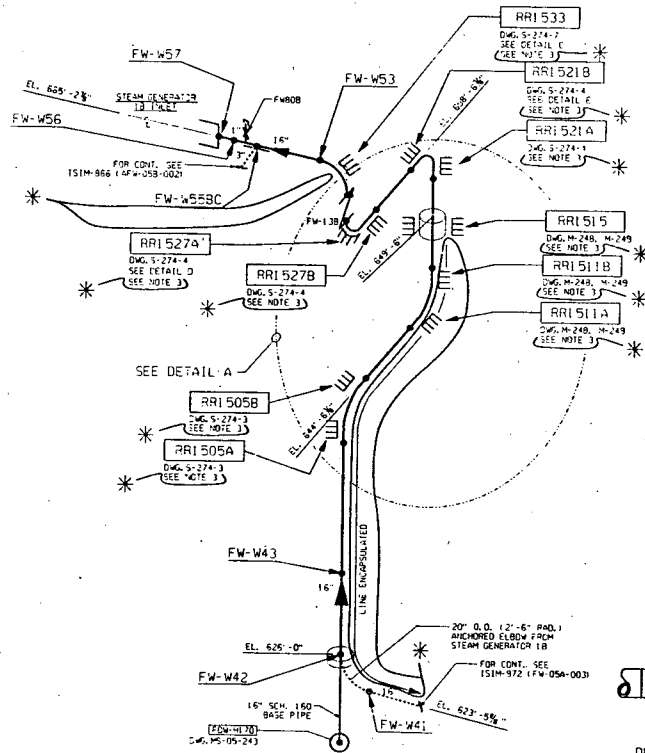
PIPING				EQUIBRATION BLOCK			
O.D. IN.	SCH./THICKNESS IN.	MATERIAL	I.D.	SCH./THICKNESS IN.	MATERIAL	I.D.	
1.6	140/1.318	SA 106 GR. B	1.4071	438	SA 106 GR. B	1.406	
1.6	140/1.318	SA 106 GR. B	1.4071	438	SA 106 GR. B	1.406	
1.5	140/1.318	SA 106 GR. B	1.4071	438	SA 106 GR. B	1.406	

VALVE BODY BOLTING DATA		
VALVE I.D. (STANDARD) IN.	NUTS	
1.4138	4	

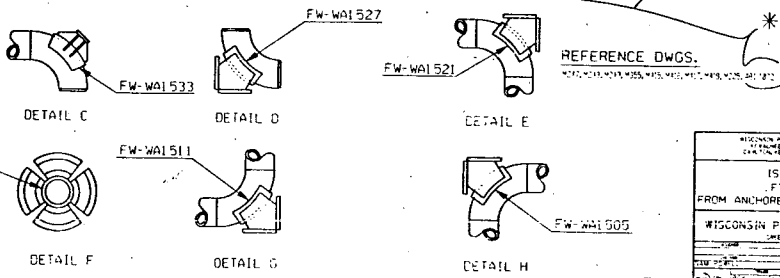
ESR 92177 \*  
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REVISION  
 1. 10/15/83  
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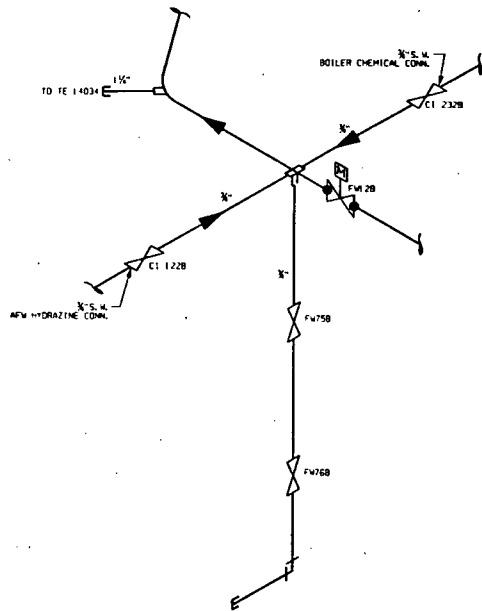
NOTE:  
 1. DRAWING APPLICABLE FOR 3RD ISI INTERNAL.  
 2. CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NOE.  
 3. SLOPE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.



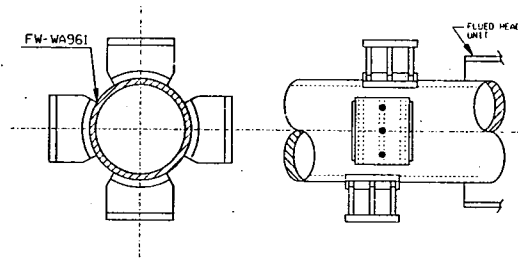
WISCONSIN PUBLIC SERVICE CORPORATION  
 151 ISOMETRIC  
 FEEDWATER  
 FROM ANCHORED ELL TO STM GEN. 1B  
 WISCONSIN PUBLIC SERVICE CORP.  
 CADD

CHS1-226-WIS1

REVISION	
1	AS SHOWN



DETAIL D



DETAIL B

NOTES:  
 1. DRAWING APPLICABLE FOR 3RD  
 ISI INTERVAL.

(SH 2 OF 2)

WISCONSIN PUBLIC SERVICE CORPORATION 1515 WISCONSIN STREET, MILWAUKEE, WISCONSIN 53233	
DESIGNED BY WISCONSIN PUBLIC SERVICE CORP.	
DATE	151M-972-15M2
SCALE	AS SHOWN
CADD	151M-972-15M2   1.0

151M-972-15M2

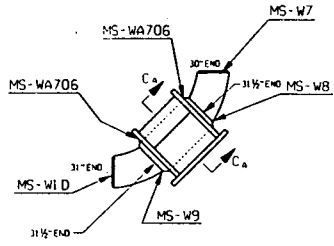




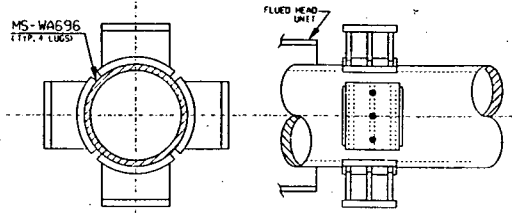


ZMS2-986-MS1

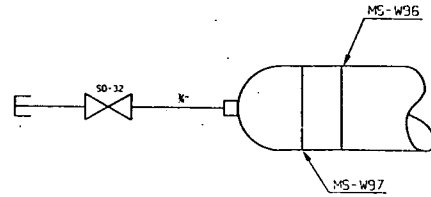
REVISION  
FILED 1981 0556  
BY WPS  
P&H ECR 42-117  
400-1001 11-16-83  
1.5.16.2000 11-16-83



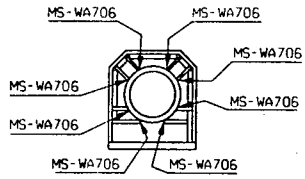
DETAIL C



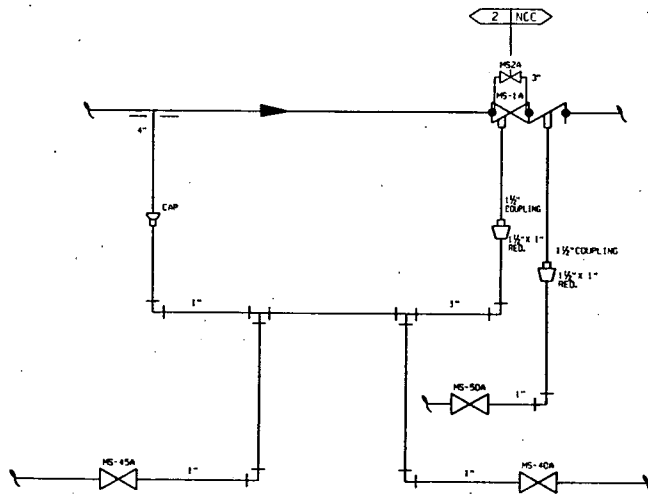
DETAIL D



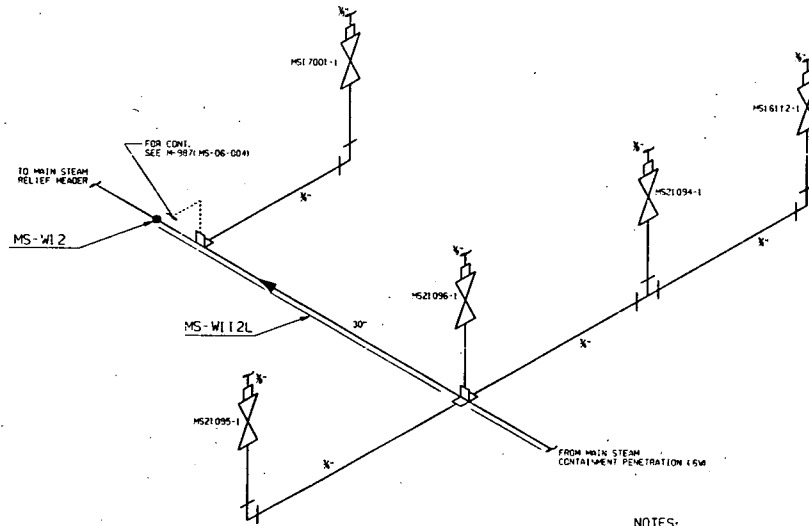
DETAIL G



SECTION C-A-C-A



DETAIL F



DETAIL H

NOTES:  
1. DRAWING APPLICABLE FOR 3PD  
1ST INTERVAL.

151M-984-25H2

(SH. 2 OF 3)

ATOMIC PUBLIC SERVICE CORPORATION  
11700 WISCONSIN AVENUE, WEST  
EAU CLAIRE, WISCONSIN 54601

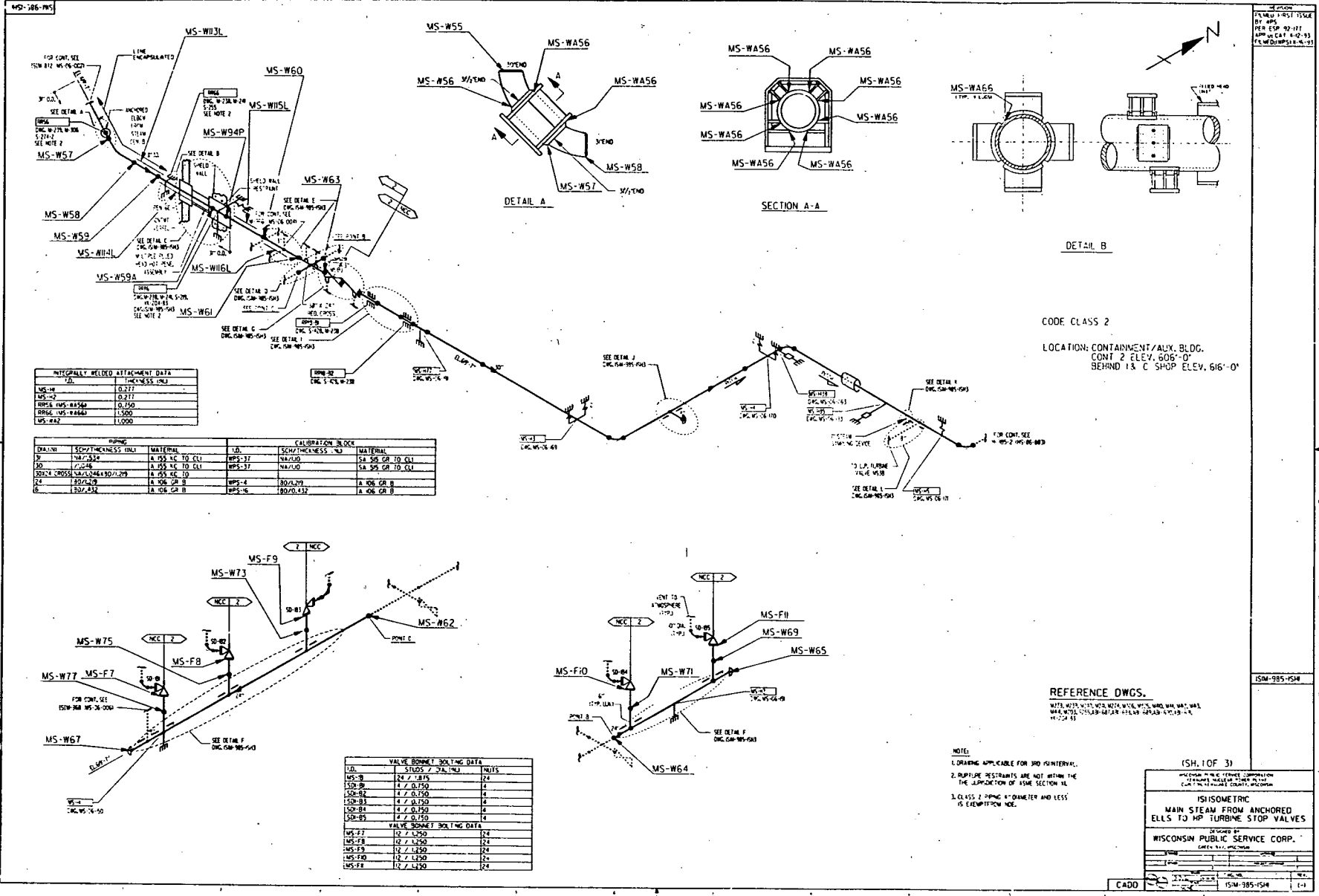
ISI DETAILS SHEET 2  
MAIN STEAM - FROM ANCHORED  
ELLS TO HP TURBINE STOP VALVES

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
SALES & SERVICE

DATE	BY	CHECKED	APPROVED

CADD 151M-984-25H2 1-9





DRAWN BY: MRS. J. L. HARRIS  
 CHECKED BY: MRS. J. L. HARRIS  
 DATE: 10-10-54  
 PROJECT: 15M-985-154

**MANUALLY WELDED ATTACHMENT DATA**

NO.	THICKNESS (IN)
MS-W	0.277
MS-W2	0.277
RR66, MS-W56A	0.150
RR66, MS-W66B	1.500
MS-W67	1.000

**PIPE**

DR. NO.	SCH. THICKNESS (IN)	MATERIAL	NO.	SCH. THICKNESS (IN)	MATERIAL
31	1/2	A 106 GR. TO CL	MS-37	1/2	SA 516 GR. TO CL
30	1/2	A 106 GR. TO CL	MS-37	1/2	SA 516 GR. TO CL
30 1/2	1/2	A 106 GR. TO CL	MS-37	1/2	SA 516 GR. TO CL
31 1/2	1/2	A 106 GR. TO CL	MS-37	1/2	SA 516 GR. TO CL
32	1/2	A 106 GR. TO CL	MS-37	1/2	SA 516 GR. TO CL
33	1/2	A 106 GR. TO CL	MS-37	1/2	SA 516 GR. TO CL
34	1/2	A 106 GR. TO CL	MS-37	1/2	SA 516 GR. TO CL
35	1/2	A 106 GR. TO CL	MS-37	1/2	SA 516 GR. TO CL

**VALVE BONNET BOLTING DATA**

NO.	STDS.	SIZE	UNITS
MS-F7	1/2	1.250	IN
MS-F8	1/2	1.250	IN
MS-F9	1/2	1.250	IN
MS-F10	1/2	1.250	IN
MS-F11	1/2	1.250	IN
MS-F12	1/2	1.250	IN

CODE CLASS 2  
 LOCATION: CONTAINMENT/ALX. BLDG.  
 CONT. 2 ELEV. 605'-0"  
 BEHIND I & C SHOP ELEV. 616'-0"

**REFERENCE DWGS.**  
 WITH THIS SET, SEE ALSO: MS-W, MS-W6, MS-W7, MS-W8, MS-W9, MS-W10, MS-W11, MS-W12, MS-W13, MS-W14, MS-W15, MS-W16, MS-W17, MS-W18, MS-W19, MS-W20, MS-W21, MS-W22, MS-W23, MS-W24, MS-W25, MS-W26, MS-W27, MS-W28, MS-W29, MS-W30, MS-W31, MS-W32, MS-W33, MS-W34, MS-W35, MS-W36, MS-W37, MS-W38, MS-W39, MS-W40, MS-W41, MS-W42, MS-W43, MS-W44, MS-W45, MS-W46, MS-W47, MS-W48, MS-W49, MS-W50, MS-W51, MS-W52, MS-W53, MS-W54, MS-W55, MS-W56, MS-W57, MS-W58, MS-W59, MS-W60, MS-W61, MS-W62, MS-W63, MS-W64, MS-W65, MS-W66, MS-W67, MS-W68, MS-W69, MS-W70, MS-W71, MS-W72, MS-W73, MS-W74, MS-W75, MS-W76, MS-W77, MS-W78, MS-W79, MS-W80, MS-W81, MS-W82, MS-W83, MS-W84, MS-W85, MS-W86, MS-W87, MS-W88, MS-W89, MS-W90, MS-W91, MS-W92, MS-W93, MS-W94, MS-W95, MS-W96, MS-W97, MS-W98, MS-W99, MS-W100.

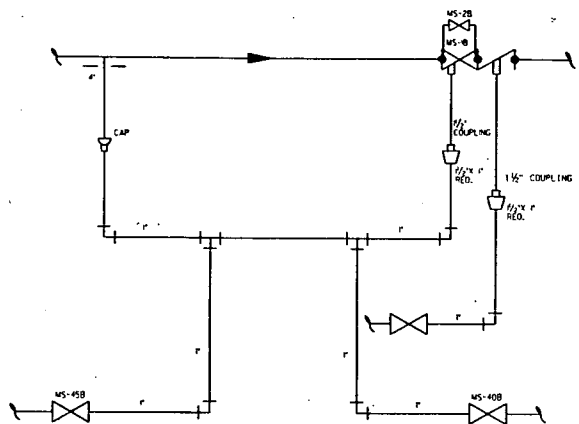
- NOTES**
- DRAWING APPLICABLE FOR SHOP INTERFERENCE.
  - RUPURE REQUIREMENTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION II.
  - CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NDE.

(ISH. 10F. 3)

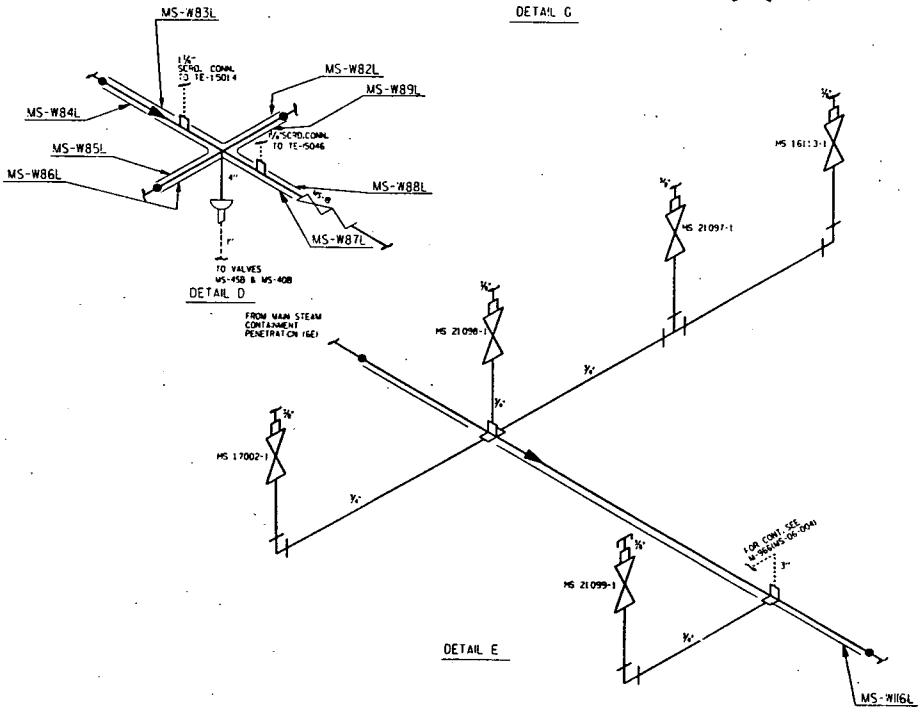
WISCONSIN PUBLIC SERVICE CORPORATION  
 ENGINEERING DEPARTMENT  
 15M-985-154  
 MAIN STEAM FROM ANCHORED ELLS TO HP TURBINE STOP VALVES  
 DRAWN BY: MRS. J. L. HARRIS  
 CHECKED BY: MRS. J. L. HARRIS  
 DATE: 10-10-54  
 PROJECT: 15M-985-154

740-586-MS

REVISION  
FORM 1-20-54  
BY MS  
PER ISM 85-115  
APP'D (41) (10-91)  
EXAM'D (41) (10-91)



DETAIL G



DETAIL D

DETAIL E

ISM-985-SM2

(SH. 2 OF 3)

WISCONSIN PUBLIC SERVICE CORPORATION  
 117 NORTH WASHINGTON STREET  
 MILWAUKEE, WISCONSIN 53202

ISOMETRIC  
 MAIN STEAM FROM ANCHORED  
 ELLS TO HP TURBINE STOP VALVES

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.

DATE: 10/15/85  
 DRAWN BY: [blank]  
 CHECKED BY: [blank]  
 APPROVED BY: [blank]

SCALE: AS SHOWN

PROJECT: [blank]

NO. 1000

DATE: 10/15/85

BY: [blank]

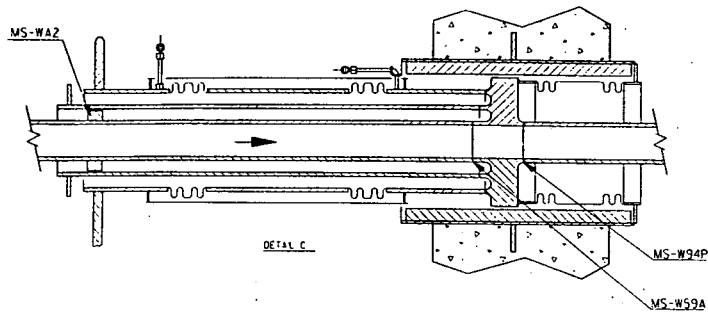
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1000

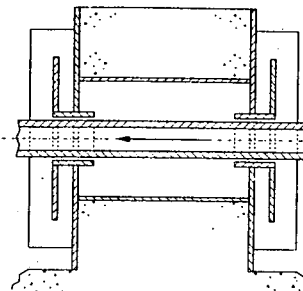
C400

MS-C36-MS

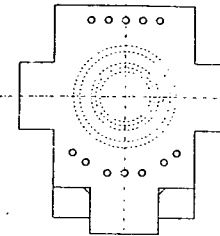
REVISION  
REVISION 1  
BY: JMS  
DATE: 04-11-77  
APP. CAT. 0-10-73  
ELEM. (MS) 4-6-73



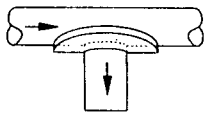
DETAIL C



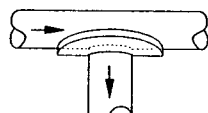
DETAIL I



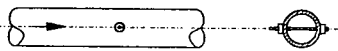
TYP. BOTH ENDS



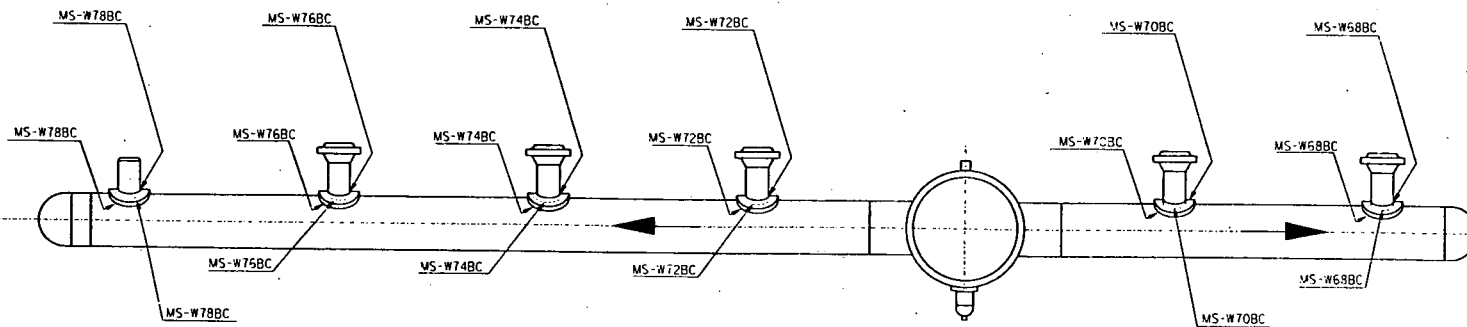
DETAIL J



DETAIL L



DETAIL K



DETAIL F

ISM-395-1543

(SH. 3 OF 3)

WISCONSIN PUBLIC SERVICE CORPORATION  
 ENGINEERING DEPARTMENT  
 1110 WEST WISCONSIN AVENUE  
 MILWAUKEE, WISCONSIN 53233

ISOMETRIC  
 MAIN STEAM FROM ANCHORED  
 ELLS TO HP TURBINE STOP VALVES

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 DATE: 04-11-77

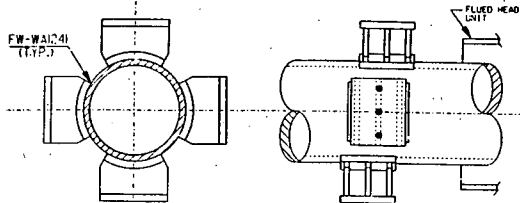
CADD

ISM-395-1543

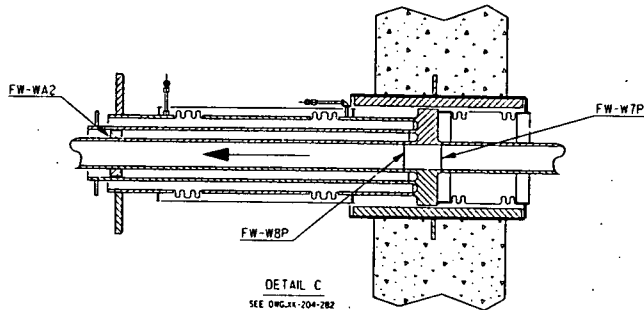
(-)



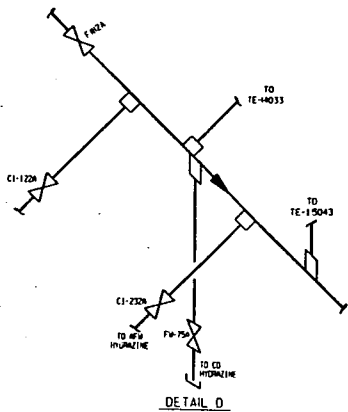
ZHS66-WSI



DETAIL B  
RESISTANT BRACKET (FR 241)  
INACCESSIBLE



DETAIL C  
SEE DWG. 14-204-282  
RR 423



DETAIL D

REVISION  
 DRAWN FIRST ISSUE  
 BY: JPS  
 P.W. 104 12 177  
 APPROVAL 10-24-93  
 FILED 10-24-93  
 2-11  
 CHECK NOTE 1  
 PER P.W. 0256  
 BY: TOL 11-18-93  
 CHK'D: JPS 12-22-93  
 APP'D: GAT 12-22-93  
 2-11  
 PER P.W. 0256 COMPL.  
 SEE REV. 0-1  
 FILED: WPS 12-27-93

0-1  
 RE PUR 0256

NOTES:  
 1. DRAWING APPLICABLE FOR 90  
 PSI INTERNAL

(SH 2 OF 2)

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 1500 WEST WISCONSIN AVENUE  
 MILWAUKEE, WISCONSIN 53233

ISOMETRIC  
 FEEDWATER FROM ANCHOR NEAR HTRS  
 TO ANCHORED ELLS INSIDE CNTMT

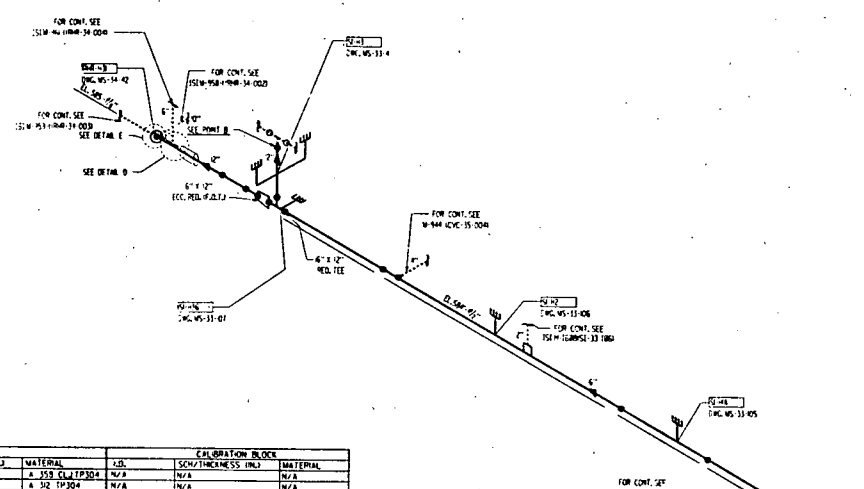
DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.

CADD

1504-99542 A

1-266-WPS

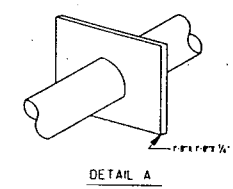
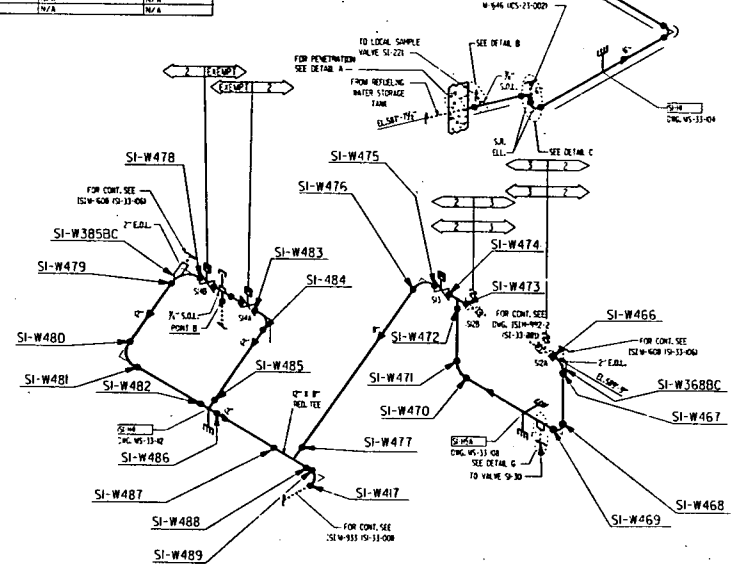
PROJECT  
 FARM TRUST FUND  
 SI WPS  
 10/10/10  
 APPRO. CAT. 10-A-13  
 1/16/2010 10/20/10



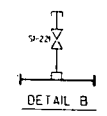
PIPING		CALCULATION BLOCK	
DIAM.	SCH./THICKNESS (IN.)	MATERIAL	MATERIAL
6"	20 / 0.25	A. 304 CL1P304	N/A
8"	20 / 0.25	A. 304 CL1P304	N/A
8"	20 / 0.25	A. 304 CL1P304	N/A

VALVE BONNET SIZING DATA	
VALVE	STUDS / DIA. (IN.)
SI-W478	20 / 0.25
SI-W479	20 / 0.25
SI-W480	20 / 0.25
SI-W481	20 / 0.25
SI-W482	20 / 0.25
SI-W483	20 / 0.25
SI-W484	20 / 0.25
SI-W485	20 / 0.25
SI-W486	20 / 0.25
SI-W487	20 / 0.25
SI-W488	20 / 0.25
SI-W489	20 / 0.25

INTEGRALLY WELDED ATTACHMENT DATA	
VALVE	THICKNESS (IN.)
SI-W478	0.237



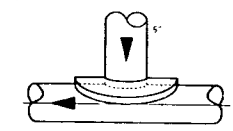
DETAIL A



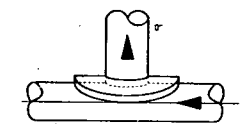
DETAIL B



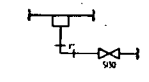
DETAIL C



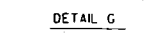
DETAIL D



DETAIL E



DETAIL F



DETAIL G

LOCATION: AUXILIARY BLDG. 586'  
 SAFETY INJECTION PUMP AREA  
 REFERENCE DWGS.  
 W32, W33 & 100-73

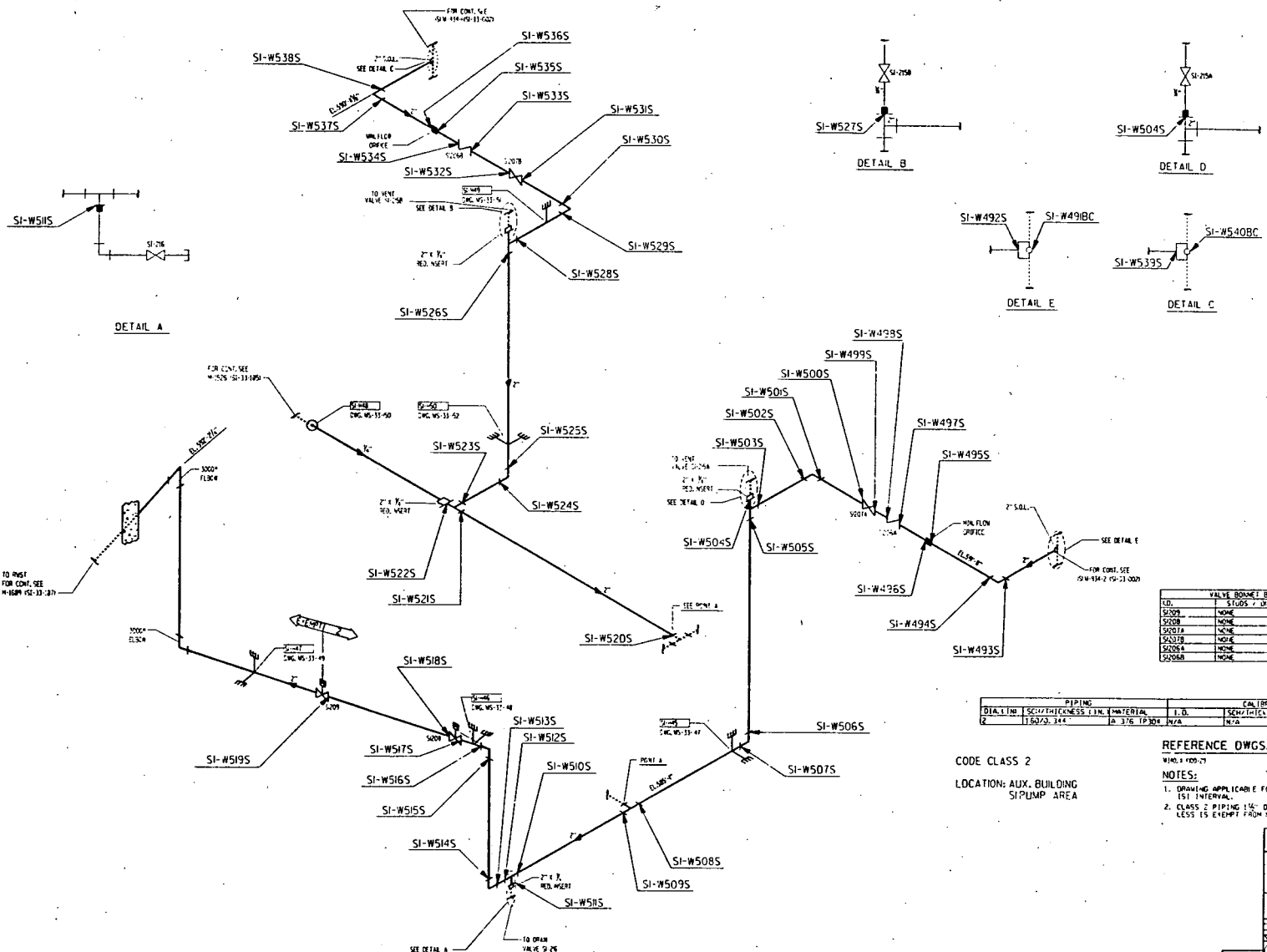
NOTES  
 1. DRAWING APPLICABLE FOR 3rd STARTUP.  
 2. CLASS 2 PIPING, 1/2" DIAMETER AND  
 LESS IS EXEMPT FROM NRC.

WISCONSIN PUBLIC SERVICE CORPORATION 2020 WEST WISCONSIN STREET MILWAUKEE, WISCONSIN 53233	
ISOMETRIC SAFETY INJECTION PUMPS SUCTION PIPING	
DRAWN BY: J. J. HARRIS	
CHECKED BY: J. J. HARRIS	
APPROVED BY: J. J. HARRIS	
DATE: 10/20/10	
PROJECT: FARM TRUST FUND	
SHEET: 1-1	
CADD	



666-W51

REV	DATE	BY	CHKD	DESCRIPTION
1	11-14-93	...	...	...
2	11-14-93	...	...	...
3	11-14-93	...	...	...



VALVE BODY BONDING DATA			
VAL	STDS / U.S. LBS.	U.S.	U.S.
SI-W500S	NONE	NONE	NONE
SI-W502S	NONE	NONE	NONE
SI-W503S	NONE	NONE	NONE
SI-W504S	NONE	NONE	NONE
SI-W505S	NONE	NONE	NONE
SI-W506S	NONE	NONE	NONE

PIPING		CALIBRATION BLOCK	
DIA. I.D.	SEW./THICKNESS I.D. MATERIAL	I.D.	SEW./THICKNESS I.D. MATERIAL
2	1162/3.344	1A	376 TP 304 IN/A

CODE CLASS 2  
LOCATION: AUX. BUILDING  
SI PUMP AREA

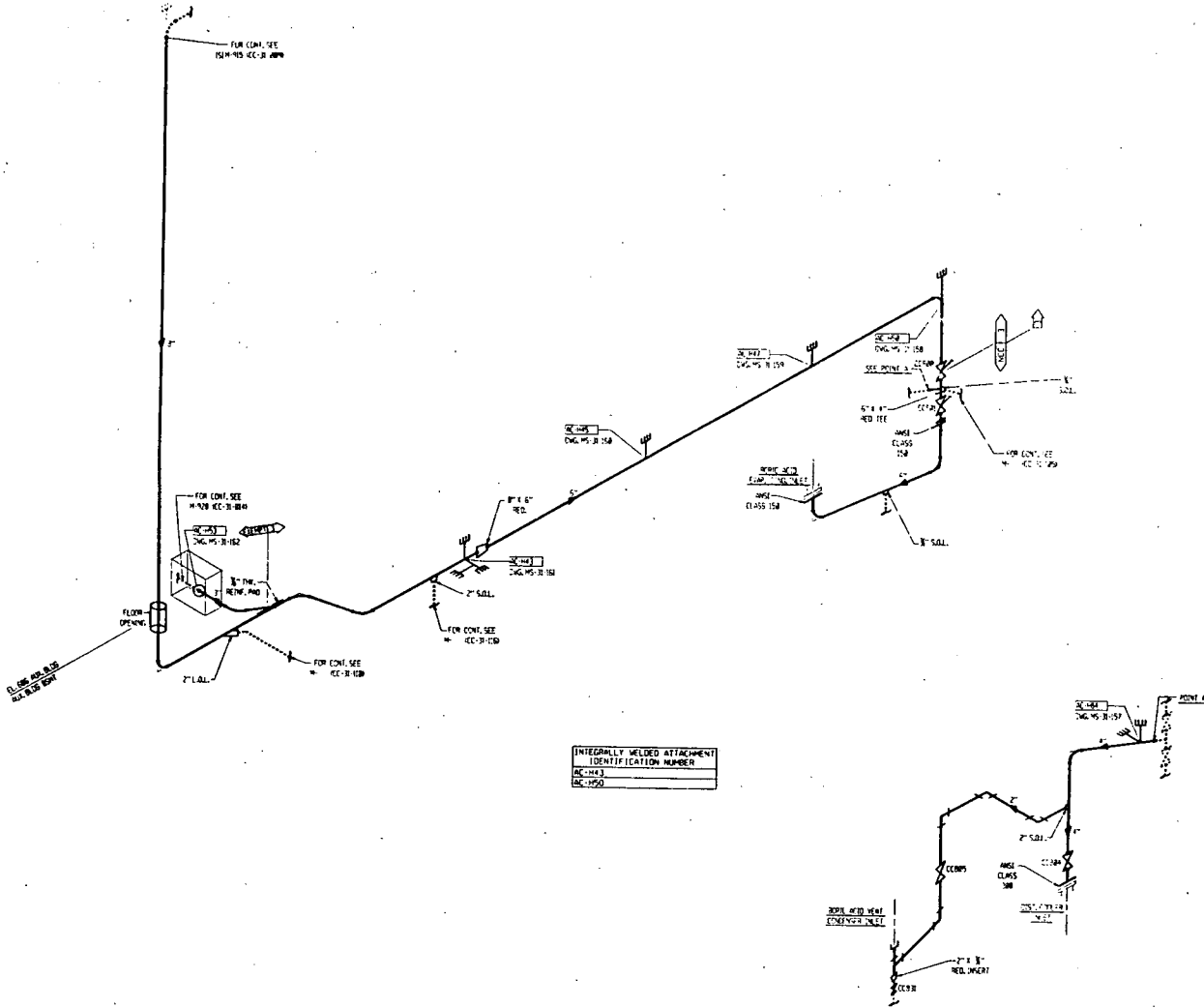
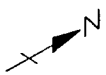
REFERENCE DWGS.

- WHD. 4 100.71
- NOTES:
1. DRAWING APPLICABLE FOR 3rd EST. INTERVAL.
  2. CLASS 2 PIPING 1/2" DIAMETER AND LESS IS EXEMPT FROM NDE.

WISCONSIN PUBLIC SERVICE CORPORATION  
PERMITS AND SAFETY DIVISION  
DESIGNED BY: WISCONSIN PUBLIC SERVICE CORP.  
DATE: 11-14-93

566-WISI

11/10/06  
DESIGNED BY: JES  
CHECKED BY: JES  
DATE: 11/10/06



CODE CLASS 1  
LOCATION: AUX. BLDG. ELEV. 606. AUX. BLDG.  
RSMT. BOROIC ACID EVAP. ROOM

INTEGRALLY WELDED ATTACHMENT  
IDENTIFICATION NUMBER  
AC-1543  
AC-1550

REFERENCE DWGS.  
157, 152 & 158-18

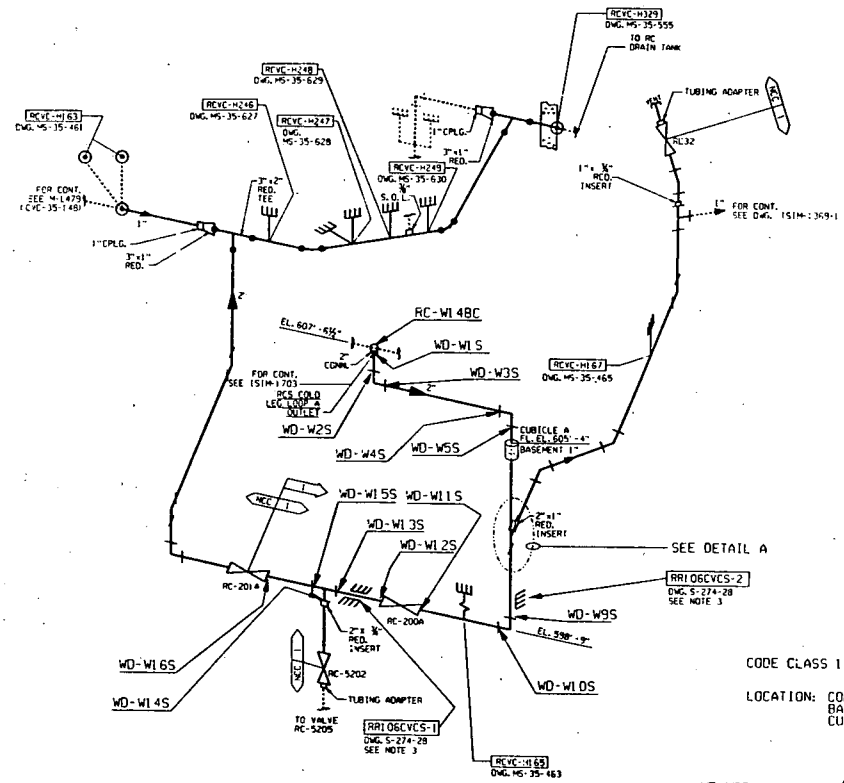
NOTES:  
1) DRAWING IS APPLICABLE FOR 300 IS1 INTERNAL  
2) CLASS 3 PIPING 4" AND LESS IS EXEMPT FROM 11-1  
REQUIREMENTS OF TABLES 140.500-1 & 140.500-1

ISIM-999

WISCONSIN PUBLIC SERVICE CORPORATION			
151 ISOMETRIC			
CC-FROM ANCHOR TO RSOL. MX 1B.			
PENS 32N, 39, 12E & BA EVAP. PKG. INLT.			
DESIGNED BY: JES			
CHECKED BY: JES			
DATE: 11/10/06			
PROJECT: 151-999			
DRAWN BY: JES			
SCALE: 1" = 10'-0"			
APPROVED BY: J.A. TOWES			
CADD		ISIM-999	(1)

2-69C1-WIS1

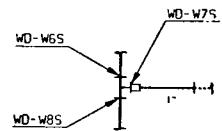
REVISION  
 1. 11/18/92  
 2. 11/18/92  
 3. 11/18/92  
 4. 11/18/92



VALVE BONNET BOLTING DATA			
I. D.	SIZES / DIA.	I. D.	INDES.
RC-200A	NONE	NONE	NONE
RC-201A	NONE	NONE	NONE

PIPING		CALIBRATION BLOCK	
DIA. (IN.)	SEW/THICKNESS (IN.) / MATERIAL	I. D.	SEW/THICKNESS (IN.) / MATERIAL
2	150/0.374	1.5	150/0.374
		1.5	150/0.374

CODE CLASS 1  
 LOCATION: CONTAINMENT  
 BASEMENT ELEV. 593'.  
 CUBICLE A



DETAIL A

- NOTES:
- DRAWING APPLICABLE FOR 3'-0" ISI INTERVAL.
  - CLASS 1 PIPING 1" DIAMETER AND LESS IS EXEMPT FROM NOE.
  - REPARE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.

REFERENCE DWGS.  
 1. 11/18/92  
 2. 11/18/92  
 3. 11/18/92  
 4. 11/18/92

WISCONSIN PUBLIC SERVICE CORPORATION  
 ENGINEERING DEPARTMENT  
 1515 WEST WISCONSIN AVENUE  
 MILWAUKEE, WISCONSIN 53233

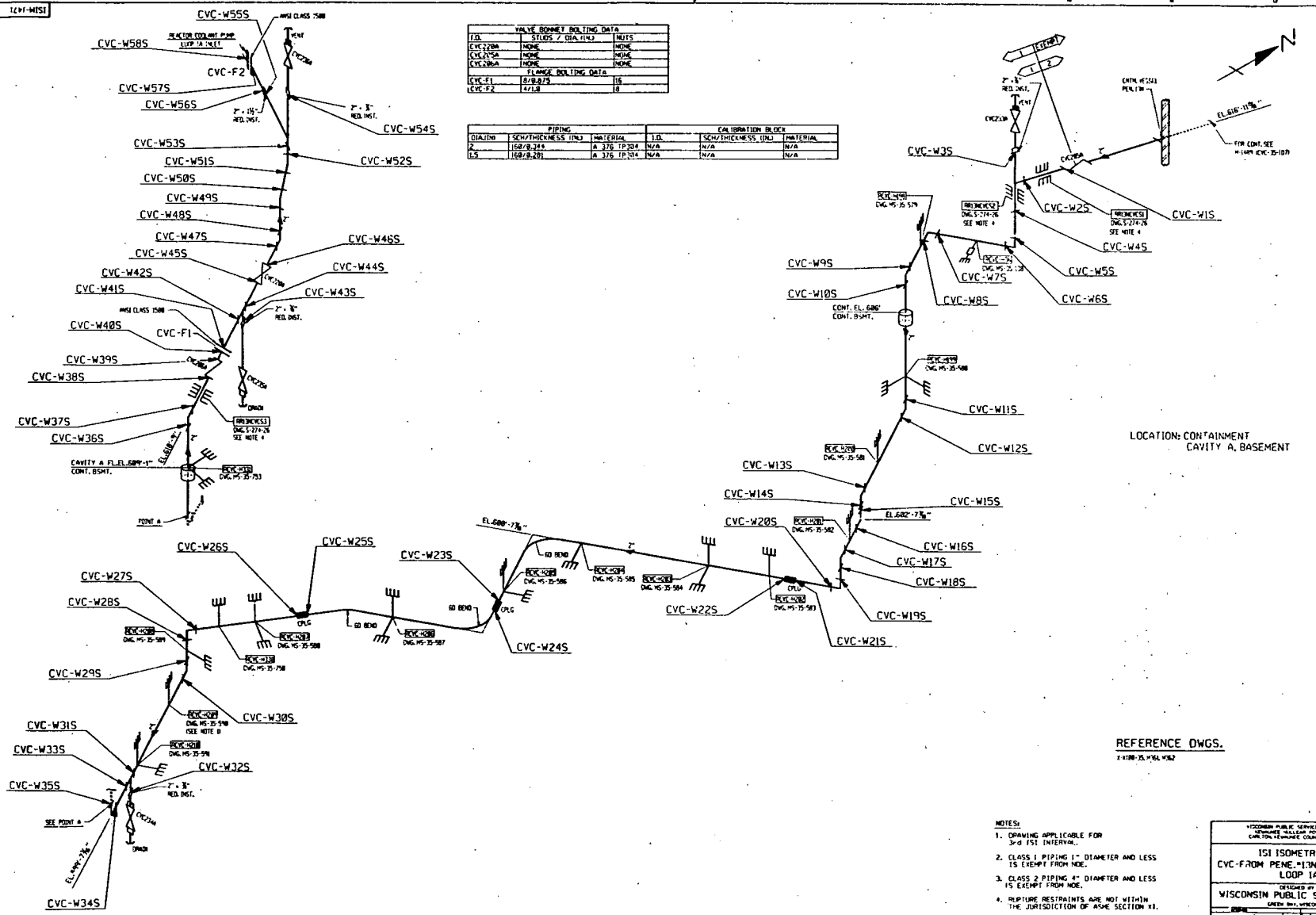
DESIGNED BY: [Blank]  
 DRAWN BY: [Blank]  
 CHECKED BY: [Blank]  
 DATE: [Blank]

WISCONSIN PUBLIC SERVICE CORP.  
 1515 WEST WISCONSIN AVENUE  
 MILWAUKEE, WISCONSIN 53233





ISM-1471



VALVE BODY BUILDING DATA

ID	SIZE	DRG. NO.	DATE
CVC-W55S	1/2"	158/8-24	1/16
CVC-W58S	1/2"	158/8-24	1/16
CVC-F2	1/2"	158/8-24	1/16
CVC-W57S	1/2"	158/8-24	1/16
CVC-W56S	1/2"	158/8-24	1/16
CVC-W54S	1/2"	158/8-24	1/16
CVC-W53S	1/2"	158/8-24	1/16
CVC-W51S	1/2"	158/8-24	1/16
CVC-W50S	1/2"	158/8-24	1/16
CVC-W49S	1/2"	158/8-24	1/16
CVC-W48S	1/2"	158/8-24	1/16
CVC-W47S	1/2"	158/8-24	1/16
CVC-W46S	1/2"	158/8-24	1/16
CVC-W45S	1/2"	158/8-24	1/16
CVC-W44S	1/2"	158/8-24	1/16
CVC-W42S	1/2"	158/8-24	1/16
CVC-W41S	1/2"	158/8-24	1/16
CVC-W40S	1/2"	158/8-24	1/16
CVC-F1	1/2"	158/8-24	1/16
CVC-W39S	1/2"	158/8-24	1/16
CVC-W38S	1/2"	158/8-24	1/16
CVC-W37S	1/2"	158/8-24	1/16
CVC-W36S	1/2"	158/8-24	1/16
CVC-W35S	1/2"	158/8-24	1/16
CVC-W34S	1/2"	158/8-24	1/16
CVC-W33S	1/2"	158/8-24	1/16
CVC-W31S	1/2"	158/8-24	1/16
CVC-W29S	1/2"	158/8-24	1/16
CVC-W28S	1/2"	158/8-24	1/16
CVC-W27S	1/2"	158/8-24	1/16
CVC-W26S	1/2"	158/8-24	1/16
CVC-W25S	1/2"	158/8-24	1/16
CVC-W24S	1/2"	158/8-24	1/16
CVC-W23S	1/2"	158/8-24	1/16
CVC-W22S	1/2"	158/8-24	1/16
CVC-W21S	1/2"	158/8-24	1/16
CVC-W20S	1/2"	158/8-24	1/16
CVC-W19S	1/2"	158/8-24	1/16
CVC-W18S	1/2"	158/8-24	1/16
CVC-W17S	1/2"	158/8-24	1/16
CVC-W16S	1/2"	158/8-24	1/16
CVC-W15S	1/2"	158/8-24	1/16
CVC-W14S	1/2"	158/8-24	1/16
CVC-W13S	1/2"	158/8-24	1/16
CVC-W12S	1/2"	158/8-24	1/16
CVC-W11S	1/2"	158/8-24	1/16
CVC-W10S	1/2"	158/8-24	1/16
CVC-W9S	1/2"	158/8-24	1/16
CVC-W8S	1/2"	158/8-24	1/16
CVC-W7S	1/2"	158/8-24	1/16
CVC-W6S	1/2"	158/8-24	1/16
CVC-W5S	1/2"	158/8-24	1/16

PIPE SCHEDULE

DIAMETER	SCHEDULE	MATERIAL	T.D.	SCHEDULE	MATERIAL
1/2"	158/8-24	A 376 TP304	N/A	N/A	N/A
1/2"	158/8-24	A 376 TP304	N/A	N/A	N/A

REVISION  
 1. REVISED FROM ASME  
 2. REVISED FROM ASME  
 3. REVISED FROM ASME  
 4. REVISED FROM ASME

LOCATION: CONTAINMENT  
 CAVITY A, BASEMENT

REFERENCE DWGS.  
 1. 158/8-24

- NOTES:
1. DRAWING APPLICABLE FOR 3'-0" ISI INTERVAL.
  2. CLASS 1 PIPING 1" DIAMETER AND LESS IS EXEMPT FROM NOE.
  3. CLASS 2 PIPING 1/2" DIAMETER AND LESS IS EXEMPT FROM NOE.
  4. RUPTURE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION II.

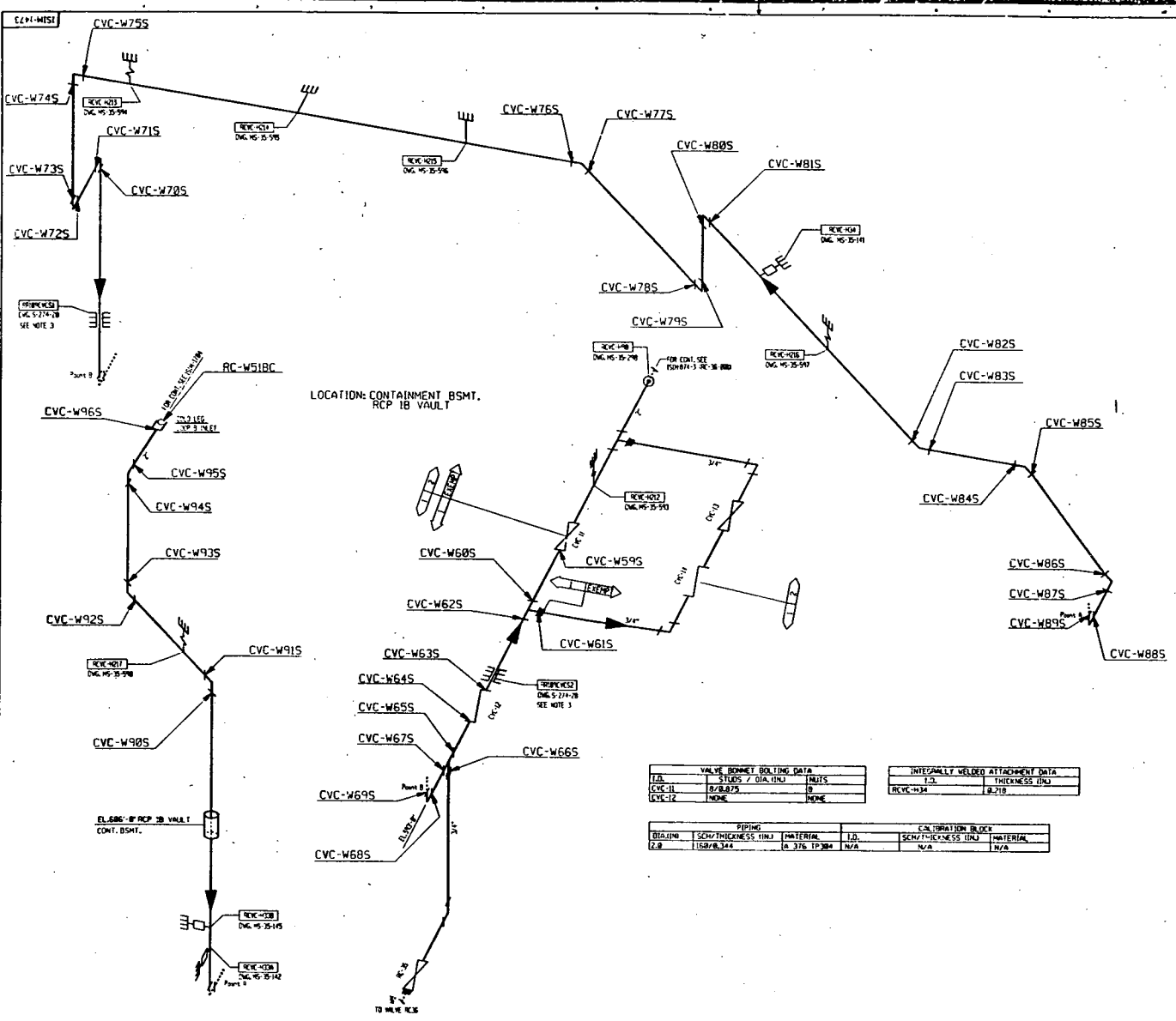
WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION

ISI ISOMETRIC  
 CVC-1A FROM PENE-13N TO R.C. PUMP LOOP 1A

WISCONSIN PUBLIC SERVICE CORP.  
 GREEN BAY, WISCONSIN

DATE: 1/16/11  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PROJECT: [Signature]  
 SHEET: ISM-1471

REVISION  
 NO. DATE  
 1 10/10/11  
 2 10/10/11  
 3 10/10/11



LOCATION: CONTAINMENT BSMT.  
 RCP 1B VAULT

VALVE BONNET WELDING DATA		
I.D.	STUDS / DIA. INCH	UNITS
CVC-11	R/8.875	8
CVC-12	NONE	NONE

INTERFACELY WELDED ATTACHMENT DATA		
I.D.	THICKNESS INCH	
RCV-W51A	8.218	

PIPING		CON. IDENTIFICATION BLOCK	
DESIGN	SCH/THICKNESS INCH / MATERIAL	I.D.	SCH/THICKNESS INCH / MATERIAL
2.9	158/0.344 / A 375 TP304	N/A	N/A

- NOTES:
- DRAWING APPLICABLE FOR 3-0 ISO INTERVAL.
  - CLASS 1 PIPING 1/2" DIAMETER AND LESS IS EXEMPT FROM NDE.
  - RUPTURE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.

REFERENCE DWGS.  
 S01-1172, 1-1-10-18, 1-1-10-19, 1-1-10-20

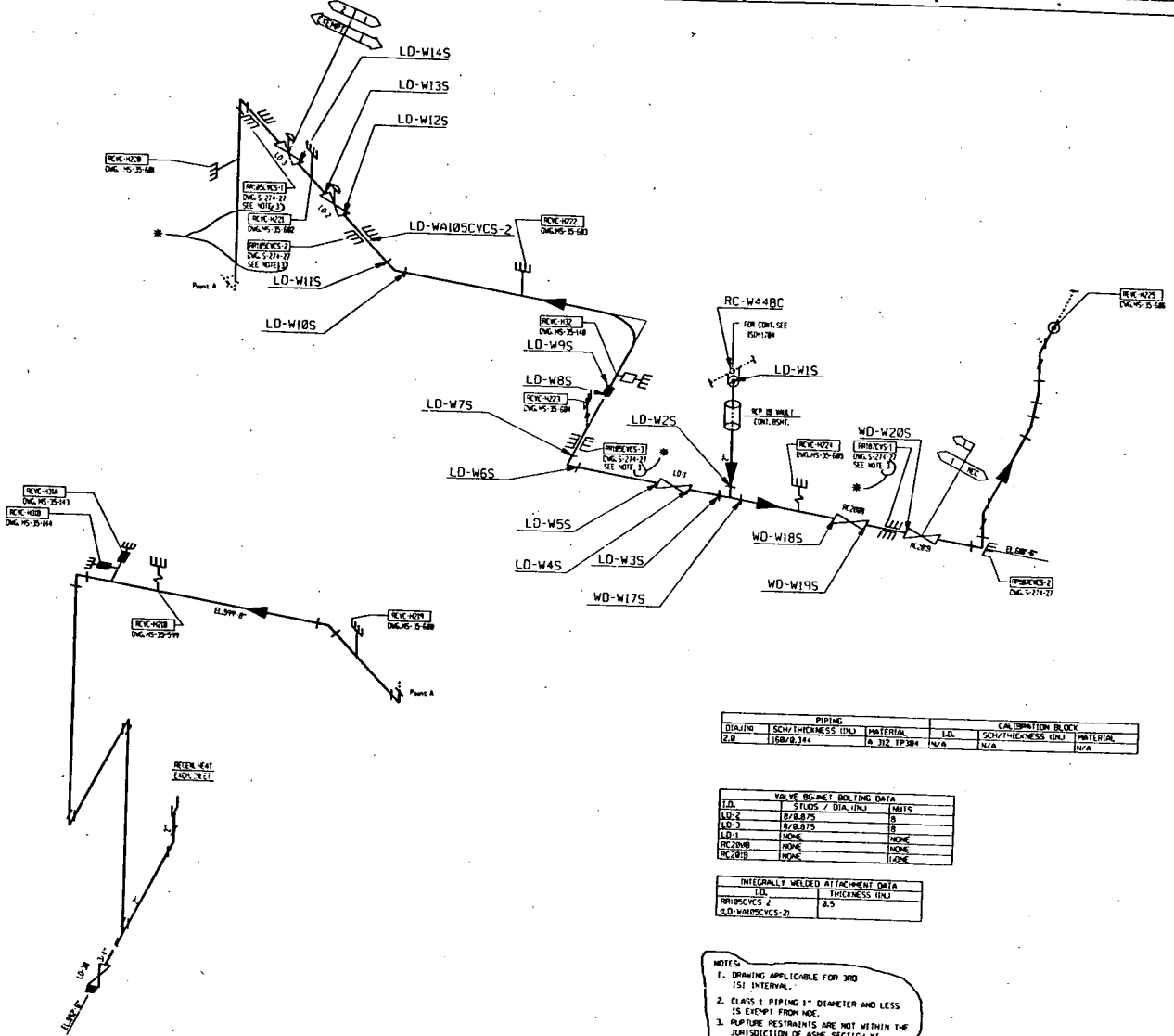
ISIM-1473

WISCONSIN PUBLIC SERVICE CORPORATION  
 ENGINEERING DEPARTMENT  
 151 ISOMETRIC  
 CVC FROM DISCON. LINE OF REGEN. HT  
 EXCH. ANCH. POINT ON LINE TO RCS  
 COLD LEG LOOP B  
 DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 ORDER NO. WSCORP-11473

DATE	NO.	BY	CHK.
10/10/11	1	J. J. J.	J. J. J.
10/10/11	2	J. J. J.	J. J. J.
10/10/11	3	J. J. J.	J. J. J.

CADD ISIM-1473 (1)

P&ID-WIS1



NO. 111111  
 1. DRAWING DATE: 11/11/11  
 2. DRAWING NO.: 111111  
 3. PROJECT NO.: 111111  
 4. SHEET NO.: 111111  
 5. TOTAL SHEETS: 111111  
 6. DRAWING SCALE: 111111  
 7. PROJECT NAME: 111111  
 8. PROJECT LOCATION: 111111  
 9. PROJECT DESCRIPTION: 111111  
 10. PROJECT STATUS: 111111

LOCATION: CONTAINMENT BSMT,  
 RCP 1P VAULT

PIPING			CALCULATION BLOCK		
DIA/INO	SCH/THICKNESS (IN)	MATERIAL	L.D.	SCH/THICKNESS (IN)	MATERIAL
2.0	150/0.314	A. 312 TP304	N/A	N/A	N/A

VALVE BS-MPT. BOLTING DATA		
VAL	STUDS / DIA. (IN)	WTS
LD-2	8/8.075	8
LD-3	8/8.075	8
LD-1	NONE	NONE
RC-208	NONE	NONE
RC-209	NONE	NONE

INTEGRALLY WELDED ATTACHMENT DATA	
L.D.	THICKNESS (IN)
RP-1005 / 2	0.5
LD-WA10SCVCS-2	

REFERENCE DWGS.  
 SW-112, 4-1100-10, 1-1100-20, 1-1100-30, 1-1100-40, 1-1100-50, 1-1100-60, 1-1100-70, 1-1100-80, 1-1100-90, 1-1100-100, 1-1100-110, 1-1100-120, 1-1100-130, 1-1100-140, 1-1100-150, 1-1100-160, 1-1100-170, 1-1100-180, 1-1100-190, 1-1100-200

NOTES:  
 1. DRAWING APPLICABLE FOR 3RD IS1 INTERVAL.  
 2. CLASS 1 PIPING 1" DIAMETER AND LESS IS EXEMPT FROM NOE.  
 3. RAFFINER RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.

Ø-1\*  
 RE PUR 0256

WISCONSIN PUBLIC SERVICE CORPORATION  
 150 EAST WASHINGTON STREET, MILWAUKEE, WISCONSIN 53202  
 IS: ISOMETRIC  
 CVC-FROM LOOP B OF PUMP SUCTION TO REGENERATIVE HT. EXCH.  
 DESIGNED BY: WISCONSIN PUBLIC SERVICE CORP.  
 DRAWN BY: WISCONSIN PUBLIC SERVICE CORP.  
 CHECKED BY: WISCONSIN PUBLIC SERVICE CORP.  
 APPROVED BY: WISCONSIN PUBLIC SERVICE CORP.  
 DATE: 11/11/11  
 SHEET NO.: 111111  
 TOTAL SHEETS: 111111  
 PROJECT NO.: 111111  
 PROJECT NAME: 111111  
 PROJECT LOCATION: 111111  
 PROJECT DESCRIPTION: 111111  
 PROJECT STATUS: 111111

CADD 111111 ISIN-1474



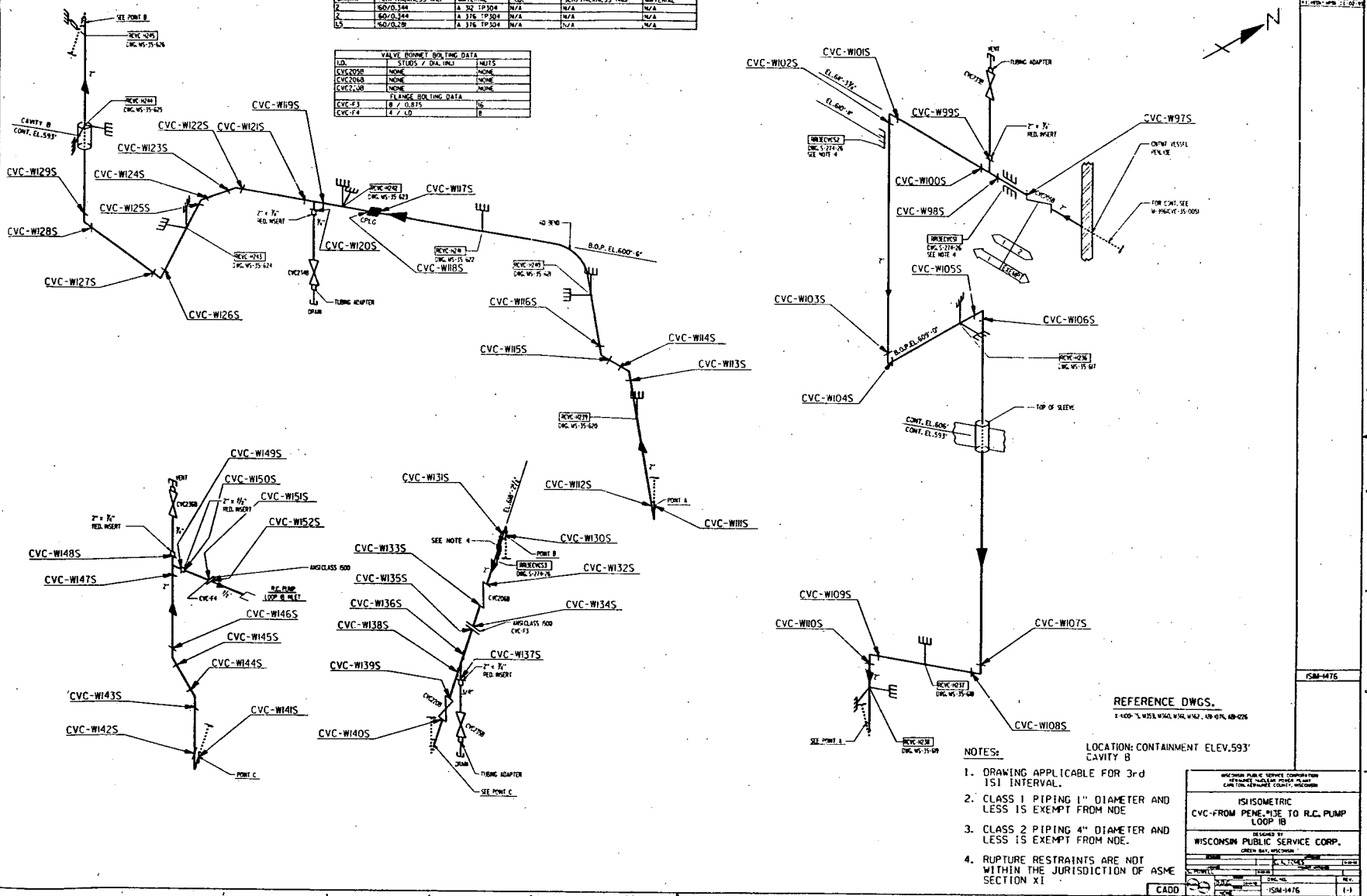
92M-1476

PIPING			CALIBRATION BLOCK		
DIAL NO.	SCH/THICKNESS (IN.)	MATERIAL	LD.	SCH/THICKNESS (IN.)	MATERIAL
1	80/20.304	A 316 TP304	N/A	N/A	N/A
2	80/20.304	A 316 TP304	N/A	N/A	N/A
3	80/20.304	A 316 TP304	N/A	N/A	N/A

VALVE BOLLNET BOLTING DATA		
LD.	STUDS / DIA (IN.)	NUTS
CVC-2090	NONE	NONE
CVC-2098	NONE	NONE
CVC-2099	NONE	NONE

FLANGE BOLTING DATA		
CVC #	B / O.D.	IN.
CVC-13	8 / 0.875	16
CVC-14	12 / 1.0	8



REFERENCE DWGS.  
1-100-1, W153, W161, W162, W163, W164, W165, W166, W167, W168, W169, W170, W171, W172, W173, W174, W175, W176, W177, W178, W179, W180, W181, W182, W183, W184, W185, W186, W187, W188, W189, W190, W191, W192, W193, W194, W195, W196, W197, W198, W199, W200

LOCATION: CONTAINMENT ELEV. 593'  
CAVITY B

- NOTES:
- DRAWING APPLICABLE FOR 3rd ISI INTERVAL.
  - CLASS 1 PIPING 1" DIAMETER AND LESS IS EXEMPT FROM NDE
  - CLASS 2 PIPING 4" DIAMETER AND LESS IS EXEMPT FROM NDE.
  - RUPTURE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI

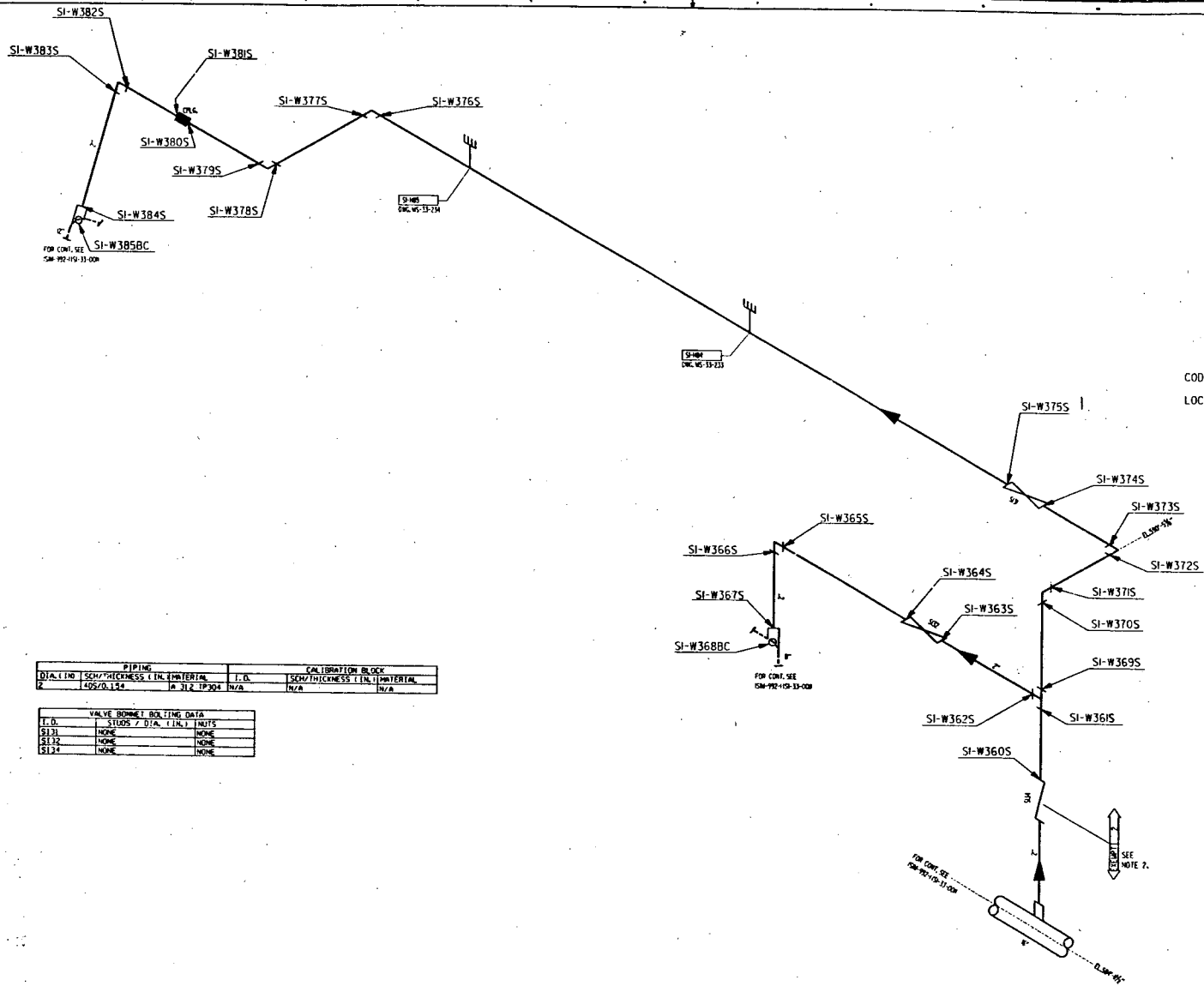
DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

ISOMETRIC  
CVC-FROM PENE. 13E TO R.C. PUMP  
LOOP 1B

DATE: 11/15/00  
SCALE: AS SHOWN  
SHEET NO.: 1-1  
PROJECT NO.: 92M-1476

92M-1476

809-1952



CODE CLASS 2  
 LOCATION: AUXILIARY BLDG.  
 SAFETY INJECTION  
 PUMP AREA

PIPING		CALIBRATION BLOCK	
DIA. (IN.)	SCH./THICKNESS (IN.) / MATERIAL	J. DIA.	SCH./THICKNESS (IN.) / MATERIAL
2	150S/0.154	1/2	1/2 1/2 1/2 304 IN/A

VALVE BORE & BOLTING DATA			
T. D.	STUDS / DIA. (IN.)	NUTS	
SI11	NONE	NONE	
SI12	NONE	NONE	
SI14	NONE	NONE	

NOTES:  
 1. DRAWING APPLICABLE FOR  
 3/4" SCH. 40S  
 2. EXEMPT PIPING IS NOT  
 PART OF HIGH PRESSURE  
 SAFETY INJECTION

REFERENCE DWGS.  
 ISM-1508  
 ISM-WL 1-400-21

WISCONSIN PUBLIC SERVICE CORPORATION  
 ENGINEERING DEPARTMENT  
 1111 EAST WISCONSIN STREET, MILWAUKEE, WISCONSIN

ISISOMETRIC  
 SI-FROM 16" S.A. PLATF. SUCTION LINE  
 TO VALVE SI-313 TO 21" S.A. PUMP SUCTION  
 LINE FROM BORIC ACID TANKS

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 DATE: 11/1/60

DATE	BY	CHKD. BY	APP. BY
11/1/60	J. J. LIND		

CADD

REVISION  
 PAPER FIRST ISSUE  
 DATE: 11/1/60  
 DRAWN BY: J. J. LIND  
 CHECKED BY: J. J. LIND  
 FILE NO.: 809-1952

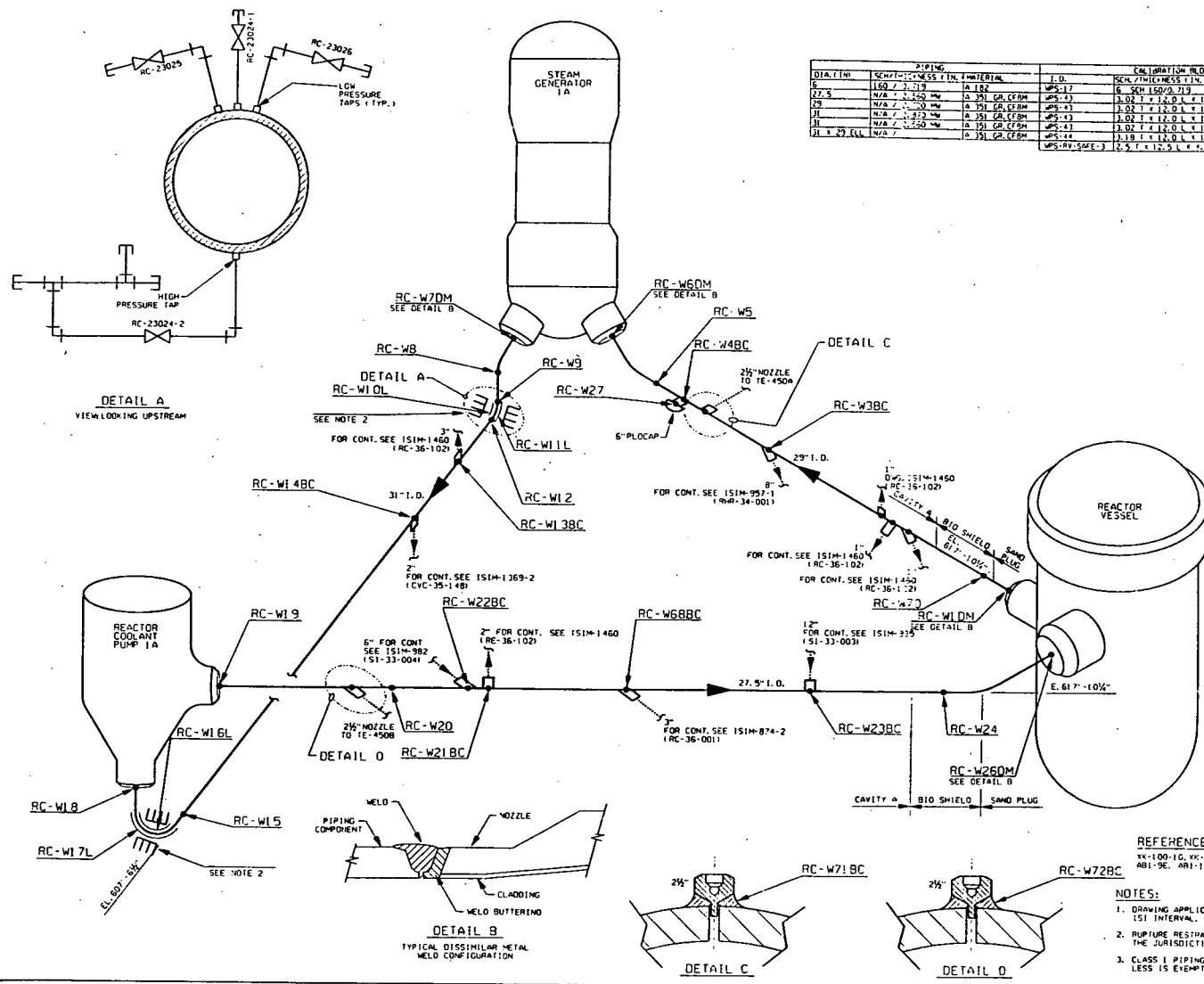
COL-1051

CODE CLASS 1

LOCATION: CONTAINMENT ELEV. 605'-0"  
SAND PLUG, BIO SHIELD, CAVITY A



REVISION  
1. 11/18/78  
2. 12/11/78  
3. 01/10/79



DIA./ID	SCH./THICKNESS	FIN.	MATERIAL	I.D.	SCH./THICKNESS	FIN.	MATERIAL
6	150	2	316	A	150	2	316
2.5	N/A	2	316	A	316	CF8M	CF8M
20	N/A	2	316	A	316	CF8M	CF8M
31	N/A	2	316	A	316	CF8M	CF8M
38	N/A	2	316	A	316	CF8M	CF8M
41 x 29 SLL	N/A	2	316	A	316	CF8M	CF8M
MPS-RV-SMFE-3 2.5 I x 12.5 L x 4.0 W 150-308 CF-2750 151 TP 316							

DETAIL A  
VIEW LOOKING UPSTREAM

DETAIL B  
TYPICAL DISSIMILAR METAL WELD CONFIGURATION

DETAIL C

DETAIL D

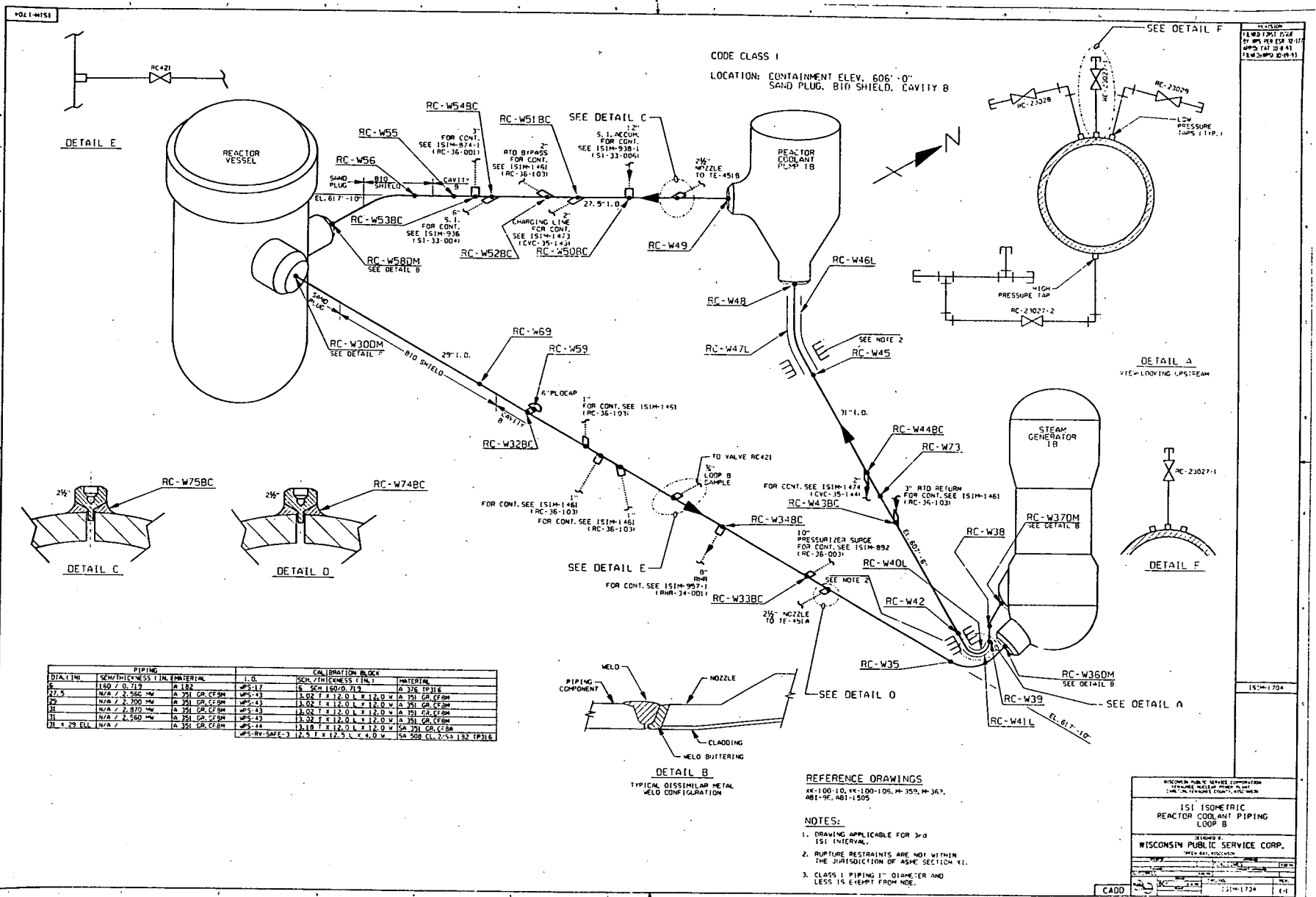
REFERENCE DRAWINGS

AK-100-10, AK-100-106, M-353, AB1-SE, AB1-1509

NOTES:

1. DRAWING APPLICABLE FOR 3rd ISI INTERVAL.
2. RUPTURE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION VI.
3. CLASS 1 PIPING 1" DIAMETER AND LESS IS EXEMPT FROM NOE.

WISCONSIN PUBLIC SERVICE CORPORATION  
DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
151 ISOMETRIC REACTOR COOLANT PIPING LOOP A  
DATE: 11/18/78  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
SCALE: AS SHOWN  
SHEET NO. 151-1103 OF 1

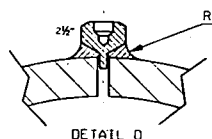
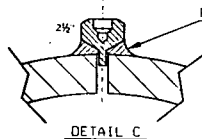


RC-1-W512

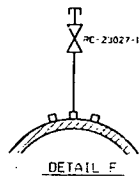
CODE CLASS I  
 LOCATION: CONTAINMENT ELEV. 606'-0"  
 SAND PLUG, BIO SHIELD, CAVITY B

DETAIL E

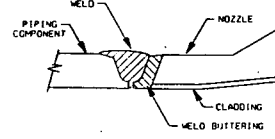
SEE DETAIL F



DETAIL A  
 VIEW LOOKING UPSTREAM



DIAL LING	PIPE		I. D.	CAL. DIMENSION & DEV.		MATERIAL
	SIZE/THICKNESS (IN.)	MATERIAL		SCH./THICKNESS (IN.)	MATERIAL	
8	150 / 0.713	A 182	WPS-17	6 SCH 160/0.713	A 376 TP316	
27.5	N/A / 2.550	A 351 GR. CF8M	WPS-43	13.02 T x 12.0 L x 12.0 V	A 351 GR. CF8M	
29	N/A / 2.700	A 351 GR. CF8M	WPS-43	13.02 T x 12.0 L x 12.0 V	A 351 GR. CF8M	
31	N/A / 2.970	A 351 GR. CF8M	WPS-43	13.02 T x 12.0 L x 12.0 V	A 351 GR. CF8M	
33	N/A / 2.550	A 351 GR. CF8M	WPS-43	13.02 T x 12.0 L x 12.0 V	A 351 GR. CF8M	
33 L x 29 ELL	N/A /	A 351 GR. CF8M	WPS-44	13.10 T x 12.0 L x 12.0 V	A 351 GR. CF8M	
				WPS-RY-SAF-3 12.5 T x 12.5 L x 4.0 W	SA 508 CL. 2/53 132 TP316	



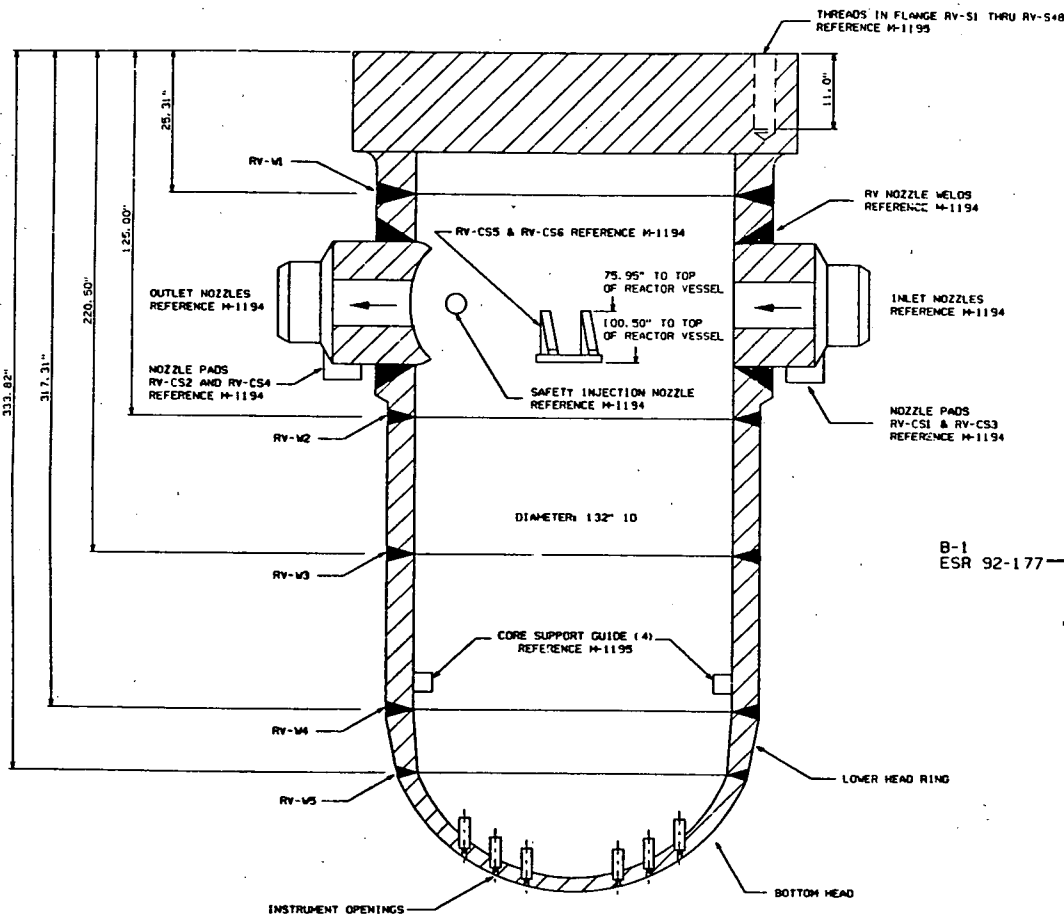
REFERENCE DRAWINGS  
 AK-100-10, AK-100-105, M-359, M-367,  
 M01-95, M01-1005

- NOTES:
- DRAWING APPLICABLE FOR 3rd ISI INTERVAL.
  - RUPTURE RESTRAINTS ARE NOT WITHIN THE JURISDICTION OF ASME SECTION XI.
  - CLASS I PIPING 1" DIAMETER AND LESS IS EXEMPT FROM NDE.

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN NUCLEAR REGULATORY COMMISSION  
 151 ISOMETRIC REACTOR COOLANT PIPING LOOP B  
 WISCONSIN PUBLIC SERVICE CORP.  
 SHEET NO. 151-1704  
 151-1704

CADD 151-1704 1-1

8611-W



COMPONENT WELD DATA		
I. D.	THICKNESS	MATERIAL
RV-M1	9.44"	A508-64 CL. 2 CS
RV-M2	7.0"	A508-64 CL. 2 CS
RV-M3	7.0"	A508-64 CL. 2 CS
RV-M4	7.0"	A508-64 CL. 2 CS
RV-M5	4.12" MIN.	A533 GR. B CL. 1 CS

CALIBRATION BLOCK		
I. D.	DIAMETER/SCHEDULE	MATERIAL
MPS-RV-1	18" I.D. x 31" L x 8.625" W	S408 CL. 3 CS
MPS-RV-2	8.0" I. x 32" L x 6.0" W	S408 CL. 2 CS
MPS-RV-3	7.0" I. x 28" L x 6.0" W	S408 CL. 2 CS
MPS-RV-4	6.0" I. x 18" L x 6.0" W	S408 CL. 2 CS

REVISION	
A	PDD 0011 COMPL SEE REV 0-1 APP'D: CAT 10/23/89 FILM'D: (WPSI) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 OWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 7-23-93
B	ESR 92-177 COMPL. SEE REV. A-1 FILM'D: (WPSI) 08-03-93
B-1	REV. NOTES PER ESR 92-177 BY: LML 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
C	ESR 92-177 COMPL. SEE REV. B-1 FILM'D: (WPSI) 10-19-93

B-1  
ESR 92-177

- NOTES:
1. DRAWING APPLICABLE FOR 3-d ISI INTERVAL
  2. ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS I
  3. RV INSTRUMENT PENETRATION ID #'S: RV-P1 THRU RV-P36

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**REACTOR VESSEL**  
**(RV)**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

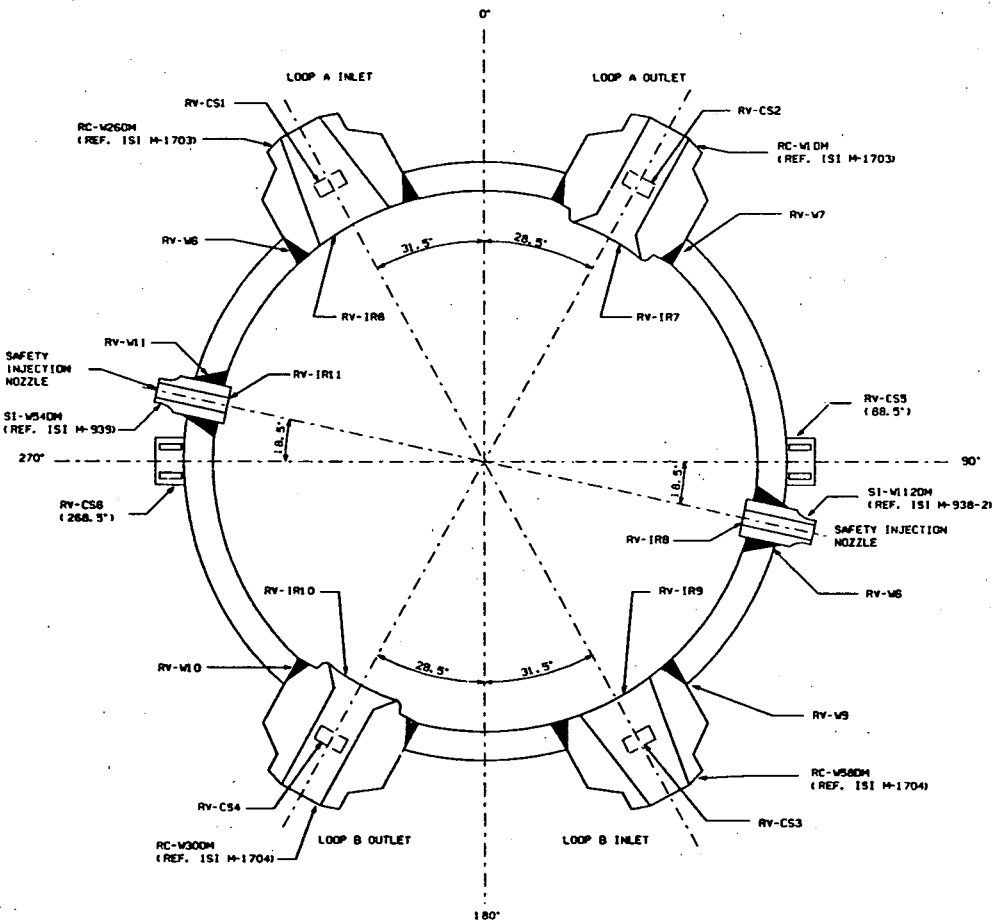
DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	6/18/93
D. H.	PROJECT APPROVED	
DATE	1/17/83	
ESS	DWG. NO.	REV.
NONE	M-1193	C

LOCATION: CONTAINMENT

CADD

611-W

REVISION



LOCATION: CONTAINMENT

COMPONENT DATA		
I.D.	THICKNESS	MATERIAL
RV-M6	3.44"	A508-64 CL. 2 CS
RV-IR6	INNER RADIUS SECTION	A508-64 CL. 2 CS
RV-M7	3.44"	A508-64 CL. 2 CS
RV-IR7	INNER RADIUS SECTION	A508-64 CL. 2 CS
RV-M8	3.37"	A508-64 CL. 2 CS
RV-IR8	INNER RADIUS SECTION	A508-64 CL. 2 CS
RV-V9	3.44"	A508-64 CL. 2 CS
RV-IR9	INNER RADIUS SECTION	A508-64 CL. 2 CS
RV-M10	3.44"	A508-64 CL. 2 CS
RV-IR10	INNER RADIUS SECTION	A508-64 CL. 2 CS
RV-M11	3.37"	A508-64 CL. 2 CS
RV-IR11	INNER RADIUS SECTION	A508-64 CL. 2 CS

INTEGRALLY WELDED ATTACHMENT DATA		
I.D.	THICKNESS	MATERIAL
RV-CS1	3.0"	SA 516 GR. 70 CS
RV-CS2	3.0"	SA 516 GR. 70 CS
RV-CS3	3.0"	SA 516 GR. 70 CS
RV-CS4	3.0"	SA 516 GR. 70 CS
RV-CS5	4.25"	SA 516 GR. 70 CS
RV-CS6	4.25"	SA 516 GR. 70 CS

CALIBRATION BLOCK		
I.D.	DIAMETER/SCHEDULE	MATERIAL
MPS-RV-1	16" TL x 31" L x 8.625" W	SA-508-64 CL. 3 CS
MPS-RV-2	9.0" TL x 32" L x 6.0" W	SA-508-64 CL. 2 CS
MPS-RV-3	7.0" TL x 28" L x 6.0" W	SA-508-64 CL. 3 CS
MPS-SIS-DI	6.0" TL x 15" L x 4.0" W	SA-508-64 CL. 2 CS

A  
 POD 0011 COMPL  
 SEE REV 0-1  
 APP'D: CAT 10/23/89  
 FILM'D: (MPS) 11/7/89

A-1  
 REDRAFTED TO CAD  
 PER ESR 92-177  
 DWG: E. SAXTON 4/1/93  
 CHK'D: B. TROTIER 5/12/93  
 APP'D: CAT 7-23-93

B) ESR 92-177 COMPL.  
 SEE REV. A-1  
 FILM'D: (MPS) 08-03-93

B-1  
 REV. NOTES  
 PER ESR 92-177  
 BY: LNL 10-1-93  
 CHK'D: RJS 10-4-93  
 APP'D: CAT 10-07-93

C) ESR 92-177 COMPL.  
 SEE REV. B-1  
 FILM'D: (MPS) 10-19-93

B-1  
 ESR 92-177

NOTES:  
 1). DRAWING APPLICABLE FOR 3-d ISI INTERVAL  
 2). ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS I

WISCONSIN PUBLIC SERVICE CORPORATION  
 KEWAUNEE NUCLEAR POWER PLANT  
 CARLTON, KEWAUNEE COUNTY, WISCONSIN

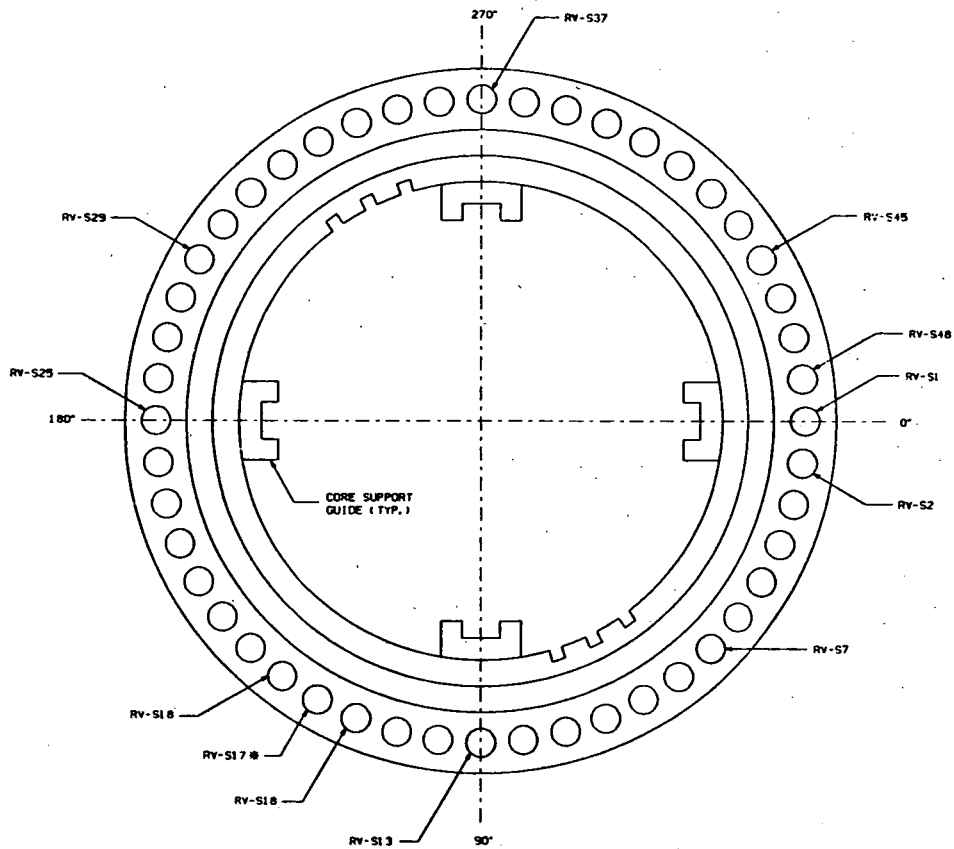
**REACTOR VESSEL  
 NOZZLES AND  
 INTEGRALLY WELDED ATTACHMENTS**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 6/16/93
D. H.	PROJECT APPROVED
DATE	1/17/83
SCALE	1/1/93
DWG. NO.	M-1194
REV.	C

CADO

5611-W



LOCATION: CONTAINMENT

COMPONENT DATA		
I.D.	THICKNESS	MATERIAL
RV-S1 THRU RV-S48	11.0"	A508-B4 CL. 2 CS

CALIBRATION BLOCK		
I.D.	DIAMETER/SCHEDULE	MATERIAL
WPS-35	6.0" T-20" L-6.0" W	SASOB CL. 2 CS
WPS-RV-4	5.0" T-18" L-6.0" W	SASOB CL. 2 CS

B-1  
ESR 92-177

NOTES:

- 1). DRAWING APPLICABLE FOR 3rd ISI INTERVAL
- 2). ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS I

REVISION

A	PDD 0011 COMPL SEE REV. 0-1 APP'D: CAT 10/23/89 FILMED: (WPS) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWG: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 7-23-93
B	ESR 92-177 COMPL. SEE REV. A-1 FILMED: (WPS) 08-03-93
B-1	REV. NOTES PER ESR 92-177 BY: LNL 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
C	ESR 92-177 COMPL. SEE REV. B-1 FILMED: (WPS) 10-19-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

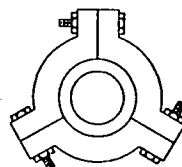
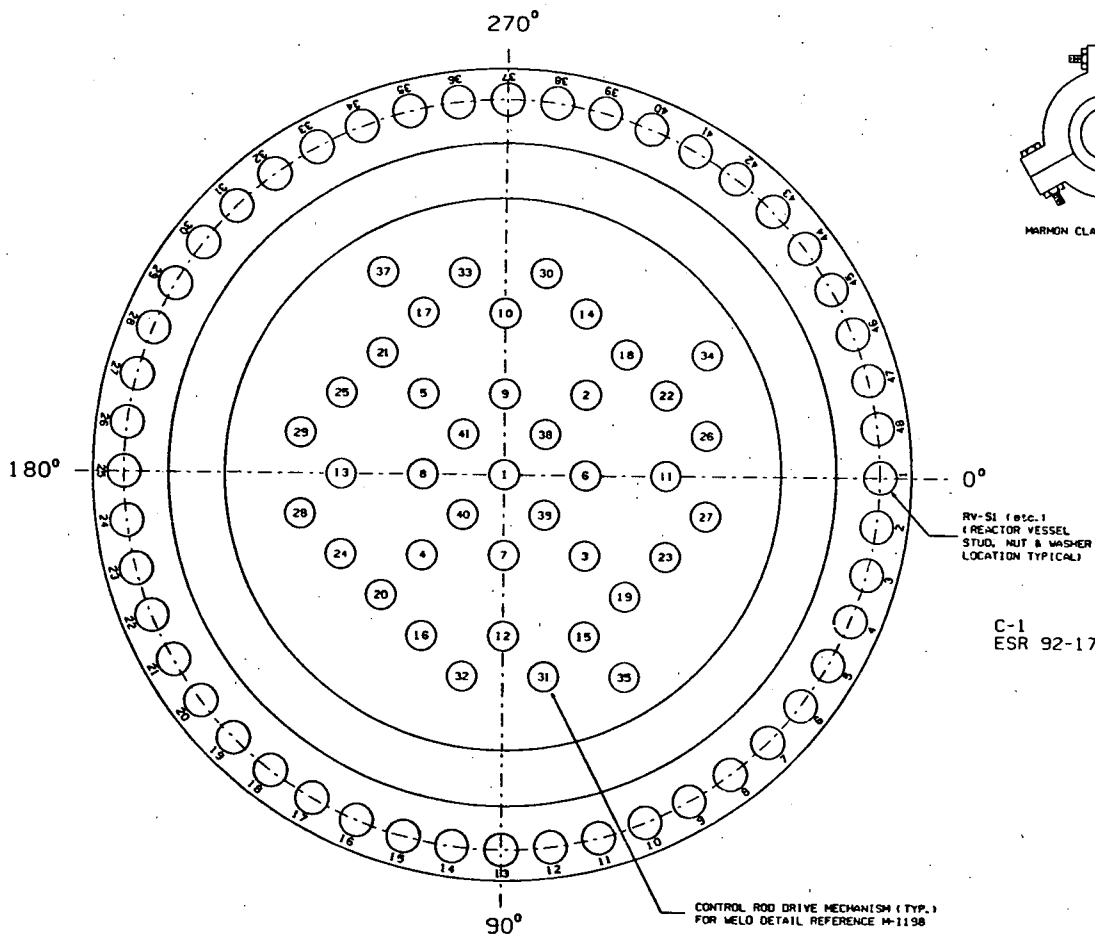
REACTOR VESSEL  
THREADS IN FLANGE

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

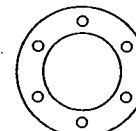
DESIGNED		APPROVED	
CHECKED		PHILLIP E. BUKES	6/16/93
D. M.	1/17/83	PROJECT APPROVED	
Drawn	ESS	DATE	6/1/93
SCALE	NONE	OWG. NO.	M-1195
REV.			C

CADD

2611-W



HARMON CLAMP



JACKING SCREW ASSEMBLY  
(6 SCREWS)

CONOSEAL BOLTING

PORT DESCRIPTION	PORT NUMBERS	IDENT.
CONOSEAL BOLTING (THERMOCOUPLE INSPECTION)	34, 35, 37	RV-C034 RV-C035 RV-C037
PLUTONIUM RECLY WITH CONTROL ROD DRIVE MECHANISM HOUSING	2, 3, 4, 5	CONTROL ROD DRIVE MECHANISM
PART LENGTH CONTROL ROD DRIVE MECHANISM HOUSING	6, 7, 6, 9	RV-CD1 THRU RV-CD36
FULL LENGTH CONTROL ROD DRIVE MECHANISM HOUSING	BALANCE	RV-CD36 RV-CD39 AND RV-CD41

C-1  
ESR 92-177

NOTES:

- 1). DRAWING APPLICABLE FOR 3-d ISI INTERVAL
- 2). ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS I

REVISION	
B	POD 0011 COMPL SEE REV A-1 APP'D: CAT 10/23/89 FILMED (WPS) 11/7/89
B-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAKTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 7-23-93
C	ESR 92-177 COMPL. SEE REV. B-1 FILMED (WPS) 08-03-93
C-1	REV. NOTES AND ADD IDENT. COL. TO CHART PER ESR 92-177 BY: LME 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
D	ESR 92-177 COMPL. SEE REV. C-1 FILMED (WPS) 10-19-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**REACTOR VESSEL CLOSURE  
HEAD CONOSEAL BOLTING AND  
CONTROL ROD DRIVE MECHANISMS**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 5/13/93
D. M.	PROJECT APPROVED
DATE	1/17/83
DWG. NO.	M-1197
SCALE	NONE
REV.	0

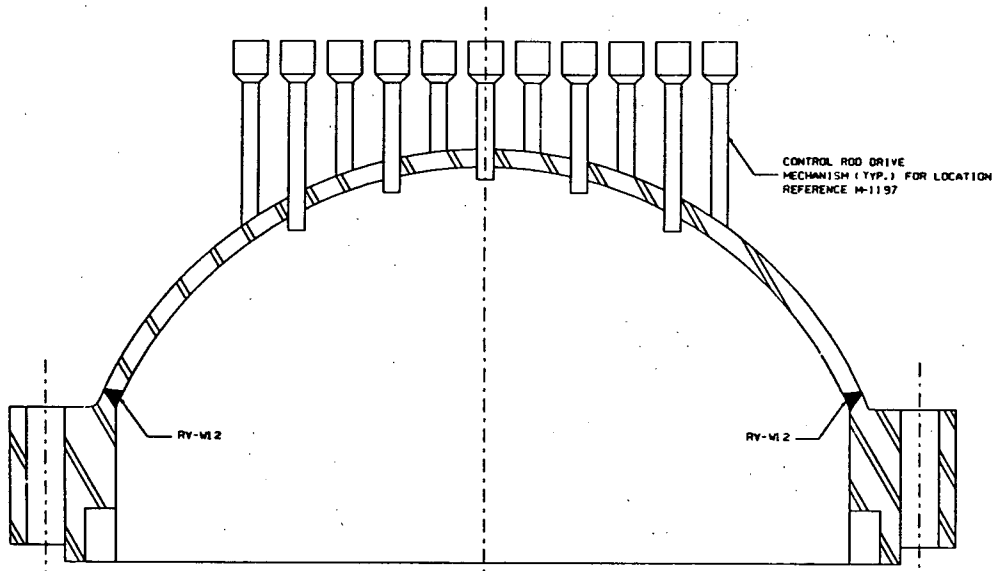
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LOCATION: CONTAINMENT

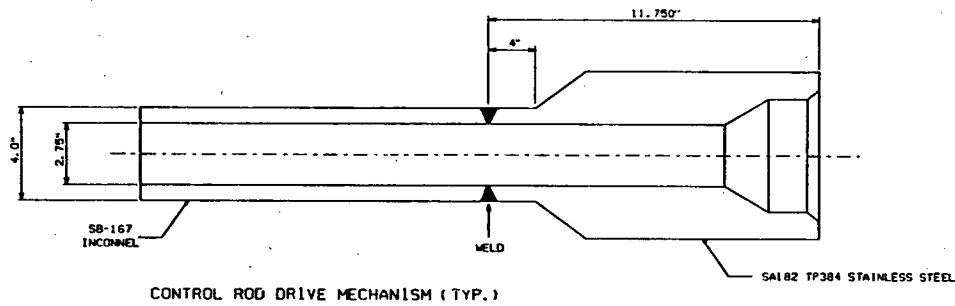
CONTROL ROD DRIVE MECHANISM (TYP.)  
FOR WELD DETAIL REFERENCE M-1198



8611-W



REACTOR VESSEL CLOSURE HEAD FLANGE



CONTROL ROD DRIVE MECHANISM (TYP.)

LOCATION: CONTAINMENT

COMPONENT WELD DATA	
I.D.	THICKNESS
RV-M2	6.0"
CROW WELD	.625"

REACTOR VESSEL CLOSURE HEAD	
FLANGE	6.0" T A508-64 CLASS 2 CARBON STEEL
DOVE	SA533 GR. B CLASS 1 CARBON STEEL
DIAMETER	137.5"
CIRCUM	432.0"

CALIBRATION BLOCK		
I.D.	DIAMETER/SCHEDULE	MATERIAL
MPS-35	6.0" T x 20" L x 6" W	SA-508 CL. 2 CS

B-1  
ESR 92-177

- NOTES:
- DRAWING APPLICABLE FOR 3rd ISI INTERVAL
  - ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 1

REVISION	
A	POD 0011 COMPL SEE REV. A-1 APP'D: CAT 10/23/89 FILM'D: (MPS) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWG. E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 7-23-93
B	ESR 92-177 COMPL. SEE REV. A-1 FILM'D: (MPS) 08-03-93
B-1	REV. NOTES PER ESR 92-177 BY: LNL 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
C	ESR 92-177 COMPL. SEE REV. B-1 FILM'D: (MPS) 10-19-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

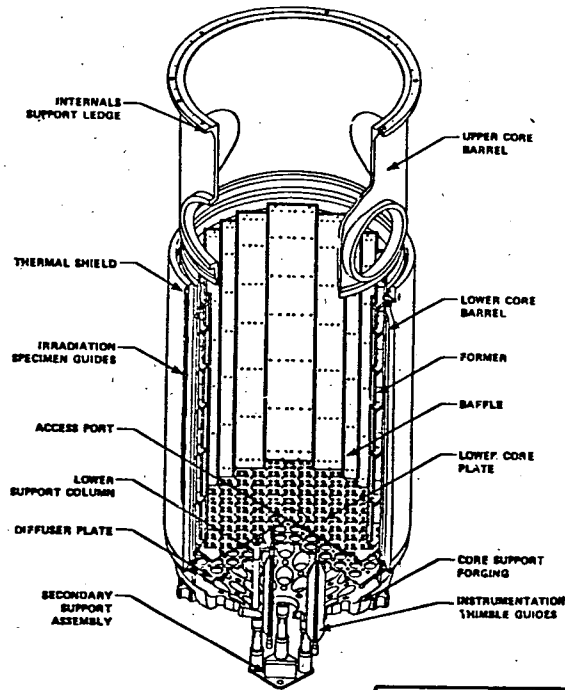
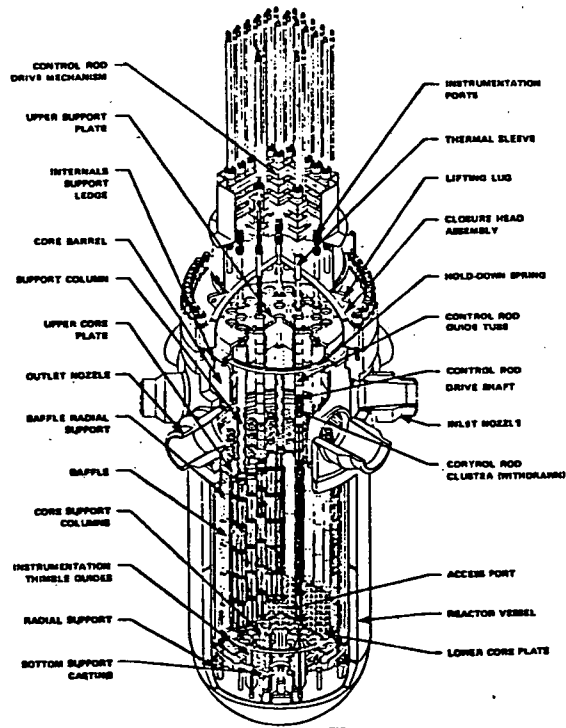
**REACTOR VESSEL CLOSURE HEAD FLANGE  
AND CONTROL ROD DRIVE MECHANISM**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 5/13/93
D. M.	PROJECT APPROVED
DATE	1/17/83
D. R. / O. S.	1/13/83
SCALE	NONE
DWG. NO.	M-1198
REV.	C

CADD

6611-W



B-1  
ESR 92-177

NOTES:

- 1). DRAWING APPLICABLE FOR 3rd ISI INTERVAL
- 2). ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS I

REVISION

A	POD 0011 COMP. SEE REV. 0-1 APP'D: C. A. T. 10-23-89 FLM'D: WPS 11-07-89
A-1	REDRAFTED TO CADD PER ESR 92-177 OWN: ODG 6-9-93 CHK'D: B. TROTTER 6-10-93 APP'D: CAT 7-23-93
B	ESR 92-177 COMPL. SEE REV. A-1 FILMED: (WPS) 08-03-93
B-1	ADD NOTES PER ESR 92-177 BY: LNL 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
C	ESR 92-177 COMPL. SEE REV. B-1 FILMED: (WPS) 10-19-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

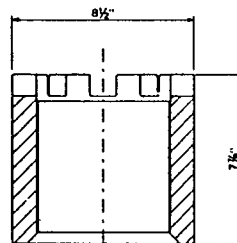
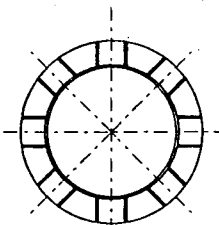
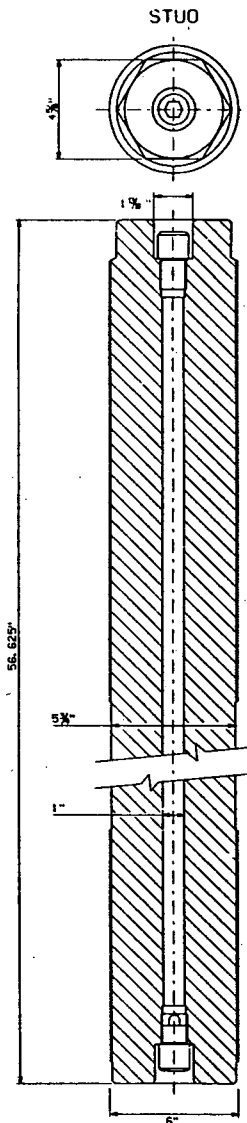
REACTOR VESSEL INTERNALS

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

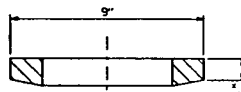
DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	8-16-93
D. M.	PROJECT APPROVED	
DATE	1/17/83	
SCALE	1/17/83	
DWG. NO.	M-1199	REV. C

HYBRID  
CADD

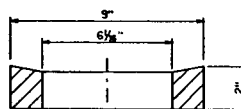
9611-W



NUT



CONVEX WASHER



CONCAVE WASHER

LOCATION: CONTAINMENT

COMPONENT DATA		
PART	I.D.	MATERIAL
STUO RV-S1	1 THRU 16 18 THRU 48 55	SA-540 GRADE B24
NUT RV-N	1 THRU 16 18 THRU 48 55	SA-540 GRADE B24
WASHERS (CONVEX/CONCAVE) RV-W	1 THRU 16 18 THRU 48 55	SA-540 GRADE B24

CALIBRATION BLOCK		
I.D.	DIAMETER/LENGTH	MATERIAL
WPS-40	5.75" / 56.625"	SA-540 GRADE B24

B-1  
ESR 92-177

- NOTES:
- DRAWING APPLICABLE FOR 3-d ISI INTERVAL
  - ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS I

REVISION

A	POD 0011 COMPL SEE REV D-1 APP'D: CAT 10/23/89 FILMED: (WPS) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 7-23-93
B	ESR 92-177 COMPL. SEE REV. A-1 FILMED: (WPS) 08-03-93
B-1	REV. NOTES PER ESR 92-177 BY: LNL 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
C	ESR 92-177 COMPL. SEE REV. B-1 FILMED: (WPS) 10-19-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

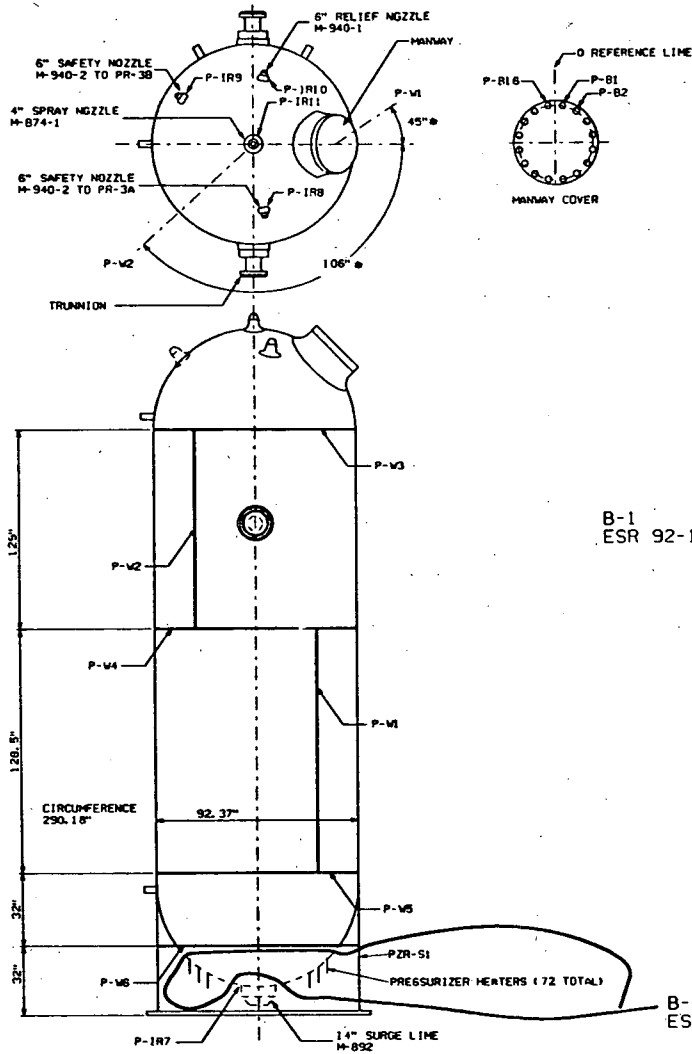
REACTOR VESSEL  
STUO, NUT AND WASHERS

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	PHILLIP E. BUKES	APPROVED	3/13/93
CHECKED		PROJECT APPROVED	
D. M.	1/17/83		
D.R./D.S.	1/13/83	OWG. NO.	REV.
SCALE	NONE	M-1196	C

CADD

0021-W



**BOLTING DATA**

BOLTS / DIA. / LGTH	UNITS
15 / 1.88" / 8.0"	N/A

**COMPONENT WELD DATA**

T.D.	THICKNESS	MATERIAL
P-V1	4.5"	SA 533 GR. A CL. 1 CS
P-V2	4.5"	SA 533 GR. A CL. 1 CS
P-V3	4.5"	NOTE 1
P-V4	4.5"	SA 533 GR. A CL. 1 CS
P-V5	4.5"	NOTE 1
P-V6	1.5"	SA 516 GR. 70 CS
P-1R7	INNER RADIUS SECTION	SA 216 GR. WCC CS
P-1R8	INNER RADIUS SECTION	SA 216 GR. WCC CS
P-1R9	INNER RADIUS SECTION	SA 216 GR. WCC CS
P-1R10	INNER RADIUS SECTION	SA 216 GR. WCC CS
P-1R11	INNER RADIUS SECTION	SA 216 GR. WCC CS

**CALIBRATION BLOCK**

T.D.	DIAMETER/SCHEDULE	MATERIAL
MPS-23	5.0" x 1.8, 0" L x 5.0" W	SA 533 GR. B CL. 1 CS
MPS-25	1.5" x 1.3, 0" L x 2.5" W	SA 516 GR. 70 CS

B-1  
ESR 92-177

**NOTES:**

1. DRAWING APPLICABLE FOR 3rd ISI INTERVAL
2. ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS I
3. PZR HEATER PENETRATION ID #'S: PZR-P1 THRU PZR-P72
4. MATERIAL - SHELLS SA 533 GRADE A CLASS 1 CARBON STEEL  
HEADS SA 216 GR. WCC CARBON STEEL

• MEASURED WITHOUT INSULATION

B-1  
ESR 92-177

LOCATION: CONTAINMENT PRESSURIZER VAULT

CADD

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**PRESSURIZER**  
**PZR**

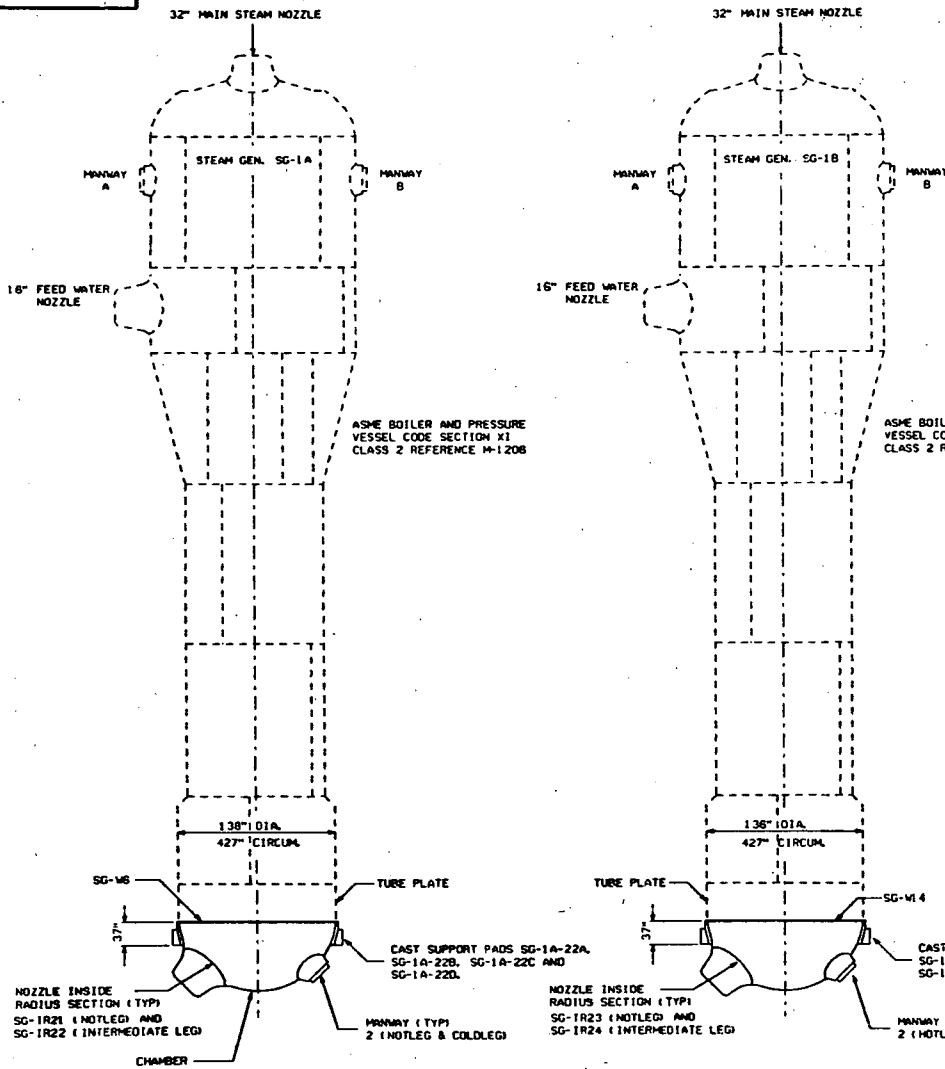
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 5/13/93
D. H.	PROJECT APPROVED
DATE	1/17/93
SCALE	OWG. NO.
D. R. / D. S. 1/13/93	REV.
NONE	M-1200
	C

**REVISION**

REVISION	DESCRIPTION
A	POD 0011 COMPL SEE REV 0-1 APP'D: CAT 10/23/89 FILMED: (MPS) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 7-23-93
B	ESR 92-177 COMPL. SEE REV. A-1 FILMED: (MPS) 08-03-93
B-1	ADD PRESSURIZER HEATERS & REV. NOTES PER ESR 92-177 BY: LNL 10-1-92 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
C	ESR 92-177 COMPL. SEE REV. B-1 FILMED: (MPS) 10-19-93

1021-W



ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 2 REFERENCE M-1206

ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 2 REFERENCE M-1206

B-1  
ESR 92-177

MANWAY BOLTING DATA EACH MANWAY

STUDS # / DIA. / LEIGH INITS *	WASHERS #
16 / 1.88" / 8.0"	32

\* INDIVIDUALLY STAMPED I. D. 's

COMPONENT DATA

I. D.	THICKNESS	THICKNESS
SG-M6	5.25"	SASOB CL. 2 CS
SG-M4	5.25"	SASOB CL. 2 CS
SG-1R21 (HOTLEG)	INNER RADIUS SECT.	SA216 GR-WCC CS
SG-1R22 (INTER. LEG)	INNER RADIUS SECT.	SA216 GR-WCC CS
SG-1R23 (HOTLEG)	INNER RADIUS SECT.	SA216 GR-WCC CS
SG-1R24 (INTER. LEG)	INNER RADIUS SECT.	SA216 GR-WCC CS

CALIBRATION BLOCK

I. D.	DIAMETER/SCHEDULE	MATERIAL
MPS-23	5.0" x 1.0.0" x 5.0" W	SA533 GR. B. CL. 1 CS

NOTES:

- 1). DRAWING APPLICABLE FOR 3rd ISI INTERVAL
- 2). ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 1
- 3). STEAM GENERATOR SG-1A AND SG-1B CAST SUPPORT PADS NUMBERED CLOCKWISE FROM CENTERLINE OF HOTLEG  
MANWAY: 22B, 22A, 22O & 22C
- 4). O REFERENCE: TOP CENTERLINE OF HOTLEG MANWAY FOR SG-M6 AND SG-M4

REVISION

A	POD 0011 COMPL SEE REV 0-1 APP'D: CAT 10/23/89 FILM'D: (WPS) 11/7/89
A-1	REORAFCTO TO CAD PER ESR 92-177 DWH: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 7-23-93
B	ESR 92-177 COMPL. SEE REV. A-1 FILM'D: (WPS) 08-03-93
B-1	REV. NOTES PER ESR 92-177 BY: LNL 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
C	ESR 92-177 COMPL. SEE REV. B-1 FILM'D: (WPS) 10-19-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

STEAM GENERATORS  
SG-1A AND SG-1B

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

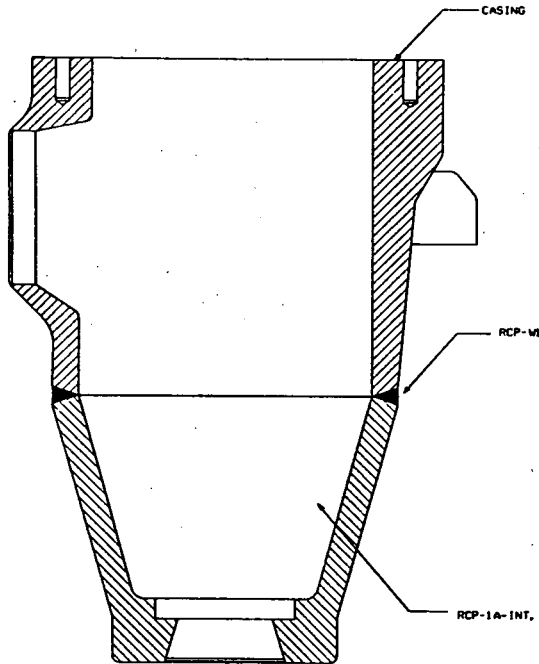
DESIGNED	APPROVED	DATE
	PHILLIP E. BUKES	6/1/93
CHECKED	PROJECT APPROVED	
D. M.		1/17/83
DATE	DRWNG. NO.	REV.
ESS	4/1/93	
SCALE		
NONE	M-1201	C

LOCATION: CONTAINMENT

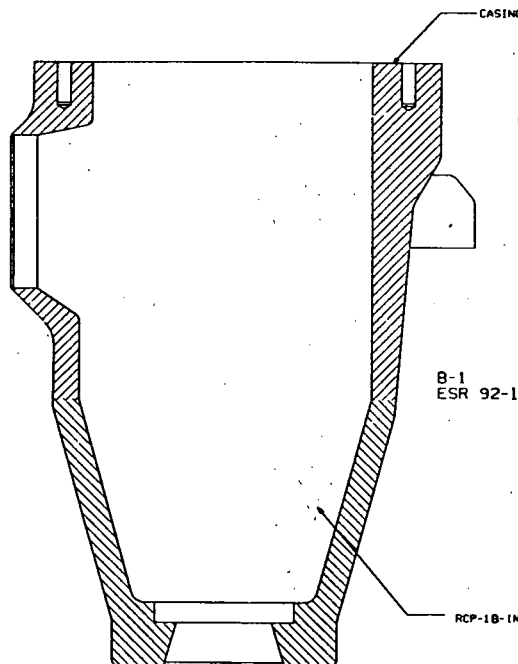
CADD

E021-W

COMPONENT DATA		
I. D.	THICKNESS	MATERIAL
RCP-M	4.5" MIN.	A 351 CFB M
RCP-1A-INT.	INTERIOR SURFACE	A 351 CFB M
RCP-1B-INT.	INTERIOR SURFACE	A 351 CFB M



REACTOR COOLANT PUMP RCP-1A



REACTOR COOLANT PUMP RCP-1B

B-1  
ESR 92-177

- NOTES:
- 1). DRAWING APPLICABLE FOR 3rd ISI INTERVAL
  - 2). ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 1

NOTE: RCP-1B ONE PIECE CASING

LOCATION: CONTAINMENT

REVISION

A  
POD 0011 COMPL  
SEE REV D-1  
APP'D: CAT 10/23/89  
FILM'D: (WPS) 11/7/89

A-1  
RE-DRAFTED TO CAD  
PER ESR 92-177  
OWN: E. SAXTON 4/1/93  
CHK'D: B. TROTTER 5/12/93  
APP'D: CAT 7-23-93

B  
ESR 92-177 COMPL.  
SEE REV. A-1  
FILMED: (WPS) 08-03-93

B-1  
REV. NOTES  
PER ESR 92-177  
BY: LNL 10-1-93  
CHK'D: RJS 10-4-93  
APP'D: CAT 10-07-93

C  
ESR 92-177 COMPL.  
SEE REV. B-1  
FILMED: (WPS) 10-19-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

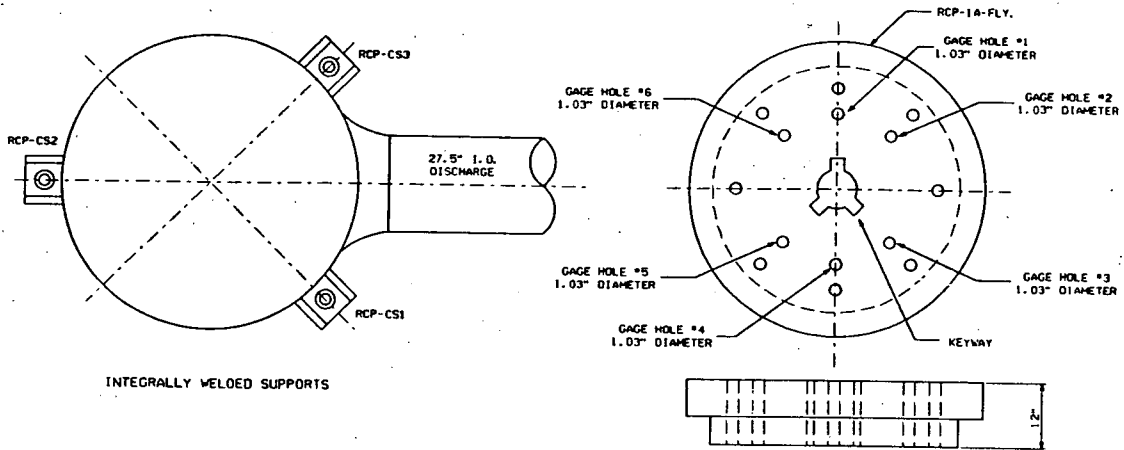
REACTOR COOLANT PUMP  
RCP-1A AND RCP-1B CASING

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	8/18/93
D. H.	PROJECT APPROVED	
DATE	1/17/93	
ESS	DWG. NO.	REV.
NONE	M-1203	C

CADD

M-1204



REACTOR COOLANT PUMP RCP-1A

FLY WHEEL

COMPONENT DATA		
I. D.	THICKNESS	MATERIAL
RCP-1A-FLY.	12"	ASTM A533 TP. B CL. 1
RCP-1B-FLY.	12"	ASTM A533 TP. B CL. 1

INTEGRALLY WELDED ATTACHMENT DATA		
I. D.	THICKNESS	MATERIAL
RCP-CS1	4.0"	304SS1/A351-65 CF 8
RCP-CS2	4.0"	304SS1/A351-65 CF 8
RCP-CS3	4.0"	304SS1/A351-65 CF 8
RCP-CS4	4.0"	304SS1/A351-65 CF 8
RCP-CS5	4.0"	304SS1/A351-65 CF 8
RCP-CS6	4.0"	304SS1/A351-65 CF 8

REVISION

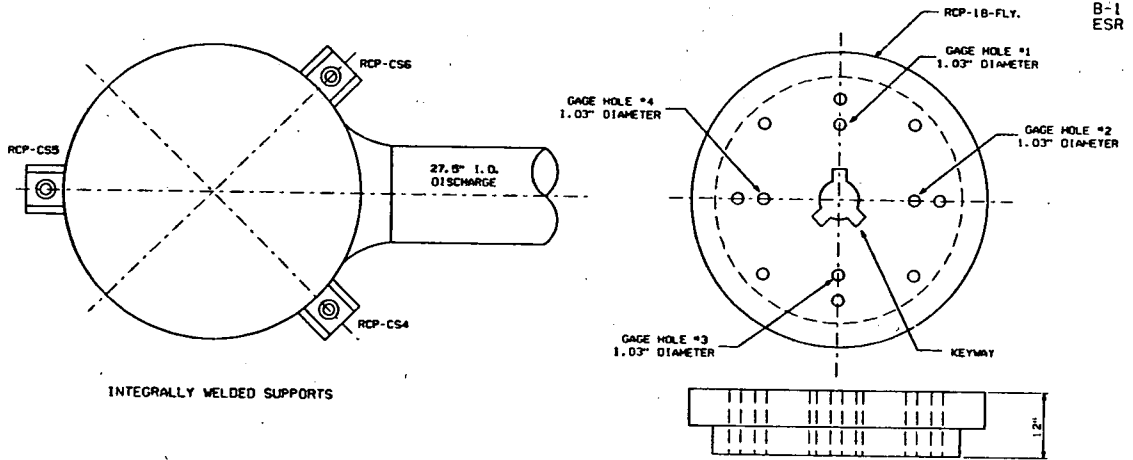
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 POD 0011 COMPL  
 SEE REV 0-1  
 APP'D: CAT 10/23/89  
 FILM'D: (WPS) 11/7/89

A-1  
 REDRAFTED TO CAD  
 PER ESR 92-177  
 DWG. E. SAXTON 4/1/93  
 CHK'D: B. TROTTER 5/12/93  
 APP'D: CAT 7-23-93

B  
 ESR 92-177 COMPL.  
 SEE REV. A-1  
 FILM'D: (WPS) 08-03-93

B-1  
 REV. NOTES  
 PER ESR 92-177  
 BY: LNL 10-1-93  
 CHK'D: RJS 10-4-93  
 APP'D: CAT 10-07-93

C  
 ESR 92-177 COMPL.  
 SEE REV. B-1  
 FILM'D: (WPS) 10-19-93



REACTOR COOLANT PUMP RCP-1B

FLY WHEEL

B-1  
 ESR 92-177

NOTES:  
 1). DRAWING APPLICABLE FOR 3rd ISI INTERVAL  
 2). ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 1

LOCATION: CONTAINMENT

WISCONSIN PUBLIC SERVICE CORPORATION  
 KEWAUNEE NUCLEAR POWER PLANT  
 CARLTON, KEWAUNEE COUNTY, WISCONSIN

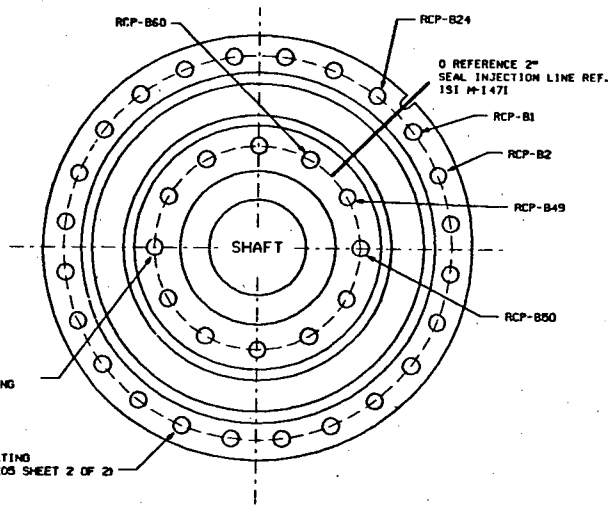
**REACTOR COOLANT PUMPS  
 RCP-1A AND RCP-1B  
 FLYWHEEL & SUPPORTS**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 GREEN BAY, WISCONSIN

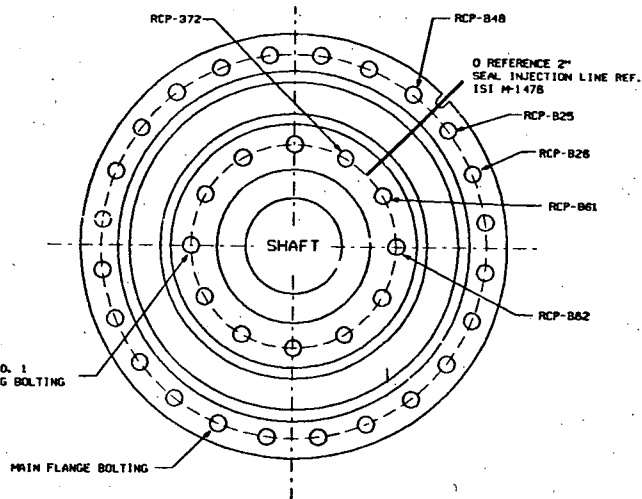
DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 4/18/93
D. M.	PROJECT APPROVED
DATE	1/17/83
ESS SCALE 4/1/93	OWG. NO. M-1204
NONE	REV. C

CADD

1 HS 9021-W



REACTOR COOLANT PUMP RCP-1A



REACTOR COOLANT PUMP RCP-1B

R.C. PUMP NO. 1  
SEAL HOUSING BOLTING

MAIN FLANGE BOLTING  
(REFERENCE M-1205 SHEET 2 OF 2)

R.C. PUMP NO. 1  
SEAL HOUSING BOLTING

MAIN FLANGE BOLTING

NO. 1 SEAL HOUSING BOLTING DATA			
BOLTS/ DIA.	LGTH.	NUTS	MATERIAL
12 / 2.0"	7/8.0"	N/A	SA-193 GR. B7

MAIN FLANGE BOLTING DATA			
BOLTS/ DIA.	LGTH.	NUTS	MATERIAL
24 / 4.5"	7/30.5"	N/A	SA-510 GR. B24 CL. 4

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS I

REVISION	
A	POD 0011 COMPL SEE REV. 0-1 APP'D: CAT 10/23/89 FILM'D: (MPS) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
B	ESR 92-177 COMP.
	SEE REV. A-1 FILM'D: MPS 8-17-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**REACTOR COOLANT PUMPS  
RCP-1A AND RCP-1B MAIN FLANGE  
AND NO. 1 SEAL HOUSING BOLTING**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

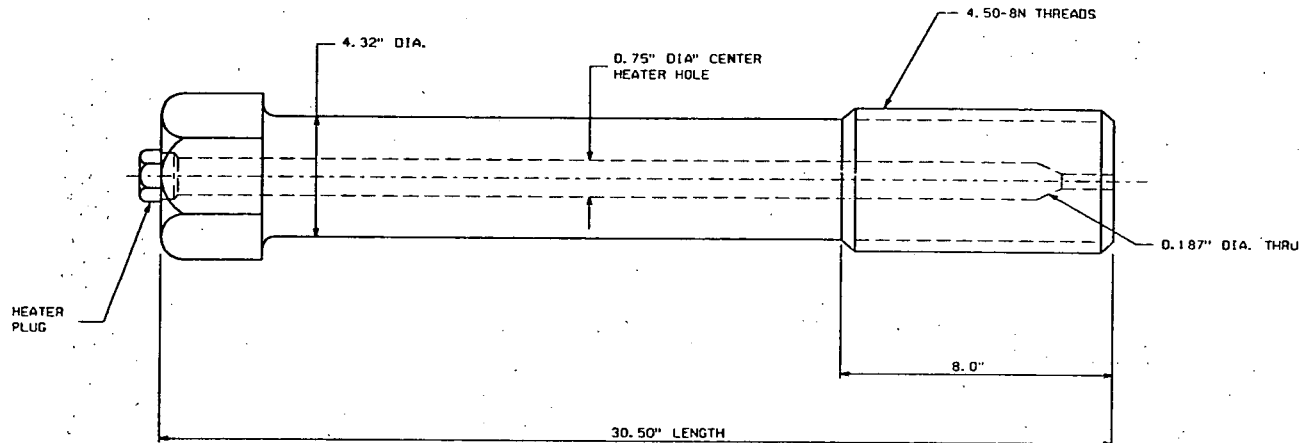
DESIGNED		APPROVED	
CHECKED		PHILLIP E. BUKES	7/22/93
D. M.	1/17/93	PROJECT APPROVED	
DRWG. NO.	M-1205	REV.	B
SCALE	NONE	SHT. 1 OF 2	

LOCATION: CONTAINMENT

CADD



M-1205 SH 2



REVISION	
0-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK: Dr. B. TROTTER 5/12/93 APP: Dr. CAT 8-4-93
A	ESR 92-177 COMP.
SEE REV. 0-1 FILMED: MFS 8-17-93	

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS I

MAIN FLANGE BOLTING DATA EACH REACTOR COOLANT PUMP		
BOLTS/ DIA. / LGTH.	NUTS	MATERIAL
24 / 4.32" / 30.3"	N/A	SA-510 GR. B24 CL. 1

CALIBRATION BLOCK		
J. D.	DIAMETER/LENGTH	MATERIAL
WFS-47	4.32" / 30.3"	SA-510-68A GR. B24

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**REACTOR COOLANT PUMP  
RCP-1A AND RCP-1B  
MAIN FLANGE BOLT**

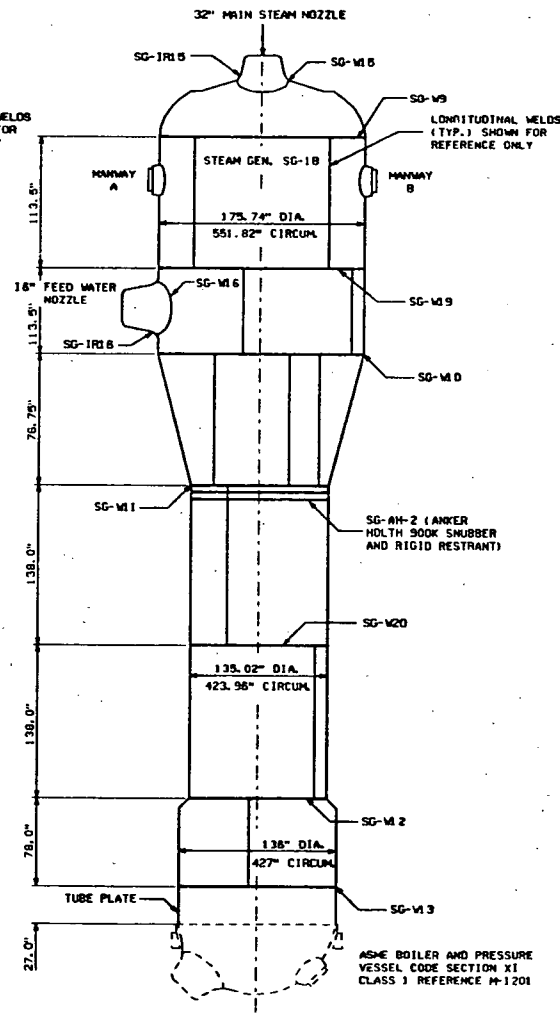
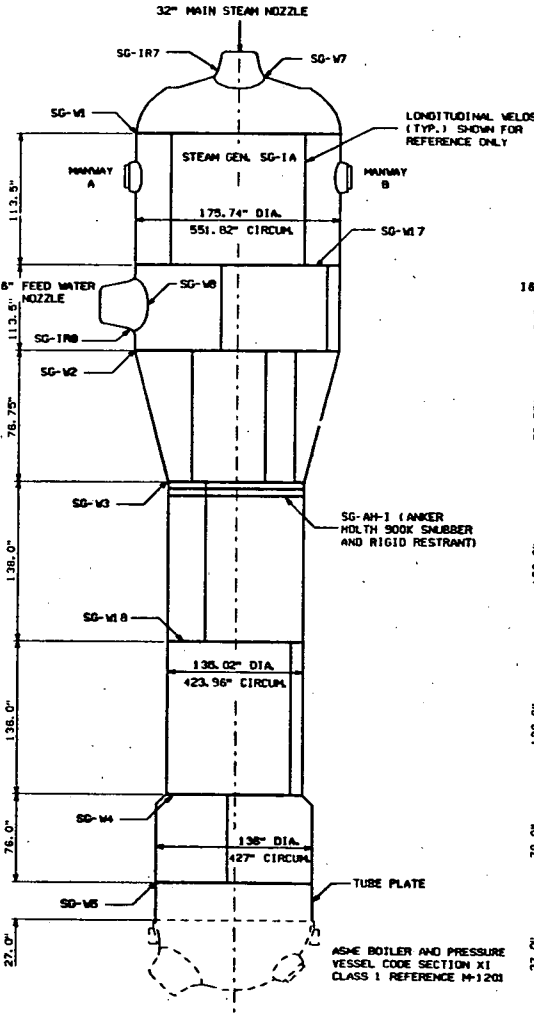
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
CHECKED	PHILLIP E. BOXES	1/21/93
DATE	PROJECT APPROVED	
DL M	1/17/93	
DRAWN	DWG. NO.	REV.
D. R. / D. S. 1/13/93	M-1205	SHT. 2 OF 2 A
SCALE		
NONE		

CADD

LOCATION: CONTAINMENT

9021-M



ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 1 REFERENCE M-1201

ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 1 REFERENCE M-1201

LOCATION: CONTAINMENT

MANWAY BOLTING DATA EACH MANWAY

BOLTS / DIA. / LGTH	NUTS
20 / 1.25" / 8.0"	N/A

COMPONENT DATA

I.D.	THICKNESS	MATERIAL
SG-M1	3.62" (MIN.)	SAB33 GR. A CL. 1CS
SG-M2	3.90"	SAB33 GR. A CL. 1CS
SG-M3	2.00"	SAB33 GR. A CL. 1CS
SG-M4	2.52" (MIN.)	SAB33 GR. A CL. 1CS
SG-M5	3.92" (MIN.)	SAB33 GR. A CL. 1CS
SG-M6	3.62" (MIN.)	SAB33 GR. A CL. 1CS
SG-1R7	INNER RADIUS SECTION	SAB08 CL. 2 CS
SG-M8	3.90"	SAB33 GR. A CL. 1CS
SG-1R9	INNER RADIUS SECTION	SAB08 CL. 2 CS
SG-M9	3.62" (MIN.)	SAB33 GR. A CL. 1CS
SG-M10	3.90"	SAB33 GR. A CL. 1CS
SG-M11	3.00"	SAB33 GR. A CL. 1CS
SG-M12	2.82" (MIN.)	SAB33 GR. A CL. 1CS
SG-M13	3.25" (MIN.)	SAB33 GR. A CL. 1CS
SG-M14	3.62" (MIN.)	SAB33 GR. A CL. 1CS
SG-1R15	INNER RADIUS SECTION	SAB08 CL. 2 CS
SG-M16	3.90"	SAB33 GR. A CL. 1CS
SG-1R16	INNER RADIUS SECTION	SAB08 CL. 2 CS
SG-M17	2.62" (MIN.)	SAB33 GR. A CL. 1CS
SG-M18	2.82" (MIN.)	SAB33 GR. A CL. 1CS
SG-M19	3.82" (MIN.)	SAB33 GR. A CL. 1CS
SG-M20	2.82" (MIN.)	SAB33 GR. A CL. 1CS

CALIBRATION BLOCK

I.D.	DIAMETER/SCHEDULE	MATERIAL
MPS-36	3.9" ID B. 20" LG. 0" W.	SAB33 GR. B CL. 1CS
MPS-42	18" FW NOZZLE FC-SGING	SAB08 CLASS 2A CS

D REFERENCE: SG-M4, SG-M6, SG-M12 AND SG-M13  
CENTERLINE OF CLASS 1 SIDE HOTLEG MANWAY.  
(REFERENCE M-201)

D REFERENCE: SG-M1, SG-M2, SG-M3, SG-M7, SG-1R7, SG-M9, SG-1R9, SG-M11, SG-M14, SG-M15, SG-M16, SG-1R15, SG-M17, SG-M18, SG-M19 AND SG-M20.  
CENTERLINE OF 18" FEEDWATER NOZZLE.

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 2

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**STEAM GENERATORS  
SG-1A AND SG-1B**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. RUKES
D. M.	PROJECT APPROVED
DATE	1/17/93
ESS	DWG. NO.
NONE	M-1206
SCALE	REV.
1/1/93	8

REVISION

A

POD 0011 COMPL  
SEE REV 0-1  
APP'D: CAT 10/23/89  
FILM'D: (MPS) 11/7/89

A-1

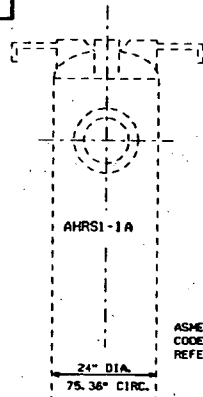
REDRAFTED TO CAD  
PER ESR 92-177  
DWN E. SEXTON 4/1/93  
CHK'D: B. TROTTER 5/12/93  
APP'D: CAT 8-4-93

B

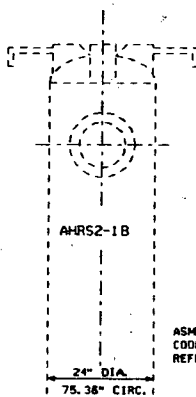
ESR 92-177 COMP.

SEE REV. A-1  
FILMED: MPS 8-17-93

M-1207



ASME BOILER AND PRESSURE VESSEL  
CODE SECTION XI CLASS 3  
REFERENCE M-1224



ASME BOILER AND PRESSURE VESSEL  
CODE SECTION XI CLASS 3  
REFERENCE M-1224

**BOLTING DATA EACH HEAT EXCHANGER**

SIZES / DIA. / LGTH	NUTS
28 / 1.125" / 8.0"	56

**COMPONENT WELD DATA**

I. D.	THICKNESS	MATERIAL
AHRS1-V1	0.5"	A240 TP304SS
AHRS1-V2	0.5"	A240 TP304SS
AHRS1-V3	0.5"	A240 TP304SS
AHRS1-V4	0.5"	A240 TP304SS
AHRS1-V5	0.5"	A240 TP304SS
AHRS1-V6	0.5"	A240 TP304SS
AHRS1-V7	0.5"	A240 TP304SS
AHRS1-V8	0.5"	A240 TP304SS

**INTEGRALLY WELDED ATTACHMENT DATA**

I. D.	THICKNESS	MATERIAL
AHRS1-SW1	1.562" x .75"	A285 GR. C
AHRS1-SW2	1.562" x .75"	A285 GR. C
AHRS2-SW3	1.562" x .75"	A285 GR. C
AHRS2-SW4	1.562" x .75"	A285 GR. C

**CALIBRATION BLOCK**

I. D.	DIAMETER/SCHEDULE	MATERIAL
MPS-30	0.5" x 8.0" x 2.5" W	SA240 TP304SS

**REVISION**

B  
PDD 0011 COMPL  
SEE REV 0-1  
APP'D: CAT 10/23/89  
FILM DR (MPS) 11/77/89

B-1  
REDRAFTED TO CAD  
PER ESR 92-177  
DWN: E. SAXTON 4/1/93  
CHK'D: B. TROTTER 5/12/93  
APP'D: CAT 8-4-93

C  
ESR 92-177 COMP.  
SEE REV. B-1  
FILMED: MPS 8-17-93

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 2

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**RESIDUAL HEAT EXCHANGERS  
AHRS1-1A AND AHRS2-1B**

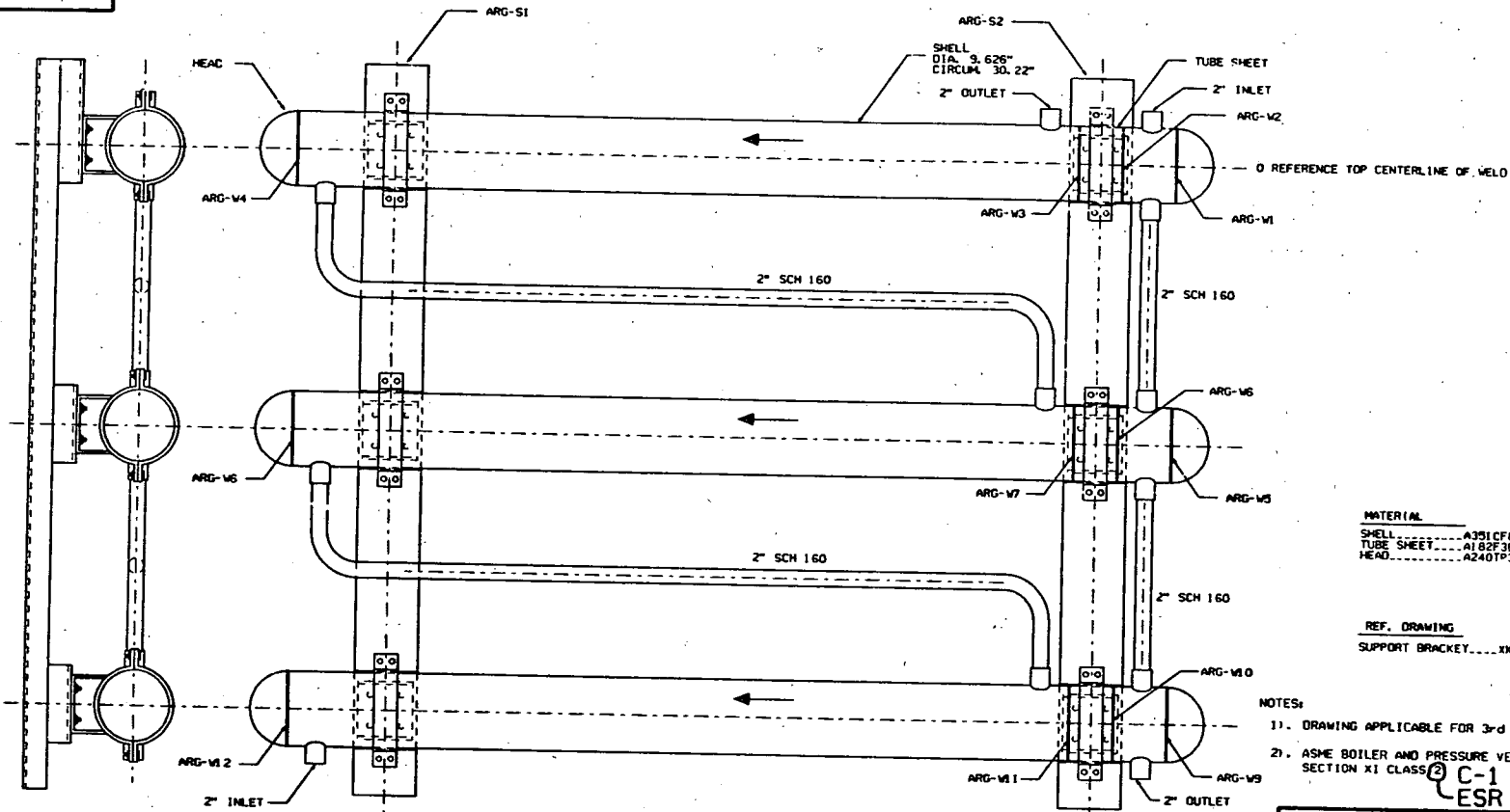
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 8/1/89
D. M.	PROJECT APPROVED
DATE	11/17/83
ESS	DWG. NO. M-1207
SCALE 1/1/89	REV. C
NONE	

LOCATION: AUXILIARY BUILDING 606; RESIDUAL HEAT EXCHANGER AHRS1-1A GATE 256  
AND RESIDUAL HEAT EXCHANGER AHRS2-1B GATE 173

CADD

8021-W



**MATERIAL**  
 SHELL.....A391 CFB  
 TUBE SHEET.....A182F304  
 HEAD.....A240TP304

**REF. DRAWING**  
 SUPPORT BRACKET.....XK-130-492

- NOTES:**
- DRAWING APPLICABLE FOR 3rd ISI INTERVAL
  - ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 2
- C-1**  
**ESR 92-177**

REVISION	
A	PDD 0011 COMPL SEE REV 0-1 APP'D: CAT 10/23/89 FILM'D: (WPS) 11/7/85
A-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
B	ESR 92-177 COMP. SEE REV. A-1 FILMED WPS: 8-17-93
B-1	REV. NOTES PER ESR 92-177 BY: LNL 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
C	ESR 92-177 COMP. SEE REV. B-1 FILMED WPS: 10-19-93
C-1	REVISED NOTE 2 PER ESR 92-177 BY: DDG 11-17-93 CHK'D: RJS 11-17-93 APP'D: CAT 11-19-93
D	ESR 91-277 COMP. SEE REV. C-1 FILMED: WPS 11-30-93

CALIBRATION BLOCK		
I. D.	DIAMETER / SCHEDULE	MATERIAL
WPS-27	3.2" 0.875" T	A391 CFB

COMPONENT WELD DATA	
I. D.	THICKNESS
ARG-M1	.900"
ARG-M5	.900"
ARG-M9	.900"
ARG-M2	.938"
ARG-M6	.938"
ARG-M3	.938"
ARG-M7	.938"
ARG-M11	.938"
ARG-M4	.900"
ARG-M8	.900"
ARG-M12	.900"

LOCATION: CONTAINMENT 593' ELEVATION

CADD

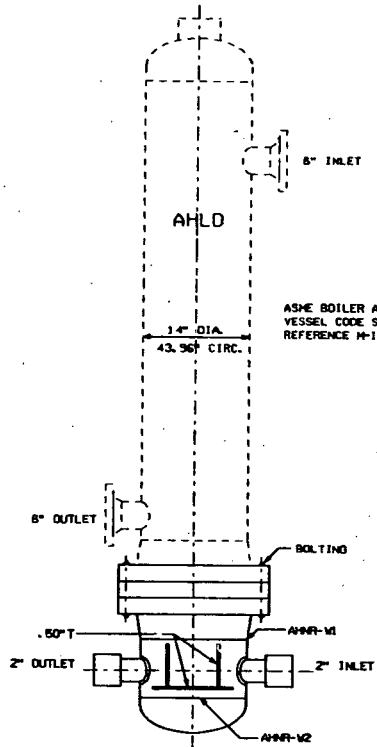
WISCONSIN PUBLIC SERVICE CORPORATION  
 KEWAUNEE NUCLEAR POWER PLANT  
 CARLTON, KEWAUNEE COUNTY, WISCONSIN

## REGENERATIVE HEAT EXCHANGER ARG

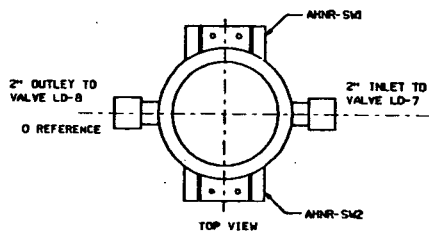
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 GREEN BAY, WISCONSIN

DESIGNED	P. E. BUKES		APPROVED
CHECKED			5/13/93
D. M.	1/17/83	PROJECT APPROVED	
Drawn	DWG. NO.	SCALE	REV.
O. R. / D. S. 11/13/83	M-1208	NONE	D

6021-W



ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 3  
REFERENCE M-1226



TOP VIEW

LOCATION: AUXILIARY BUILDING 606 LETDOWN HEAT EXCHANGER ROOM GATE 53

BOLTING DATA		
BOLTS / DIA. / LGTH	NUTS	
20 / .875" / 8.5"	140	

COMPONENT WELD DATA		
I. D.	THICKNESS	MATERIAL
ANR-VI	0.375"	A240 TP304SS
ANR-V2	0.375"	A240 TP304SS

INTEGRALLY WELDED ATTACHMENT DATA		
I. D.	THICKNESS	MATERIAL
ANR-SM	0.50" T	
ANR-SM2	0.50" T	

CALIBRATION BLOCK		
I. D.	DIAMETER/SCHEDULE	MATERIAL
MPS-25	1.4" SCH 40S 0.375" T	A358 CL2 TR455

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 2

REVISION

A	POD 0011 COMPL SEE REV 0-1 APP'D: CAT 10/23/89 FILM'D: (MPS) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
B	ESR 92-177 COMP. SEE REV. A-1 FILMED: MPS 8-17-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

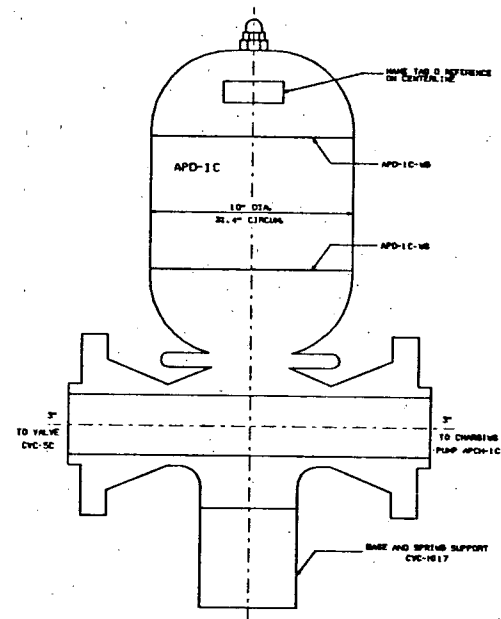
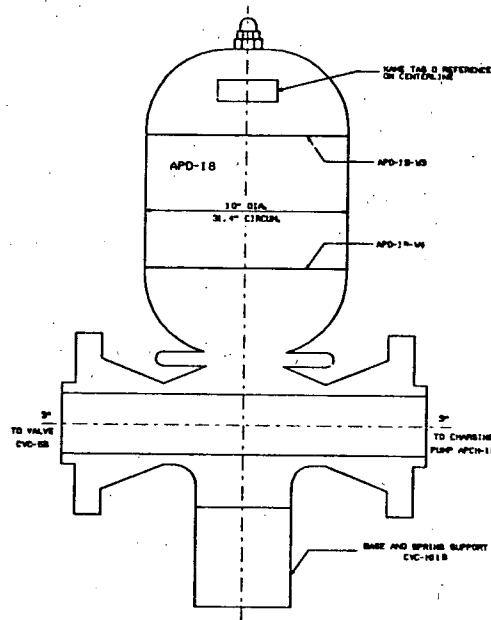
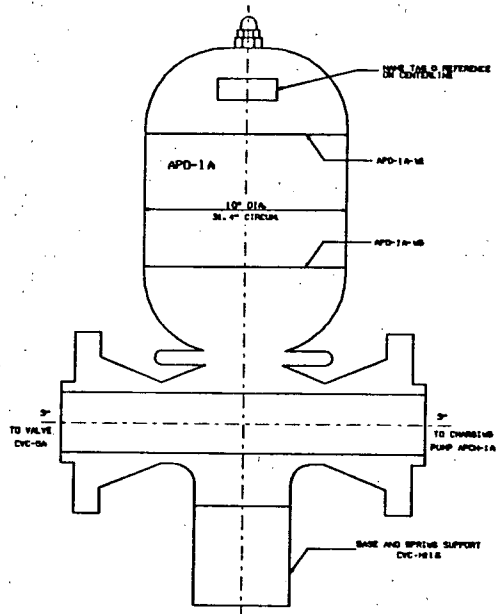
LETDOWN HEAT EXCHANGER  
AHLD

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
CHECKED	PHILLIP E. RUKES	8/1/93
D. M.	PROJECT APPROVED	1/17/93
ESS	SCALE	OWG. NO.
NONE		M-1209
		REV.
		B

CADD

0121-W



DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 2

COMPONENT WELD DATA		
I.D.	THICKNESS	MATERIAL
APD-1A-W	1.0"	SA240 TP304SS
APD-1A-M	1.0"	SA240 TP304SS
APD-1B-W	1.0"	SA240 TP304SS
APD-1B-M	1.0"	SA240 TP304SS
APD-1C-W	1.0"	SA240 TP304SS
APD-1C-M	1.0"	SA240 TP304SS

CALIBRATION BLOCK		
I.D.	DIAMETER/SCHEDULE	MATERIAL
WPS-10	1.0" SCH 140 1.0" T	AS12 TP304SS

LOCATION: AUXILIARY BUILDING 586' ELEVATION CHARGING PUMP ROOM GATE 208

REVISION

A	PDO 0011 COMPL SEE REV 0-1 APP'D: CAT 10/23/89 FILM D: (WPS) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK'D: S. TROTTER 5/12/93 APP'D: CAT 8-4-93
B	ESR 92-177 COMP. SEE REV. A-1 FILMED: WPS 8-17-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

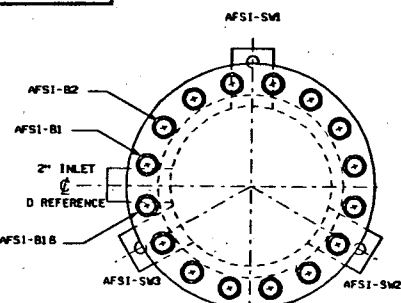
CHARGING PUMP PULSATION  
DAMPENERS  
APD-1A, APD-1B AND APD-1C

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

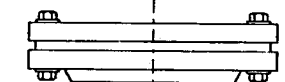
DESIGNED	APPROVED	
CHECKED	P. E. BUKES	5/13/93
PROJECT APPROVED		
D.L.M.	1/17/89	
SCALE	DWG. NO.	REV.
NONE	M-1210	8

CADD

M-1212



TOP VIEW  
BOLTING (TYP)



AFSI-M

AFSI-1A

10.75\"/>

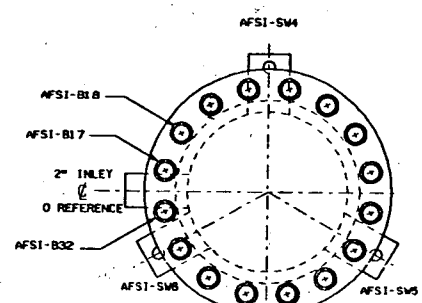
33.75\"/>

2\"/>

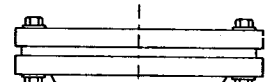
AFSI-M2

WELDED SUPPORTS (TYP.)

2\"/>



TOP VIEW  
BOLTING (TYP)



AFSI-M3

AFSI-1B

10.75\"/>

33.75\"/>

2\"/>

AFSI-M4

WELDED SUPPORTS (TYP.)

2\"/>

**BOLTING DATA**

BOLTS / DIA. / LGTH	NUTS
16 / 1.25\"/>	16

**COMPONENT WELD DATA**

I. D.	THICKNESS	MATERIAL
AFSI-M	1.00"	SA240 TP304SS
AFSI-M2	1.00"	SA240 TP304SS
AFSI-M3	1.00"	SA240 TP304SS
AFSI-M4	1.00"	SA240 TP304SS

**INTEGRALLY WELDED ATTACHMENT DATA**

I. D.	THICKNESS	MATERIAL
AFSI-SM	0.40"	
AFSI-SM2	0.40"	
AFSI-SM3	0.40"	
AFSI-SM4	0.40"	
AFSI-SM5	0.40"	
AFSI-SM6	0.40"	

**CALIBRATION BLOCK**

I. D.	DIAMETER/SCHEDULE	MATERIAL
MPS-10	10\"/>	AS12 TP304SS

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 2

REVISION	
A	PDD 0011 - COMPL SEE REV 0-1 APP'D: CAT 10/23/89 FILM'D: (MPS) 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAKTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
B	ESR 92-177 COMP. SEE REV. A-1 FILMED: MPS 8-17-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**SEAL WATER INJECTION FILTERS  
AFSI-1A AND AFSI-1B**

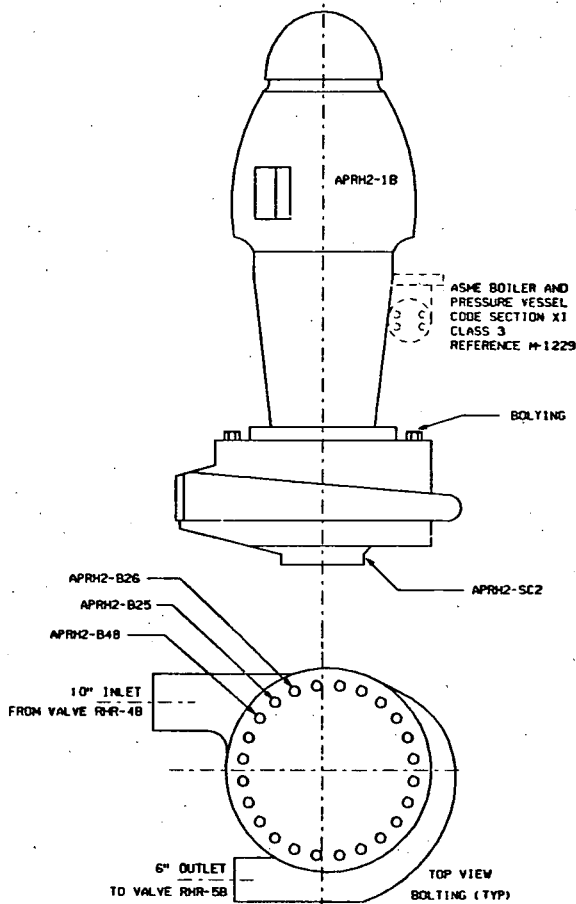
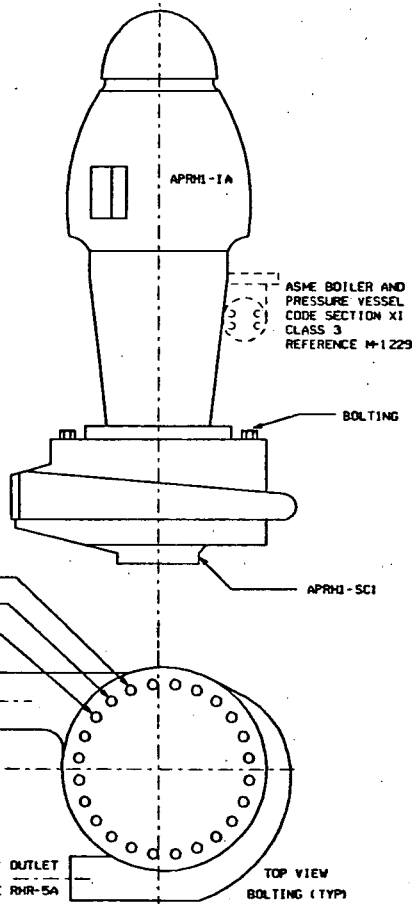
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 8/1/83
D. H.	PROJECT APPROVED
DATE	1/17/83
ESS	DWG. NO.
SCALE 1/17/83	M-1212
NONE	REV. B

LOCATION: AUXILIARY BUILDING ELEVATION 606' FILTER ROOM GATE 257

CADD

M-1215



BOLTING DATA EACH PUMP		
BOLTS / DIA.	LGTH	NUTS
24	1.25"	4.5" IN/A

NOTE: NO CLASS 2 INTEGRALLY WELDED ATTACHMENTS OR PUMP CASING WELDS.

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 2

REVISION

A	PGO 0011 CDMP SEE REV 0-1 APP'D: CAT 10/23/89 FILMED: WPS 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWG: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
B	ESR 92-177 CDMP.
	SEE REV. A-1 FILMED: WPS 8-17-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

RESIDUAL HEAT REMOVAL PUMPS  
APRH1-1A AND APRH2-1B

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

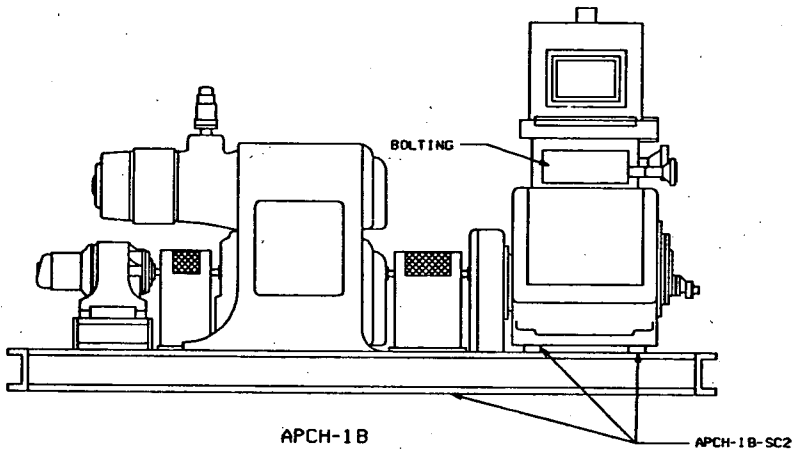
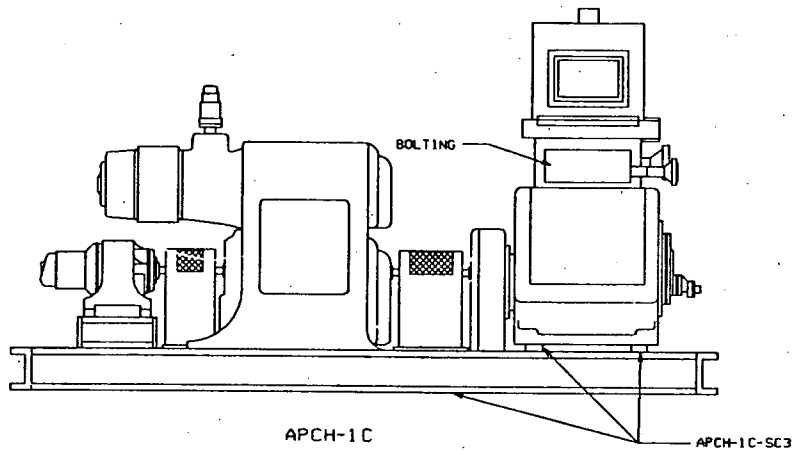
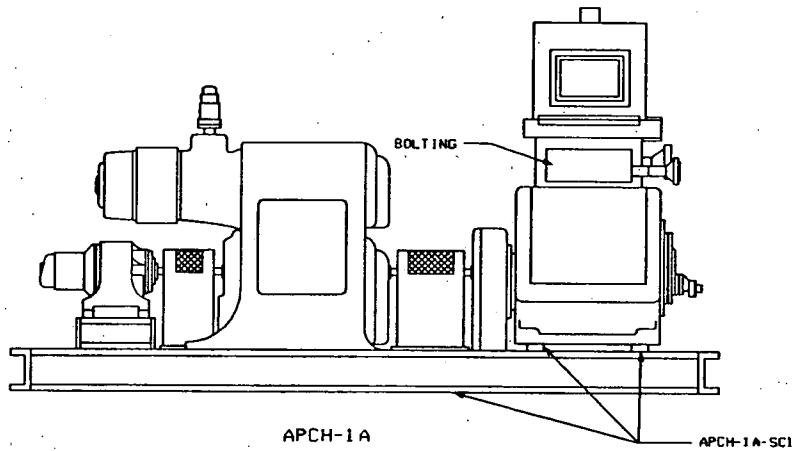
DESIGNED	APPROVED
CHECKED	PHILLIP E. BURES 8/1/93
D. M.	PROJECT APPROVED
DATE	1/17/93
ESS	DWG. NO.
SCALE	M-1215
NONE	REV.
	B

CADD

LOCATION: AUXILIARY BUILDING ELEVATION 566'-6" RHR PUMP PITS 1A AND 1B



9121-W



BOLTING DATA EACH PUMP

STUDS / DIA.	LGTH	NUTS
12	1.25" / 23"	24

NOTE: NO PUMP CASING WELDS OR INTEGRALLY WELDED ATTACHMENTS ON CHARGING PUMPS APCH-1A, APCH-1B AND APCH-1C.

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 2

REVISION

A	ADD 0011 COMPL SEE REV 0-1 APP'D: CAT 10/23/89 FILMED: WPS 11/7/89
A-1	REDRAFTED TO CAD PER ESR 92-177 DWG. E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
B	ESR 92-177 COMP. SEE REV. A-1 FILMED: WPS 8-17-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

CHARGING PUMPS  
APCH-1A, APCH-1B AND APCH-1C

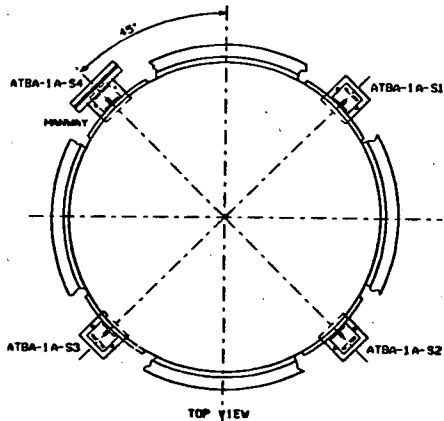
DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
PHILLIP E. RUKES	8/1/93
CHECKED	PROJECT APPROVED
D. M.	J/17/93
DRWN	DWG. NO.
ES	1216
SCALE	REV.
NONE	B

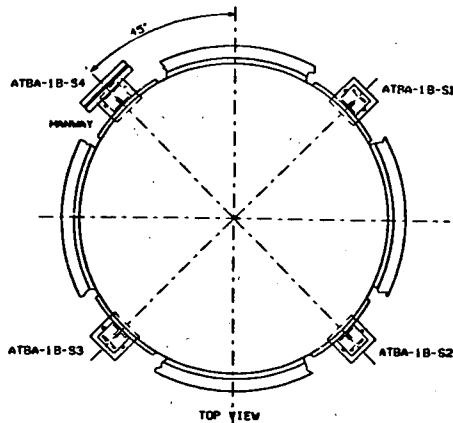
LOCATION: AUXILIARY BUILDING 586' CHARGING PUMP ROOM GATE 208

CADD

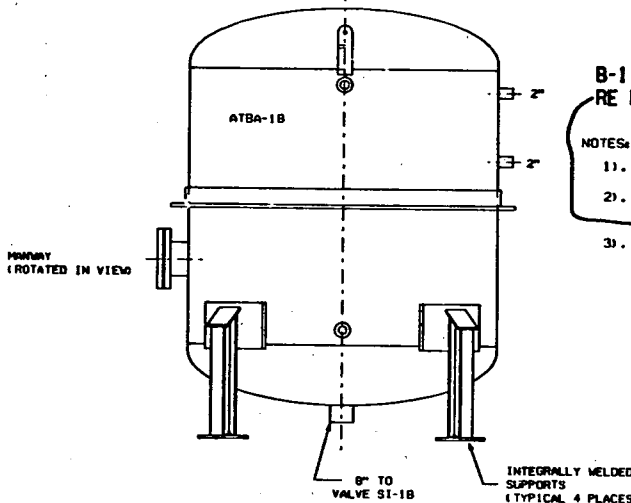
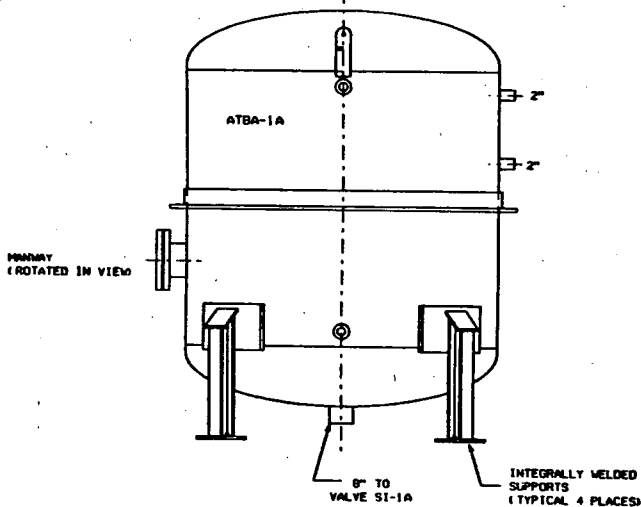
M-1217



TOP VIEW



TOP VIEW



B-1  
RE PUR 0256

- NOTES:
1. DRAWING APPLICABLE FOR 3-d ISI INTERVAL
  2. ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 2
  3. COMPONENT SUBJECT TO PRESSURE TESTING ONLY

REVISION

O-1	REDRAFTED TO CAD PER ESR 92-177 DWG. E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
A	ESR 92-177 COMP. SEE REV. O-1 FILMED: MPS 8-17-93
A-1	REV. NOTES PER ESR 92-177 BY: LNL 10-1-93 CHK'D: RJS 10-4-93 APP'D: CAT 10-07-93
B	ESR 92-177 COMP. SEE REV. A-1 FILMED: MPS 10-19-93
B-1	RE PUR 0256 DWG. REVISED TO REFLECT CORRECT CLASSIFICATION BY: LAH 12-08-93 CHK'D: RJS 12-08-93 APP'D: CAT 12-08-93
C	RE PUR 0256 COMPL. SEE REV. B-1 FILMED: (MPS) 12-08-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

BORIC ACID TANKS  
ATBA-1A AND ATBA-1B

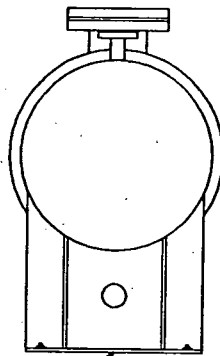
DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	8/1/93
D. M.	PROJECT APPROVED	
DATE	1-17/93	
ESS	DWG. NO.	REV.
NONE	M-1217	C

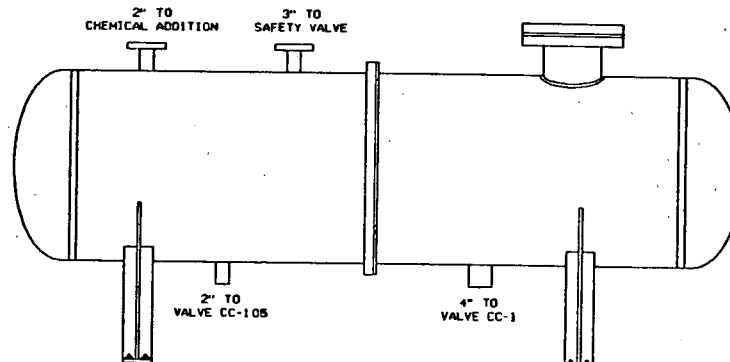
LOCATION: AUXILIARY BUILDING ELEVATION 626' DOOR 121

CADD

8121-W



INTEGRALLY WELDED  
COMPONENT SUPPORT



2" TO  
VALVE CC-105

ATCS-S1  
INTEGRALLY WELDED  
COMPONENT SUPPORT

4" TO  
VALVE CC-1

ATCS-S2  
INTEGRALLY WELDED  
COMPONENT SUPPORT

REVISION

0-1  
REDRAFTED TO CAD  
PER ESR 92-177  
DWG. E. SAXTON 4/1/93  
CHK'D. D. TROTTER 5/12/93  
APP'D. CAT 8-4-93  
A ESR 92-177  
SEE REV. 0-1  
FILMED: WFS 8-17-93

DRAWING APPLICABLE FOR 300 PSI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

COMPONENT COOLING SURGE TANK  
ATCS

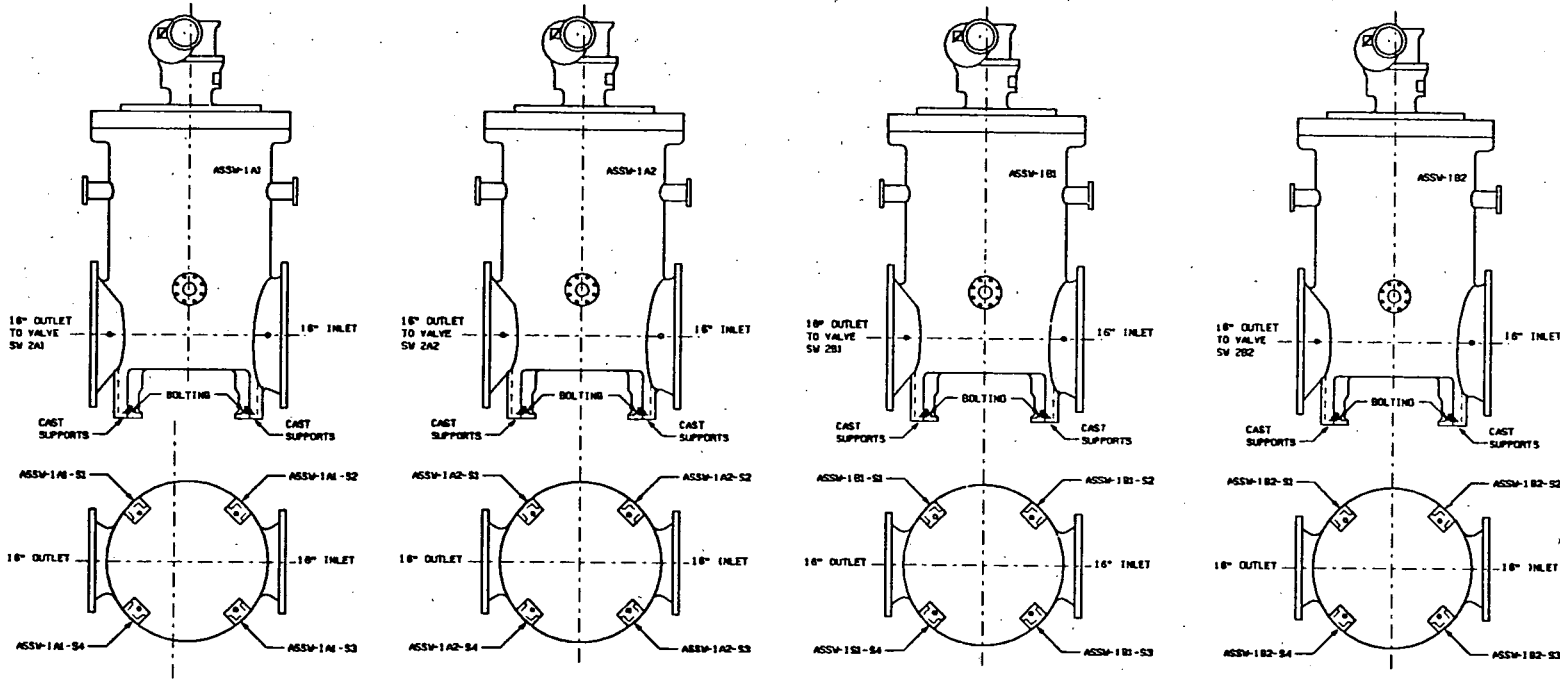
DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 7/21/93
D. H.	PROJECT APPROVED
DATE	1/17/93
DRAWN	DWG. NO.
D. R. / D. S. (1/23/93)	M-1218
SCALE	REV.
NONE	A

LOCATION: AUXILIARY BUILDING ELEVATION 657'

CADO

M-1220



DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL  
CODE SECTION XI CLASS 3

**NOTE:**  
NO CLASS 3 INTEGRALLY WELDED ATTACHMENTS

REVISION

0-1  
REDRAFTED TO CAD  
PER ESR 92-177  
DWG. E. SAXTON 4/1/93  
CHK'D. B. TROTTER 5/12/93  
APP'D. CAT 8-4-93  
A ESR 92-177 COMP.  
SEE REV. 0-1  
FILMED: WPS 8-17-93

LOCATION: TURBINE BUILDING SCREENHOUSE 586'

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

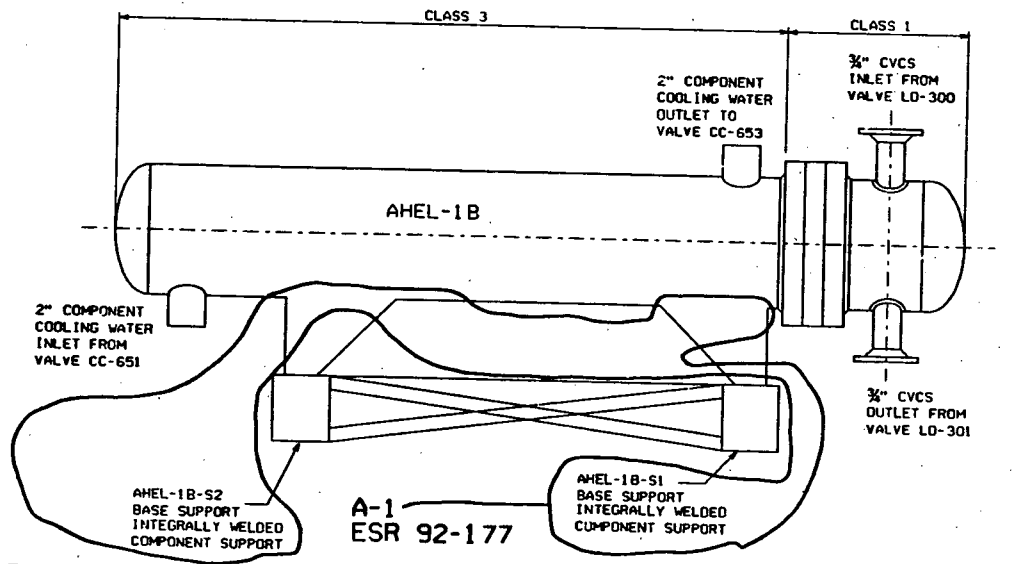
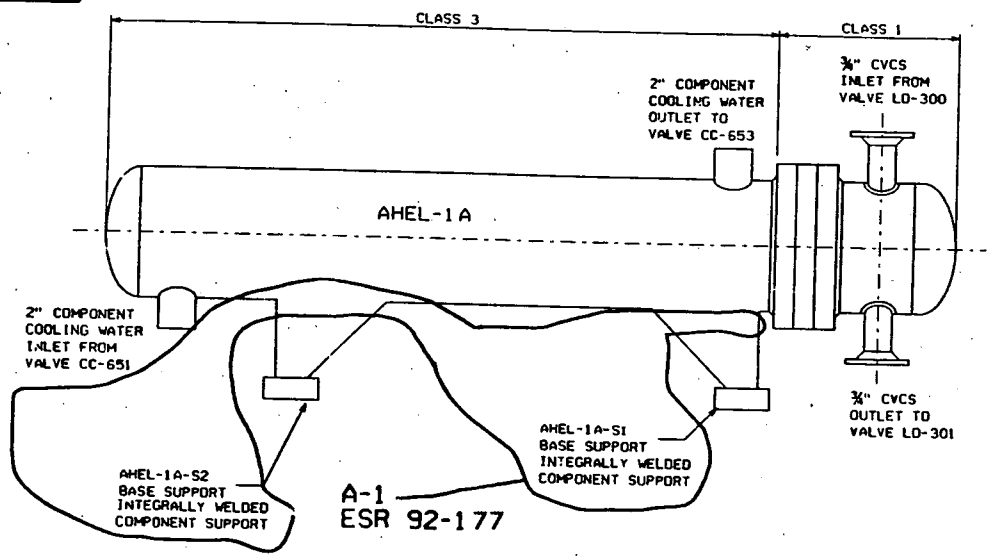
**SERVICE WATER PUMP STRAINERS  
ASSW-1A1, ASSW-1A2, ASSW-1B1,  
AND ASSW-1B2**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	P. E. BUKES 5/13/93
D. H.	PROJECT APPROVED
1/17/93	
SCALE	DWG. NO.
NONE	M-1220
	REV.
	A

CADD

1221-W



LOCATION: CONTAINMENT 593'

REVISION	
O-1	REDRAFTED TO CAD PER ESR 92-177 CHK'D: E. SAXTON 4/1/93 APP'D: B. TROTTER 5/12/93 APP'D: CAT 8-17-93
A	ESR 92-177 COMP. SEE REV. O-1 FILMED: WPS 8-17-93
A-1	REVISED TANKS AND NOTES. PER ESR 92-177 BY: ODG 11-17-93 CHK'D: RJS 11-17-93 APP'D: CAT 11-19-93
B	ESR 92-177 COMP. SEE REV. A-1 FILMED: WPS 11-30-93

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 1 AND CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

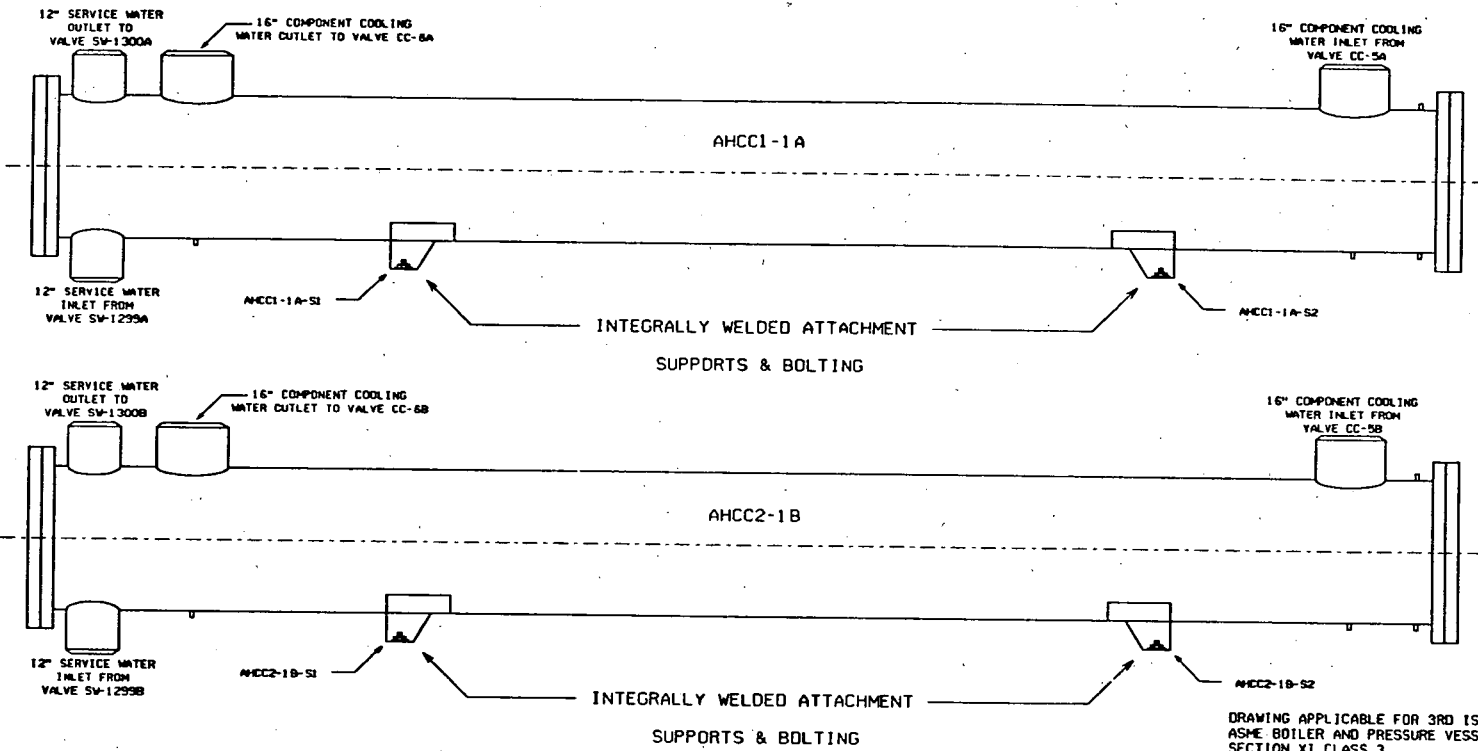
**EXCESS LETDOWN HEAT EXCHANGERS AHEL-1A & AHEL-1B**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED		APPROVED	
CHECKED		PHILLIP E. BUKES	8/1/93
D. M.	1/17/83	PROJECT APPROVED	
ESS	SCALE 4/1/93	DWG. NO.	REV.
NONE		M-1221	B

CADD

M-1222



DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 3

REVISION	
0-1	REDRAFTED TO CAD PER ESR 32-177 OWN: E. SAXTON 4/1/93 CHK: D. B. TROTTER 5/12/93 APP: D. TAD 8-4-93
A	ESR 92-177 COMP. SEE REV. 0-1 FILMED: MPS 8-17-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

COMPONENT COOLING HEAT EXCHANGERS  
AHCC1-1A AND AHCC2-1B

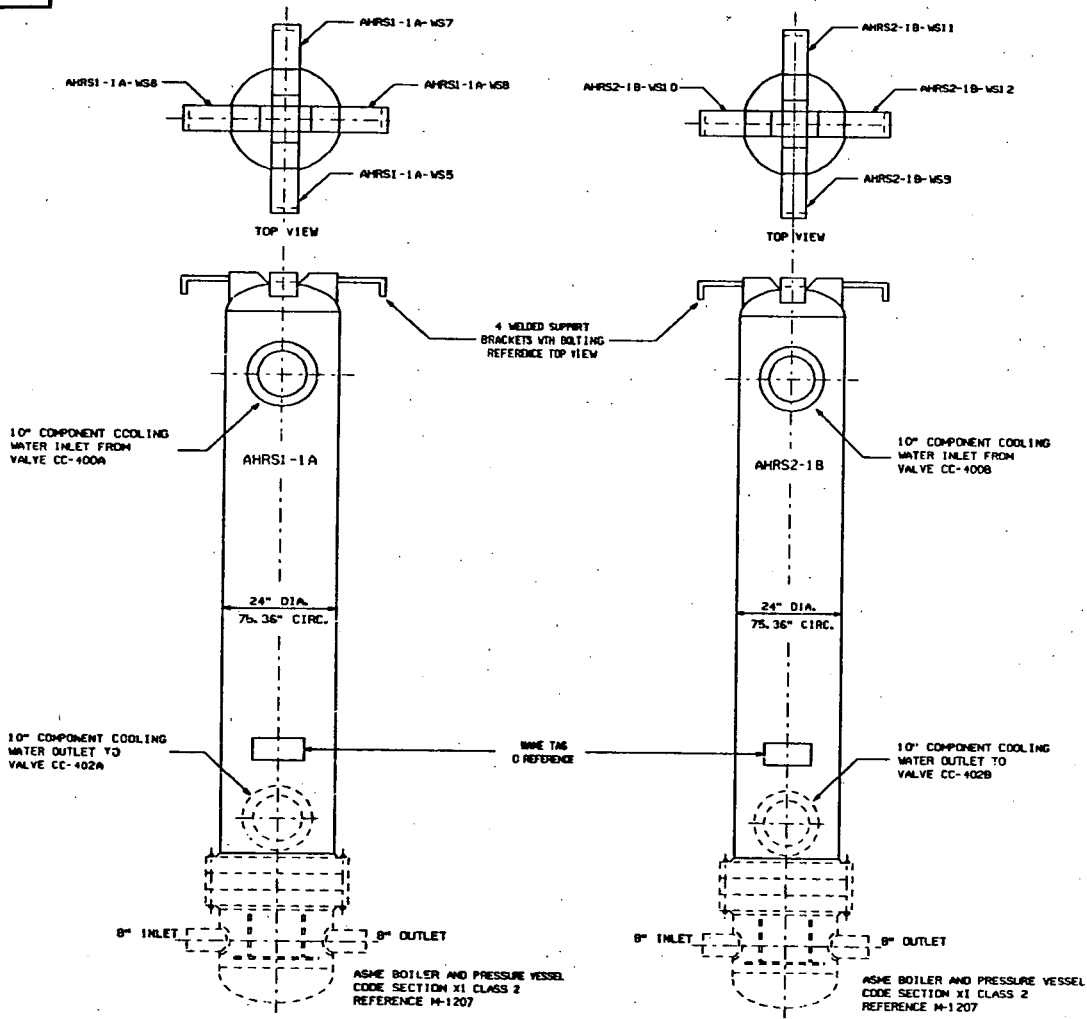
DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	PHILLIP E. BUKES	APPROVED	8/1/93
CHECKED		PROJECT APPROVED	
D. M.	1/17/93		
ESS	1/1/93	DWG. NO.	M-1222
NONE	SCALE	REV.	A

LOCATION: AUXILIARY BUILDING 606'

CADD

M-1224



LOCATION: AUXILIARY BUILDING 606: RESIDUAL HEAT EXCHANGER AHRSI-1A GATE 256 AND RESIDUAL HEAT EXCHANGER AHR2-1B GATE 173

CADD

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 3

REVISION	
0-1	REDRAFTED TO CAD PER ESR 92-177 DWG. E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
A	ESR 92-177 COMP. SEE REV. 0-1 FILMED: WPS 8-17-93

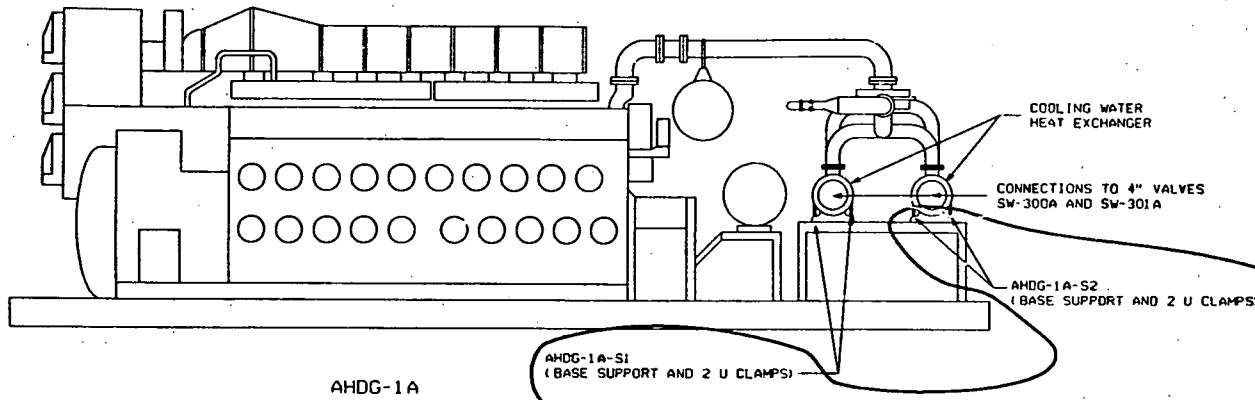
WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**RESIDUAL HEAT EXCHANGERS  
AHRSI-1A AND AHR2-1B**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 6/1/93
D. M.	PROJECT APPROVED
DATE	1/17/93
ESS	DWG. NO.
SCALE	M-1224
NONE	REV. A

5221-W



AHOG-1A

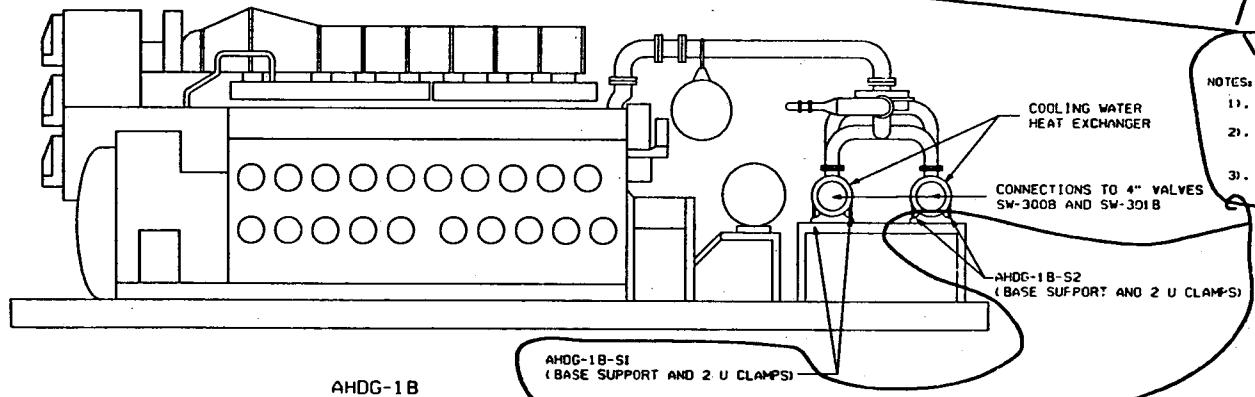
AHOG-1A-S1  
(BASE SUPPORT AND 2 U CLAMPS)

COOLING WATER  
HEAT EXCHANGER

CONNECTIONS TO 4" VALVES  
SW-300A AND SW-301A

AHOG-1A-S2  
(BASE SUPPORT AND 2 U CLAMPS)

A-1  
ESR 92-177



AHOG-1B

AHOG-1B-S1  
(BASE SUPPORT AND 2 U CLAMPS)

COOLING WATER  
HEAT EXCHANGER

CONNECTIONS TO 4" VALVES  
SW-300B AND SW-301B

AHOG-1B-S2  
(BASE SUPPORT AND 2 U CLAMPS)

- NOTES:
1. DRAWING APPLICABLE FOR 3rd ISI INTERVAL
  2. ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 3
  3. NO CLASS 3 INTEGRALLY WELDED ATTACHMENTS

REVISION	
D-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK: D. B. FROTTER 5/12/93 APP: Di CAT 8-4-93
A	ESR 92-177 COMP. SEE REV. 0-1 FILMED: WPS 8-17-93
A-1	REV. NOTES & BASE SUPPORT LBLs. PER ESR 92-177 BY: LML 10-1-93 CHK: D. RJS 10-4-93 APP: Di CAT 10-07-93
B	ESR 92-177 COMP. SEE REV. A-1 FILMED: WPS 10-19-93

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**DIESEL GENERATOR  
AHOG-1A AND AHOG-1B  
COOLING WATER HEAT EXCHANGERS**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

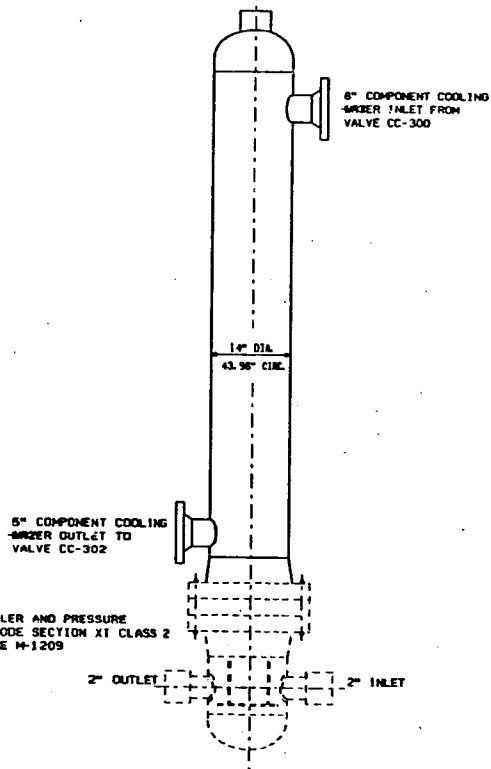
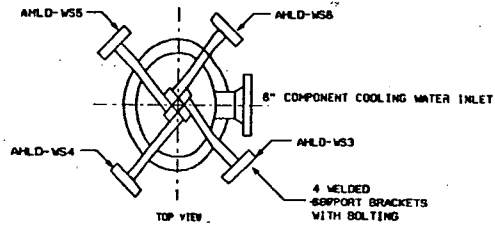
DESIGNED	APPROVED BY	DATE
	PHILLIP E. BUKES	1/21/93
CHECKED	PROJECT APPROVED	
D. H.		1/17/93
DRW	DWG. NO.	REV.
J. R. / D. S. 1/23/93	M-1225	B
NONE		

LOCATION: TURBINE BUILDING ELEVATION 586'

CADD



M-1226



REVISION

0-1	REDRAFTED TO CAD PER ESR 92-177 OWN: E. SAXTON 4/1/93 CHK: D. B. TROTTER 5/12/93 APP: D. CAT 8-4-93
A	ESR 92-177 COMP. BBK REV. 0-1 FILMED: WPS 8-17-93

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

LETDOWN HEAT EXCHANGER  
AHLO

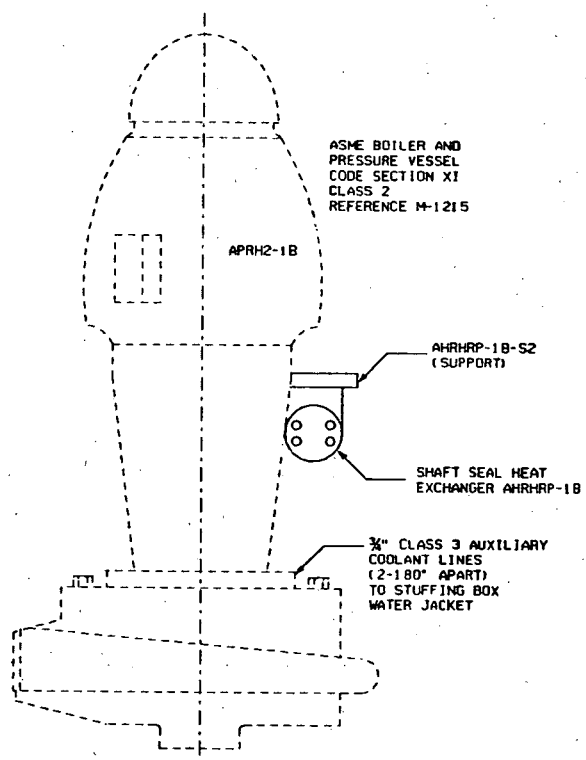
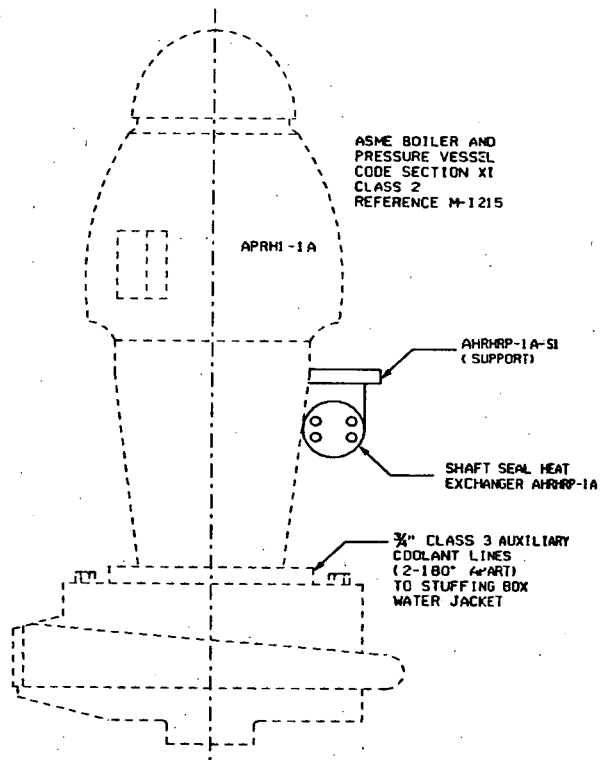
DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	8/1/93
D. H.	PROJECT APPROVED	
1/17/93		
DRAWN	DWG. NO.	REV.
ESS	M-1226	A
SCALE		
NONE		

CADD

LOCATION: AUXILIARY BUILDING 606 LETDOWN HEAT EXCHANGER ROOM GATE 53

6Z21-W



NOTE: NO CLASS 3 INTEGRALLY WELDED ATTACHMENTS

LOCATION: AUXILIARY BUILDING ELEVATION 566'-6" RHR PUMP PITS 1A AND 1B

REVISION	
0-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
A	ESR 92-177 COMP. SEE REV. 0-1 FILMED: WPS 8-17-93

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

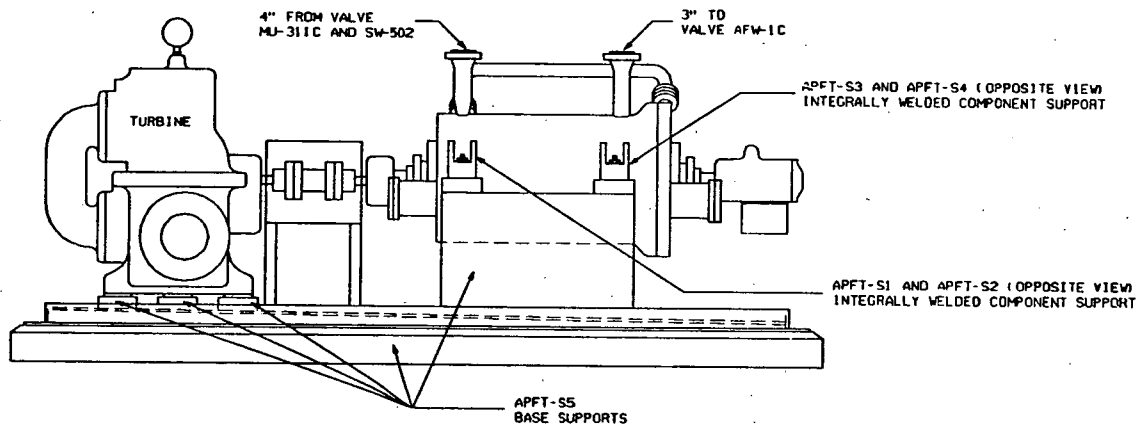
**RESIDUAL HEAT REMOVAL PUMPS  
SHAFT SEAL HEAT EXCHANGERS  
AHRHP-1A AND AHRHP-1B**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILLIP E. BUKES 8/1/93
D. M.	PROJECT APPROVED
DATE	1/17/93
ESS	DWG. NO.
SCALE	M-1229
NONE	REV.
	A

CADD

M-1231-W



REVISION	
O-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK: D. B. TROTTER 5/12/93 APP: D. CAT 8-4-93
A	ESR 92-177 COMP. SEE REV. O-1 FILMED: WPS 8-17-93

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**AUXILIARY FEEDWATER PUMP  
TURBINE DRIVEN  
APFT**

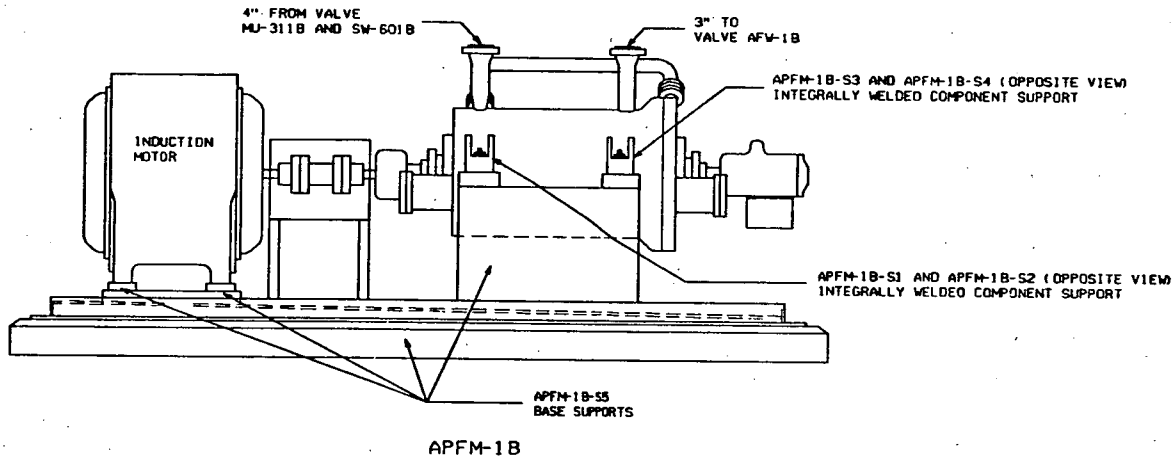
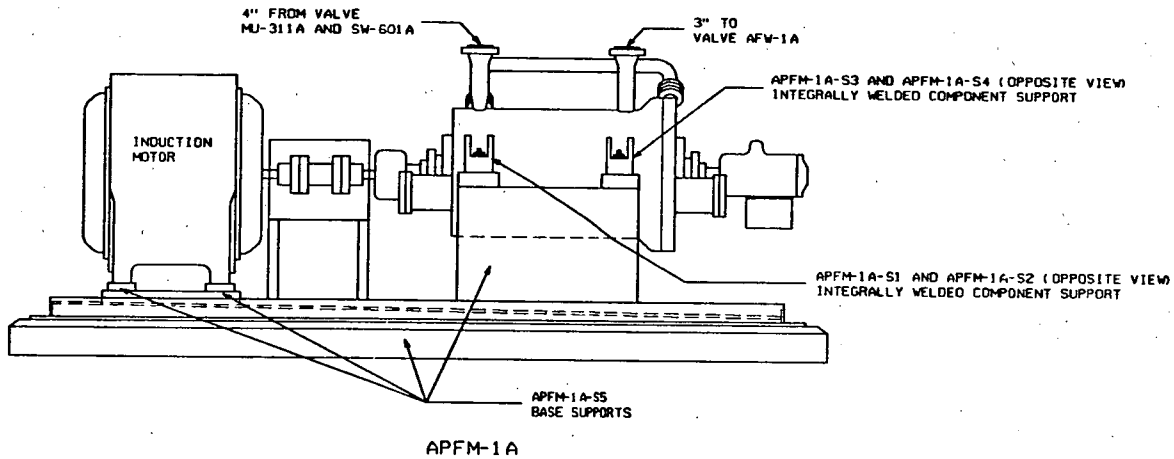
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	1/21/93
D. M.	PROJECT APPROVED	
SCALE	OWG. NO.	REV.
NONE	M-1231	A

LOCATION: TURBINE BUILDING ELEVATION 586'

CADD

M-1232



LOCATION: TURBINE BUILDING ELEVATION 586'

REVISION

0-1  
 REDRAFTED TO CAD  
 PER ESR 32-177  
 DWN: E. SAXTON 4/1/93  
 CHK: D. B. TROTTER 5/12/93  
 APP: D. CAT 8-4-93  
 A ESR 32-177 COMP.  
 SEE REV. 0-1  
 FILMED WPS 8-17-93

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
 ASME BOILER AND PRESSURE VESSEL CODE  
 SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
 KEWAUNEE NUCLEAR POWER PLANT  
 CARLTON, KEWAUNEE COUNTY, WISCONSIN

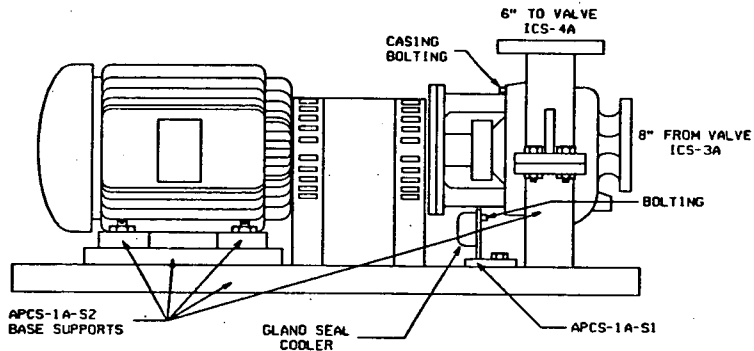
AUXILIARY FEEDWATER PUMPS  
 MOTOR DRIVEN  
 APFM-1A AND APFM-1B

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 GREEN BAY, WISCONSIN

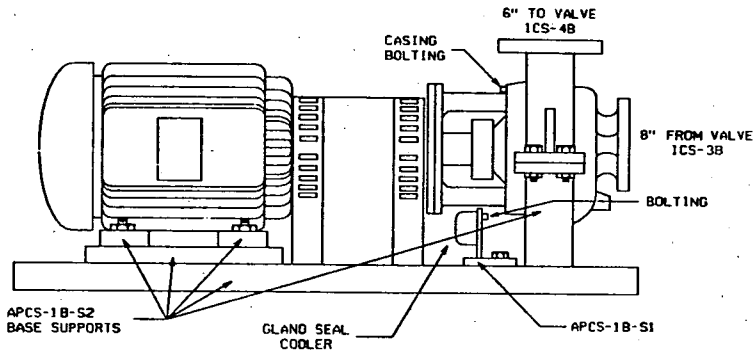
DESIGNED	APPROVED	
CHECKED	PHILIP E. BURES	7/21/93
D. M.	PROJECT APPROVED	
DATE	1/17/93	
DRAWN	DWG. NO.	REV.
D. R. / D. S.	M-1232	A
SCALE		
NONE		

CADD

M-1233



APCS-1A



APCS-1B

CASING BOLTING DATA EACH PUMP			
STUDS	DIA.	LGTH.	NUTS
16	1.0"	4.0"	16

BOLTING DATA EACH GLAND SEAL COOLER			
STUDS	DIA.	LGTH.	NUTS
7	0.5"	1.75"	7

NOTE 1: NO CLASS 2 INTEGRALLY WELDED ATTACHMENTS OR PUMP CASING WELDS

NOTE 2: GLAND SEAL COOLER PIPING INCLUDES 2-<sup>1</sup>/<sub>2</sub>" CLASS 2 SEAL PIPING AND 2-<sup>1</sup>/<sub>2</sub>" CLASS 3 AUXILIARY COOLANT PIPING

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 2

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**CONTAINMENT SPRAY PUMPS  
AND GLAND SEAL COOLERS  
APCS-1A AND APCS-1B**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

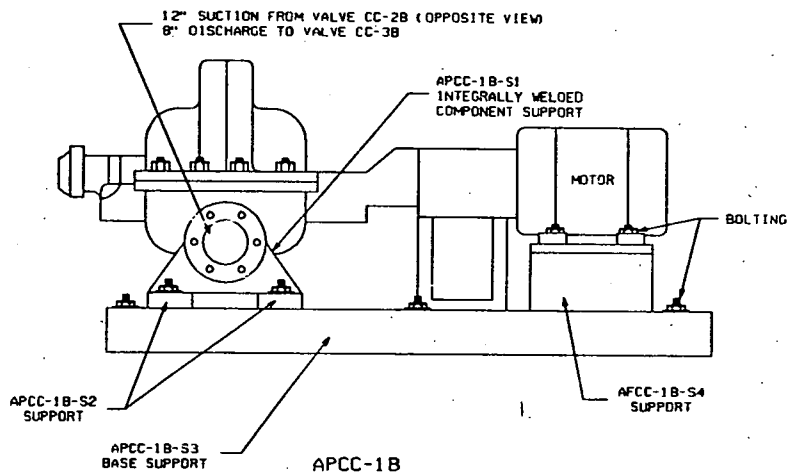
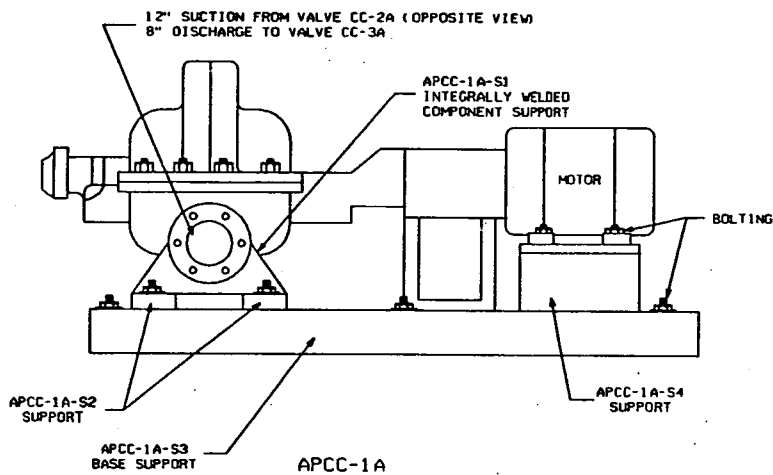
DESIGNED	APPROVED
CHECKED	PHILLIP E. BURES
D. H.	PROJECT APPROVED
DATE	1/17/93
SCALE	1/13/93
DRW. NO.	M-1233
REV.	A

CADD

REVISION	
0-1	REDRAFTED TO CAD PER ESR 92-177 DWN: E. SAXTON 4/1/93 CHK: D. B. TROTTER 5/12/93 APP: G. CAT 8-4-93
A	ESR 92-177 COMP. SEE REV. 0-1 FILMED: WPS 8-17-93

LOCATION: AUXILIARY BUILDING ELEVATION 586'

M-1234



REVISION	
0-1	
REDRAFTED TO CAD PER ESR 92-177 DWN E. SAXTON 4/1/93 CHK'D B. TROTTER 5/12/93 APP'D CAT 8-4-93	
A	ESR 92-177 COMP
SEE REV. 0-1 FILMED: WPS 8-17-93	

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**COMPONENT COOLING PUMPS  
APCC-1A AND APCC-1B**

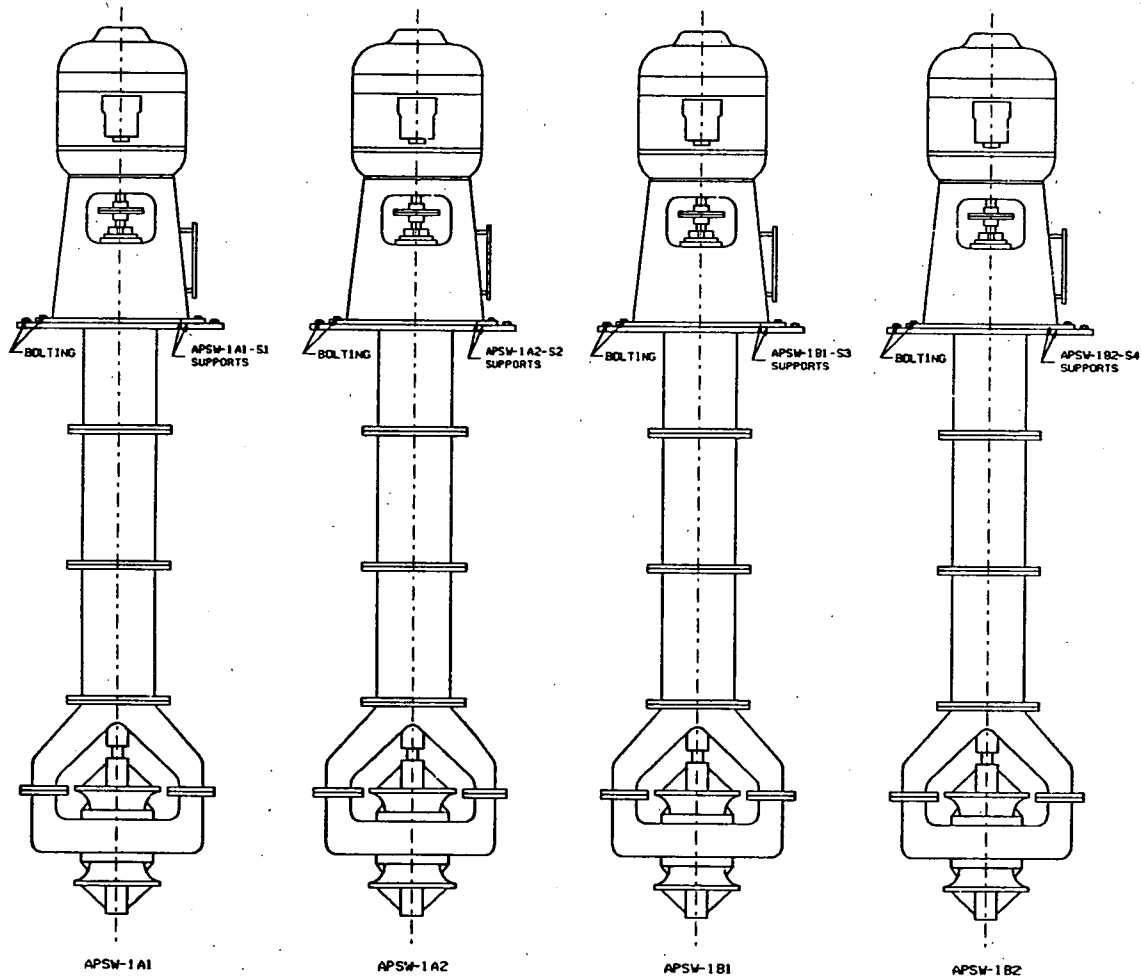
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	1/21/93
PROJECT APPROVED		
D.M.	1/17/93	
Drawn D.R./D.S.	1/13/93	DWG. NO.
NONE	SCALE	M-1234
		REV.
		A

LOCATION: AUXILIARY BUILDING ELEVATION 606'

CADD

M-1236



LOCATION: TURBINE BUILDING SCREEN HOUSE 586'

NOTE: NO CLASS 3 INTEGRALLY WELDED ATTACHMENTS

REVISION	
0-1	REDRAFTED TO CAD PER ESR 92-177 OWN: E. SAXTON 4/1/93 CHK: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
A	ESR 92-177 COMP. SEE REV. 0-1 FILMED: MPS 8-17-93

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

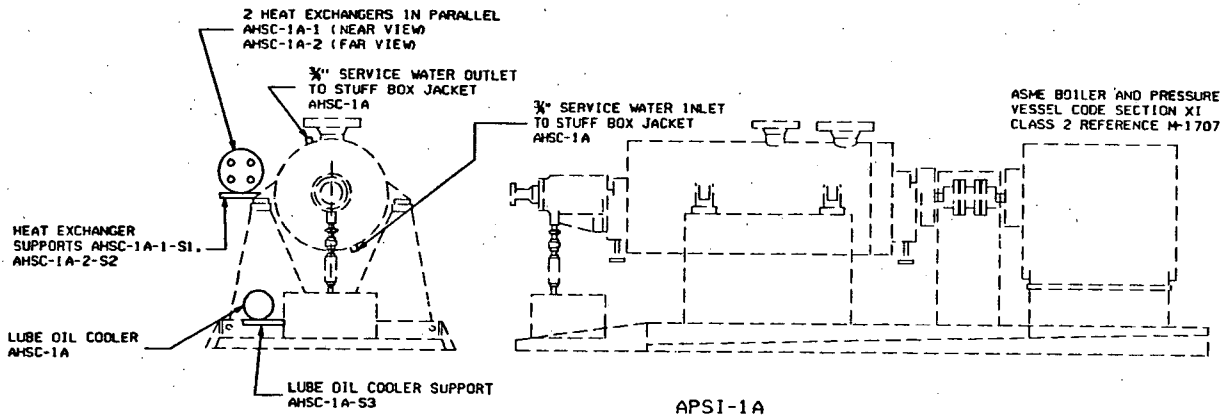
SERVICE WATER PUMPS  
APSW-1A1, APSW-1A2,  
APSW-1B1 AND APSW-1B2

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

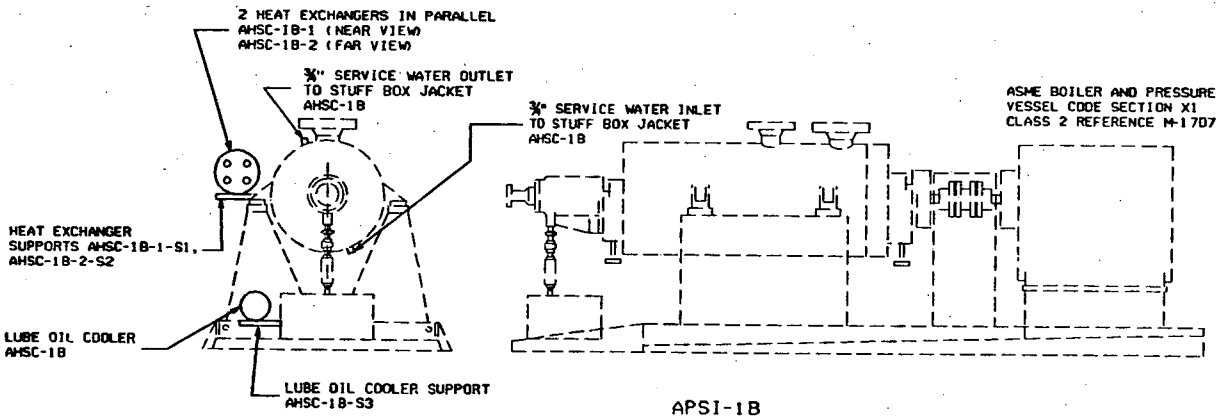
DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	1/21/93
D. M.	PROJECT APPROVED	
DRAWN	DWG. NO.	REV.
D. R. / D. S. 1/17/93	M-1236	A
SCALE		
NONE		

CADD

M-1237



APSI-1A



APSI-1B

NOTE:  
NO CLASS 3 INTEGRALLY WELDED ATTACHMENTS

LOCATION: AUXILIARY BUILDING ELEVATION 586'

REVISION	
0-1	REDRAFTED TO CAD PER ESR 92-177 OWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
A	ESR 92-177 COMP. SEE REV. 0-1 FILMED: WPS 8-17-93

DRAWING APPLICABLE FOR 3RD ISI INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**SAFETY INJECTION PUMP  
HEAT EXCHANGERS (2), LUBE  
OIL COOLER AND STUFF BOX  
JACKET AHSC-1A AND AHSC-1B**

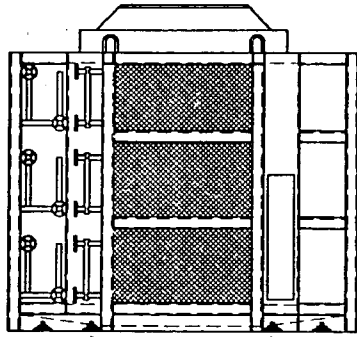
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
	PHILLIP E. BUKES 1/21/93
CHECKED	PROJECT APPROVED
D. M.	1/17/93
DRAWN D.R./L.S. 1/13/93 SCALE NONE	DWG. NO. M-1237
	REV. A

CADD

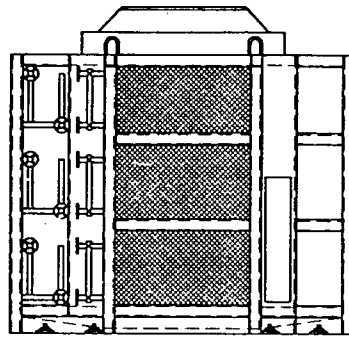


6221-M



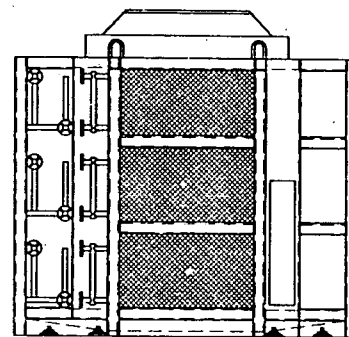
AHCF-1A-S1  
(ANCHOR BOLTING B TOTAL)

AHCF-1A



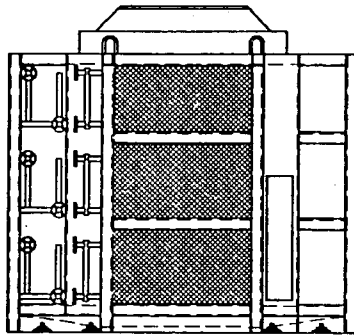
AHCF-1B-S1  
(ANCHOR BOLTING B TOTAL)

AHCF-1B



AHCF-1C-S1  
(ANCHOR BOLTING B TOTAL)

AHCF-1C



AHCF-1D-S1  
(ANCHOR BOLTING B TOTAL)

AHCF-1D

NOTE: NO CLASS 3 INTEGRALLY WELDED ATTACHMENTS

LOCATION: CONTAINMENT BUILDING ELEVATION 606' (AHCF-1C AND AHCF-1D) AND 626' (AHCF-1A AND AHCF-1B)

REVISION

0-1	REDRAFTED TO CAD PER ESR 92-177 OWN: E. SAXTON 4/1/93 CHK'D: B. TROTTER 5/12/93 APP'D: CAT 8-4-93
A	SR 92-177 COMP
	SEE REV. 0-1 FILMED: WPS 8-17-93

DRAWING APPLICABLE FOR 3RD IS1 INTERVAL  
ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI CLASS 3

WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

CONTAINMENT FAN COOLERS  
AHCF-1A, AHCF-1B,  
AHCF-1C AND AHCF-1D

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED
CHECKED	PHILIP E. BUKES
D. M.	1/17/93
PROJECT APPROVED	1/21/93
DRAWN	DWG. NO.
O. R. / D. S. 1/13/93	M-1239
SCALE	REV.
NONE	A

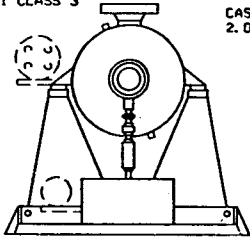
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L021-W

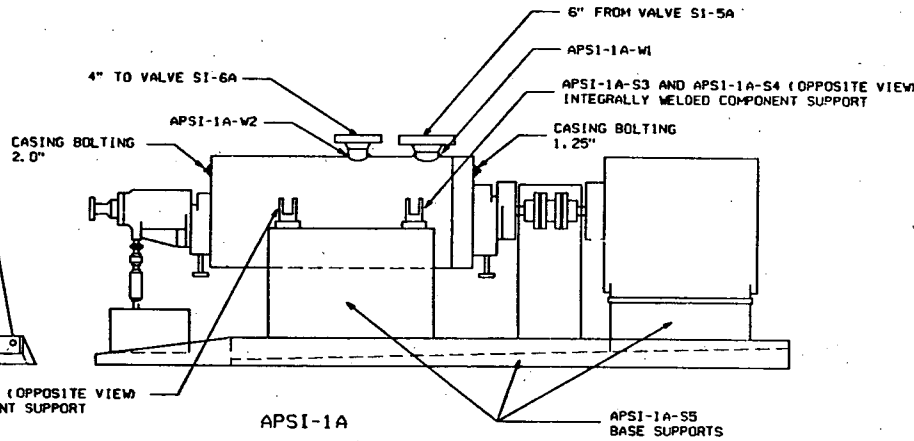
REVISION

FILMED FIRST ISSUE  
 BY WPS  
 PER ESR 92-177  
 APP'G: CAT 8-4-93  
 FILMED: (WPS) 8-17-93

ASME BOILER AND PRESSURE VESSEL  
 CODE CLASS XI CLASS 3



APSI-1A-S1 AND APSI-1A-S2 (OPPOSITE VIEW)  
 INTEGRALLY WELDED COMPONENT SUPPORT

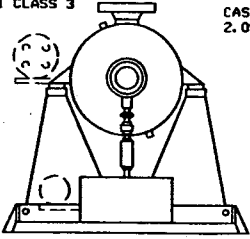


CASING BOLTING DATA EACH PUMP		
SIZE	DIA.	LEAD INCHS
1/2"	2.0"	8.0"
1/2"	1.25"	8.0"

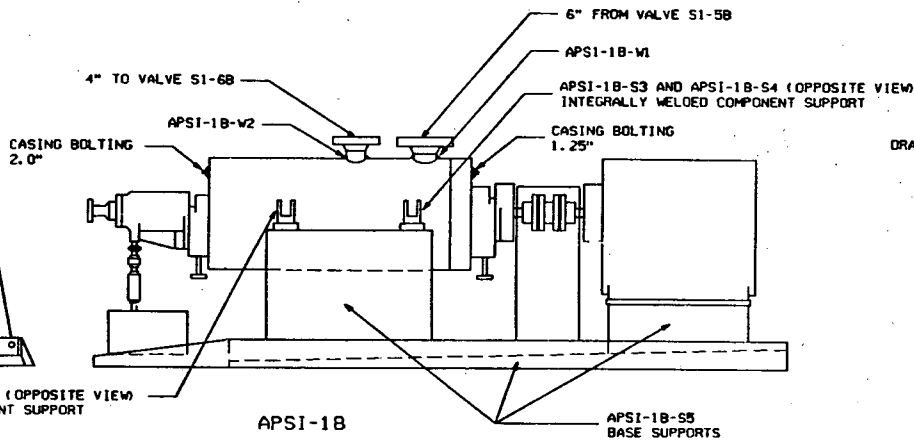
COMPONENT NOZZLE CASING WELD DATA		
I.D.	THICKNESS	MATERIAL
APSI-1A-W1	NOZZLE TO CASING	ASTM A266 (CL1)
APSI-1A-W2	NOZZLE TO CASING	ASTM A266 (CL1)
APSI-1B-W1	NOZZLE TO CASING	ASTM A266 (CL1)
APSI-1B-W2	NOZZLE TO CASING	ASTM A266 (CL1)

INTEGRALLY WELDED ATTACHMENT DATA		
I.D.	THICKNESS	MATERIAL
APSI-1A-S1	0.75"	A216 WC A
APSI-1A-S2	0.75"	A216 WC A
APSI-1A-S3	0.75"	A216 WC A
APSI-1A-S4	0.75"	A216 WC A
APSI-1B-S1	0.75"	A216 WC A
APSI-1B-S2	0.75"	A216 WC A
APSI-1B-S3	0.75"	A216 WC A
APSI-1B-S4	0.75"	A216 WC A

ASME BOILER AND PRESSURE VESSEL  
 CODE CLASS XI CLASS 3



APSI-1B-S1 AND APSI-1B-S2 (OPPOSITE VIEW)  
 INTEGRALLY WELDED COMPONENT SUPPORT



DRAWING APPLICABLE FOR 3RD ISI INTERVAL

ASME BOILER AND PRESSURE VESSEL CODE  
 SECTION XI CLASS 2

WISCONSIN PUBLIC SERVICE CORPORATION  
 KEWAUNEE NUCLEAR POWER PLANT  
 CARLTON, KEWAUNEE COUNTY, WISCONSIN

**SAFETY INJECTION PUMPS  
 APSI-1A AND APSI-1B**

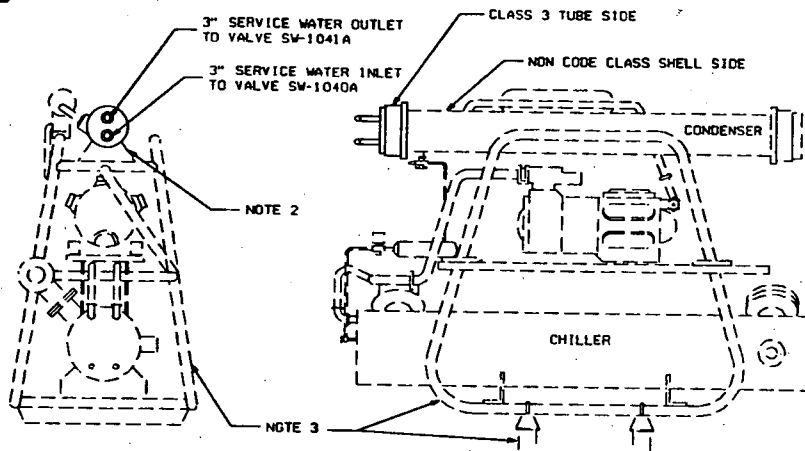
DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
	PHILLIP E. BUKES	7/21/93
CHECKED	PROJECT APPROVED	
B. TROTTER		
DRAWN	DWG. NO.	REV.
ESS	M-1707	(-)
SCALE		
NONE		

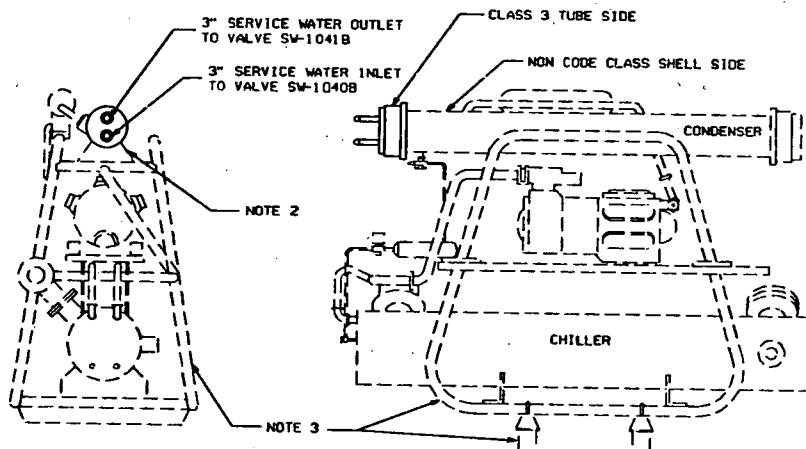
CADD

LOCATION: AUXILIARY BUILDING ELEVATION 586'

60/1-W



CONTROL ROOM AIR CONDITIONING CHILLER UNIT 1A



CONTROL ROOM AIR CONDITIONING CHILLER UNIT 1B

LOCATION: AUXILIARY BUILDING ELEVATION 642' ABOVE CONTROL ROOM 000R 141

- NOTE 1:  
CLASS 3 SECTION IS THE SERVICE WATER SUPPLIED PORTION OF THE CONTROL ROOM AIR CONDITIONING CHILLER UNIT I. E. CONDENSER TUBE SIDE. NO CLASS 3 INTEGRALLY WELDED COMPONENT SUPPORTS OR CLASS 3 COMPONENT SUPPORTS.
- NOTE 2:  
NON CODE CLASS SHELL SIDE INTEGRALLY WELDED COMPONENT SUPPORTS (2 EACH CONDENSER)
- NOTE 3:  
NON CODE CLASS SHELL SIDE COMPONENT SUPPORTS

DRAWING APPLICABLE FOR 3RD ISI INTERVAL

ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CLASS 3

REVISION
FILMED FIRST ISSUE BY WPS PER ESR 92-177 APP'D: CAT 8-4-93 FILMED: WPS 8-17-93

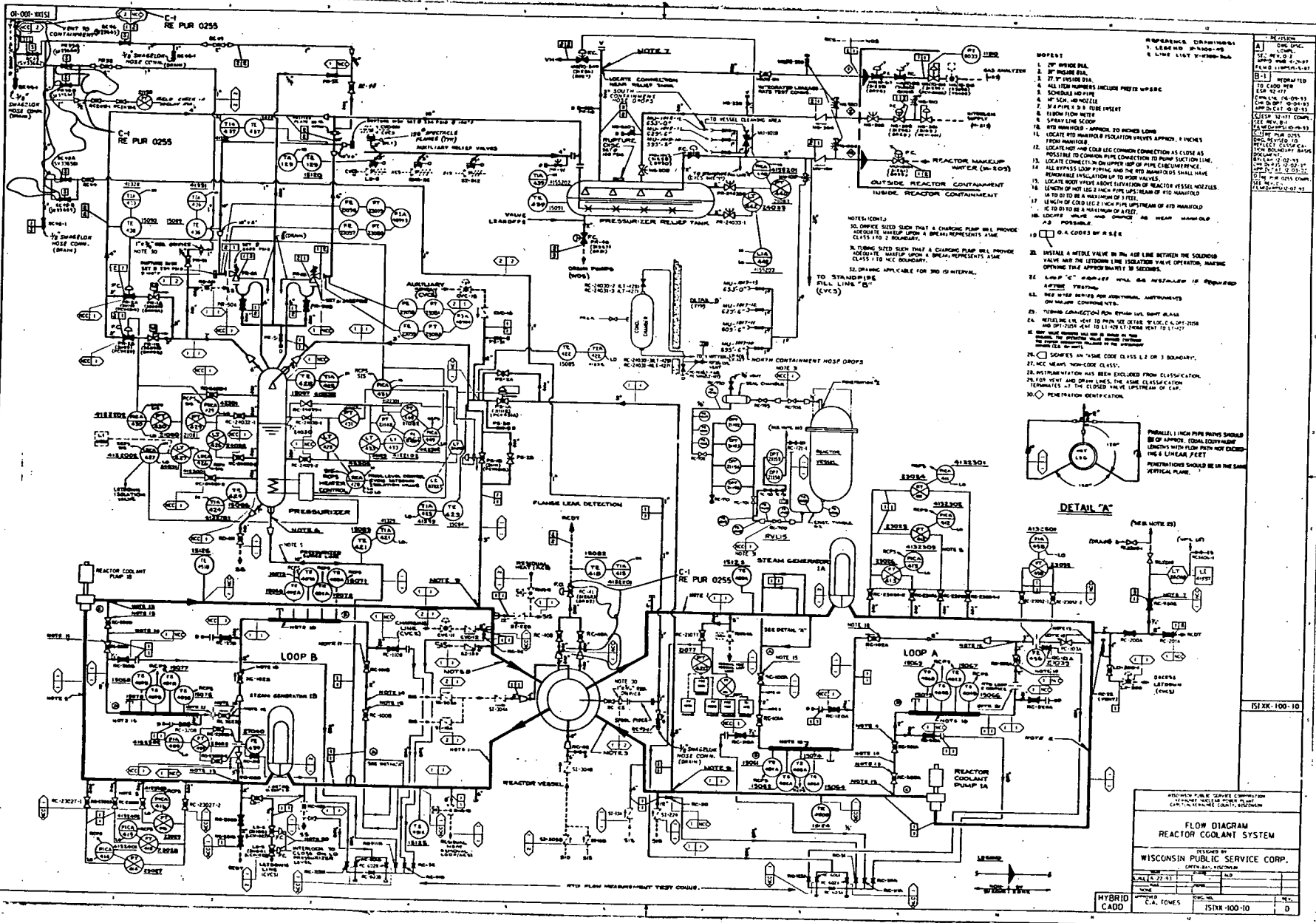
WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
CARLTON, KEWAUNEE COUNTY, WISCONSIN

**CONTROL ROOM AIR CONDITIONING CHILLER UNITS 1A AND 1B**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
GREEN BAY, WISCONSIN

DESIGNED	APPROVED	
CHECKED	PHILLIP E. BUKES	7/21/93
B. TRUTTER	PROJECT APPROVED	
DATE	DATE	DATE
5/12/93	6/1/93	
ESS	OWG. NO.	REV.
NONE	M-1709	(-)

CADD



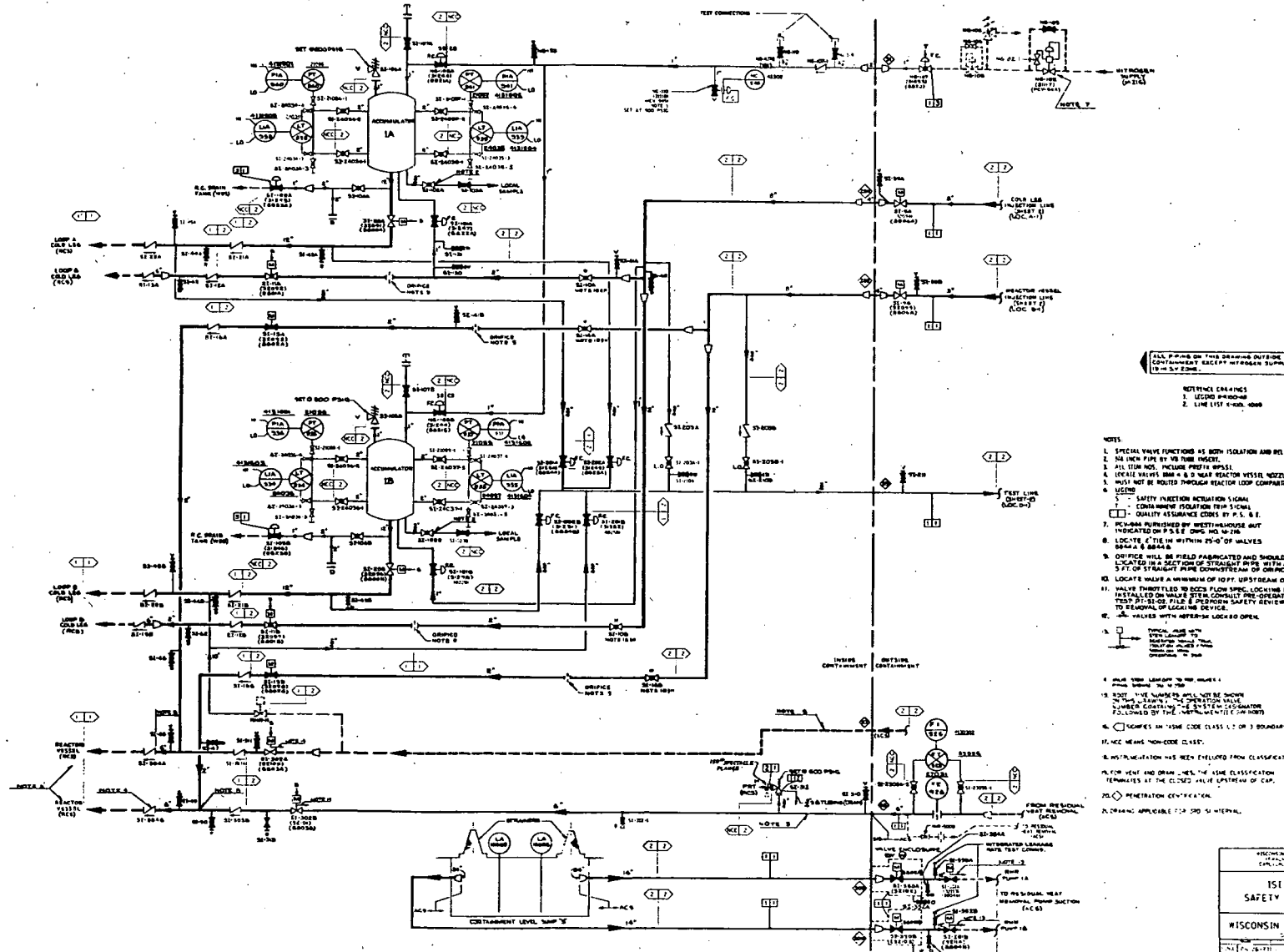
- NOTES:**
1. 2" WRENCH DIA.
  2. 2" WRENCH DIA.
  3. 2" WRENCH DIA.
  4. ALL ITEM NUMBERS INCLUDE PREFIX WHERE SCHEDULED PIPE
  5. 1/2" SCH. 40 PIPE
  6. 3/4" SCH. 40 PIPE
  7. 1" SCH. 40 PIPE
  8. 1 1/2" SCH. 40 PIPE
  9. 2" SCH. 40 PIPE
  10. 3" SCH. 40 PIPE
  11. 4" SCH. 40 PIPE
  12. 6" SCH. 40 PIPE
  13. 8" SCH. 40 PIPE
  14. 10" SCH. 40 PIPE
  15. 12" SCH. 40 PIPE
  16. 14" SCH. 40 PIPE
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  19. 20" SCH. 40 PIPE
  20. 24" SCH. 40 PIPE
  21. 30" SCH. 40 PIPE
  22. 36" SCH. 40 PIPE
  23. 42" SCH. 40 PIPE
  24. 48" SCH. 40 PIPE
  25. 54" SCH. 40 PIPE
  26. 60" SCH. 40 PIPE
  27. 66" SCH. 40 PIPE
  28. 72" SCH. 40 PIPE
  29. 78" SCH. 40 PIPE
  30. 84" SCH. 40 PIPE
  31. 90" SCH. 40 PIPE
  32. 96" SCH. 40 PIPE
  33. 102" SCH. 40 PIPE
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  35. 114" SCH. 40 PIPE
  36. 120" SCH. 40 PIPE
  37. 126" SCH. 40 PIPE
  38. 132" SCH. 40 PIPE
  39. 138" SCH. 40 PIPE
  40. 144" SCH. 40 PIPE
  41. 150" SCH. 40 PIPE
  42. 156" SCH. 40 PIPE
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  45. 174" SCH. 40 PIPE
  46. 180" SCH. 40 PIPE
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  85. 414" SCH. 40 PIPE
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  422. 2436" SCH. 40 PIPE
  423. 2442" SCH. 40 PIPE
  424. 2448" SCH. 40 PIPE
  425. 2454" SCH. 40 PIPE
  426. 2460" SCH. 40 PIPE
  427. 2466" SCH. 40 PIPE
  428. 2472" SCH. 40 PIPE
  429. 2478" SCH. 40 PIPE
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  431. 2490" SCH. 40 PIPE
  432. 2496" SCH. 40 PIPE
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  442. 2556" SCH. 40 PIPE
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  457. 2646" SCH. 40 PIPE
  458. 2652" SCH. 40 PIPE
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  515. 2994" SCH. 40 PIPE
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  519. 3018" SCH. 40 PIPE
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  521. 3030" SCH. 40 PIPE
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  540. 3144" SCH. 40 PIPE
  541. 3150" SCH. 40 PIPE
  542. 3156" SCH. 40 PIPE
  543. 3162" SCH. 40 PIPE
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  546. 3180" SCH. 40 PIPE
  547. 3186" SCH. 40 PIPE
  548. 3192" SCH. 40 PIPE
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  552. 3216" SCH. 40 PIPE
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  560. 3264" SCH. 40 PIPE
  561. 3270" SCH. 40 PIPE
  562. 3276" SCH. 40 PIPE
  563. 3282" SCH. 40 PIPE
  564. 3288" SCH. 40 PIPE
  565. 3294" SCH. 40 PIPE
  566. 3300" SCH. 40 PIPE
  567. 3306" SCH.







82-001-9151E



1. PUMP 2000 COMP. (LOC 10-1)  
 2. PUMP 2000 (LOC 10-1)  
 3. PUMP 2000 (LOC 10-1)  
 4. PUMP 2000 (LOC 10-1)  
 5. PUMP 2000 (LOC 10-1)  
 6. PUMP 2000 (LOC 10-1)  
 7. PUMP 2000 (LOC 10-1)  
 8. PUMP 2000 (LOC 10-1)  
 9. PUMP 2000 (LOC 10-1)  
 10. PUMP 2000 (LOC 10-1)

ALL PIPING ON THIS DRAWING OUTSIDE CONTAINMENT RECEIVES HYDROGEN SUPPLY FROM 20-000.

NOTIFY CR-4145  
 1. LEAKS 4-000-0000  
 2. LINE LIST 4-000-0000

- NOTES
- SPECIAL VALVE FUNCTIONS AS BOTH ISOLATION AND RELIEF VALVE.
  - SEE LINE PIPE BY THE TUBE INSERT.
  - ALL ITEM NOS. INCLUDE PREFIX (PPS).
  - LOCATE VALVES DOWN R.O.D. NEAR REACTOR VESSEL NOZZLES.
  - MUST NOT BE ROUTED THROUGH REACTOR LOOP COMPARTMENT.
  - USING
  - SAFETY FUNCTION ACTIVATION SIGNAL (CONFORMANCE ISOLATION TRIP SIGNAL)
  - QUALITY ASSURANCE CODES BY P.A. & E.
  - PCW-800 PURCHASED BY WESTINGHOUSE BUT INDICATED ON P.51 E. ONLY. NO 4-000.
  - LOCATE AT THE IN WITHIN 2' OF VALVES 8000A & 8000B.
  - DEVICE WILL BE FIELD FABRICATED AND SHOULD BE LOCATED IN A SECTION OF STRAIGHT PIPE WITH APPROX. 3 FT. OF STRAIGHT PIPE DOWNSTREAM OF ORIFICE.
  - LOCATE VALVE A MINIMUM OF 10 FT. UPSTREAM OF ORIFICE.
  - VALVE THROTTLED TO 2000 FLOW SPEC. LOCKING DEVICE INSTALLED ON VALVE STEER. CONSULT P&ID OPERATIONAL TEST PIPING FILE & PERFORM SAFETY REVIEW PRIOR TO REMOVAL OF LOCKING DEVICE.
  - VALVES WITH AFTER-SERV. LOCKED OPEN.
  1. TYPICAL VALVE WITH STEER LOCKING DEVICE  
 2. TYPICAL VALVE WITH AFTER-SERV. LOCKING DEVICE  
 3. TYPICAL VALVE WITH AFTER-SERV. LOCKING DEVICE
  - PIPE LINE LENGTH TO THE VALVE 1 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 2 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 3 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 4 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 5 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 6 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 7 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 8 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 9 FROM REACTOR TO THE VALVE.
  - PIPE LINE LENGTH TO THE VALVE 10 FROM REACTOR TO THE VALVE.

ISIX-100-28

PROVIDED BY SERVICE COMMITTEE  
 ENGINEERING DEPARTMENT

**ISI FLOW DIAGRAM  
 SAFETY INJECTION SYSTEM**

PREPARED BY  
**WISCONSIN PUBLIC SERVICE CORP.**

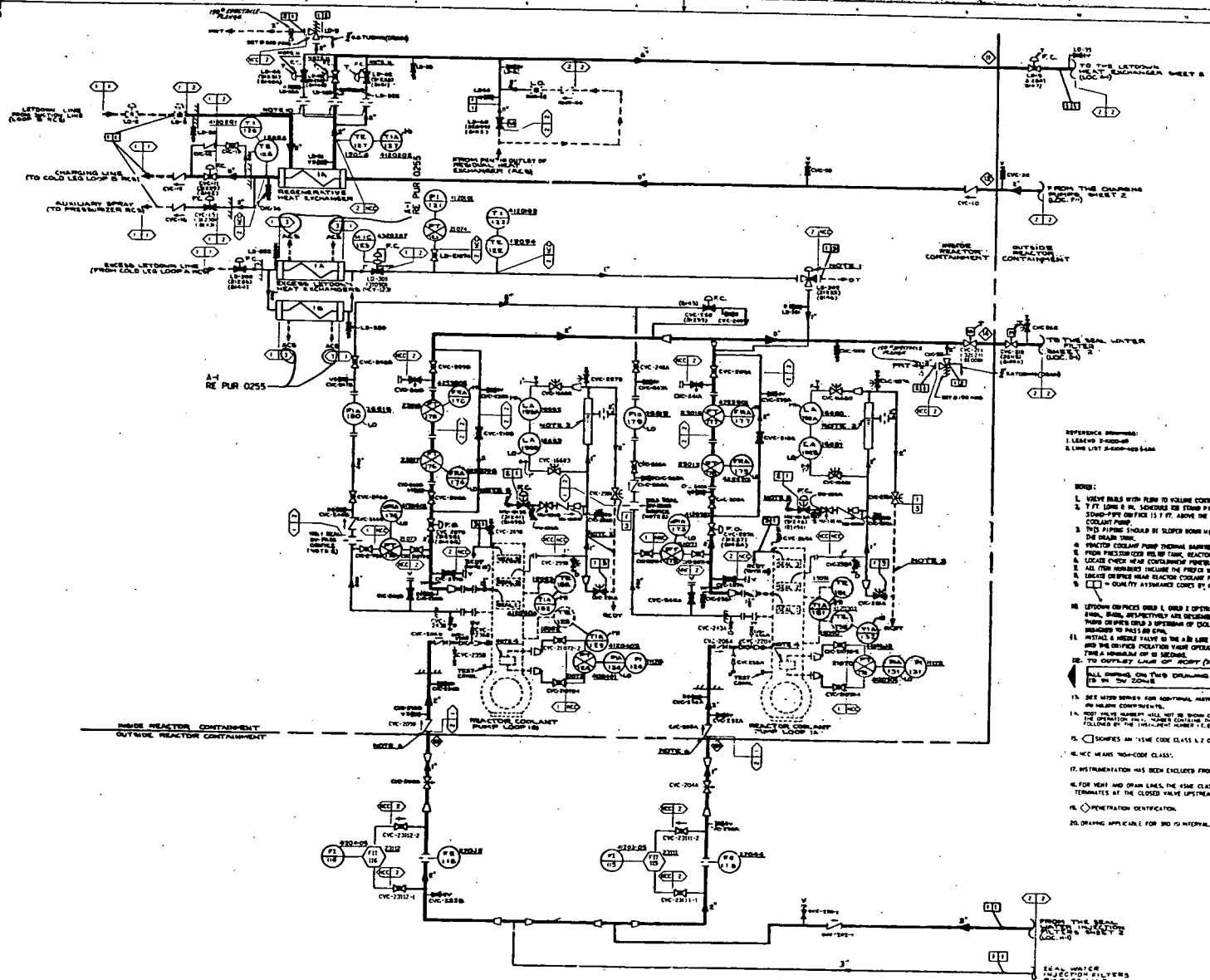
DATE: 12/15/78  
 DRAWN BY: J. J. JONES  
 CHECKED BY: J. J. JONES  
 APPROVED BY: J. J. JONES

HYBRID CADD  
 12/15/78 12/15/78 12/15/78 12/15/78





SI-001-X151



- REFERENCE DRAWINGS:  
 1. LEAKAGE PUMP-ASB  
 2. LINE LIST 2-4000-400-544
- NOTES:
1. VALVE MARK WITH 'R' FOR TO VALVE CONTROL TANK.
  2. 7 FT LONG 4 IN. SCHEDULE 80 STAINLESS STEEL PIPE BOTH ENDS CAPPED. THE STAINLESS PIPE OFFICE IS 7 FT ABOVE THE CONNECTION TO THE REACTOR COOLANT PUMP.
  3. THIS PIPE SHOULD BE SLOPED DOWN UPSTREAM OF THE BURN TO THE DRAIN TANK.
  4. REACTOR COOLANT PUMP NORMAL BURNER.
  5. FROM PRESSUREIZER HELIUM TANK, REACTOR HELIUM VALVE LINE.
  6. LOCATE OVER HEAT CONTAINMENT IDENTIFICATION.
  7. ALL ITEM NUMBERS INCLUDE THE PRESSURE.
  8. LOCATE OVER HEAT REACTOR COOLANT PUMP.
  9. [ ] = QUALITY ASSURANCE CODES BY P. S. & E.
10. LETDOWN OR PIPES OVER 1.0 IN. UPSTREAM OF ISOLATION VALVES TANK, BURN, RESPECTIVELY ARE DESIGNED TO PASS AN SPN AND THE TANK OR PIPES OVER 2.0 IN. UPSTREAM OF ISOLATION VALVE ARE DESIGNED TO PASS 1.0 SPN.

11. INITIAL & HOLD VALVE IN THE 4 IN. LINE BETWEEN THE STEADY STATE AND THE OFFICE ISOLATION VALVE OFFICE, MAKE THE OFFICE THIS ISOLATION OF IS ISOLATION.

12. TO COMPLETE LINE OF PIPING (2-4000-400)

13. ALL PIPING ON THIS DRAWING OUTSIDE CONTAINMENT IS IN 20# ZONE.

14. SET INSTRUMENTS FOR ADDITIONAL INSTRUMENTS AND RECORD COMPONENTS.

15. PIPING VALVE NUMBER WILL NOT BE SHOWN ON THIS DRAWING. THE OPERATOR MUST NUMBER THE SYSTEM IDENTIFICATION FOLLOWED BY THE INSTRUMENT NUMBER (E.G. 15-1101).

16. [ ] SCOPES ARE '15' CODE CLASS 1.2 OR 1.0 BOUNDARY.

17. MCC MEANS '15' CODE CLASS.

18. INSTRUMENTATION HAS BEEN EXCLUDED FROM CLASSIFICATION.

19. FOR VENT AND DRAIN LINES, THE CLASSIFICATION TERMINATES AT THE CLOSED VALVE UPSTREAM OF CAP.

20. [ ] PENETRATION IDENTIFICATION.

21. DRAWING APPLICABLE FOR 300 IS INTERNAL.

REVISION

0-1	REVISED TO CASE NO. 151 FOR 12/17/57
0-2	ADD LINE 16-08-13 FOR 12/17/57
0-3	ADD LINE 16-08-13 FOR 12/17/57
0-4	ADD LINE 16-08-13 FOR 12/17/57
0-5	ADD LINE 16-08-13 FOR 12/17/57
0-6	ADD LINE 16-08-13 FOR 12/17/57
0-7	ADD LINE 16-08-13 FOR 12/17/57
0-8	ADD LINE 16-08-13 FOR 12/17/57
0-9	ADD LINE 16-08-13 FOR 12/17/57
0-10	ADD LINE 16-08-13 FOR 12/17/57
0-11	ADD LINE 16-08-13 FOR 12/17/57
0-12	ADD LINE 16-08-13 FOR 12/17/57
0-13	ADD LINE 16-08-13 FOR 12/17/57
0-14	ADD LINE 16-08-13 FOR 12/17/57
0-15	ADD LINE 16-08-13 FOR 12/17/57
0-16	ADD LINE 16-08-13 FOR 12/17/57
0-17	ADD LINE 16-08-13 FOR 12/17/57
0-18	ADD LINE 16-08-13 FOR 12/17/57
0-19	ADD LINE 16-08-13 FOR 12/17/57
0-20	ADD LINE 16-08-13 FOR 12/17/57

151XK-100-38

WISCONSIN PUBLIC SERVICE COMMISSION  
 CAPITAL PROJECTS DIVISION

**ISI FLOW DIAGRAM  
 AUXILIARY COOLANT SYSTEM**

DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 GREEN BAY, WISCONSIN

DATE: 12/17/57	BY: [Signature]
SCALE: AS SHOWN	APP. NO. [Number]
PROJECT: [Project Name]	REV. NO. [Number]
DESIGNED BY: C.A. TOWES	DATE: 12/17/57
CHECKED BY: [Name]	DATE: [Date]
APPROVED BY: [Name]	DATE: [Date]

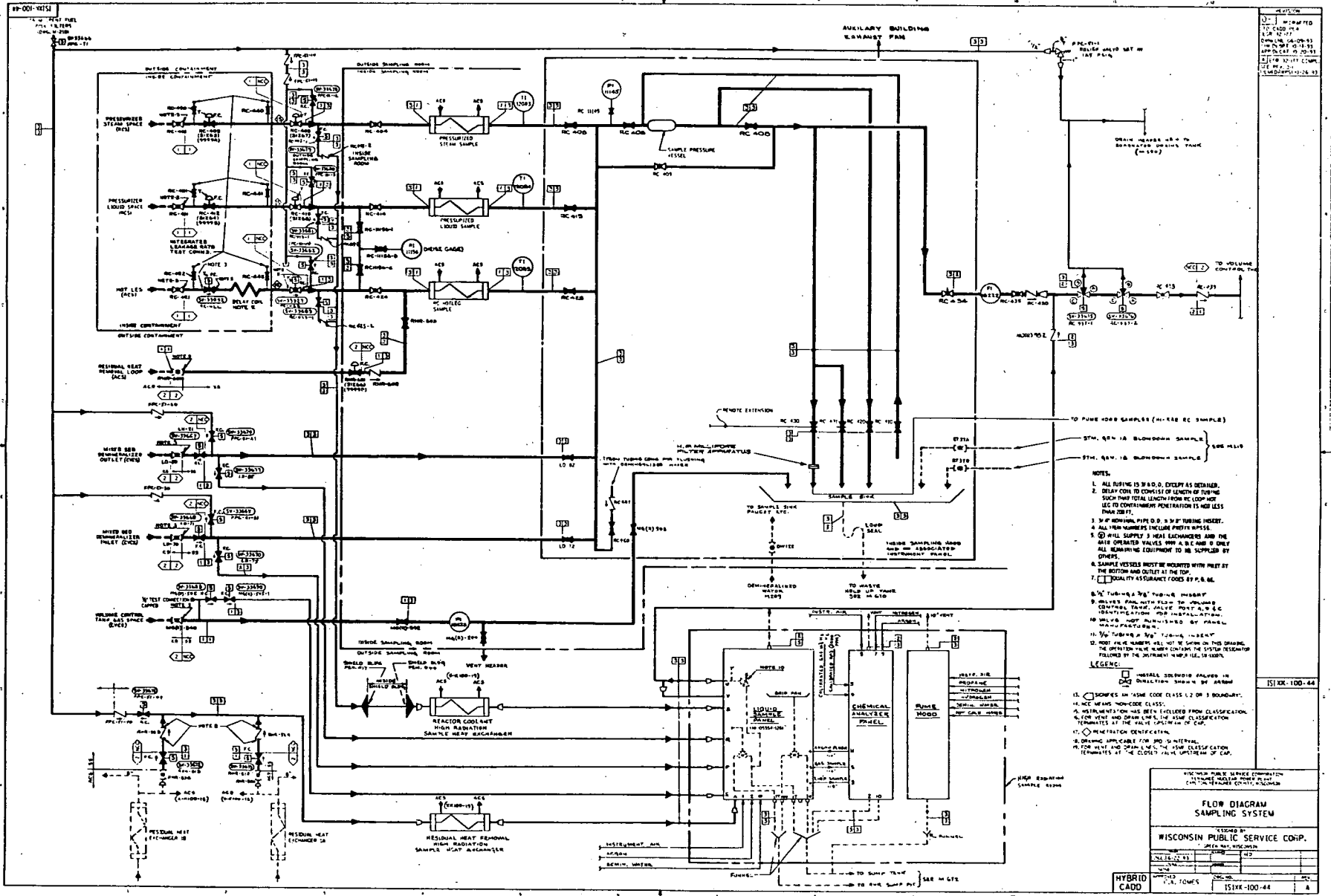
HYBRID CADD

151XK-100-35

B







- NOTES:
1. ALL PIPING IS 3" O.D. EXCEPT AS DETAIL.
  2. DELAY COOL TO CONSIST OF LENGTH OF TUBING SUCH THAT TOTAL LENGTH FROM REACTOR CORE TO CONTAINMENT PENETRATION IS NOT LESS THAN 20 FT.
  3. 3/4" NOMINAL PIPE O.D. 3" TUBING INSET.
  4. ALL PIPING NUMBERS INCLUDE PREFIX NP/SS.
  5. 2" O.D. SILENCE SUPPLY 3" HEAT EXCHANGERS AND THE AIR OPERATED VALVES W/VA A, B, C AND D ONLY ALL REMAINING EQUIPMENT TO BE SUPPLIED BY OTHERS.
  6. SAMPLE VESSELS MUST BE INSTALLED WITH INLET AT THE BOTTOM AND OUTLET AT THE TOP.
  7. QUALITY ASSURANCE CODES BY P. & M.
  8. 1/2" TUBING 3" TUBING INSET.
  9. VALVES P&M WITH P&M TO INCLUDE CONTROL PANEL, VALVE PORT A, B, C IDENTIFICATION FOR INSTALLATION.
  10. DRIVES MUST BE PROVIDED BY PANEL MANUFACTURER.
  11. 3/4" TUBING 3" TUBING INSET.
  12. HOT LINE NUMBER WILL NOT BE SHOWN ON THIS DRAWING. THE OPERATOR VALUE NUMBER CONTAIN THE SYSTEM RESISTOR FOLLOWED BY THE INSTRUMENT NUMBER TO BE USED.
- LEGEND:
- INSTALL SILENCE VALVES IN DIRECTION SHOWN BY ARROW
  - SHOWS AN ASME CODE CLASS 2 OR 3 BOUNDARY.
  - ASME CLASS 2 OR 3 BOUNDARY.
  - IDENTIFICATION HAS BEEN CARRIED FROM CLASSIFICATION FOR VENT AND DRAIN LINE. THE ASME CLASSIFICATION TERMINATES AT THE VALVE UPSTREAM OF THE CAP.
  - IDENTIFICATION.
  - DRAWING APPLICABLE FOR 300 S. INTERVAL.
  - FOR VENT AND DRAIN LINE. THE ASME CLASSIFICATION TERMINATES AT THE CLOSURE VALVE UPSTREAM OF CAP.

151XX-100-44

151XX-100-44

DESIGNED BY: WISCONSIN PUBLIC SERVICE CORP.

DATE: 12/15/55

SCALE: AS SHOWN

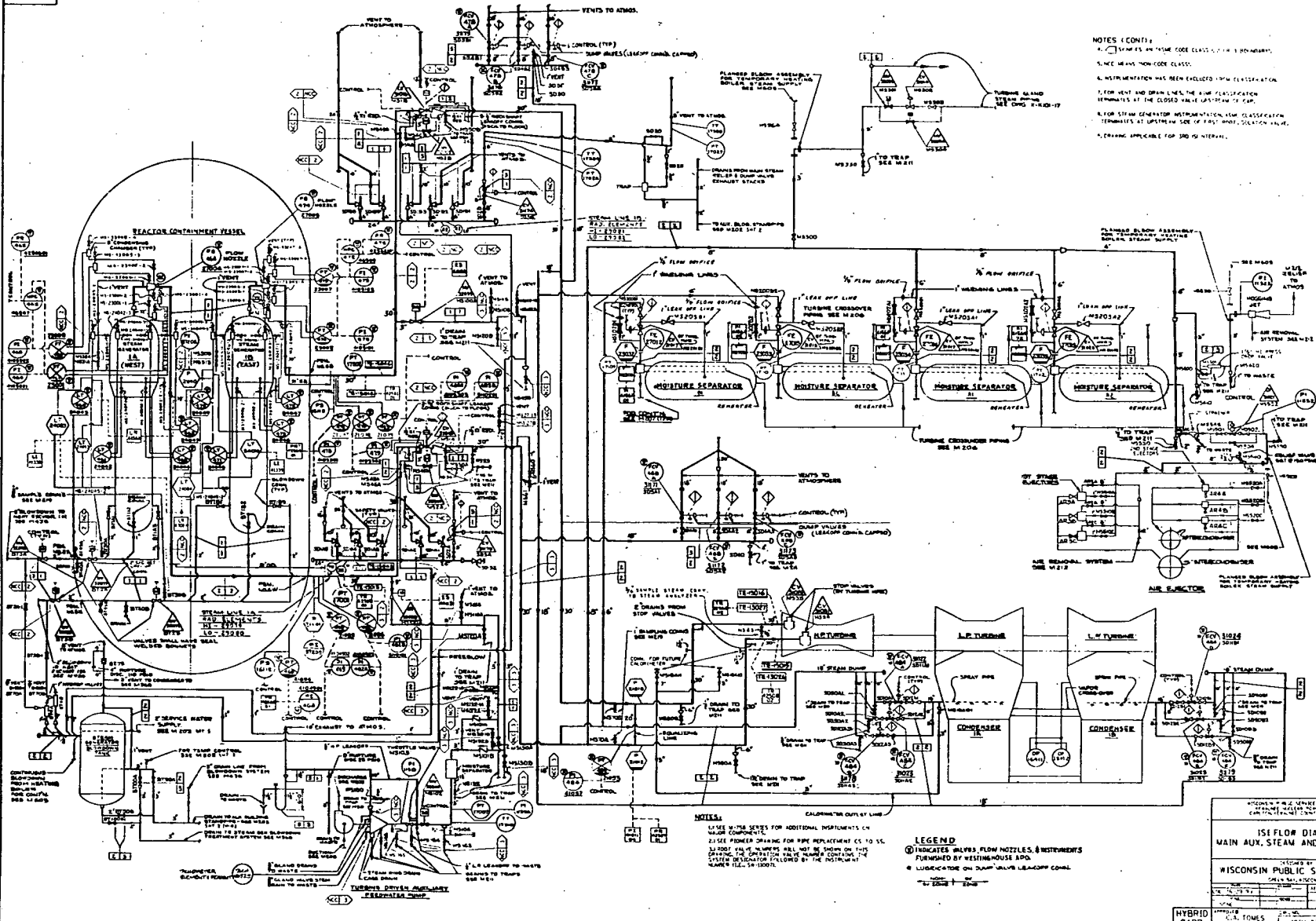
HYBRID CADD

151XX-100-44





EOG-1051



**NOTES (CONT.):**

1. VALVES AND INSTRUMENTS CLASSIFIED BY INSTRUMENTATION.
2. INSTRUMENTATION HAS BEEN EXCLUDED FROM CLASSIFICATION.
3. FOR UNIT AND OPERATOR, THE CLASSIFICATION TERMINATES AT THE CLOSED VALVE/INSTRUMENT SYMBOL.
4. FOR STEAM GENERATOR INSTRUMENTATION, THE CLASSIFICATION TERMINATES AT UPSTREAM SIDE OF FIRST INSTRUMENT SYMBOL.
5. CRITICAL APPLICABLE FOR 300 TO 1000.

1	NA 2004 EQP
2	NA 2004 EQP
3	NA 2004 EQP
4	NA 2004 EQP
5	NA 2004 EQP
6	NA 2004 EQP
7	NA 2004 EQP
8	NA 2004 EQP
9	NA 2004 EQP
10	NA 2004 EQP
11	NA 2004 EQP
12	NA 2004 EQP
13	NA 2004 EQP
14	NA 2004 EQP
15	NA 2004 EQP
16	NA 2004 EQP
17	NA 2004 EQP
18	NA 2004 EQP
19	NA 2004 EQP
20	NA 2004 EQP

**NOTES:**

1. LINES WITH SERIES FOR ADDITIONAL INSTRUMENTS ON VALVE COMPONENTS.
2. VALVE NUMBER OPENING FOR PIPE REPLACEMENT CS TO 55.
3. 10 FOOT VALVE INSTRUMENTS WILL NOT BE SHOWN ON THIS DRAWING. THE OPERATOR SHALL VERIFY CONTAINMENT SYSTEM DETECTION FOLLOWED BY THE INSTRUMENT NUMBER (E.G. 10-1000).

**LEGEND**

- ⊙ INDICATES VALVES, FLOW NOZZLES, & INSTRUMENTS FURNISHED BY WESTINGHOUSE APO.
- ⊙ LUBRICATOR ON DUMP VALVE LEAK-OFF CONTROL.

WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 WISCONSIN PUBLIC SERVICE CORPORATION

**ISI FLOW DIAGRAM  
 MAIN AUX. STEAM AND STEAM DUMP**

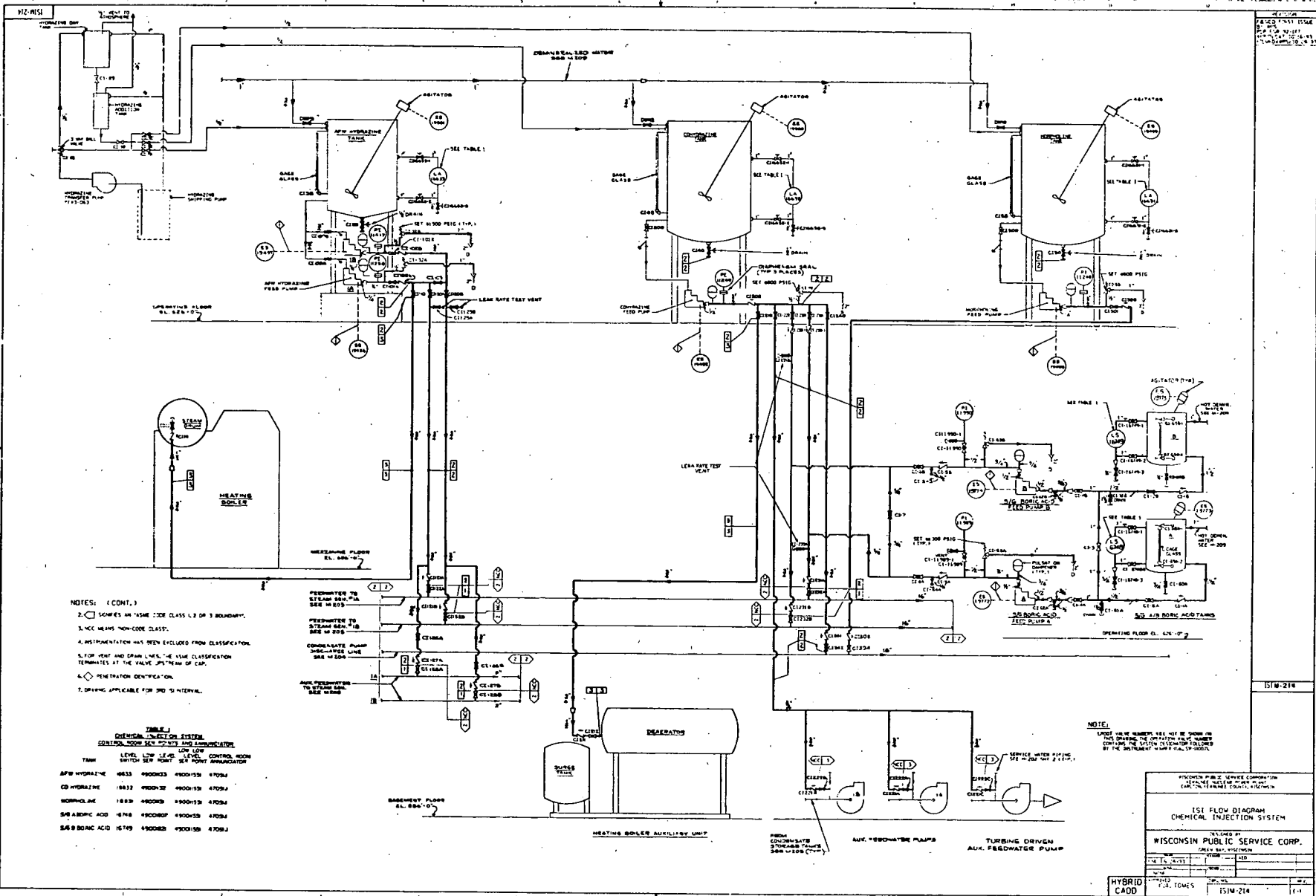
DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.

NO.	100
REV.	1
DATE	10/1/55
BY	J.M.
CHECKED	J.M.
APPROVED	J.M.
DATE	10/1/55

HYBRID  
 CADD  
 C.A. TOMES  
 15M-203  
 C







- NOTES: (CONT.)
- 2.  $\square$  SHOWS AN 'ASME' CODE CLASS (L OR D) BOUNDARY.
  - 3. 'NCC' MEANS 'NON-CODE CLASS'.
  - 4. INSTRUMENTATION HAS BEEN EXCLUDED FROM CLASSIFICATION.
  - 5. FOR HEAT AND DRAIN LINES, 'L' MEANS CLASSIFICATION TERMINATES AT THE VALVE, 'D' MEANS OF CWP.
  - 6.  $\diamond$  PENETRATION IDENTIFICATION.
  - 7. DRIVING APPLICABLE FOR 3RD & 4TH INTERNAL.

TABLE 1  
CHEMICAL INJECTION SYSTEM  
CONTROL ROOM SET POINTS AND INDICATIONS

TANK	LEVEL	LOW LEVEL SWITCH SET POINT	LEVEL	CONTROL ROOM SWITCH SET POINT	INDICATION
AFW HYDRALINE	4633	4900/23	4900/19	4709A	
CONDENSATE	1833	4900/23	4900/19	4709A	
SULFURIC ACID	1833	4900/23	4900/19	4709A	
S&S BORIC ACID	1833	4900/23	4900/19	4709A	
S&S BORIC ACID	1833	4900/23	4900/19	4709A	

NOTE:  
LIMIT VALUE NUMBER WILL NOT BE SHOWN FOR THE DRAWING OF OPERATION AND MAINTENANCE. CONTAINS THE SYSTEM CLASSIFICATION SOLUTIONS OF THE INSTRUMENTATION AND PIPING.

PROPERTY OF PUBLIC SERVICE CORPORATION  
CLASSIFICATION OF SYSTEMS

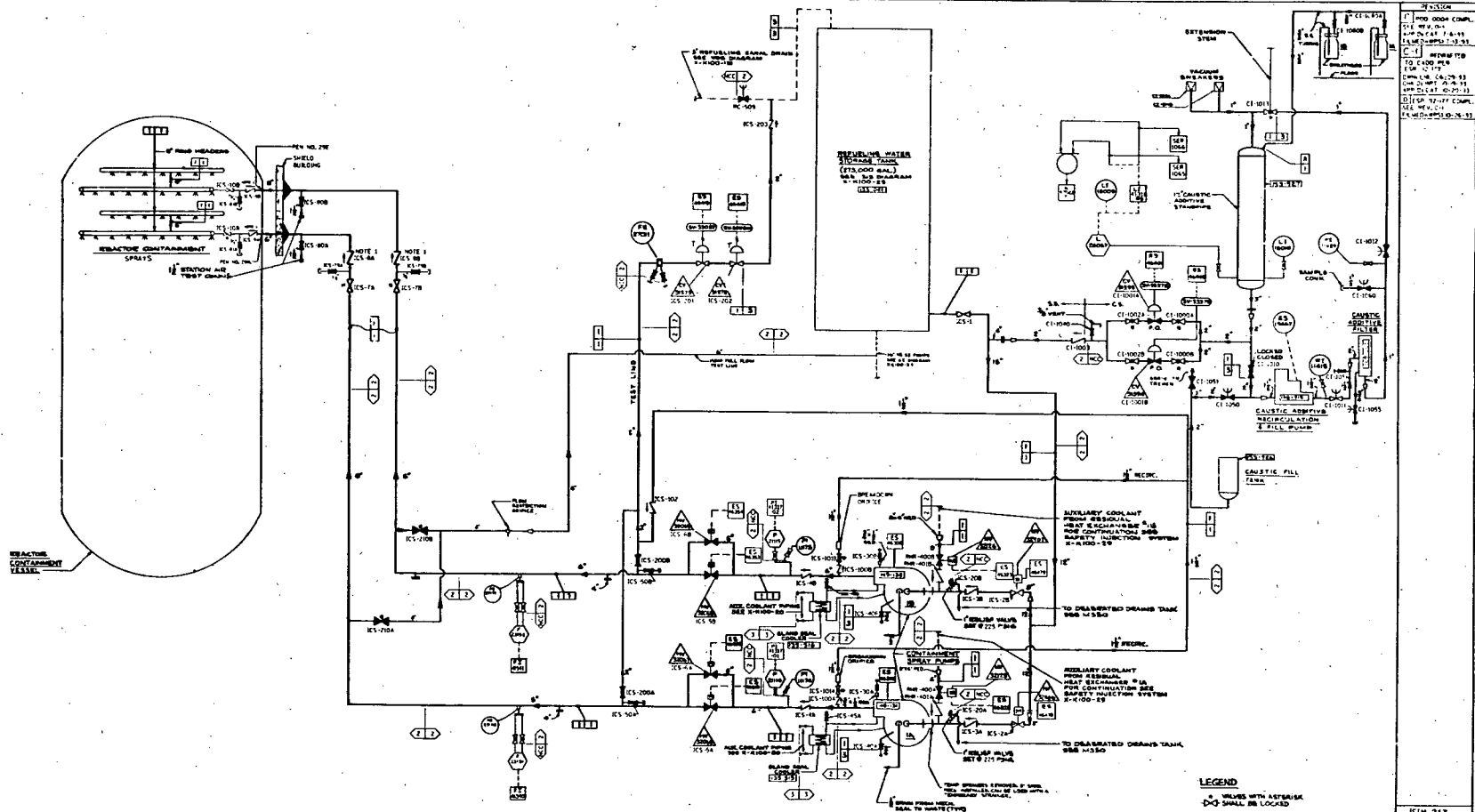
ISF FLOW DIAGRAM  
CHEMICAL INJECTION SYSTEM

DESIGNED BY  
WISCONSIN PUBLIC SERVICE CORP.  
GREEN BAY, WISCONSIN

DATE: 11/15/55  
DRAWN BY: JLD  
CHECKED BY: JLD

HYBRID CADD  
P.A. TOMES  
ISF-214

112-453



1. PIPING 0004 COMP.  
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 100. PIPING 0004 COMP.

**LEGEND**  
 VALVES WITH ASTRISK  
 SMALL, OR LOCKED  
 INDICATES NORMALLY CLOSED  
 FLOW DIRECTION  
 BY ARROW  
 BY LINE TO TANK

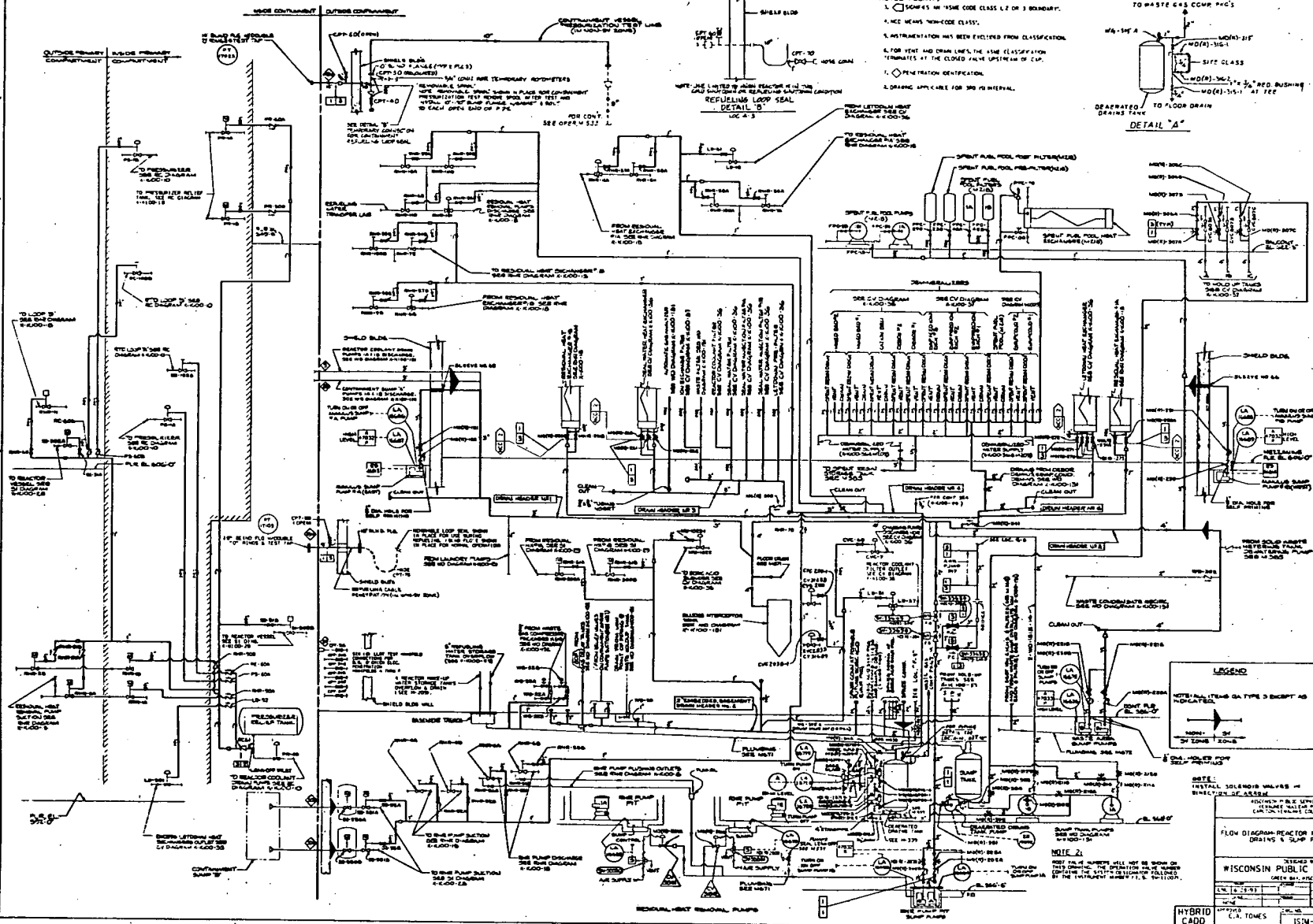
**NOTES**  
 1. LOCK VALVES SUPPLIED WITH MANUAL OPERATOR.  
 2. ROOF VALVE NUMBERS WILL NOT BE SHOWN ON THIS DRAWING. THE POSITION OF THE ROOF VALVE IS 1/4 TURN OPERATOR FOLLOWED BY THE INSTRUMENT NUMBER (E.G. 1/4 TURN ES-100).  
 3. CIRCLES IN SAME CODE CLASS 1, 2 OR 3 BOUNDARY.  
 4. CIRCLES IN SAME CODE CLASS.  
 5. INSTRUMENTATION HAS BEEN EXCLUDED FROM CLASSIFICATION FOR WET AND DRY LINE. THE SAME CLASSIFICATION TERMINATES AT THE CLOSED VALVE UPSTREAM OF CIP.  
 6. PENETRATOR DETECTION.  
 7. DRAWING APPLICABLE FOR 3RD AND 4TH INTERNAL.

APPROVED FOR SERVICE CONNECTION  
 (PLEASE INCLUDE PUMP PLAN, CONTROL, TRANSFER, CONTROLLER)  
**FLOW DIAGRAM  
 INTERNAL CONTAINMENT  
 SPRAY SYSTEM**  
 DESIGNED BY  
**WISCONSIN PUBLIC SERVICE CORP.**  
 DRAWN BY: P. J. JOHNSON  
 DATE: 11-15-53  
 SHEET NO. 112-453  
 TOTAL SHEETS: 112-453-1  
 C.A. TOMES  
 P. J. JOHNSON  
 112-453-1  
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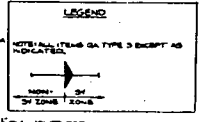
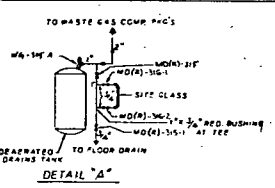


02E-1151



NOTES (CONT):

1. SHOWS AN "ISME CODE CLASS L2 OR 3" BOUNDARY.
2. "ISME MEANS "ISME CODE CLASS."
3. INSTRUMENTATION HAS BEEN EXCLUDED FROM CLASSIFICATION.
4. FOR VENT AND DRAIN LINES, THE ISME CLASSIFICATION TERMINATES AT THE CLOSED VALVE UPSTREAM OF C.V.P.
5. PENETRATION IDENTIFICATION.
6. DRAWING APPLICABLE FOR 300 IN INTERVAL.



NOTE: INSTALL SOLENOID VALVES IN INSTALLED PIPE ASSEMBLY.

FLOW DIAGRAM REACTOR PLANT WISC. VENTS, DRAINS & PUMP PIPING.

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.  
 GREEN BAY, WISCONSIN

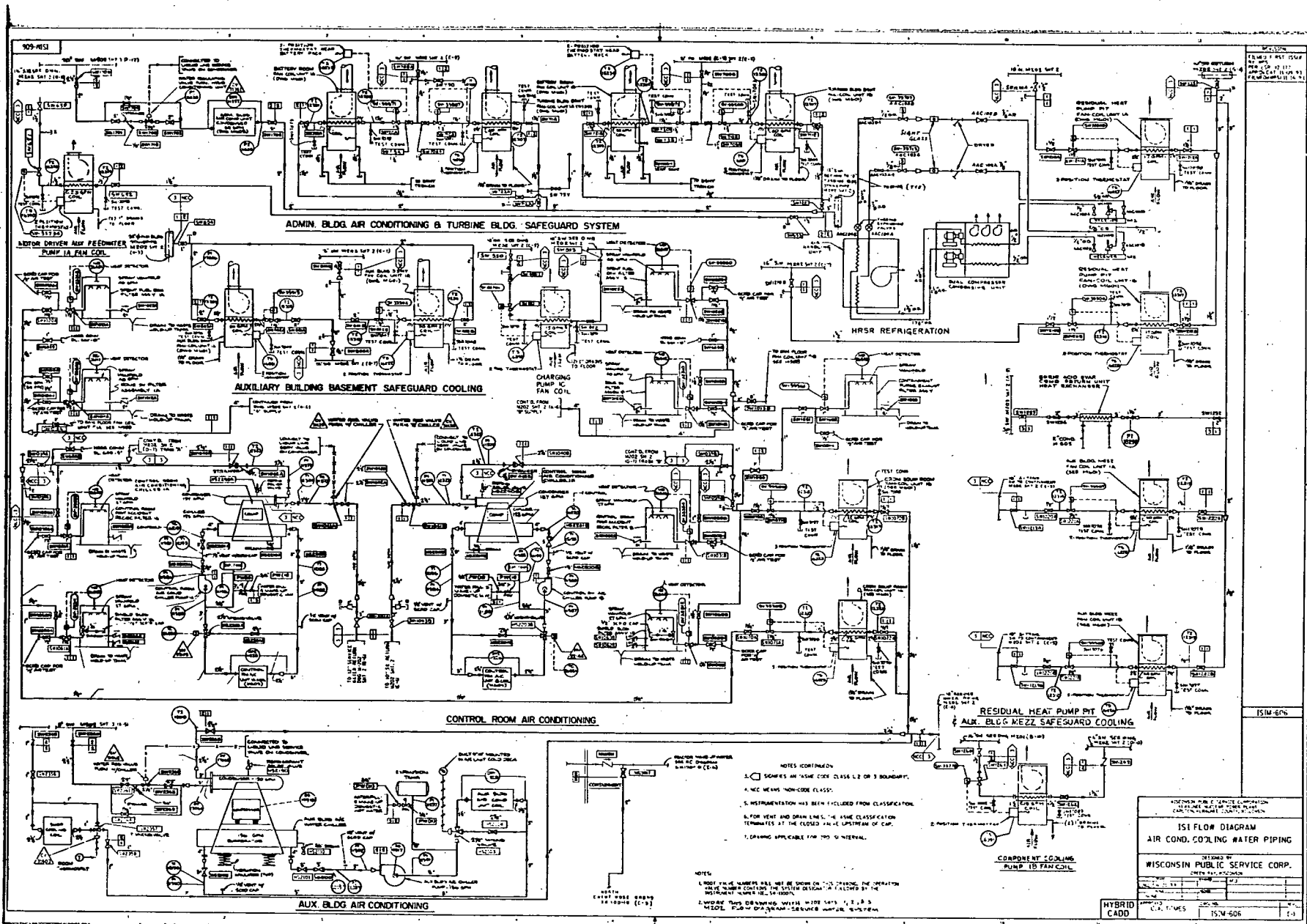
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ADMIN. BLDG. AIR CONDITIONING & TURBINE BLDG. SAFEGUARD SYSTEM

AUXILIARY BUILDING BASEMENT SAFEGUARD COOLING

CONTROL ROOM AIR CONDITIONING

AUX. BLDG. AIR CONDITIONING

HRSR REFRIGERATION

RESIDUAL HEAT PUMP PIT & AUX. BLDG. MEZZ SAFEGUARD COOLING

COMPONENT COOLING PUMP 1B FAN COIL

- NOTES CONTINUED
- 1. SQUARE AN ASME CODE CLASS 2E OR 3 BOUNDARY.
  - 2. N.C. MEANS NON-CODE CLASS.
  - 3. INSTRUMENTATION HAS BEEN EXCLUDED FROM CLASSIFICATION.
  - 4. FOR VENT AND DRAIN LINES, THE ASME CLASSIFICATION TERMINATES AT THE CLOSED VALVE UPSTREAM OF CAP.
  - 5. DRAWING APPLICABLE FOR THIS MATERIAL.

- NOTES
- 1. ROOT VALVE NUMBERS WILL NOT BE SHOWN ON THIS DRAWING. THE OPERATOR SHALL REFER TO THE SYSTEM DESIGN FOR A LISTING OF THE INSTRUMENT NUMBERS RELYING THEREON.
  - 2. WELDING THIS DRAWING WITH WIRE LOTS 1, 2, 3 & 4. WELD. PROC. DRAWING-SERIES NUMBER 94-1000.

151M-606

151 FLOW DIAGRAM  
 AIR COND. COOLING WATER PIPING

DESIGNED BY  
 WISCONSIN PUBLIC SERVICE CORP.

DATE	151M-606
BY	151M-606
CHECKED BY	151M-606
APPROVED BY	151M-606

HYBRID CADD



## Appendix B

### Calibration Blocks

Calibration blocks for the Third 10-Year Inservice Inspection (ISI) Interval will be the same as those utilized during the Second Inspection Interval. The attached Calibration Block table (page B-2) provides a summary of these calibration blocks. Certifications for these calibration blocks is on file at the Kewaunee Nuclear Power Plant.

The calibration blocks used during the Second Inspection Interval were reviewed by Westinghouse Electric Corporation to verify that they satisfied the requirements of the 1980 Edition up to and including Winter 1981 Addenda of ASME Boiler and Pressure Vessel Code, Sections V and XI. Calibration blocks that deviated from the intent of the 1980 Edition up to and including Winter 1981 Addenda of ASME Boiler and Pressure Vessel Code, Sections V and XI were replaced. New calibration blocks, if and when required for the Third Inspection Interval, will be manufactured to meet the requirements of the 1989 Edition of ASME Boiler and Pressure Vessel Code, Sections V and XI.

## Appendix B

### Calibration Blocks

KEWAUNEE NUCLEAR POWER PLANT UNIT NO. 1				
CALIBRATION BLOCKS				
IDENTITY	SIZE/SCHEDULE	IDENTITY OR HEAT NUMBER	MATERIAL	COMPONENT/SYSTEM
WPS-1	2.375"T x 7.9375"L x 8.125W	B2836	A351 Grade CF8A	---
WPS-3	28" - .858"T	802E03230	A516 Grade 70 Carbon Steel	28" - .858"T Piping
WPS-4	24" SCH 80 1.219"T	N13070	A106 Grade B Carbon Steel	24" SCH 80 Mainsteam Piping
WPS-5	14" SCH 140 1.250"T	2637-4-2	A376 TP316 Stainless Steel	14" SCH 140 Pressurizer Surge Nozzle
WPS-6	16" SCH 140 1.438"T	N92392	A106 Grade B Carbon Steel	16" SCH 140 Feedwater Piping
WPS-7	12" SCH 160 1.312"T	2872-8	A376 TP316 Stainless Steel	12" SCH 160 Accumulator Discharge Piping
WPS-8	12" SCH 40 .408"T	2808-4-1-2	A312 TP304 Stainless Steel	12" SCH 40 RHR Piping
WPS-9	10" SCH 40S .365"T	1971-12-1-2	A312 TP304 Stainless Steel	10" SCH 40S RHR Piping
WPS-10	10" SCH 140 1.00"T	D61232	A312 TP304 Stainless Steel	10" SCH 140 RHR Return and Pressurizer Surge Piping; Charging Pump Surge Vessel and Seal Water Injection Filter
WPS-11	8" SCH 140 .812"T	2876-1-1	A376 TP316 Stainless Steel	8" SCH 140 RHR Piping
WPS-12	8" SCH 40S .322"T	M0937	A312 TP316 Stainless Steel	8" SCH 40S RHR and SIS Piping
WPS-13	8" SCH 80 .500"T	139624	A106 Grade B Carbon Steel	8" SCH 80 Mainsteam Piping
WPS-14	8" SCH 100 .594"T	64078	A106 Grade B Carbon Steel	8" SCH 100 Feedwater Piping

## Appendix B

### Calibration Blocks

KEWAUNEE NUCLEAR POWER PLANT UNIT NO. 1				
CALIBRATION BLOCKS				
IDENTITY	SIZE/SCHEDULE	IDENTITY OR HEAT NUMBER	MATERIAL	COMPONENT/SYSTEM
WPS-15	6" SCH 40 .280"T	M9959	A312 TP304 Stainless Steel	6" SCH 40S RHR, SIS and Containment Spray Piping
WPS-16	6" SCH 80 .432"T	240393	A106 Grade B Carbon Steel	6" SCH 80 Mainsteam Piping
WPS-17	6" SCH 160 .719"T	2631-4-2	A376 TP316 Stainless Steel	6" SCH 160 SIS, Plocap, Pressurizer Safety Piping Pressurizer Safety Nozzle and Pressurizer Relief Nozzle
WPS-18	4" SCH 160 .531"T	M9290	A376 TP316 Stainless Steel	4" SCH 160 SIS, Pressurizer Spray Nozzle and Control Rod Drive Mechanisms
WPS-19	4" SCH 120 .438"T	M6108	A376 TP316 Stainless Steel	4" SCH 120 Piping
WPS-20	3" SCH 160 .438"T	453853	A376 TP316 Stainless Steel	3" SCH 160 RTD, Pressurizer Relief and Pressurizer Spray Piping
WPS-21	2" SCH 160 .344"T	08754	A312 TP304 Stainless Steel	2" SCH 160 RTD, SIS, Drain, Seal Injection, Charging, Letdown and Auxiliary Spray Piping
WPS-22	1.5" SCH 160 .281"T	87623	A312 TP316H Stainless Steel	1.5" SCH 160 Seal Injection Piping
WPS-23	5"T x 18"L x 5"W	C0123-2	SA533 Grade B Class 1 Carbon Steel	Pressurizer and Steam Generator Channel Head to Tube Sheet
WPS-24	.312"T x 9"L x 2.5"W	F80085	SA240 TP304 Stainless Steel	Volume Control Tank

**Appendix B**  
**Calibration Blocks**

<b>KEWAUNEE NUCLEAR POWER PLANT UNIT NO. 1</b>				
<b>CALIBRATION BLOCKS</b>				
<b>IDENTITY</b>	<b>SIZE/SCHEDULE</b>	<b>IDENTITY OR HEAT NUMBER</b>	<b>MATERIAL</b>	<b>COMPONENT/SYSTEM</b>
WPS-25	14" SCH 40S .375"T	F70623	A358 Class 2 TP304 Stainless Steel	Letdown Heat Exchanger
WPS-26	1.5"T x 13"L x 2.5"W	B6272	SA516 Grade 70 Carbon Steel	Pressurizer Skirt, 31" Mainsteam Piping and 30" Mainsteam Tee
WPS-27	9.5" - .900"T	155512	A351 CF8	Regenerative Heat Exchanger
WPS-29	7"T x 5.75" Diameter Stud Segment	P3199	SA540 001-7	---
WPS-30	.5"T x 9"L x 2.5"W	F80085	SA240 TP304 Stainless Steel	Residual Heat Exchanger
WPS-31	10" SCH 120 .843"T	6-448	A312 TP304 Stainless Steel	10" SCH 120 Piping
WPS-32	16" SCH 100 1.031"T	89A410	A106 Grade B Carbon Steel	16" SCH 100 Feedwater Piping
WPS-33	16" SCH 120 1.219"T	42794	SA333 Grade 6 Carbon Steel	16" SCH 120 Piping
WPS-34	14" SCH 60 .594"T	N33188	SA106 Grade B Carbon Steel	14" SCH 60 Piping
WPS-35	6"T x 20"L x 6"W	125J596VAL	SA508 Class 2 Carbon Steel	Reactor Vessel Closure Head and Reactor Vessel Ligaments (Manual)
WPS-36	3.5"T x 18.25"L x 6"W	C5128	SA533 Class 1 Carbon Steel	Steam Generator Secondary Side: Steam Generator Mainsteam Nozzle Inside Radius Corner

## Appendix B

### Calibration Blocks

KEWAUNEE NUCLEAR POWER PLANT UNIT NO. 1				
CALIBRATION BLOCKS				
IDENTITY	SIZE/SCHEDULE	IDENTITY OR HEAT NUMBER	MATERIAL	COMPONENT/SYSTEM
WPS-37	30" - 1.10"T	3G5682	SA515 Grade 70 Class 1 Carbon Steel	30" Mainsteam Piping
WPS-38	16" SCH 60 .656"T	94558	A106 Grade B Carbon Steel	16" SCH 60 Feedwater Piping
WPS-39	32" - 2.3"T	125J596VAL	SA508 Class 2 Carbon Steel	32" - 2.3" T Mainsteam Nozzles
WPS-40	5.75" Dia. x 56.625"L	15045	SA540 Grade B24 Carbon Steel	Reactor Vessel Closure Head Studs
WPS-41	4.32" Dia. x 30.50"L	3P4028	SA540-68A Grade B24-Carbon Steel	Reactor Coolant Pump Main Flange Bolts
WPS-42	16" Feedwater Nozzle Forging	Q2Q149NQT Q2Q150NQT	SA508 Class 2A Carbon Steel	Steam Generator Feedwater Nozzle Inner Radius
WPS-RV-1	16"T&L x 31"L&T x 8.625"W	22231/39088	SA508 Class 3 Carbon Steel	Reactor Vessel Flange to Vessel from Seal Surface, Reactor Vessel Nozzle to Shell and Reactor Vessel External Welded Supports
WPS-RV-2	9"T x 32"L x 6"W	125J596VAL	SA508 Class 2 Carbon Steel	Reactor Vessel Flange to Vessel (I.D.) and Reactor Vessel External Welded Supports
WPS-RV-3	7"T x 28"L x 6"W	125J596VAL	SA508 Class 2 Carbon Steel	Reactor Vessel Nozzle Inside Radius Section, Reactor Vessel Upper Shell and Reactor Vessel Intermediate Shell

**Appendix B**

**Calibration Blocks**

<b>KEWAUNEE NUCLEAR POWER PLANT UNIT NO. 1</b>				
<b>CALIBRATION BLOCKS</b>				
<b>IDENTITY</b>	<b>SIZE/SCHEDULE</b>	<b>IDENTITY OR HEAT NUMBER</b>	<b>MATERIAL</b>	<b>COMPONENT/SYSTEM</b>
WPS-RV-4	5"T x 18"L x 6"W	125J596VAL	SA508 Class 2 Carbon Steel	Reactor Vessel Flange Ligaments, Reactor Vessel Lower Head and Reactor Vessel Ring to Disc.
WPS-SIS-01	6"T x 15"L x 4"W	125J596VAL	SA508 Class 2 Carbon Steel	Reactor Vessel SIS Nozzle to Shell and Reactor Vessel SIS Nozzle Inside Radius Section
WPS-RV-Safe-3	2.5"T x 12.5"L x 4"W	4952/P53627	SA508 Class 2 Carbon Steel/SA182 TP316 Stainless Steel	Reactor Vessel Nozzle to Safe-ends
WPS-43	3.02"T x 12.0"L x 12.0"W	C1488	A351 Grade CF8M	Reactor Coolant Circumferential Piping
WPS-44	3.18"T x 12.0"L x 12.0"W	5160C-1	SA351 Grade CF8A	Reactor Coolant Longitudinal Piping Seams

## Appendix C

### Summary of Second Inspection Interval Examinations That Exceeded the Acceptance Criteria of Section XI

YEAR	COMPONENT IDENTIFICATION NUMBER	DRAWING NUMBER	RESOLUTION
1985	SI-W53 (ORIGINAL) SI-W54DM (CURRENT)	ISIM-939SH1	REPAIRED
1985	RHR-W38	ISIM-957-1SH1	REPAIRED
1985	SI-W83S	ISIM-936	REPAIRED
1985	SI-W84S	ISIM-936	REPAIRED
1985	RHR-W58	ISIM-957-2	REPAIRED
1985	RHR-H16	ISIM-938-2SH1	REPAIRED
1985	FDW-H2132 (ORIGINAL) FDW-WA1325 (CURRENT)	ISIM-970	REPAIRED
1986	SI-W85S	ISIM-936	REPAIRED
1987	RHR-W125 BC	ISIM-959-1SH1	REPAIRED
1987	RHR-W122 BC	ISIM-959-1SH1	REPAIRED
1987	SG-W10	M-1206	Resized to within Section XI allowable in 1991 (reference WCAP-12691).
1988	SG-W2	M-1206	Resized to within Section XI allowable in 1991 (reference WCAP-12691).
1988	SI-W58	ISIM-938-1	REPAIRED
1988	RHR-H34A	ISIM-959-2	REPAIRED
1988	RHR-W241	ISIM-961-1	REPAIRED
1988	FW-W15	ISIM-970	REPAIRED
1988	MS-W70 BC	ISIM-985-1SH3	REPAIRED
1988	AHRS1-SW1	M-1207	REPAIRED
1988	RCVC-H66 (ORIGINAL) RCVC-H206 (CURRENT)	ISIM-1471	REPAIRED
1990	MS-H11	ISIM-984-2SH1	REPAIRED
1990	RTD-W75S	ISIM-1461	EVALUATED
1990	RTD-W74S	ISIM-1461	REPAIRED
1991	MS-W96	ISIM-984-2SH2	REPAIRED

Appendix C

Summary of Second Inspection Interval Examinations That Exceeded the Acceptance  
Criteria of Section XI

YEAR	COMPONENT IDENTIFICATION NUMBER	DRAWING NUMBER	RESOLUTION
1992	RHR-W50	ISIM-957-2	REPAIRED
1992	RSI-H60	ISIM-939SH1	REPAIRED
1993	MS-W80	ISIM-968	REPAIRED
1993	RSI-H57	ISIM-935	REPAIRED



## Appendix D

### Component Supports/Hangers and Integrally Welded Attachments That Are Identified on More Than One ISI Isometric Drawing

The following is a listing of those component supports/hangers that are required to be examined during the Third Inspection Interval and provide support for more than one component. These supports/hangers, therefore, appear on more than one ISI isometric drawing.

HANGER IDENTIFICATION	CORRESPONDING DRAWINGS
RSW-H3	ISIM-868 ISIM-869 ISIM-889-1 ISIM-889-2
RSW-H9	ISIM-869 ISIM-889-1

The following is a listing of those component supports/hangers that are required to be examined during the Third Inspection Interval and provide support for only one component. However, these supports/hangers are different from other supports in that they appear on more than one ISI isometric drawing.

HANGER IDENTIFICATION	CORRESPONDING DRAWINGS
RSW-H2	ISIM-868 ISIM-889-1
RSW-H10	ISIM-869 ISIM-888-1
RSW-H39	ISIM-881-1 ISIM-889-1
AC-H76	ISIM-881-1 ISIM-890
AC-H16	ISIM-881-1 ISIM-913
RSW-H36	ISIM-888-2 ISIM-889-1
RSW-H63	ISIM-889-1 ISIM-889-2
SW-H9	ISIM-893 ISIM-900

Appendix D

**Component Supports/Hangers and Integrally Welded Attachments That Are Identified on More Than One ISI Isometric Drawing**

<b>HANGER IDENTIFICATION</b>	<b>CORRESPONDING DRAWINGS</b>
SW-H8	ISIM-893 ISIM-901
SW-H10	ISIM-900 ISIM-901
SW-H87	ISIM-900 ISIM-924-1
SW-H147	ISIM-901 ISIM-926
AC-H20	ISIM-914 ISIM-915
SW-H134	ISIM-922 ISIM-924-1
SW-H143	ISIM-924-2 ISIM-926
FDW-H169	ISIM-970 ISIM-991SH1
FDW-H170	ISIM-971 ISIM-972-1SH1

The following is a listing of those component supports/hangers that are required to be examined during the Third Inspection Interval, appear on more than one ISI isometric drawing, and have integrally welded attachments on more than one line that is being supported by the support/hanger.

<b>HANGER IDENTIFICATION</b>	<b>CORRESPONDING DRAWINGS</b>
RSW-H3	ISIM-868 ISIM-869 ISIM-889-1 ISIM-889-2

**Appendix D**

**Component Supports/Hangers and Integrally Welded Attachments That Are Identified on More Than One ISI Isometric Drawing**

The following is a listing of those component supports/hangers that are required to be examined during the Third Inspection Interval, that appear on more than one drawing, and have integrally welded attachments identified on more than one ISI isometric drawing, but the integrally welded attachment is attached to only one component.

<b>HANGER IDENTIFICATION</b>	<b>CORRESPONDING DRAWINGS</b>
RSW-H9	ISIM-869 ISIM-889-1
RSW-H39	ISIM-881-1 ISIM-889-1
AC-H16	ISIM-881-1 ISIM-913
RSW-H36	ISIM-888-2 ISIM-889-1
RSW-H63	ISIM-889-1 ISIM-889-2
SW-H9	ISIM-893 ISIM-900
SW-H8	ISIM-893 ISIM-901
SW-H10	ISIM-900 ISIM-901
SW-H87	ISIM-900 ISIM-924-1
AC-H20	ISIM-914 ISIM-915
SW-H134	ISIM-922 ISIM-924-1
SW-H143	ISIM-924-2 ISIM-926
FDW-H169	ISIM-970 ISIM-991SH1
FDW-H170	ISIM-971 ISIM-972-1SH1

Appendix E

List of Non Exempt Snubbers Witbin Code Class Boundary

SNUBBER ID	DRAWING NO.	CODE CLASS
RC-H29A	ISIM-874-2	1
RCVC-H35	ISIM-874-3	1
AC-H68	ISIM-914	3
SW-H401	ISIM-924-1	3
SI-H35	ISIM-934-2	2
RSI-H2	ISIM-936	2
RSI-H2A	ISIM-936	2
RSI-H78	ISIM-936	2
RSI-H101	ISIM-936	2
RSI-H99	ISIM-937-1	2
RSI-H98	ISIM-937-2SH1	2
RRHR-H18	ISIM-938-1	1
RRHR-H14	ISIM-938-2SH1	2
RRHR-H15	ISIM-938-2SH1	2
RSI-H59	ISIM-939SH1	2
RSI-H61	ISIM-939SH1	2
RSI-H63	ISIM-939SHI	1
RSI-H67	ISIM-939SH1	1
CS-H39	ISIM-951	2
ICS-H7	ISIM-952	2
ICS-H8	ISIM-952	2
CS-H33A	ISIM-953	2
ICS-H10	ISIM-954	2
ICS-H11	ISIM-954	2
RHR-H38A	ISIM-958-1SH1	2
RHR-H41A	ISIM-958-1SH1	2
RHR-H35A	ISIM-959-1SH1	2
RHR-H36A	ISIM-959-2	2
RHR-H12A	ISIM-961-2	2

**Appendix E**

**List of Non Exempt Snubbers Witbin Code Class Boundary**

<b>SNUBBER ID</b>	<b>DRAWING NO.</b>	<b>CODE CLASS</b>
RHR-H12B	ISIM-961-2	2
RHR-H16A	ISIM-961-2	2
RHR-H10H	ISIM-962-2SH1	2
RHR-H49	ISIM-962-2SH1	2
RSI-H83	ISIM-982	2
RSI-H100	ISIM-982	2
RTD-H2	ISIM-1460	1
RTD-H6	ISIM-1460	1
RTD-H1I	ISIM-1461	1
RTD-H8	ISIM-1461	1
RCVC-H36	ISIM-1471	1
RCVC-H34	ISIM-1473	1
RCVC-H33A	ISIM-1473	1
RCVC-H33B	ISIM-1473	1
RCVC-H32	ISIM-1474	1
RCVC-H245	ISIM-1476	1

## Appendix F

### Augmented Examination Programs

Augmented examinations are those examinations that are performed above and beyond the requirements of ASME Boiler and Pressure Vessel Code Section XI. Below is a summary of those examinations performed by the Kewaunee Nuclear Power Plant that are not specifically addressed by Section XI, or the examinations that will be performed in addition to the requirements of the Code on a routine basis during the Third Inspection Interval.

#### 1. Program Summary

Augmented examinations performed at the Kewaunee Nuclear Power Plant on a continuous or ongoing basis are as follows.

##### a. IE Bulletins

- i. IE Bulletin 79-13, "Cracking in Feedwater System Piping." Reference WPSC letter dated July 26, 1979, from E. R. Mathews (WPSC) to J. G. Keppler (NRC).
- ii. IE Bulletin 79-17, "Pipe Cracks in Stagnant Borated Water Systems at PWR Plants." Reference WPSC letter dated August 29, 1979, from E. R. Mathews (WPSC) to J. G. Keppler (NRC).
- iii. IE Bulletin 88-08, "Thermal Stresses in Piping Connected to Reactor Coolant Systems." Reference WPSC letter, NRC-89-113, dated August 31, 1989.
- iv. IE Bulletin 88-09, "Thimble Tube Thinning in Westinghouse Reactors." Reference WPSC letter, NRC-89-2, dated January 6, 1989, and NRC letter, K-89-220, to Mr. Ken. H. Evers dated November 8, 1989.
- v. IE Bulletin 89-02, "Anchor Darling Swing Check Valves." Reference WPSC letter, NRC-91-075, dated June 3, 1991, and NRC letter, K-89-147, dated July 19, 1989.

##### b. Generic Letters

- i. Generic Letter 88-05, "Boric Acid Corrosion of Carbon Steel Reactor Coolant Boundary Components in PWR Plants." Reference WPSC letter, NRC-88-077, dated July 3, 1989.
- ii. Generic Letter 89-08, "Erosion/Corrosion - Induced Pipe Wall Thinning." Reference WPSC letter, NRC-89-089, dated July 21, 1989.

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### Augmented Examination Programs

- iii. Generic Letter 89-13, "Service Water System Problems Affecting Safety-Related Equipment." Reference WPSC letter, NRC-91-141, dated October 21, 1991.
- c. Updated Safety Analysis Report
  - i. Section 4.2.2, Reactor Coolant Pump Flywheels
- d. Plant Technical Specifications
  - i. TS 4.14, Snubber Surveillance Testing
  - ii. TS 4.2.a.2, Pump and Valve Testing
  - iii. TS 4.2.b, Steam Generator Tubes

## 2. Program Implementation

Only certain augmented programs are included in this long-term plan. Those programs and their requirements are stated below. For information regarding other programs, contact the Plant Manager at the Kewaunee Nuclear Power Plant.

- a. IE Bulletin 79-13, "Cracking in Feedwater System Piping"

This bulletin and its supplements reported that a significant number of PWR plants have experienced cracking of the steam generator feedwater nozzle-to-pipe weldment. Although a feedwater line break is an analyzed accident, the identified degradation of these joints in the absence of a routine inservice inspection requirement of these feedwater nozzle-to-piping welds is the basis for IE Bulletin 79-13. In 1979, the Kewaunee Nuclear Power Plant discovered shallow cracks in the feedwater nozzle-to-pipe weldments for both steam generators. Inspection and repair details are documented in WPSC letter dated July 26, 1979, from E. R. Mathews (WPSC) to J. G. Keppler (NRC). Following this incident, WPSC has inspected these areas on a routine basis. In the Third Inspection Interval, WPSC will radiograph these areas each refueling outage when practicable (i.e., when refueling outage schedule permits).

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### Augmented Examination Programs

- b. IE Bulletin 79-17, "Pipe Cracks in Stagnant Borated Water Systems at PWR Plants"

This bulletin summarizes incidents where pipe cracking has occurred in stainless steel piping systems at PWR plants. In 1980, the KNPP conducted examinations in accordance with the requirements of the bulletin. No incidents of cracking were discovered as a result of these inspections. In order for stainless steel pipe systems to be susceptible to stress corrosion cracking, three factors must co-exist simultaneously: aggressive environment, tensile stress, and susceptible material. The presence of these three ingredients does not necessarily preclude stress corrosion cracking. Their presence only indicates susceptibility. The degrees to which any one of these factors must be present for stress corrosion cracking to occur depends on its magnitude and relationship with the other two factors. Specific information regarding each of these factors with respect to stress corrosion cracking of austenitic stainless steel is well defined in numerous documents within the metals and nuclear industries. Parameters that can influence stress corrosion cracking are summarized below.

#### Environment

- i. Either a surface imperfection or corrodant ( $B$ ,  $Cl^-$ , and  $F^-$ ) is necessary to create a site for stress corrosion cracking to occur.
- ii. The rate of stress corrosion cracking is proportional to the exponent of negative inverse temperature  $e^{-\frac{1}{T}}$ , and
- iii. High oxygen content.

#### Susceptible Material

Excess carbon, improper heat treatment, or poor welding techniques can cause the formation of metal carbides at grain boundaries and lower the chromium content there below 12 percent.

A minimum of 12 percent chrome is required for passivity in moist air. This condition is known as sensitization.



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### Augmented Examination Programs

#### Tensile Stress

The final factor of concern is the direction and magnitude of stress. The occurrence of stress corrosion cracking requires a tensile stress at the surface. Fabrication of the piping systems by welding results in some level of tensile stress.

These parameters have been reviewed for the stagnant borated water systems at the Kewaunee Nuclear Power Plant. This review and the historical performance of the weldments to date signify that these systems will not experience stress corrosion cracking. Good performance of the weldments can be attributed to the following:

- Routine testing to control and maintain water chemistry in accordance with current standards
- Utilization of qualified welding procedures and thin diameter pipe resulting in low residual stress
- Relatively low operating temperature
- Radiography of butt welds during fabrication resulting in defect-free welds

Since no areas of concern were noted in this review and because no evidence of cracking has been observed to date, no augmented volumetric or surface examinations have been scheduled during the Third Inspection Interval. However, some volumetric and/or surface examinations may be performed in systems which contain stagnant borated water as required by Tables IWB-2500-1 and IWC-2500-1 of ASME Boiler and Pressure Code, Section XI. All of the stagnant borated water systems identified in the bulletin are routinely examined by visual inspection during scheduled pressure tests required by Section XI.

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- c. IE Bulletin 88-08, "Thermal Stresses in Piping Connected to Reactor Coolant Systems"

Supplement 3 to the bulletin notified WPSC that there was a possibility for temperature stratification and oscillation to occur in the horizontal sections of the Loop A and B hot leg RHR inlet piping. One of the required actions was to inspect welds potentially affected (two on A loop, one on B loop) via ultrasonics using 0°, 45°, and 60° beam transducers. These inspections were completed and found no recordable indications. WPSC committed to inspecting one of the three welds each ISI period (three years) during the second inspection interval. Upon completion of the Second Inspection Interval, this inspection frequency was to then be re-evaluated. Due to the fact that no planer indications were discovered during any of the inspections performed during the Second Inspection Interval and because no leakage has occurred at valves RHR-1A or RHR-1B, no additional examinations are scheduled for the Third Inspection Interval. In the future, should RCS valve leakage due to a packing leak or degradation of a valve seat occur, ISI techniques will be used to verify that degradation is not occurring.

- d. IE Bulletin 88-09, "Thimble Tube Thinning in Westinghouse Reactors"

Thimble tubes in Westinghouse reactors have been shown to be susceptible to wall thinning problems. As a means of determining the extent of degradation of the thimble tubes at the Kewaunee Nuclear Power Plant, eddy current inspections have been performed in 1985, 1987, 1988, and 1993. Due to the extent of the wall loss observed during the 1987 eddy current inspection and recurring unrelated thimble tube blockage problems, WPSC decided to replace all 36 thimble tubes. The replacement was performed during the 1988 refueling outage. The 1988 eddy current inspection was a baseline inspection conducted following replacement of the thimble tubes. Future plans for thimble tube performance include eddy current inspection in 1998. A five-year inspection frequency is justified based upon inspection results from the original thimbles (41% wall loss following 11 years of service, 52% average wall loss following 13 years of service). The examination frequency after 1998 will be dependent on the results of the previous two tests. The NRC staff requests that WPSC report any deviations from the five-year inspection frequency as a result of unexpected thimble tube thinning (including test results and proposed corrective actions) in the Inservice Inspection Summary Report following the refueling outage in which the deviation was determined.

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- e. **IE Bulletin 89-02, "Stress Corrosion Cracking of High-Hardness Type 410 Stainless Steel Internal Preloaded Bolting in Anchor Darling Model 5350W Swing Check Valves or Valves of Similar Design"**

The NRC first alerted licensees to the potential for stress corrosion cracking problems with 410 stainless steel (SS) components in Information Notices 85-59 and 88-85. Based on these notices and other industry literature, Wisconsin Public Service Corporation (WPSC) performed a detailed study of the safety-related valves at the Kewaunee Nuclear Power Plant (KNPP). On July 19, 1989, the NRC issued Bulletin 89-02, which requested that licensees identify, disassemble and inspect certain types of swing check valves that may contain Type 410SS bolting material.

WPSC's engineering evaluation concluded that 33 safety-related check valves included at least one Type 410SS component requiring inspection. The 33 valves were separated into the following three categories based on the priority assigned to the valve in the engineering evaluation.

- i. The first category contains four 12-inch anchor darling Model S350W swing check valves with Type 410SS retaining block studs and nuts. The valves were specifically mentioned in the bulletin as being very susceptible to stress corrosion cracking and, therefore, were given the highest priority.
- ii. The second category contains valves with Type 410SS components, not necessarily bolting that have been evaluated by WPSC to be susceptible to stress corrosion cracking. There are 17 valves in category 2.
- iii. The third category contains valves with Type 410SS components that have been evaluated to be less susceptible to stress corrosion cracking. The 12 valves in category 3 (listed below) are in the component cooling water (CCW), service water (SW), and makeup (MU) water systems which are low temperature systems. The temperatures are typically much less than 200°F, significantly reducing the crack initiation probability and stress corrosion crack rate. WPSC is examining category 3 valves, but does not consider them under the scope of Bulletin 89-02.

CC-602A	MU-311A	SW-901A	SW-901D
CC-602B	MU-311B	SW-901B	SW-501A
CC-614	MU-311C	SW-901C	SW-501B

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### Augmented Examination Programs

All of the category 1 and 2 valves have been inspected and the Type 410SS components have been replaced. The category 3 valves are being inspected as part of the Kewaunee Check Valve Reliability Program. Each valve in this program is disassembled and inspected at a minimum of once every five years; however, adjustments to the inspection frequency could be made based on inspection results. Type 410SS components on the category 3 valves will be replaced only if unacceptable indications are discovered during future inspections. Examination results of category 3 valves will be on file in the KNPP QA Vault and available for review.

- f. Generic Letter 88-05, "Boric Acid Corrosion of Carbon Steel Reactor Coolant Boundary Components in PWR Plants"

Generic Letter 88-05 summarizes domestic PWR plant experiences where boric acid leakage has had the potential to degrade carbon steel Reactor Coolant System pressure boundary components. The NRC staff noted that boric acid leakage potentially affecting the integrity of the reactor coolant pressure boundary should be procedurally controlled to ensure continued compliance with the licensing basis. KNPP does not administer one all encompassing formal program for the control and correction of boric acid leakage. However, key elements identified in the generic letter are adequately implemented through existing surveillance, operating, and maintenance procedures, and provide assurance of compliance as required by the referenced generic letter. In letter, K-88-205, the NRC noted that WPSC should maintain in audible form, records of the program and results obtained from implementation of the program. To this end, WPSC identified 35 valves with carbon and low alloy steel fasteners where leaks that are smaller than the allowable Technical Specification limit could cause degradation of the primary pressure boundary by boric corrosion:

SI-13A	SI-22B	SI-1A	SI-4A	RHR-2B	PR-3B	LD-2
SI-13B	SI-303A	SI-1B	SI-4B	RHR-11	PS-1A	LD-3
SI-21A	SI-303B	SI-2A	RHR-1A	RC-103A	PS-1B	LD-4A
SI-21B	SI-304A	SI-2B	RHR-1B	RC-103B	CVC-11	LD-4B
SI-22A	SI-304B	SI-3	RHR-2A	PR-3A	CVC-15	LD-4C

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### Augmented Examination Programs

During the Third Inspection Interval, pressure retaining fasteners of these valves will receive a VT-3 visual examination each period. The results of these inspections shall be documented in the Annual ISI reports and reported in the Inservice Inspection Summary Report following the outage in which the examinations conducted.

One noteworthy item which became a concern in the nuclear industry since issuance of Generic Letter 88-05 is the reactor vessel head adaptor tubes. A number of foreign plants have experienced shallow cracking in their RV CRDM penetrations. To date, only one plant, Bugey 3, has experienced thru-wall leakage. NUMARC and the Owners Groups have developed a program to monitor performance of these areas in United States plants. United States plants have been categorized into groups according to their susceptibility of stress corrosion cracking (SCC). The KNPP has been evaluated and determined to be one of the plants least susceptible to SCC. Plants that have been categorized as being highly susceptible to SCC may need to undergo detailed inspections. Plants that have been categorized as not being very susceptible to SCC are not required to conduct detailed volumetric and surface examinations at this time, but must pay particular attention to these regions during the annual system pressure test. Each peripheral CRDM penetration will be visually inspected as required by Article IWA-5000 of ASME Boiler and Pressure Vessel Code, Section XI during the Third Inspection Interval.

g. Generic Letter 89-08, "Erosion/Corrosion - Induced Pipe Wall Thinning"

WPSC letter, NRC-89-089, dated July 21, 1989, reports that WPSC has had an erosion/corrosion program for the KNPP since 1983. The program encompasses all single phase and two phase high energy secondary side carbon steel piping systems. This program includes examinations for initial wall thickness, monitoring, and follow-up inspections on piping segments that are replaced to locate any degradation that may occur in the new components. The following procedures ensure the continued implementation of an erosion/corrosion monitoring program at the KNPP: GMP 216, Pipe Inspection Procedure; ECP 8.1, Pipe Inspection Program Coordination; and NAD 8.15, Pipe Inspection Program.

h. Generic Letter 89-13, "Service Water Problems Affecting Safety-Related Equipment"

This generic letter required all licensees to develop a program to address the following concerns:

i. Flow blockage problems as a result of biofouling.

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### Augmented Examination Programs

- ii. Adequate heat transfer capability of all safety-related heat exchangers cooled by service water.
- iii. Corrosion, erosion, silting, and biofouling.
- iv. Verification that the as-built system is in accordance with licensing design basis.
- v. Maintenance practices, operating, emergency procedures, and training that involves the Service Water System are adequate to ensure that safety-related equipment cooled by the Service Water System will function as intended.

In response to the concerns noted under item 2.e.iii above, WPSC initiated an inspection program for the Service Water System. This program utilizes both tangential radiographic examinations and visual inspections. Small diameter supply and discharge piping for safety-related heat exchangers cooled by the Service Water System have been categorized into groups which represent either chemical cleaning loops or analysis groups. A sample from each group is radiographed annually. The number of areas radiographed annually has been chosen to ensure that the entire sample population is radiographed over a five-year period. By setting up the inspection program to include samples from each group annually, the need for scope expansions is eliminated since historical data specific to each group is available for trending and analysis. Confirmatory visual examinations of interior surfaces of the Service Water System are performed on a nonroutine basis during refueling outages when components are removed from service for maintenance.

- i. Updated Safety Analysis Report, Section 4.2.2, Reactor Coolant Pump Flywheels

Section 4.2.2 reports that the reactor coolant pump flywheels are designed in part to preclude missile production by the pump flywheels. The design included a fracture mechanics evaluation of the reactor coolant pump flywheel. The evaluation considered the following assumptions:

- i. Maximum tangential stress at an assumed overspeed of 125 percent.
- ii. A crack through the thickness of the flywheel at the bore.
- iii. Four hundred (400) cycles of startup operation in forty years.

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### Augmented Examination Programs

Using critical stress intensity factors and crack growth data attained on flywheel material, the critical crack size for failure was shown to be greater than 17 inches radially and the crack growth rate was 0.030 inch to 0.060 inch per 1000 cycles. Periodic ultrasonic examinations will provide continued assurance that the flywheels are structurally sound. The ultrasonic examination procedure utilized for these periodic examinations must be capable of detecting at least ½-inch deep cracks from the ends of the flywheel. Flywheels on both reactor coolant pumps will be ultrasonically examined during the Third Inspection Interval. Examinations will be performed concurrent with scheduled maintenance.

j. Plant Technical Specification, TS 4.14, Snubber Testing

All safety-related hydraulic shock suppressors are visually examined and tested in accordance with the requirements of TS 4.14. Refer to TS 4.14 for details regarding this program.

k. Plant Technical Specification, TS 4.2.a.2, Pump and Valve Testing

This TS applies to functional testing of Section XI code class 1, 2, and 3 pumps and valves. Refer to the Third IST Program for details regarding this program.

l. Plant Technical Specification, TS 4.2.b, Steam Generator Tubes

Examination of steam generator tubing is governed by TS 4.2.b. Refer to TS 4.2.b for details regarding this program.

## Appendix G

### Acronyms

AC . . . . .	Auxiliary Coolant
AFW . . . . .	Auxiliary Feedwater
ANII . . . . .	Authorized Nuclear Inservice Inspector
ANSI . . . . .	American National Standards Institute
ASME . . . . .	American Society of Mechanical Engineers
ATWS . . . . .	Anticipated Transients Without Scram
CCW . . . . .	Component Cooling Water
CFR . . . . .	Code of Federal Regulations
CHG . . . . .	Charging
CRDH . . . . .	Control Rod Drive Housing
CRDM . . . . .	Control Rod Drive Mechanism
CVC . . . . .	Chemical & Volume Control
ECCS . . . . .	Emergency Core Cooling System
ECD . . . . .	Engineering Control Directive
ECP . . . . .	Engineering Control Procedure
EOI . . . . .	End of Interval
FSAR . . . . .	Final Safety Analysis Report
FW . . . . .	Feedwater
HX . . . . .	Heat Exchanger
ICS . . . . .	Internal Containment Spray
IRS . . . . .	Inside Radius Section
ISI . . . . .	Inservice Inspection
IWA . . . . .	Integrally Welded Attachment
KNPP . . . . .	Kewaunee Nuclear Power Plant
LD . . . . .	Letdown
LOCA . . . . .	Loss of Coolant Accident
MS . . . . .	Main Steam
MSIV . . . . .	Main Steam Isolation Valves
NDE . . . . .	Non-Destructive Examination
NPS . . . . .	Nominal Pipe Size



## Appendix G

### Acronyms

NRC . . . . .	Nuclear Regulatory Commission
NRR . . . . .	Nuclear Reactor Regulation (Office of)
NUREG . . .	Nuclear Regulatory Commission Report
PORC . . . .	Plant Operations Review Committee
PR . . . . .	Pressurizer Relief
PRA . . . . .	Probablistic Risk Assessment
PS . . . . .	Pressurizer Spray
PWR . . . . .	Pressurized Water Reactor
PZR . . . . .	Pressurizer
QA . . . . .	Quality Assurance
RC . . . . .	Reactor Coolant
RCP . . . . .	Reactor Coolant Pump
RCPB . . . .	Reactor Coolant Pressure Boundary
RCS . . . . .	Reactor Coolant System
RHR . . . . .	Residual Heat Removal
RTD . . . . .	Reactor Temperature Detection
RV . . . . .	Reactor Vessel
RWST . . . .	Refueling Water Storage Tank
SFP . . . . .	Spent Fuel Pool
SG . . . . .	Steam Generator
SI . . . . .	Safety Injection
SRP . . . . .	Standard Review Plan
SW . . . . .	Service Water System
SWSH . . . .	Screen House
VCT . . . . .	Volume Control Tank
<u>W</u> . . . . .	Westinghouse
WCAP . . . .	Westinghouse Commercial Atomic Power
WD . . . . .	Waste Disposal
WPSC . . . .	Wisconsin Public Service Corporation