

NRC-03-123

10 CFR 50.55a

December 16, 2003

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

KEWAUNEE NUCLEAR POWER PLANT  
DOCKET 50-305  
LICENSE No. DPR-43

**IN-SERVICE INSPECTION PROGRAM FOR FOURTH INSPECTION INTERVAL**

As required by 10CFR50.55a (g)(5)(i), Nuclear Management Company has updated the In-service Inspection (ISI) Program. The next 120-month inspection interval starts June 16, 2004; therefore in accordance with 10CFR50.55a (g)4(ii) we have updated the program to address the requirements of the 1998 edition up to and including the 2000 addenda of the ASME Boiler and Pressure Vessel Code Section XI. Where code requirements are determined to be impractical, relief requests have been generated and are included in the program. The program also identifies certain ASME Code Cases selected for use during the next 120-month interval; these ASME Section XI Code Cases have been determined suitable for use by the Commission staff as referenced in NRC Regulatory Guide 1.147, ISI Code Case acceptability ASME Section XI Division 1, Revision 13.

It is important to note that the ISI Program is a working document and that changes can be expected to occur during the implementation phase of the program. Accordingly, Nuclear Management Company may have the need to periodically update you with the most recent revision of the ISI Program including submittal of additional Relief Requests as warranted.



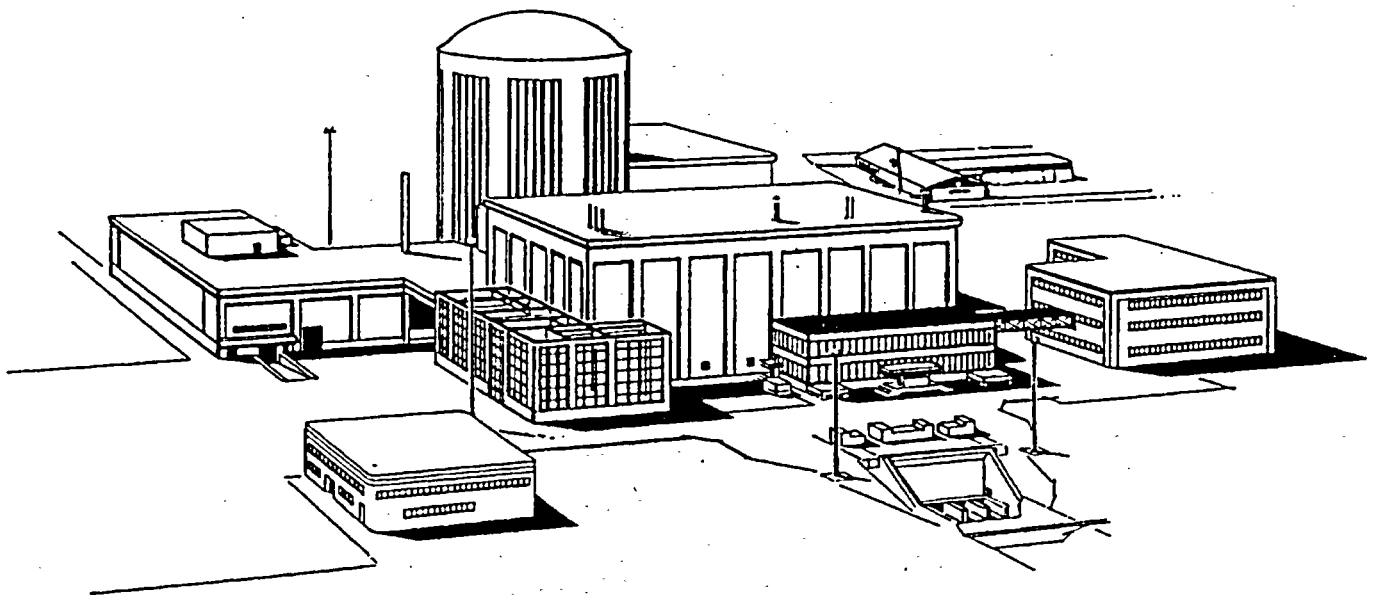
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PEB

cc: Administrator, Region III, USNRC, w/o attach.  
Senior Resident Inspector, Kewaunee, USNRC, w/o attach.

A047

**FOURTH 10-YEAR  
INSERVICE INSPECTION  
(ISI) PROGRAM  
2004-2014  
OF THE  
KEWAUNEE NUCLEAR POWER PLANT  
FOR  
NUCLEAR MANAGEMENT COMPANY, LLC  
700 FIRST STREET  
HUDSON, WISCONSIN 54016**



**FOURTH 10-YEAR INSERVICE INSPECTION**

**(ISI) PROGRAM 2004-2014**

**OF THE**

**KEWAUNEE NUCLEAR POWER PLANT**

**N490 HIGHWAY 42**

**KEWAUNEE, WISCONSIN 54216-9511**

**FOR**

**NUCLEAR MANAGEMENT COMPANY, LLC**

**700 FIRST STREET**

**HUDSON, WISCONSIN 54016**

**PREPARED BY:**

**NUCLEAR MANAGEMENT COMPAY, LLC**

**KEWAUNEE NUCLEAR POWER PLANT**

**ENGINEERING PROGRAMS**

**N490 HIGHWAY 42**

**KEWAUNEE, WISCONSIN 54216-9511**

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Revision of the Kewaunee Nuclear Power Plant Fourth 10-Year Inservice Inspection (ISI) Plan is controlled by NAD-05.11 Revision and Control of the ISI Plan. Changes to ISI drawings are reviewed in accordance with the requirements specified in NEP-04-15 ISI Data Collection, Reconciliation and Drawing Project Implementation. One copy of the original and subsequent revisions are maintained as a permanent record in the KNPP QA Vault. Copies of the Revisions are sent to all controlled holders to maintain a current copy.

The original revision of the Kewaunee Nuclear Power Plant Fourth 10-Year Inservice Inspection (ISI) Plan was reviewed by the Plant Operations Review Committee on September 30, 2003. Refer to minutes for PORC meeting 03- 174.

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## Section 1.0

### Introduction

The Inservice Inspection (ISI) Plan was originally prepared for the Kewaunee Nuclear Power Plant by the Engineering and Technical Support Department to address the inspection requirements for the Fourth Inspection Interval. The original issue of the plan was reviewed by the Plant Operations Review Committee on September 30, 2003. The Kewaunee Nuclear Power Plant, located nine miles south of Kewaunee, Wisconsin, on the western shore of Lake Michigan, is operated by Nuclear Management Company, LLC. The Kewaunee Nuclear Power Plant is a 540 megawatt electric, Westinghouse design, two-loop pressurized water reactor that was placed into commercial operation in June 1974.

This plan fulfills the Fourth Inspection Interval ISI requirements specified by the Code of Federal Regulation 10 CFR 50.55a(g) with the exception of steam generator tube, snubber examinations, and the pump and valve test program. The Fourth Inspection Interval starts June 16, 2004, and ends June 16, 2014.

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 Fourth 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 Fourth Inspection Interval. On June 16, 2003, 1998 Edition through 2000 Addenda were the latest versions of ASME Boiler and Pressure Vessel Code, Section XI, referenced in 10 CFR 50.55a(b)(2).

One exception to the use of the 1998 Edition up to and including 2000 Addenda of Section XI is the implementation of Risk-Informed Inservice Inspection as referenced in Electric Power Research Institute (EPRI) Topical Report TR-112657 Rev. B-A "Revised Risk-Informed Inservice Inspection Evaluation Procedure". TR-112657 Rev. B-A is conducted in a manner consistent with ASME Boiler and Pressure Vessel Code Section XI Code Case N-578 Risked Informed Requirements for Class 1, Class 2, or Class 3 Piping Method B Section XI Division 1 for the Kewaunee Nuclear Power Plant Class 1 and Class 2 Piping Systems.

Additional requirements located in 10 CFR 50.55a are included in the 4<sup>th</sup> Ten Year Interval ISI Plan and/or implementing procedures for the Kewaunee Nuclear Power Plant Inservice Inspection Program. Examples of items located in 10 CFR 50.55a that were incorporated are: 1) Class 1 Piping IWB-1220 Components Exempt from Examination are addressed in Section 3.0 of the 4<sup>th</sup> Ten Year Interval ISI Plan, 2) Appendix VIII additional requirements are addressed in KNPP procedure NAD-01.03 ASME Boiler and Pressure Vessel Code Section XI Appendix VIII Program Implementation, 3) Substitution of Alternative methods referenced in ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Article IWA-2240 are addressed in KNPP Inservice Inspection Nuclear Engineering Procedures, 4) System Leakage Test Hold Times are addressed in KNPP Inservice Inspection Surveillance Procedures, 5) Table IWB-2500-1 Examination Requirements for Examination Category B-D, Item No. B3.140 are addressed in Section 6.0 and Section 8.0 of the 4<sup>th</sup> Ten Year Interval ISI Plan, 6) Table IWB-2500-1 Examination Requirements for Examination Category B-G-2, Item No. B7.80 are addressed in Section 6.0 and Section 8.0 of the 4<sup>th</sup> Ten Year Interval ISI Plan, 7) Table IWB-2500-1 Examination Requirements for Examination Category B-K, Item No. B10.10 are addressed in Section 6.0 and Section 8.0 of the 4<sup>th</sup> Ten Year Interval ISI Plan

and KNPP Inservice Inspection Nuclear Engineering Procedures and 8) Augmented Examination of the Reactor Vessel are addressed in Section 6.0 and Section 8.0 of the 4<sup>th</sup> Ten Year Interval ISI Plan.

The Section XI requirements of IWE (Class MC examination) are contained in a separate program and applies to the First Inspection Interval at Kewaunee by virtue of Code of Federal Regulations 10CFR50.55a(g)(6)(ii)(B), Federal Register/Volume 61 No.154/Thursday August 8, 1996/Rules and Regulations and ASME Boiler and Pressure Vessel Code Section XI 1992 Edition with 1992 Addenda.

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 Fourth 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 during the ten years (2004-2014) 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
3rd Interval	1st, 2nd, and 3rd	1994-2004	1989 including for 2nd and 3rd Period use of 1995 Edition thru 1996 Addenda for Appendix VIII Requirements.

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) and (b)(2), 1989 Edition (Per requirements of Nuclear Regulatory Commission Federal Register/ Vol. 67, No. 187/ Thursday, September 26, 2002/ Rules and Regulations

##### 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)(1) and (a)(2) or IWC-1222(a)(1) and (a)(2), 1998 Edition 2000 Addenda.

##### Description

Piping NPS 4 (DN100) and smaller and vessels, pumps and valves and their connections in piping NPS 4 (DN100) and smaller in systems except high pressure safety injection systems in pressurized water reactor plants.

Piping NPS 4 and smaller and vessels, pumps and valves and their connections in piping NPS 4 and smaller in systems except auxiliary feedwater systems in 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)(1) and (b)(2) and IWC-1222(b)(1) and (b)(2), 1998 Edition 2000 Addenda.

#### Description

Piping NPS 1 1/2 (DN40) and smaller and vessels, pumps, and valves and their connections in piping NPS 1 1/2 (DN40) and smaller for high pressure safety injection systems in pressurized water reactor plant.

Piping NPS 1 1/2 and smaller and vessels, pumps and valves and their connections in piping NPS 1 1/2 and smaller for auxiliary feedwater systems in 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) 2. Feedwater System (ISIM-205)

#### Exemption E 2-3

Code reference: IWC-1221(c), 1998 Edition 2000 Addenda.

#### Description

Vessels, piping, pumps, valves, other components, and component connections of any size in statically pressurized, passive (i.e., 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 i.e. Vented Vessel classified as a Non Pressure Vessel (ISIXK100-29)

## Section 3.0

### Exemptions

#### Exemption E 2-4

Code reference: IWC-1221(d) and IWC-1222(d), 1998 Edition 2000 Addenda.

#### 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:	<ol style="list-style-type: none"><li>1. Safety Injection System (ISIXK-100-28)</li><li>2. Internal Containment Spray (ISIM-217)</li></ol>

#### Exemption E 2-5

Code reference: IWC-1222(c), 1998 Edition 2000 Addenda.

#### 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 (1900 kPa) and at a temperature equal to or less than 200°F (93°C).

Method of examination exempt:	Volumetric and Surface
Portion(s) of systems affected:	<ol style="list-style-type: none"><li>1. Chemical and Volume Control (ISIXK-100-36)</li><li>2. Seal Water Filter (ISIXK-100-36)</li><li>3. Reactor Coolant Filter (ISIXK-100-36)</li><li>4. Seal Water Heat Exchanger (ISIXK-100-36)</li><li>5. Volume Control Tank (ISIXK-100-36)</li><li>6. Charging Pump Suction Stabilizers (ISIXK-100-36)</li></ol>

## Section 3.0

### Exemptions

#### Exemption E 2-6

Code reference: IWC-1223, 1998 Edition 2000 Addenda.

#### Description

Welds or portions of welds that are inaccessible due to being encased in concrete, buried underground, located inside a penetration, or encapsulated by guard pipe.

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(a) and (b), 1998 Edition 2000 Addenda.

#### Description

Piping NPS 4 (DN100) and smaller and vessels, pumps, and valves and their connections in piping NPS 4 (DN100) and smaller.

Method of examination exempt:	Visual VT-1
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. Service Water System (ISIM-202-1, ISIM-202-2, ISIM-547, ISIM-588 and ISIM-606)</li><li>3. Spent Fuel Pool Cooling and Cleanup System (ISIM-218)</li><li>4. Main Auxiliary Steam and Steam Dump (ISIM-203)</li><li>5. Chemical Injection System (ISIM-214)</li></ol>

## Section 3.0

### Exemptions

#### Exemption E 3-2

Code reference: IWD-1220(c), 1998 Edition 2000 Addenda.

#### Description

Components that operate at a pressure of 275 psig (1900 kPa) or less and at a temperature of 200 F (93°C) or less in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal and emergency core cooling.

Method of examination exempt:	Visual VT-1
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, ISIM-547, ISIM-588 and ISIM-606)</li><li>3. Component Cooling Water System (ISIXK-100-19 and ISIXK-100-20)</li><li>4. Feedwater System (ISIM-205)</li></ol>

#### Exemption E 3-3

Code reference: IWD-1220(d), 1998 Edition 2000 Addenda.

#### Description

Welds or portions of welds that are inaccessible due to being encased in concrete, buried underground, located inside a penetration, or encapsulated by guard pipe.

Method of examination exempt:	All examination requirements of IWD-2500
Portion(s) of systems affected:	Various Class 3 Systems

## Section 3.0

### Exemptions

#### Exemption E G-1

Code reference: IWF-1230, 1998 Edition 2000 Addenda.

#### Description

Supports exempt from the examination requirements of IWF-2000 are those connected to piping and other items exempted from Volumetric, Surface, or VT-1 or VT-3 examination by IWB-1220, IWC-1220 and IWD-1220. In addition, portions of supports that are inaccessible by being encased in concrete, buried underground, or encapsulated by guard pipe are also exempt from the examination requirements of IWF-2000.

Method of examination exempt:	Visual VT-3
Portion(s) of systems affected:	Various Class 1, Class 2 and Class 3 Systems

## Section 4.0

### Code Cases

The guidance of the code cases listed in Regulatory Guide 1.147, Revision 13 may be used during the course of examinations performed in the Fourth Inspection Interval. The following is a summary of selected code cases and how they will be applied to Kewaunee Nuclear Power Plant during the Fourth 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 07/27/1988)

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-498-4 (Approved 02/15/1999)

Table IWD-2500-1, Category D-B of ASME Section XI, requires that pressure retaining components within the Class 3 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 IWD-2500-1, Category D-B, Kewaunee Nuclear Power Plant will utilize Code Case N-498-1 which states the following requirements be satisfied.

(c) It is the opinion of the Committee that, as an alternative to the 10-year system hydrostatic test required by Table IWD-2500-1, Categories D-A, D-B, or D-C (D-B for the 1989 Edition with the 1991 and subsequent Addenda), as applicable, the following rules shall be used.

- (1) 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.

## Section 4.0

### Code Cases

- (2) The boundary subject to test pressurization during the system pressure test shall extend to all Class 3 components included in those portions of 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.
- (3) Prior to performing the VT-2 visual examination, the system shall be pressurized to that pressure obtained while the system, or portion of the system, is inservice performing its normal operating function; or, at the pressure developed during a test conducted to verify system operability (e.g., to demonstrate system safety function or satisfy technical specification surveillance requirements). When utilizing a test conducted to verify system operability for the performance of the VT-2 examination and multiple safety-related modes of operation exist or multiple functional tests are available, the operational mode or test that is performed at the highest pressure shall be used. No holding time is required prior to performing the VT-2 visual examination. The system shall be maintained at this pressure during performance of the VT-2 visual examination.
- (4) The VT-2 visual examination shall include all components within the boundary identified in (c) (2) above.
- (5) Test instrumentation requirements of IWA-5260 are not applicable.

**NOTE:** Per Nuclear Regulatory Commission Regulatory Guide 1.147 Revision 13, June 2003: The provisions of IWA-5213, "Test Condition Holding Times," 1989 Edition, are to be used.

#### Case N-566-1 (Approved 02/12/1999)

As an alternative to the requirements of ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda IWA-5250 (a) (2), Kewaunee Nuclear Power Plant will utilize ASME Boiler and Pressure Vessel Code Section XI: Code Case N-566-1 Corrective Action For Leakage Identified at Bolted Connections, Section XI, Division 1.

It is the opinion of the Committee that, as an alternative to the requirements of IWA-5250(a)(2) bolted connections, the requirements of (a) or (b) below shall be met.

- (a) The leakage shall be stopped, and the bolting and component material shall be evaluated for joint integrity as described in (c) below.
- (b) If the leakage is not stopped the joint shall be evaluated in accordance with IWB-3142.4 for joint integrity. This evaluation shall include the considerations listed in (c) below.

## Section 4.0

### Code Cases

(c) The evaluation of (a) and (b) above is to determine the susceptibility of the bolting to corrosion and failure. This evaluation shall include the following:

- (1) The number and service age of the bolts;
- (2) Bolt and component material;
- (3) Corrosiveness of process fluid;
- (4) Leakage location and system function;
- (5) Leakage history at the connection or other system components;
- (6) Visual evidence of corrosion at the assembled connection.

#### **Case N-648-1 (Approved 09/07/2001)**

Table IWB-2500-1, Examination Category B-D requires volumetric examination of Inner Radius of Class 1 Reactor Vessel Nozzles.

As an alternative to the volumetric examination required by Table IWB-2500-1 Category B-D Kewaunee Nuclear Power Plant will utilize Code Case N-648-1 which states the following requirements be satisfied.

It is the opinion of the Committee that a VT-1 examination of the surface M-N shown in Figs. IWB-2500-7 (a) through (d) in the 1998 Edition may be performed in lieu of the volumetric examination required by Table IWB-2500-1, Examination Category B-D, Item No. B3.20 or Item No. B3.100, for inservice examination of reactor vessel nozzles other than BWR feedwater nozzles and operational control rod drive return line nozzles. Crack-like surface flaws exceeding the acceptance criteria of Table IWB-3510-3 in the 1998 Edition are unacceptable for continued service unless the reactor vessel meets the requirements of IWB-3142.2, IWB-3142.3, or IWB-3142.4. The component thickness,  $t$ , to be applied in calculating the allowable surface flaw length,  $l$ , in Table IWB-3510-3 shall be selected as specified in Table IWB-3512-2.

**NOTE: Per Nuclear Regulatory Commission Regulatory Guide 1.147 Revision 13, June 2003:**

In place of a UT examination, licensees may perform a visual examination with enhanced magnification that has a resolution sensitivity to detect a 1-mil width wire or crack, utilizing the allowable flaw length criteria of Table IWB-3512-1 with limiting assumptions on the flaw aspect ratio. The provisions of Table IWB-2500-1, Examination Category B-D, continue to apply except that, in place of examination volumes, the surfaces to be examined are the external surfaces shown in the figures applicable to this table.

## Section 5.0

### Relief Requests

The Kewaunee Nuclear Power Plant was not originally designed to meet all the requirements of the 1998 Edition 2000 Addenda 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 Nuclear Management Company, LLC that would result if the code requirements were imposed.

### CLASS 1

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

1. Components Affected

One Class 1 Nozzle: Pressurizer Surge Nozzle Inner Radius P-IR7

Isometric  
M-1200

2. Section XI Requirements

Volumetric examination of nozzle inner radius per the 1998 Edition 2000 Addenda of Section XI, Table IWB-2500-1, Category B-D, Item B3.120 (Reference Nuclear Regulatory Commission Federal Register / Vol. 67, No. 187 / Thursday, September 26, 2002 . Rules and Regulations).

3. Basis for Requesting Relief

Ultrasonic examination of the pressurizer surge nozzle inner radius section is undesirable for the following reasons:

- a. Coarse grain found in castings causes sound to be attenuated.
- b. Difficult to differentiate flaws from normal geometry (clad roll).
- c. Access restrictions caused by the pressurizer heater penetrations and associated wiring. Due to the complexity of work on and around the heater penetrations, there is a possibility of damaging this equipment and a potential to adversely impact the outage duration due to scheduling conflicts.

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- d. Difficulty in removal and replacement of insulation around the heater penetrations and wiring.
- e. Increased personnel exposure to radiation and high cost of the examination.
- f. There is not a history of industry failures in this area.

#### 4. Alternative Methods of Examination

The surge line (at the bottom of the pressurizer) is inaccessible for visual examination even when the manway (at the top of the pressurizer) is removed; therefore, no alternative examination on the pressurizer surge nozzle can be performed.

The integrity of this nozzle 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-1-2

##### 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

##### 2. Section XI Requirements

A VT-2 visual examination of auxiliary spray piping per 1998 Edition 2000 Addenda of Section XI, Table IWB-2500-1, Category B-P, Item B15.50, Note 2 IWB-5222(b). This requires that all Class 1 components within the system boundary be pressurized at or near the end of each Inspection Interval.

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#### 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 leakage pressure test in accordance with requirements specified in Table IWB-2500-1, Examination Category B-P, Item Number B15.50 Note 2 IWB-5222(a). This requires the pressure retaining boundary correspond to the reactor coolant boundary, with all valves in the position required for normal reactor operation startup.

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

#### 1. Components Affected

Reactor Vessel Welded Attachments RV-CS5 and RV-CS6 Isometric: M-1194

#### 2. Section XI Requirements

Surface examination of Welded Attachment per the 1998 Edition 2000 Addenda of Section XI Table IWB-2500-1, Category B-K Item No.10.10.

#### 3. Basis for Requesting Relief

Surface examination of the Reactor Vessel Welded Attachments cannot be performed due to restricted access. RV-CS5 and RV-CS6 are located on the O.D. of the Reactor Vessel and between Reactor Vessel and Biological Shield. Restricted area prohibits removal of permanent, Reactor Vessel Insulation and inability to properly clean welds for surface examination.

#### 4. Alternative Methods of Examination

Perform Ultrasonic examination of the Welded Attachments RV-CS5 and RV-CS6 from the Reactor Vessel I.D. using remotely operated automated equipment. Perform examination at the end of the Interval when core barrel is removed for remainder of Reactor Vessel Shell circumferential welds. Perform VT-3 Visual Examination from the Reactor Vessel O.D. of accessible areas of RV-CS5 and RV-CS6.

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

##### 1. Components Affected

##### Class 1 Piping and Valves

<u>Item</u>	<u>Drawing</u>	<u>Description</u>
A.	ISIXK100-18	8" and 3/4" piping in the residual heat removal (RHR) system between valves RHR-1A and RHR-2A up to and including valves RHR-1A, RHR-2A, RHR-30A, RHR-31A, RHR-32A, RHR-32A-1, and rupture disc.
B.	ISIXK100-18	8" and 3/4" piping in the RHR, system between valves RHR-1B and RHR-2B up to and including valves RHR-1B, RHR-2B, RHR-30B, RHR-31B, RHR-32B, RHR-30B-1, and rupture disc.
C.	ISIXK100-28	12" and 3/4" piping in the safety injection (SI) system between valves SI-21A and SI-22A up to and including valves SI-21A, SI-22A, SI-44A, SI-45A, and SI-201A.
D.	ISIXK100-28	12", 10" and 3/4" piping in the SI system between valves SI-21B and SI-22B up to and including valves SI-21B, SI-22B, RHR-11, SI-44B, SI-45B, and SI-201B.
E.	ISIXK100-28	6", 2" and 3/4" piping in the SI system between valves SI-12A and SI-13A up to and including valves SI-12A, SI-13A, and SI-42.
F.	ISIXK100-28	6", 2" and 3/4" piping between in the SI system valves SI-12B and SI-13B up to and including valves SI-12B, SI-13B, and SI-62.
G.	ISIXK100-28	6", 2" and 3/4" piping in the SI system between valves SI-303A and SI-304A up to and including valves SI-303A, SI-304A, SI-16A, SI-46, and SI-48.
H.	ISIXK100-28	6", 2" and 3/4" piping in the SI system between valves SI-303B and SI-304B up to and including valves SI-303B, SI-304B, SI-16B, SI-47, SI-49, and SI-50.

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#### 2. Section XI Requirements

Section XI Class 1 piping per ASME Boiler and Pressure Vessel Code, Section XI, 1998 Edition 2000 Addenda, Table IWB-2500-1, Category B-P, Item Numbers B15.50 and B15.70 and Code Case N-416-2.

This relief request involves Code requirements that mandate performance of a VT-2 visual examination during either the system pressure test or hydrostatic pressure test. Specifically, the requirement in Paragraph IWB-5221(a) states a system leakage shall be conducted at a pressure not less than pressure corresponding to 100% rated reactor power i.e. Reactor Coolant System Pressure of 2235 psig.

System leakage tests and hydrostatic pressure tests are performed at various times throughout the inspection interval. First, a system leakage pressure test of the RCS is performed following each refueling outage. Second, the Code requires a hydrostatic pressure test be performed following certain repair and replacement activities. Additionally, Code Case N-416-2 permits performing a system leakage pressure test in lieu of the hydrostatic pressure test required following certain repair and replacement activities.

This relief request addresses the requirement of performing the system leakage test at a test pressure not less than the pressure corresponding to 100% rated reactor power, which is 2235 psig for Class 1 piping connected to the RCS. The intent of Paragraph IWB-5221 is to ensure Class 1 pressure-retaining piping and valves within the system are pressurized to RCS pressure (i.e., 2235 psig) in lieu of the hydrostatic test pressure.

#### 3. Basis for Requesting Relief

Pursuant to 10 CFR 50.55a(g)(5)(iii), relief is requested from the provisions of Table IWB-2500-1, Category B-P, Item Numbers B15.50 and B15.70 and Code Case N-416-2. These items require performing the VT-2 visual examination at a test pressure of not less than the pressure corresponding to 100% rated reactor power.

The affected components listed above consist of piping that is either

- located between two (2) shut valves
- located between two (2) check valves and/or
- classified as parts of systems not required to operate during normal plant operation

This piping is operated at a pressure lower than the nominal operating pressure associated with 100% rated reactor power. The piping and valves including operating pressure are as follows:

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#### Items A and B: Train A and Train B of Residual Heat Removal (RHR) Inlet Piping

Items A and B have the following characteristics:

Section XI Required System Leakage Test Pressure:	2235 psig
Operating Pressure:	450 psig
Proposed System Leakage Test Pressure:	450 psig

Both trains consist of two motor-operated valves in series and are located off the hot legs of the RCS loops. These trains are the inlet piping to the RHR system that are used for cooling the core during plant shutdown, refueling and startup.

At 100% rated reactor power, this piping can be pressurized to RCS pressure by either of the following methods:

- The interlocks associated with valves RHR-1A(B) and RHR-2A (B) could be modified to permit pressurization from the RCS. Overriding the interlocks associated with RHR-1A and RHR-2A (RHR-1B and RHR-2B) to pressurize the piping between these valves could result in challenging the piping on the downstream side of valves RHR-2A(B). This piping is classified as Section XI code Class 2 and designed for 600 psig. This method could result in reducing the margin of safety of the plant since failure of either valve RHR-2A(B) would result in an inter-system LOCA outside of containment.
- A hydrostatic pressure pump could be used to pressurize the piping between these two motor-operated valves through an existing drain valve. Use of a hydrostatic pressure pump in this application poses the possibility of overpressurizing the downstream Class 2 piping due to leakage or failure of RHR-2A or RHR-2B.

#### Items C and D: Train A and B of Accumulator Injection Piping

Items C and D have the following characteristics:

Section XI-Required System Leakage Test Pressure:	2235 psig
Operating Pressure:	2200 psig at SI pump discharge
Proposed System Leakage Test Pressure:	2200 psig at SI pump discharge

This piping is located at the discharge of the SI accumulator tanks and is maintained at approximately 750 psig when the plant is operating at 100% rated reactor power.

At 100% rated reactor power, this piping can be pressurized to RCS pressure by either of the following methods:

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- The piping configuration would require the installation of jumpers to existing drain valves located between check valves SI-21A&B and SI-22A&B to pressurize the piping from the RCS.
- Installation and use of a hydrostatic pressure pump.

Items E and F: Train A and B High Pressure SI Piping

Items E and F have the following characteristics:

Section XI-Required System Leakage Test Pressure: 2235 psig

Operating Pressure:

2200 psig at SI pump discharge

Proposed System Leakage Test Pressure:

2200 psig at SI pump discharge.

This piping is connected to the cold legs of the RCS loops. This piping provides SI fluid to the core under high-pressure conditions following an accident.

At 100% rated reactor power, this piping can be pressurized to RCS pressure by either of the following two methods:

- Installation of jumpers to the drain valves located between the check valves
- Installation of a hydrostatic pressure pump.

Items G and H: Train A and B SI to Reactor Vessel

Item G and H have the following characteristics:

Section XI-Required System Leakage Test Pressure: 2235 psig

Operating Pressure:

2200 psig at SI pump discharge

Proposed System Leakage Test Pressure:

2200 psig at SI pump discharge

This piping is connected to the SI nozzles attached to the reactor vessel.

At 100% rated reactor power, this piping can be pressurized to RCS pressure by either of the following two methods:

- Installation of jumpers to existing drain valves located between the check valves
- Installation of a hydrostatic pressure pump.

A hydrostatic pressure pump could be used to pressurize each of these segments of piping through an existing drain valve. When a hydrostatic pump is used as a pressure source, the affected system is not available to perform its intended safety function during the period of time it has been declared inoperable to conduct the test. Although hydrostatic pressure testing is performed with the utmost of care using detailed procedures and trained personnel, there is a small possibility of equipment damage or human error. Hydrostatic pressure testing also delays

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availability of the system by several shifts to establish test conditions, perform the test and recover from testing.

The use of a hydrostatic pressure pump poses various operational challenges depending on the plant mode when testing is performed. The testing poses operational concerns and personnel and plant safety issues because the plant is placed in a configuration requiring an operating pressure greater than normal operating pressure for either hydrostatic or system pressure testing. Connecting the RCS to the SI system and RHR system through the use of jumpers poses similar challenges.

#### 4. Alternative Method of Examination

Perform the Code-required VT-2 visual examinations of the affected components at the normal operating pressure of each of the systems, as discussed below:

##### **Items A and B: Train A and Train B RHR Inlet Piping**

Since this piping is within the RCS test boundary, it is VT-2 visually inspected following each refueling outage when the plant is in hot shutdown. Although the motor-operated valves are shut at this time, the piping is pressurized from operation of the RHR system. This section of piping is also VT-2 visually examined as part of the Class 2 RHR system once during each inspection period (every 40 months). A test pressure of 450 psig (pump discharge pressure) is used for testing the RHR system. During refueling shutdown, except when fuel is removed from the reactor vessel, the RHR system is in continuous operation at pressures that vary between approximately 450 psig and atmospheric pressure. At this time, the integrity of RHR system is verified via available instrumentation and personnel observations. The combination of plant monitoring equipment such as leak detection systems and increased maintenance and surveillance activities provides a high degree of confidence that through-wall leakage would be detected and corrected.

The alternative test pressure of 450 psig fulfils the same purpose as the test pressure required by Paragraph IWB-5221 in that it accomplishes a check for component leakage at a reduced cost while enhancing plant safety. Plant safety is enhanced when pressure testing is performed at the normal operating pressure of 450 psig because the affected system is available to perform its intended safety function during testing, the possibility of challenging the pressure integrity of the downstream Class 2 piping is reduced, the possibility of damage to pipe connections is eliminated if a hydrostatic pressure pump need not be installed.

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#### **Items C and D: Train A and B Accumulator Injection Piping**

This section of piping is pressurized to approximately 750 psig and VT-2 visually inspected as part of the RCS following each refueling outage when the plant is in hot shutdown. This section of piping is also VT-2 visually examined as part of the SI system at or near the end of the inspection interval to satisfy the hydrostatic pressure test requirement. A test pressure of approximately 2200 psig (pump discharge pressure) is used to test the SI system.

The alternative test pressure of 2200 psig at the SI pump discharge fulfills the same purpose as the test pressure required by Paragraph IWB-5221 because a check for component leakage is performed at a reduced cost while enhancing plant safety. Plant safety is enhanced when pressure testing is performed at the normal operating pressure of approximately 2200 psig (pump discharge pressure). The affected system is available to perform its intended safety function during testing, the probability of challenging the pressure integrity of an affected component or causing an inadvertent actuation of a safety/relief valve or safety feature is reduced, and the possibility of damage to pipe connections is eliminated that could cause system leakage or valve inoperability.

#### **Items E and F: Train A and B High Pressure Safety Injection Piping** **Items G and H: Train A and B Safety Injection to Reactor Vessel**

Since this piping is within the RCS test boundary, it is VT-2 visually inspected following each refueling outage when the plant is in hot shutdown. This section of piping is also VT-2 visually examined as part of the SI system at or near the end of the inspection interval to satisfy the hydrostatic pressure test requirement. A test pressure of approximately 2200 psig (pump discharge pressure) is used for testing the SI system.

The alternative test pressure of 2200 psig at the SI pump discharge, fulfills the same purpose as the test pressure required by Paragraph IWB-5221 in that a check for component leakage is accomplished at a reduced cost while plant safety is enhanced. Plant safety is enhanced when pressure testing is performed at the normal operating pressure. The affected system is available to perform its intended safety function during testing; the possibility of challenging the pressure integrity of an affected component or causing an inadvertent actuation of a safety/relief valve or safety feature is reduced; and the possibility of damage to pipe connections is eliminated that could cause system leakage or valve inoperability.

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

##### 1. Components Affected

Class 1 piping:

##### Drawing

##### Description

ISIXK100-10

Class 1 3/4" reactor vessel flange leakoff connections from reactor vessel to 3/8" reducers. (Note: Non Code piping extends from reducers to 3/8" valves RC-40A and RC-40B).

##### 2. Section XI Requirements

A VT-2 visual examination of Class 1 piping per ASME Boiler and Pressure Vessel Code, Section XI, 1998 Edition 2000 Addenda, Table IWB-2500-1, Category B-P, Item No. B15.50.

This relief request involves Code requirements that mandate performance of a VT-2 visual examination during either the system pressure test or hydrostatic pressure test. Specifically, the requirement in Paragraph IWB-5221(a) states a system leakage test shall be conducted at a pressure not less than the pressure corresponding to 100% rated reactor power i.e. Reactor Coolant System Pressure of 2235 psig.

##### 3. Basis for Requesting Relief

Pursuant to 10 CFR 50.55a(g)(5)(iii), relief is requested from the provisions of Table IWB-2500-1, Category B-P, Item No. B15.50 for performing the VT-2 visual examination using reactor coolant as a pressurizing medium at a test pressure of 2235 psig.

The reactor vessel flange leakoff lines are not pressurized to 2235 psig when the RCS is operated at 100% rated power. The design of the reactor vessel flange leakoff lines does not allow for pressurization using reactor coolant as a pressuring medium. The purpose of the reactor vessel O rings is to provide a seal between the reactor vessel and head. The reactor vessel flange leakoff lines would only experience a pressure of 2235 psig if the reactor vessel O-rings leaked. These lines are classified, as parts of systems not required to operate during normal plant operation. The lines normally see a pressure of approximately 50 psig when the reactor vessel O-rings are removed and the reactor cavity is flooded for refueling activities.

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#### 4. Alternative Method of Examination

Perform the required VT-2 visual examinations for the reactor vessel flange leakoff lines during the regularly scheduled Class 1 system pressure test that is performed following each refueling outage. The reactor vessel flange leakoff lines will not be pressurized, during the VT-2 visual examinations, to RCS pressure (2235 psig) using reactor coolant as a pressuring medium. However, the reactor vessel flange leakoff lines are filled with borated water at a pressure of approximately 50 psig, which corresponds to the static head in the reactor cavity during refueling operations. Since borated water leaves a crystalline residue, the proposed VT-2 visual examination provides reasonable assurance that through-wall leakage in the reactor vessel flange leakoff lines will be detected and corrected.

#### Relief Request No.RR-1-6

##### 1. Components Affected

Eight Class 1 circumferential pipe welds: 6 welds exempt by IWB-1220(d). Reference Section 3.0 E 1-2. 2 welds - SI-W118 and RHR-W7 require Relief Request:

I.D.	Isometric	Description	Limitation
SI-W114	ISIM-935	12" SI Accumulator Pipe To Pipe Weld	Wall Penetration
SI-W118	ISIM-935	12" SI Accumulator Pipe To Elbow Weld	Integrally Welded Rigid Restraint
SI-W62	ISIM-938-1	10" SI Accumulator Pipe To Pipe Weld	Wall Penetration
RHR-W7	ISIM-957-1SH.1	8" Residual Heat Removal Pipe To Elbow Weld	Integrally Welded Rigid Restraint
RC-W24	ISIM-1703	27.5" I.D. Reactor Coolant Pipe To Pipe Weld	Biological Shield
RC-W70	ISIM-1703	29" I.D. Reactor Coolant Pipe To Pipe Weld	Biological Shield
RC-W56	ISIM-1704	27.5" I.D. Reactor Coolant Pipe To Pipe Weld	Biological Shield
RC-W69	ISIM-1704	29" I.D. Reactor Coolant Pipe To Pipe Weld	Biological Shield

##### 2. Section XI Requirements

Volumetric and surface examinations per the 1998 Edition 2000 Addenda of Section XI, Table IWB-2500-1, Category B-J, Item B9.11.

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#### 3. Basis for Requesting Relief

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

#### 4. Alternative Method of Examination

These eight welds if required to be examined during the Fourth Interval per ASME Boiler and Pressure Vessel Code Section XI Code Case N-578 Risk-Informed Requirements for Class 1, 2, and 3 Piping Method B Section XI Division 1 will be substituted with welds of equivalent consequence rank that are identified in the Kewaunee Nuclear Power Plant Risk Based Inservice Inspection Program.

### Relief Request No. RR-1-7

#### 1. Components Affected

Pressure Retaining Dissimilar Pressure Retaining Metal Piping Welds subject to examination using procedures, personnel, and equipment qualified to ASME Section XI, Appendix VIII, Supplement 10 criteria.

<u>Component</u>	<u>Isometric</u>
SI-W112DM	ISIM-938-2Sh1
SI-W54DM	ISIM-939SH1
RC-1DM, RC-W26DM,	ISIM-1703
RC-W30DM, RC-W58DM	ISIM-1704
PS-W61DM	ISIM-874-1
RC-W67DM	ISIM-892
PR-1DM	ISIM-940-1
PR-W16DM, PR-W26DM	ISIM-940-2
RC-W76DM, RC-W77DM	ISIM-1703
RC-W78DM, RC-W79DM	ISIM-1704

#### 2. Section XI Requirements

A Volumetric examination of Dissimilar Metal Pressure Retaining Piping Welds per 1998 Edition 2000 Addenda of Section XI Table IWB-2500-1, Examination Category B-F Item No's B5.10, B5.40 and B5.70. This requires that a volumetric examination of applicable dissimilar metal pressure retaining piping welds use procedures, personnel, and equipment qualified to the criteria of ASME Section XI, 1998 Edition 2000 Addenda Appendix VIII, Supplement 10.

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The following statements or paragraphs are from ASME Section XI, Appendix VIII, Supplement 10 and identify the specific requirements that are included in this request for relief.

Item 1 - Paragraph 1.1(b) states in part - Pipe diameters within a range of 0.9 to 1.5 times a nominal diameter shall be considered equivalent.

Item 2 - Paragraph 1.1(d) states - All flaws in the specimen set shall be cracks.

Item 3 - Paragraph 1.1(d)(1) states - At least 50% of the cracks shall be in austenitic material. At least 50% of the cracks in austenitic material shall be contained wholly in weld or buttering material. At least 10% of the cracks shall be in ferritic material. The remainder of the cracks may be in either austenitic or ferritic material.

Item 4 - Paragraph 1.2(b) states in part - The number of unflawed grading units shall be at least twice the number of flawed grading units.

Item 5 - Paragraph 1.2(c)(1) and 1.3(c) state in part - At least 1/3 of the flaws, rounded to the next higher whole number, shall have depths between 10% and 30% of the nominal pipe wall thickness. Paragraph 1.4(b) distribution table requires 20% of the flaws to have depths between 10% and 30%.

Item 6 - Paragraph 2.0 first sentence states - The specimen inside surface and identification shall be concealed from the candidate.

Item 7 - Paragraph 2.2(b) states in part - The regions containing a flaw to be sized shall be identified to the candidate.

Item 8 - Paragraph 2.2(c) states in part - For a separate length sizing test, the regions of each specimen containing a flaw to be sized shall be identified to the candidate.

Item 9 - Paragraph 2.3(a) states - For the depth sizing test, 80% of the flaws shall be sized at a specific location on the surface of the specimen identified to the candidate.

Item 10 - Paragraph 2.3(b) states - For the remaining flaws, the regions of each specimen containing a flaw to be sized shall be identified to the candidate. The candidate shall determine the maximum depth of the flaw in each region.

Item 11 - Table VIII-S2-1 provides the false call criteria when the number of unflawed grading units is at least twice the number of flawed grading units.

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### Relief Requests

#### 3. Basis for Requesting Relief

The proposed alternative is based on forthcoming Code action and was generated from a PDI model prepared by EPRI.

#### 4. Alternative Methods of Examination

Pursuant to the requirements of 10 CFR 50.55a(a)(3)(i), relief is requested to use the following alternative requirements for implementation of Appendix VIII, Supplement 10 requirements. **Procedures, personnel and equipment will be implemented through the EPRI Performance Demonstration Initiative (PDI) Program.** A copy of the proposed revision to Supplement 10 is attached. It identifies the proposed alternatives and allows them to be viewed in context. It also identifies additional clarifications and enhancements for information. It has been submitted to the ASME Code for consideration and as of September 2002 had been approved by the NDE Subcommittee.

Item 1 - Proposed alternative to Paragraph 1.1(b) states:

"The specimen set shall include the minimum and maximum pipe diameters and thicknesses for which the examination procedure is applicable. Pipe diameters within 1/2 in. (13 mm) of the nominal diameter shall be considered equivalent. Pipe diameters larger than 24 in. (610 mm) shall be considered to be flat. When a range of thicknesses is to be examined, a thickness tolerance of  $\pm 25\%$  is acceptable."

Technical Basis - The change in the minimum pipe diameter tolerance from 0.9 times the diameter to within 1/2 inch of the nominal diameter provides tolerances more in line with industry practice. Though the alternative is less stringent for small pipe diameters they typically have a thinner wall thickness than larger diameter piping. A thinner wall thickness results in shorter sound path distances that reduce the detrimental effects of the curvature. This change maintains consistency between Supplement 10 and the recent revision to Supplement 2.

Item 2 - Proposed alternative to Paragraph 1.1(d) states:

"At least 60% of the flaws shall be cracks, the remainder shall be alternative flaws. Specimens with IGSCC shall be used when available. Alternative flaws, shall meet the following requirements:

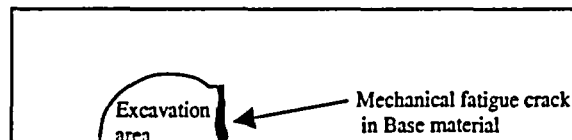
- (1) Alternative flaws, if used, shall provide crack-like reflective characteristics and shall only be used when implantation of cracks would produce spurious reflectors that are uncharacteristic of service-induced flaws.
- (2) Alternative flaw mechanisms shall have a tip width no more than 0.002 in. (.05 mm).

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Note, to avoid confusion the proposed alternative modifies instances of the term "cracks" or "cracking" to the term "flaws" because of the use of alternative flaw mechanisms."

Technical Basis - As illustrated below, implanting a crack requires excavation of the base material on at least one side of the flaw. While this may be satisfactory for ferritic materials, it does not produce a useable axial flaw in austenitic materials because the sound beam, which normally passes only through base material, must now travel through weld material on at least one side, producing an unrealistic flaw response. In addition, it is important to preserve the dendritic structure present in field welds that would otherwise be destroyed by the implantation process. To resolve these issues, the proposed alternative allows the use of up to 40% fabricated flaws as an alternative flaw mechanism under controlled conditions. The fabricated flaws are isostatically compressed which produces ultrasonic reflective characteristics similar to tight cracks.



Item 3 - Proposed alternative to Paragraph 1.1(d)(1) states:

"At least 80% of the flaws shall be contained wholly in weld or buttering material. At least one and no more than 10% of the flaws shall be in ferritic base material. At least one and no more than 10% of the flaws shall be in austenitic base material."

Technical Basis - Under the current Code, as few as 25% of the flaws are contained in austenitic weld or buttering material. Recent experience has indicated that flaws contained within the weld are the likely scenarios. The metallurgical structure of austenitic weld material is ultrasonically more challenging than either ferritic or austenitic base material. The proposed alternative is therefore more challenging than the current Code.

Item 4 - Proposed alternative to Paragraph 1.2(b) states:

"Personnel performance demonstration detection test sets shall be selected from Table VIII-S10-1. The number of unflawed grading units shall be at least 1-1/2 times the number of flawed grading units."

Technical Basis - Table VIII-S10-1 provides a statistically based ratio between the number of unflawed grading units and the number of flawed grading units. The proposed alternative reduces the ratio to 1.5 times. This reduces the number of test samples to a more reasonable number from the human factors perspective. However, the statistical basis used for screening personnel and procedures is still maintained at the same level with competent personnel being successful and less skilled personnel being unsuccessful. The acceptance criteria for the statistical basis are in Table VIII-S10-1.

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Item 5 - The proposed alternative to the flaw distribution requirements of Paragraph 1.2(c)(1) (detection) and 1.3(c) (length) is to use the Paragraph 1.4(b) (depth) distribution table (see below) for all qualifications.

<u>Flaw Depth % Wall Thickness</u>	<u>Minimum Number of Flaws</u>
10-30%	20%
31-60%	20%
61-100%	20%

Technical Basis - The proposed alternative uses the depth sizing distribution for both detection and depth sizing because it provides for a better distribution of flaw sizes within the test set. This distribution allows candidates to perform detection, length, and depth sizing demonstrations simultaneously utilizing the same test set. The requirement that at least 75% of the flaws shall be in the range of 10 to 60% of wall thickness provides an overall distribution tolerance yet the distribution uncertainty decreases the possibilities for testmanship that would be inherent to a uniform distribution. It must be noted that it is possible to achieve the same distribution utilizing the present requirements, but it is preferable to make the criteria consistent.

Item 6 - Proposed alternative to Paragraph 2.0 first sentence states:

"For qualifications from the outside surface, the specimen inside surface and identification shall be concealed from the candidate. When qualifications are performed from the inside surface, the flaw location and specimen identification shall be obscured to maintain a "blind test"."

Technical Basis - The current Code requires that the inside surface be concealed from the candidate. This makes qualifications conducted from the inside of the pipe (e.g., PWR nozzle to safe end welds) impractical. The proposed alternative differentiates between ID and OD scanning surfaces, requires that they be conducted separately, and requires that flaws be concealed from the candidate. This is consistent with the recent revision to Supplement 2.

Items 7 and 8 - Proposed alternatives to Paragraph 2.2(b) and 2.2(c) states:

"... containing a flaw to be sized may be identified to the candidate."

Technical Basis - The current Code requires that the regions of each specimen containing a flaw to be length sized shall be identified to the candidate. The candidate shall determine the length of the flaw in each region (Note, that length and depth sizing use the term "regions" while detection uses the term "grading units" - the two terms define different concepts and are not intended to be equal or interchangeable). To ensure security of the samples, the proposed alternative modifies the first "shall" to a "may" to allow the test administrator the option of not identifying specifically where a flaw is located. This is consistent with the recent revision to Supplement 2.

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Items 9 and 10 - Proposed alternative to Paragraph 2.3(a) and 2.3(b) states:

"... regions of each specimen containing a flaw to be sized may be identified to the candidate."

Technical Basis - The current Code requires that a large number of flaws be sized at a specific location. The proposed alternative changes the "shall" to a "may" which modifies this from a specific area to a more generalized region to ensure security of samples. This is consistent with the recent revision to Supplement 2. It also incorporates terminology from length sizing for additional clarity.

Item 11 - The proposed alternative modifies the acceptance criteria of Table VIII-S2-1 as follows:

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TABLE VIII-S2-1  
PERFORMANCE DEMONSTRATION DETECTION TEST  
ACCEPTANCE CRITERIA

Detection Test Acceptance Criteria		False Call Test Acceptance Criteria	
No. of Flawed Grading Units	Minimum Detection Criteria	No. of Unflawed Grading Units	Maximum Number of False Calls
<del>5</del>	<del>5</del>	<del>10</del>	<del>0</del>
<del>6</del>	<del>6</del>	<del>12</del>	<del>1</del>
<del>7</del>	<del>6</del>	<del>14</del>	<del>1</del>
<del>8</del>	<del>7</del>	<del>16</del>	<del>2</del>
<del>9</del>	<del>7</del>	<del>18</del>	<del>2</del>
10	8	<del>20</del> 15	<del>3</del> 2
11	9	<del>22</del> 17	<del>3</del> 3
12	9	<del>24</del> 18	<del>3</del> 3
13	10	<del>26</del> 20	<del>4</del> 3
14	10	<del>28</del> 21	<del>5</del> 3
15	11	<del>30</del> 23	<del>5</del> 3
16	12	<del>32</del> 24	<del>6</del> 4
17	12	<del>34</del> 26	<del>6</del> 4
18	13	<del>36</del> 27	<del>7</del> 4
19	13	<del>38</del> 29	<del>7</del> 4
20	14	<del>40</del> 30	<del>8</del> 5

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Technical Basis - The proposed alternative is identified as new Table S10-1 above. It was modified to reflect the reduced number of unflawed grading units and allowable false calls. As part of ongoing Code activities, Pacific Northwest National Laboratory (PNNL) has reviewed the statistical significance of these revisions and offered the revised Table S10-1.

Current Requirement	Proposed Change	Reasoning
	<b>1.0 SCOPE</b>	
	Supplement 10 is applicable to dissimilar metal piping welds examined from either the inside or outside surface. Supplement 10 is not applicable to piping welds containing supplemental corrosion resistant clad (CRC) applied to mitigate Intergranular Stress Corrosion Cracking (IGSCC).	A scope statement provides added clarity regarding the applicable range of each individual Supplement. The exclusion of CRC provides consistency between Supplement 10 and the recent revision to Supplement 2 (Reference BC 00-755). Note, an additional change identifying CRC as "in course of preparation" is being processed separately.
<b>1.0 SPECIMEN REQUIREMENTS</b>	<b>2.0 SPECIMEN REQUIREMENTS</b>	Renumbered
Qualification test specimens shall meet the requirements listed herein, unless a set of specimens is designed to accommodate specific limitations stated in the scope of the examination procedure (e.g., pipe size, weld joint configuration, access limitations). The same specimens may be used to demonstrate both detection and sizing qualification.	Qualification test specimens shall meet the requirements listed herein, unless a set of specimens is designed to accommodate specific limitations stated in the scope of the examination procedure (e.g., pipe size, weld joint configuration, access limitations). The same specimens may be used to demonstrate both detection and sizing qualification.	No Change

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Current Requirements	Proposed Change	Reasoning
<b>1. 1 General.</b> The specimen set shall conform to the following requirements.	<b>2.1 General.</b>  The specimen set shall conform to the following requirements.	Renumbered
	(a) The minimum number of flaws in a specimen set shall be ten.	New, changed minimum number of flaws to 10 so sample set size for detection is consistent with length and depth sizing.
(a) Specimens shall have sufficient volume to minimize spurious reflections that may interfere with the interpretation process.	(b) Specimens shall have sufficient volume to minimize spurious reflections that may interfere with the interpretation process.	Renumbered
(b) The specimen set shall include the minimum and maximum pipe diameters and thicknesses for which the examination procedure is applicable. Pipe diameters within a range of 0.9 to 1.5 times a nominal diameter shall be considered equivalent. Pipe diameters larger than 24 in. shall be considered to be flat. When a range of thicknesses is to be examined, a thickness tolerance of $\pm 25\%$ is acceptable.	(c) The specimen set shall include the minimum and maximum pipe diameters and thicknesses for which the examination procedure is applicable. Pipe diameters within 1/2 in. (13 mm) of the nominal diameter shall be considered equivalent. Pipe diameters larger than 24 in. (610 mm) shall be considered to be flat. When a range of thicknesses is to be examined, a thickness tolerance of $\pm 25\%$ is acceptable.	Renumbered, metricated, the change in pipe diameter tolerance provides consistency between Supplement 10 and the recent revision to Supplement 2 (Reference BC 00-755).
(c) The specimen set shall include examples of the following fabrication condition:	(d) The specimen set shall include examples of the following fabrication conditions:	Renumbered, changed "condition" to "conditions".

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Current Requirement	Proposed Change	Reasoning
(1) geometric conditions that normally require discrimination from flaws (e.g., counterbore or weld root conditions, cladding, weld buttering, remnants of previous welds, adjacent welds in close proximity);	(1) <b>geometric and material</b> conditions that normally require discrimination from flaws (e.g., counterbore or weld root conditions, cladding, weld buttering, remnants of previous welds, adjacent welds in close proximity, <b>weld repair areas</b> );	Clarification, some of the items listed relate to material conditions rather than geometric conditions. Weld repair areas were added as a result of recent field experiences.
(2) typical limited scanning surface conditions (e.g., diametrical shrink, single-side access due to nozzle and safe end external tapers).	(2) typical limited scanning surface conditions shall be included as follows:  (a) for outside surface examination, <b>weld crowns</b> , diametrical shrink, single-side access due to nozzle and safe end external tapers  (b) for inside surface examination, <b>internal tapers</b> , <b>exposed weld roots</b> , and <b>cladding conditions for inside surface examinations</b> .  (e) <b>Qualification requirements shall be satisfied separately for outside surface and inside surface examinations</b> .	Differentiates between ID and OD scanning surface limitations. Requires that ID and OD qualifications be conducted independently (Note, new paragraph 2.0 (identical to old paragraph 1.0) provides for alternatives when "a set of specimens is designed to accommodate specific limitations stated in the scope of the examination procedure.").

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Current Requirements	Proposed Change	Reasoning
(d) All flaws in the specimen set shall be cracks.		Deleted this requirement, because new paragraph 2.3 below provides for the use of "alternative flaws" in lieu of cracks.
(1) At least 50% of the cracks shall be in austenitic material. At least 50% of the cracks in austenitic material shall be contained wholly in weld or buttering material. At least 10% of the cracks shall be in ferritic material. The remainder of the cracks may be in either austenitic or ferritic material.	<p><b>2.2 Flaw Location.</b></p> <p>At least 80% of the flaws shall be contained wholly in weld or buttering material. At least one and no more than 10% of the flaws shall be in ferritic base material. At least one and no more than 10% of the flaws shall be in austenitic base material.</p>	Renumbered and re-titled. Flaw location percentages redistributed because field experience indicates that flaws contained in weld or buttering material are probable and represent the more stringent ultrasonic detection scenario.
(2) At least 50% of the cracks in austenitic base material shall be either IGSCC or thermal fatigue cracks. At least 50% of the cracks in ferritic material shall be mechanically or thermally induced fatigue cracks.	<p><b>2.3 Flaw Type.</b></p> <p>(a) At least 60% of the flaws shall be cracks, and the remainder shall be alternative flaws. Specimens with IGSCC shall be used when available. Alternative flaws shall meet the following requirements.</p> <p>(1) Alternative flaws, if used, shall provide crack-like reflective characteristics and shall only be used when implantation of cracks would produce spurious reflectors that are uncharacteristic of service-induced flaws.</p> <p>(2) Alternative flaws shall have a tip width no more than 0.002 in. (.05 mm).</p>	<p>Renumbered and re-titled. Alternative flaws are required for placing axial flaws in the HAZ of the weld and other areas where implantation of a crack produces metallurgical conditions that result in an unrealistic ultrasonic response. This is consistent with the recent revision to Supplement 2 (Reference BC 00-755).</p> <p>The 40% limit on alternative flaws is needed to support the requirement for up to 70% axial flaws. Metricated</p>

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Current Requirements	Proposed Change	Reasoning								
(3) At least 50% of the cracks shall be coincident with areas described in (c) above.	(b) At least 50% of the flaws shall be coincident with areas described in 2.1(d) above.	Renumbered. Due to inclusion of “alternative flaws”, use of “cracks” is no longer appropriate.								
(3) At least 50% of the cracks shall be coincident with areas described in (c) above.	(b) At least 50% of the flaws shall be coincident with areas described in 2.1(d) above.	Renumbered. Due to inclusion of “alternative flaws”, use of “cracks” is no longer appropriate.								
	<p><b>2.4 Flaw Depth.</b></p> <p>All flaw depths shall be greater than 10% of the nominal pipe wall thickness. Flaw depths shall exceed the nominal clad thickness when placed in cladding. Flaws in the sample set shall be distributed as follows:</p> <table><tr><td><b>Flaw Depth</b> <b>(% Wall Thickness)</b></td><td><b>Minimum</b> <b>Number</b> <b>of Flaws</b></td></tr><tr><td>10-30%</td><td>20%</td></tr><tr><td>31-60%</td><td>20%</td></tr><tr><td>61-100%</td><td>20%</td></tr></table> <p>At least 75% of the flaws shall be in the range of 10 to 60% of wall thickness.</p>	<b>Flaw Depth</b> <b>(% Wall Thickness)</b>	<b>Minimum</b> <b>Number</b> <b>of Flaws</b>	10-30%	20%	31-60%	20%	61-100%	20%	<p>Moved from old paragraph 1.3(c) and 1.4 and re-titled. Consistency between detection and sizing specimen set requirements (e.g., 20% vs. 1/3 flaw depth increments, e.g., original paragraph 1.3(c))</p>
<b>Flaw Depth</b> <b>(% Wall Thickness)</b>	<b>Minimum</b> <b>Number</b> <b>of Flaws</b>									
10-30%	20%									
31-60%	20%									
61-100%	20%									

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### Relief Requests

Current Requirements	Proposed Change	Reasoning
<b>1.2 Detection Specimens.</b> The specimen set shall include detection specimens that meet the following requirements.		Renumbered and re-titled and moved to paragraph 3.1(a). No other changes
(a) Specimens shall be divided into grading units. Each grading unit shall include at least 3 in. of weld length. If a grading unit is designed to be unflawed, at least 1 in. of unflawed material shall exist on either side of the grading unit. The segment of weld length used in one grading unit shall not be used in another grading unit. Grading units need not be uniformly spaced around the pipe specimen.		Renumbered to paragraph 3.1(a)(1). No other changes.
(b) Detection sets shall be selected from Table VIII-S2-1. The number of unflawed grading units shall be at least twice the number of flawed grading units.		Moved to new paragraph 3.1(a)(2).
(c) Flawed grading units shall meet the following criteria for flaw depth, orientation, and type.		Flaw depth requirements moved to new paragraph 2.4, flaw orientation requirements moved to new paragraph 2.5, flaw type requirements moved to new paragraph 2.3, "Flaw Type."

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Current Requirements	Proposed Change	Reasoning
(1) All flaw depths shall be greater than 10% of the nominal pipe wall thickness. At least 1/3 of the flaws, rounded to the next higher whole number, shall have depths between 10% and 30% of the nominal pipe wall thickness. However, flaw depths shall exceed the nominal clad thickness when placed in cladding. At least 1/3 of the flaws, rounded to the next whole number, shall have depths greater than 30% of the nominal pipe wall thickness.		Deleted, for consistency in sample sets the depth distribution is the same for detection and sizing.
(2) At least 30% and no more than 70% of the flaws, rounded to the next higher whole number, shall be oriented axially. The remainder of the flaws shall be oriented circumferentially.	<b>2.5 Flaw Orientation.</b>  (a) For other than sizing specimens at least 30% and no more than 70% of the flaws, rounded to the next higher whole number, shall be oriented axially. The remainder of the flaws shall be oriented circumferentially.	Note, this distribution is applicable for detection and depth sizing. Paragraph 2.5(b)(1) requires that all length- sizing flaws be oriented circumferentially.
<b>1.3 Length Sizing Specimens.</b> The specimen set shall include length sizing specimens that meet the following requirements.		Renumbered and re-titled and moved to new paragraph 3.2
(a) All length sizing flaws shall be oriented circumferentially.		Moved, included in new paragraph 3.2(a)
(b) The minimum number of flaws shall be ten.		Moved, included in new paragraph 2.1 above

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
(c) All flaw depths shall be greater than 10% of the nominal pipe wall thickness. At least 1/3 of the flaws, rounded to the next higher whole number, shall have depths between 10% and 30% of the nominal pipe wall thickness. However, flaw depth shall exceed the nominal clad thickness when placed in cladding. At least 1/3 of the flaws, rounded to the next whole number, shall have depths greater than 30% of the nominal pipe wall thickness.		Moved, included in new paragraph 2.4 above after revision for consistency with detection distribution
<b>1.4 Depth Sizing Specimens.</b> The specimen set shall include depth-sizing specimens that meet the following requirements.		Moved, included in new paragraphs 2.1, 2.3, 2.4
(a) The minimum number of flaws shall be ten.		Moved, included in new paragraph 2.1
(b) Flaws in the sample set shall not be wholly contained within cladding and shall be distributed as follows:		Moved, potential conflict with old paragraph 1.2(c)(1); "However, flaw depths shall exceed the nominal clad thickness when placed in cladding." Revised for clarity and included in new paragraph 2.4.

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>Flaw Depth (%Wall Thickness)</b> </div> <div style="width: 45%;"> <b>Minimum Number of Flaws</b> </div> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <span>10-30%</span> <span>20%</span> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <span>31-60%</span> <span>20%</span> </div> <div style="display: flex; justify-content: space-between;"> <span>61-100%</span> <span>20%</span> </div> </div> <p>The remaining flaws shall be in any of the above categories.</p>		<p>Moved, included in paragraph 2.4 for consistent applicability to detection and sizing samples.</p>
	<p><b>(b) Sizing Specimen sets shall meet the following requirements.</b></p>	<p>Added for clarity</p>
	<p><b>(1) Length-sizing flaws shall be oriented circumferentially.</b></p>	<p>Moved from old paragraph 1.3(a)</p>
	<p><b>(2) Depth sizing flaws shall be oriented as in 2.5(a).</b></p>	<p>Included for clarity. Previously addressed by omission (i.e., length, but not depth had a specific exclusionary statement)</p>

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
<b>2.0 CONDUCT OF PERFORMANCE DEMONSTRATION</b>	<b>3.0 CONDUCT OF PERFORMANCE DEMONSTRATION</b>	Renumbered
<p>The specimen inside surface and identification shall be concealed from the candidate. All examinations shall be completed prior to grading the results and presenting the results to the candidate. Divulgence of particular specimen results or candidate viewing of unmasked specimens after the performance demonstration is prohibited.</p>	<p><b>Personnel and procedure performance demonstration tests shall be conducted according to the following requirements.</b></p> <p><b>(a) For qualifications from the outside surface, the specimen inside surface and identification shall be concealed from the candidate. When qualifications are performed from the inside surface, the flaw location and specimen identification shall be obscured to maintain a "blind test". All examinations shall be completed prior to grading the results and presenting the results to the candidate. Divulgence of particular specimen results or candidate viewing of unmasked specimens after the performance demonstration is prohibited.</b></p>	<p>Differentiate between qualifications conducted from the outside and inside surface.</p>
<b>2.1 Detection Test. Flawed and unflawed grading units shall be randomly mixed</b>	<b>3.1 Detection Qualification.</b>	Renumbered, moved text to paragraph 3.1(a)(3).
	<p><b>(a) The specimen set shall include detection specimens that meet the following requirements</b></p>	Renumbered, moved from old paragraph 1.2.

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
	<p>(1) Specimens shall be divided into grading units.</p> <p>(a) Each grading unit shall include at least 3 in. (76 mm) of weld length.</p> <p>(b) The end of each flaw shall be separated from an unflawed grading unit by at least 1 in. (25mm) of unflawed material. A flaw may be less than 3 in. (76mm) in length.</p> <p>(c) The segment of weld length used in one grading unit shall not be used in another grading unit.</p> <p>(d) Grading units need not be uniformly spaced around the pipe specimen.</p>	<p>Renumbered, moved from old paragraph 1.2(a). Metricated. No other changes.</p>
	<p>(2) Personnel performance demonstration detection test sets shall be selected from Table VIII-S10-1. The number of unflawed grading units shall be at least 1-1/2 times the number of flawed grading units.</p>	<p>Moved from old paragraph 1.2(b). Table revised to reflect a change in the minimum sample set to 10 and the application of equivalent statistical false call parameters to the reduction in unflawed grading units.</p> <p>Human factors due to large sample size.</p>

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
	(3) Flawed and unflawed grading units shall be randomly mixed.	Moved from old paragraph 2.1
	(b) Examination equipment and personnel are qualified for detection when <b>personnel demonstrations</b> satisfy the acceptance criteria of Table <b>VIII S10-1</b> for both detection and false calls.	Moved from old paragraph 3.1. Modified to reflect the 100% detection acceptance criteria of procedures versus personnel and equipment contained in new paragraph 4.0 and the use of 1.5X rather than 2X unflawed grading units contained in new paragraph 3.1(a)(2). Note, the modified table maintains the screening criteria of the original Table VIII-S2-1.
<b>2.2 Length Sizing Test</b>	<b>3.2 Length Sizing Test</b>	Renumbered
(a) The length sizing test may be conducted separately or in conjunction with the detection test.	(a) Each reported <b>circumferential flaw in the detection test shall be length-sized.</b>	Provides consistency between Supplement 10 and the recent revision to Supplement 2 (Reference BC 00-755).

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
(b) When the length sizing test is conducted in conjunction with the detection test, and less than ten circumferential flaws are detected, additional specimens shall be provided to the candidate such that at least ten flaws are sized. The regions containing a flaw to be sized shall be identified to the candidate. The candidate shall determine the length of the flaw in each region.	(b) When the length-sizing test is conducted in conjunction with the detection test, and less than ten circumferential flaws are detected, additional specimens shall be provided to the candidate such that at least ten flaws are sized. The regions containing a flaw to be sized may be identified to the candidate. The candidate shall determine the length of the flaw in each region.	<p>Change made to ensure security of samples, consistent with the recent revision to Supplement 2 (Reference BC 00-755).</p> <p>Note, length and depth sizing use the term “regions” while detection uses the term “grading units”. The two terms define different concepts and are not intended to be equal or interchangeable.</p>
(c) For a separate length sizing test, the regions of each specimen containing a flaw to be sized shall be identified to the candidate. The candidate shall determine the length of the flaw in each region.	(c) For a separate length-sizing test, the regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the length of the flaw in each region.	<p>Change made to ensure security of samples, consistent with the recent revision to Supplement 2 (Reference BC 00-755).</p>
	(d) Examination procedures, equipment, and personnel are qualified for length-sizing when the RMS error of the flaw length measurements, as compared to the true flaw lengths, do not exceed 0.75 in. (19 mm).	<p>Moved from old paragraph 3.2(a) includes inclusion of “when” as an editorial change.</p> <p>Metricated.</p>

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
<b>2.3 Depth Sizing Test</b>	<b>3.3 Depth Sizing Test</b>	Renumbered
(a) For the depth sizing test, 80% of the flaws shall be sized at a specific location on the surface of the specimen identified to the candidate.	(a) The depth-sizing test may be conducted separately or in conjunction with the detection test. For a separate depth-sizing test, the regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the maximum depth of the flaw in each region.	Change made to ensure security of samples, consistent with the recent revision to Supplement 2 (Reference BC 00-755).
(b) For the remaining flaws, the regions of each specimen containing a flaw to be sized shall be identified to the candidate. The candidate shall determine the maximum depth of the flaw in each region.	(b) When the depth-sizing test is conducted in conjunction with the detection test, and less than ten flaws are detected, additional specimens shall be provided to the candidate such that at least ten flaws are sized. The regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the maximum depth of the flaw in each region.	Change made to be consistent with the recent revision to Supplement 2 (Reference BC 00-755).  Changes made to ensure security of samples, consistent with the recent revision to Supplement 2 (Reference BC 00-755).
	(c) Examination procedures, equipment, and personnel are qualified for depth sizing when the RMS error of the flaw depth measurements, as compared to the true flaw depths, do not exceed 0.125 in. (3 mm).	Moved from old paragraph 3.2(b). Metricated.

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
<b>3.0 ACCEPTANCE CRITERIA</b>		Delete as a separate category. Moved to new paragraph detection (3.1) and sizing 3.2 and 3.3.
<b>3.1 Detection Acceptance Criteria.</b> Examination procedures, equipment, and personnel are qualified for detection when the results of the performance demonstration satisfy the acceptance criteria of Table VIII-S2-1 for both detection and false calls.		Moved to new paragraph 3.1(b), reference changed to Table S10 from S2 because of the change in the minimum number of flaws and the reduction in unflawed grading units from 2X to 1.5X.
<b>3.2 Sizing Acceptance Criteria</b>		Deleted as a separate category. Moved to new paragraph on length 3.2 and depth 3.3.
(a) Examination procedures, equipment, and personnel are qualified for length sizing the RMS error of the flaw length measurements, as compared to the true flaw lengths, is less than or equal to 0.75 inch.		Moved to new paragraph 3.2(d), included word "when" as an editorial change.
(b) Examination procedures, equipment, and personnel are qualified for depth sizing when the RMS error of the flaw depth measurements, as compared to the true flaw depths, is less than or equal to 0.125 in.		Moved to new paragraph 3.3(c).

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### Relief Requests

Current Requirement	Proposed Change	Reasoning
	<b>4.0 PROCEDURE QUALIFICATION</b>	New
	<p>Procedure qualifications shall include the following additional requirements.</p> <p>(a) The specimen set shall include the equivalent of at least three personnel performance demonstration test sets. Successful personnel performance demonstrations may be combined to satisfy these requirements.</p> <p>(b) Detectability of all flaws in the procedure qualification test set that are within the scope of the procedure shall be demonstrated. Length and depth sizing shall meet the requirements of paragraphs 3.1, 3.2 and 3.3.</p> <p>(c) At least one successful personnel demonstration has been performed.</p> <p>(d) To qualify new values of essential variables, at least one personnel qualification set is required. The acceptance criteria of 4.0(b) shall be met.</p>	<p>New. Based on experience gained in conducting qualifications, the equivalent of 3 personnel sets (i.e., a minimum of 30 flaws) is required to provide enough flaws to adequately test the capabilities of the procedure. Combining successful demonstrations allows a variety of examiners to be used to qualify the procedure. Detectability of each flaw within the scope of the procedure is required to ensure an acceptable personnel pass rate. The last sentence is equivalent to the previous requirements and is satisfactory for expanding the essential variables of a previously qualified procedure</p>

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TABLE VIII-SZ-1  
PERFORMANCE DEMONSTRATION DETECTION TEST  
ACCEPTANCE CRITERIA

Detection Test Acceptance Criteria		False Call Test Acceptance Criteria	
No. of Flawed Grading Units	Minimum Detection Criteria	No. of Unflawed Grading Units	Maximum Number of False Calls
<del>5</del>	5	<del>10</del>	<del>0</del>
<del>6</del>	6	<del>12</del>	<del>1</del>
<del>7</del>	6	<del>14</del>	<del>1</del>
<del>8</del>	7	<del>16</del>	<del>2</del>
<del>9</del>	7	<del>18</del>	<del>2</del>
10	8	<del>20</del> 15	<del>3</del> 2
11	9	<del>22</del> 17	<del>3</del> 3
12	9	<del>24</del> 18	<del>3</del> 3
13	10	<del>26</del> 20	<del>4</del> 3
14	10	<del>28</del> 21	<del>5</del> 3
15	11	<del>30</del> 23	<del>5</del> 3
16	12	<del>32</del> 24	<del>6</del> 4
17	12	<del>34</del> 26	<del>6</del> 4
18	13	<del>36</del> 27	<del>7</del> 4
19	13	<del>38</del> 29	<del>7</del> 4
20	14	<del>40</del> 30	<del>8</del> 5

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### Relief Requests

#### Relief Request No. RR-1-8

##### 1. Components Affected

ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Table IWB-2500-1, Examination Category B-F, Item No. B5.10 Class 1 Pressure Retaining Piping Welds examined from the inside surface of Pressurized Water Reactors using procedures, personnel, and equipment qualified to ASME Section XI 1998 Edition 2000 Addenda, Appendix VIII, Supplement 2 and Supplement 10 criteria.

<u>Component</u>	<u>Isometric</u>
RC-W1DM	ISIM-1703
RC-W26DM	ISIM-1703
RC-W30DM	ISIM-1704
RC-W58DM	ISIM-1704
SI-W54DM	ISIM-939SH1
SI-W112DM	ISIM-938-2SH1

##### 2. Section XI Requirements

Relief is requested from the qualification requirements for piping welds contained in Table VIII-3110-1 of Appendix VIII to ASME Section XI for Supplement 2 as applicable for Wrought Austenitic Piping Welds.

##### 3. Basis for Requesting Relief

The Kewaunee Nuclear Power Plant reactor vessel nozzles (4) to main coolant piping and reactor vessel nozzles (2) to safety injection piping are fabricated using ferritic components and assembled using austenitic or dissimilar metal welds. Additionally, differing combinations of these assemblies may be in close proximity, which typically means the same ultrasonic essential variables are used for each weld and the most challenging ultrasonic examination process is employed (e.g., the ultrasonic examination process associated with a dissimilar metal weld would be applied to an austenitic weld).

Separate qualifications to Supplements 2 and 10 are redundant when done in accordance with the PDI Program. For example, during a personnel qualification to the PDI Program, the candidate would be exposed to a minimum of 10 flawed grading units for each individual supplement. Personnel qualification to Supplements 2 and 10 would therefore require a total of 20 flawed grading units. Test sets this large and tests of this duration are impractical. Additionally, a full procedure qualification (i.e. 2 personnel qualifications) to the PDI Program requirements would require 60 flawed grading units. This is particularly burdensome for a procedure that will use the same essential variables or the same criteria for selecting essential variables for the 2 supplements.

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### Relief Requests

To resolve these issues, the PDI Program recognizes the Supplement 10 qualification as the most stringent and technically challenging ultrasonic application. The essential variables used for the examination of Supplements 2 and 10 are the same. A coordinated add-on implementation would be sufficiently stringent to qualify Supplement 2 if the requirements used to qualify Supplement 10 are satisfied as a prerequisite. The basis for this conclusion is the fact that the majority of the flaws in Supplement 10 are located wholly in austenitic weld material. This configuration is known to be challenging for ultrasonic techniques due to the variable dendritic structure of the weld material. Conversely, flaws in Supplement 2 initiate in fine-grained base materials.

Additionally, the proposed alternative is more stringent than current Code requirements for a detection and length sizing qualification. For example, the current Code would allow a detection procedure, personnel, and equipment to be qualified to Supplement 10 with 5 flaws and Supplement 2 with 5 flaws, a total of only 10 flaws. The proposed alternative of qualifying Supplement 10 using 10 flaws and adding on Supplement 2 with 5 flaws results in a total of 15 flaws which will be multiplied by a factor of 3 for the procedure qualification.

Based on the above, the use of a limited number of Supplement 2 flaws is sufficient to access the capabilities of procedures and personnel who have already satisfied Supplement 10 requirements. The statistical basis used for screening personnel and procedures is still maintained at the same level with competent personnel being successful and less skilled personnel being unsuccessful. The proposed alternative is consistent with other coordinated qualifications currently contained in Appendix VIII.

The proposed alternate program is attached and is identified as Supplement 14. It has been submitted to the ASME Code for consideration as new Supplement 14 to Appendix VIII and as of February 2002 has been approved by Subcommittee on Nuclear Inservice Inspection.

#### 4. Alternative Methods of Examination

Relief is to use the enclosed proposed alternative for implementation of Appendix VIII, Supplement 2 as coordinated with the proposed alternative for the Supplement 10 implementation program (Reference Relief Request RR-1-7). The Performance Demonstration Initiative (PDI) will administer the alternative program.

In lieu of the requirements of ASME Section XI, 1998 Edition 2000 Addenda for the 4<sup>th</sup> Ten Year Interval Appendix VIII, Table VIII-3110-1, the Performance Demonstration Initiative (PDI) Program for implementation of Appendix VIII, Supplement 2 as coordinated with the alternative PDI Supplement 10 implementation program shall be used.

Pursuant to 10 CFR 50.55a(a)(3)(i), approval is requested to use the proposed alternatives described above in lieu of the ASME Section XI, Appendix VIII, Supplement 2 requirements. Compliance with the proposed alternatives will provide an adequate level of quality and safety for examination of the affected welds.

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SUPPLEMENT 14 - QUALIFICATION REQUIREMENTS FOR COORDINATED IMPLEMENTATION OF SUPPLEMENT 2 AND 10 FOR PIPING EXAMINATIONS PERFORMED FROM THE INSIDE SURFACE	
Proposed Requirements	Technical Basis
<b>1.0 SCOPE</b>	
<p>This Supplement is applicable to wrought austenitic and dissimilar metal piping welds examined from the inside surface. This Supplement provides for expansion of Supplement 10 qualifications to permit coordinated qualification for Supplement 2.</p>	<p>There is currently no available Code action allowing for a coordinated implementation of the fundamental qualifications required for the typical examinations performed from the ID of PWR nozzles. Without this change, qualifications would require an excessive amount of flawed and unflawed grading units. This proposed supplement uses the more technically stringent Supplement 10 qualification as a base and then incorporates a limited number of Supplement 2 samples. This proposal is consistent with the philosophy of Supplement 12, the proposed changes to Supplement 10, and the approved changes to Supplement 2 and 11.</p>
<b>2.0 SPECIMEN REQUIREMENTS</b>	
<p>Qualification test specimens shall meet the requirements listed herein, unless a set of specimens is designed to accommodate specific limitations stated in the scope of the examination procedure (e.g., pipe size, access limitations). The same specimens may be used to demonstrate both detection and sizing qualification.</p>	
<b>2.1 General</b> The specimen set shall conform to the following requirements.	
(a) Specimens shall have sufficient volume to minimize spurious reflections that may interfere with the interpretation process.	
(b) The specimen set shall include the minimum and maximum pipe diameters and thicknesses for which the examination procedure is applicable. Applicable tolerances are provided in Supplements 2 and 10.	<p>Tolerances are from the applicable Supplements because Supplement 2 dimensions and tolerances are typically based on wrought nominal pipe size that is not appropriate for DM welds that are typically associated with forged and machined safe ends.</p>

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### Relief Requests

<b>SUPPLEMENT 14 - QUALIFICATION REQUIREMENTS FOR COORDINATED IMPLEMENTATION OF SUPPLEMENT 2 AND 10 FOR PIPING EXAMINATIONS PERFORMED FROM THE INSIDE SURFACE</b>	
<b>Proposed Requirements</b>	<b>Technical Basis</b>
<p>(c) The specimen set shall include examples of the following fabrication conditions:</p> <ul style="list-style-type: none"><li>(1) geometric and material conditions that normally require discrimination from flaws (e.g., counterbore or weld root conditions, cladding, weld buttering, remnants of previous welds, adjacent welds in close proximity, and weld repair areas);</li><li>(2) typical limited scanning surface conditions (e.g., internal tapers, exposed weld roots, and cladding conditions).</li></ul>	
<p><b>2.2 Supplement 2 Flaws</b></p> <p>(a) At least 70% of the flaws shall be cracks, the remainder shall be alternative flaws.</p> <p>(b) Specimens with IGSCC shall be used when available.</p> <p>(c) Alternative flaws, if used, shall provide crack-like reflective characteristics and shall comply with the following:</p> <ul style="list-style-type: none"><li>(1) Alternative flaws shall be used only when implantation of cracks produces spurious reflectors that are uncharacteristic of service-induced flaws.</li><li>(2) Alternative flaws shall have a tip width of less than or equal to 0.002 in. (0.05 mm).</li></ul>	
<p><b>2.3 Distribution</b></p> <p>The specimen set shall contain a representative distribution of flaws. Flawed and unflawed grading units shall be randomly mixed.</p>	<p>Since the number of flaws will be limited words such as "uniform distribution" could lead to testmanship and are considered inappropriate.</p>

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### Relief Requests

<b>SUPPLEMENT 14 - QUALIFICATION REQUIREMENTS FOR COORDINATED IMPLEMENTATION OF SUPPLEMENT 2 AND 10 FOR PIPING EXAMINATIONS PERFORMED FROM THE INSIDE SURFACE</b>	
<b>Proposed Requirements</b>	<b>Technical Basis</b>
<b>3.0 PERFORMANCE DEMONSTRATION</b>	
<p>Personnel and procedure performance demonstration tests shall be conducted according to the following requirements.</p> <p>(a) The same essential variable values, or, when appropriate, the same criteria for selecting values as demonstrated in Supplement 10 shall be used.</p> <p>(b) The flaw location and specimen identification shall be obscured to maintain a "blind test".</p> <p>(c) All examinations shall be completed prior to grading the results and presenting the results to the candidate. Divulgence of particular specimen results or candidate viewing of unmasked specimens after the performance demonstration is prohibited.</p>	
<b>3.1 Detection Test</b>	
<p>(a) The specimen set for Supplement 2 qualification shall include at least five flawed grading units and ten unflawed grading units in austenitic piping. A maximum of one flaw shall be oriented axially.</p>	
<p>(b) Specimens shall be divided into grading units.</p> <p>(1) Each grading unit shall include at least 3 in. (76 mm) of weld length.</p> <p>(2) The end of each flaw shall be separated from an unflawed grading unit by at least 1 in. (25 mm) of unflawed material. A flaw may be less than 3 in. (76 mm) in length.</p> <p>(3) The segment of weld length used in one grading unit shall not be used in another grading unit.</p> <p>(4) Grading units need not be uniformly spaced around the pipe specimen</p>	
<p>(c) All grading units shall be correctly identified as being either flawed or unflawed.</p>	

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### Relief Requests

<b>SUPPLEMENT 14 - QUALIFICATION REQUIREMENTS FOR COORDINATED IMPLEMENTATION OF SUPPLEMENT 2 AND 10 FOR PIPING EXAMINATIONS PERFORMED FROM THE INSIDE SURFACE</b>	
<b>Proposed Requirements</b>	<b>Technical Basis</b>
<b>3.2 Length-sizing Test</b>	
(a) The coordinated implementation shall include the following requirements for personnel length sizing qualification.	
(b) The specimen set for Supplement 2 qualification shall include at least four flaws in austenitic material.	Axial flaws are not length sized in Supplement 2.
(c) Each reported circumferential flaw in the detection test shall be length sized. When only length-sizing is being tested, the regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the length of the flaw in each region.	
(d) Supplement 2 examination procedures, equipment, and personnel are qualified for length-sizing when the flaw lengths estimated by ultrasonics, as compared with the true lengths, do not exceed 0.75 in. (19 mm) RMS, when they are combined with a successful Supplement 10 qualification.	
<b>3.3 Depth-sizing Test</b>	
The coordinated implementation shall include the following requirements for personnel depth-sizing qualification.	
(a) The specimen set for Supplement 2 qualification shall include at least four circumferentially oriented flaws in austenitic material.	Axial flaws are not depth sized in Supplement 2.
(b) For a separate depth-sizing test, the regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the depth of the flaw in each region.	

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### Relief Requests

<b>SUPPLEMENT 14 - QUALIFICATION REQUIREMENTS FOR COORDINATED IMPLEMENTATION OF SUPPLEMENT 2 AND 10 FOR PIPING EXAMINATIONS PERFORMED FROM THE INSIDE SURFACE</b>	
<b>Proposed Requirements</b>	<b>Technical Basis</b>
(c) Supplement 2 examination procedures, equipment, and personnel are qualified for depth-sizing when the flaw depths estimated by ultrasonics, as compared with the true depths, do not exceed 0.125 in. (3 mm) RMS, when they are combined with a successful Supplement 10 qualification.	
<b>4.0 PROCEDURE QUALIFICATION</b>	
Procedure qualifications shall include the following additional requirements. (a) The specimen set shall include the equivalent of at least three personnel performance demonstration test sets. Successful personnel performance demonstrations may be combined to satisfy these requirements. (b) Detectability of all flaws in the procedure qualification test set that are within the scope of the procedure shall be demonstrated. Length and depth sizing shall meet the requirements of 3.1, 3.2, and 3.3. (c) At least one successful personnel demonstration shall be performed. (d) To qualify new values of essential variables, at least one personnel performance demonstration is required. The acceptance criteria of 4.0(b) shall be met.	

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### Relief Requests

#### Relief Request No. RR-1-9

##### 1. Components Affected

ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Table IWB-2500-1, Examination Category B-D, Item No. B3.90 Class 1 Reactor Vessel Full Penetration Welded Nozzle-to-Vessel Welds.

<u>Component</u>	<u>Isometric</u>
RV-W6	M-1194
RV-W7	M-1194
RV-W8	M-1194
RV-W9	M-1194
RV-W10	M-1194
RV-W11	M-1194

##### 2. Section XI Requirements

ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Examination Category B-D Item No. B3.90 requires that a minimum volume of material a distance of one half the reactor vessel shell thickness adjacent to the weld ( $t_s/2$ ) be examined as demonstrated in Figures IWB-2500-7 (a), (b) or (c).

##### 3. Basis for Requesting Relief

The examination volume for the reactor pressure vessel pressure retaining nozzle-to-vessel welds extend far beyond the weld into the base metal, and is unnecessarily large. This extends the examination time significantly, and results in no net increase in safety, as the area being examined is a base metal region which is not prone to inservice cracking and has been extensively examined during construction, pre-service examination, and during the previous inservice examinations with acceptable results.

Code Case N-613-1 reduces the examination area to one-half (1/2) inch from the weld. Kewaunee Nuclear Power Plant intends to use ASME Boiler and Pressure Vessel Code Section XI Case Code Case N-613-1 for the Loop A Reactor Coolant Outlet Nozzle and Inlet Nozzle and Loop B Reactor Coolant Outlet Nozzle and Inlet Nozzle of the Reactor Vessel as shown in Figure 1 and Safety Injection Nozzles (2) of the Reactor Vessel as shown in Figure 2 of the Code Case. The implementation of this request for relief would reduce the examination volume next to the widest part of the weld from half of the vessel wall thickness to one-half (1/2) inch from the weld. This reduction is applicable to base metal examination volume (as indicated in Figure 1 and Figure 2 as applicable) and is not located in the high stressed areas of the nozzle-to-vessel weld.

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### Relief Requests

#### 4. Alternative Methods of Examination

Pursuant to 10 CFR 50.55a(a)(3)(i), Kewaunee Nuclear Power Plant requests to implement an alternative to the volumetric (ultrasonic (UT)) requirements of ASME Section XI Table IWB-2500-1, Examination Category B-D, Item No. B3.90. ASME Section XI Code requires that a minimum volume of material a distance of one half the reactor vessel shell thickness adjacent to the weld ( $t_s/2$ ) be examined as demonstrated in Figures IWB-2500-7 (a), (b) and (c). In lieu of the  $t_s/2$  volume requirements of ASME Section XI, Figures IWB-2500-7 (a), (b), and (c), Kewaunee Nuclear Power Plant proposes to reduce the examination volume next to the widest part of the weld from half of the vessel wall thickness to one-half (1/2) inch from the weld; as described in Code Case N-613-1, Figures 1 and 2.

#### Relief Request No. RR-1-10

##### 1. Components Affected

ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Table IWB-2500-1, Examination Category B-A, Item No. B1.11 Class 1 Reactor Vessel Pressure Retaining Shell Circumferential Welds and Item No. B1.21 Class 1 Reactor Vessel Pressure Retaining Head Circumferential Welds.

<u>Component</u>	<u>Isometric</u>
RV-W2	M-1194
RV-W3	M-1194
RV-W4	M-1194
RV-W5	M-1194

##### 2. Section XI Requirements

ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Appendix VIII Supplement 4 Subparagraph 3.2(c) requires that the ultrasonic performance demonstration results be plotted on a two-dimensional plot with the depth estimated by ultrasonics plotted along the ordinate and the true depth plotted along the abscissa. For qualification, the plot must satisfy the following statistical parameters: (1) the slope of the linear regression line is not less than 0.7; (2) the mean deviation of the flaw depth is less than 0.25 in.; and (3) the correlation coefficient is not less than 0.70.

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### Relief Requests

#### 3. Basis For Requesting Relief

On September 22, 1999, the NRC published a final rule in the Federal Register (64 FR 51378) to amend 10CFR 50.55a(b)(2), to incorporate by reference the 1995 Edition and Addenda through the 1996 Addenda, of Section XI of the ASME Code. The change included the provisions of Subparagraph 3.2(a), 3.2(b) and 3.2(c) of Section XI of the ASME Code, 1995 Edition with the 1996 Addenda, Appendix VIII, Supplement 4.

Note: Subparagraph 3.2(a), 3.2(b) and 3.2(c) are also included in ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda.

Additionally, the September 22, 1999, Federal Register amended 10 CFR 50.55a(b)(2)(xv)(C)(1). The amended 10 CFR 50.55a(b)(2)(xv)(C)(1) requires a depth sizing acceptance criterion of 0.15 inch RMS to be used in lieu of the requirements of Subparagraph 3.2(a) and 3.2(b) of Section XI of the ASME Code, Appendix VIII, Supplement 4.

On March 26, 2001, the NRC published a correction to the September 22, 1999, final rule in the Federal Register (66 FR 16390). The NRC identified that an error had occurred in the published wording of 10 CFR 50.55a(b)(2)(xv)(C)(1). The corrected 10 CFR 50.55a(b)(2)(xv)(C)(1) requires a depth sizing acceptance criterion of 0.15 inch RMS be used in lieu of the requirements of Subparagraph 3.2(a) and a length sizing requirement of 0.75 inch RMS to be used in lieu of the requirements of 3.2(b) of Section XI of the ASME Code, Appendix VIII, Supplement 4.

The U.S. Nuclear utilities created the Performance Demonstration Initiative (PDI) to implement performance demonstration requirements contained in Appendix VIII of Section XI of the ASME Code. To this end, PDI has developed a performance demonstration program for qualifying UT equipment, procedures, and personnel. During the development of the performance demonstration for Supplement 4, the PDI determined that the Code criteria for flaw sizing was unworkable.

Kewaunee Nuclear Power Plant proposes to eliminate the use of the requirement in Supplement 4, Subparagraph 3.2(c), which imposes three statistical parameters for depth sizing. The first parameter, 3.2(c)(1), pertains to the slope of a linear regression line. The linear regression line is the difference between actual versus true value plotted along a through-wall thickness. For Supplement 4 performance demonstrations, a linear regression line of the data is not applicable because the performance demonstrations are performed on test specimens with flaws located in the inner 15 percent through-wall. The differences between actual versus true value produce a tight grouping of results which resemble a shotgun pattern. The slope of a regression line from such data is extremely sensitive to small variations, thus making the parameter of Subparagraph 3.2(c)(1) a poor and inappropriate acceptance criterion. The second parameter, 3.2(c)(2), pertains to the mean deviation of flaw depth. The value used in the code is too lax with respect to evaluating flaw depths within the inner 15 percent of wall thickness. The third parameter, 3.2(c)(3), pertains to correlation coefficient. The value of the correlation coefficient in

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### Relief Requests

Subparagraph 3.2(c)(3) is inappropriate for this application since it is based on the linear regression from Subparagraph 3.2(c)(1). Therefore, Kewaunee Nuclear Power Plant proposes to use the more appropriate acceptance criteria of 0.15-inch RMS (depth) and 0.75-inch RMS (length) from 10 CFR 50.55a(b)(2)(xv)(C)(1), which modifies Subparagraph 3.2(a) and 3.2(b).

PDI was aware of the inappropriateness of Subparagraph 3.2(c) early in the development of their program,. They brought the issue before the appropriate ASME committee which formalized Code Case N-622, eliminating the use of Supplement 4, Subparagraph 3.2(c). The NRC Staff representatives participated in the discussions and consensus process of the code case.

#### 4. Alternative Methods of Examination

Pursuant to 10 CFR 50.55a(a)(3)(i), Kewaunee Nuclear Power Plant proposes to use the RMS values of 10 CFR 50.55a(b)(2)(xv)(C)(1), which modifies the depth and length sizing criteria of Subparagraph 3.2(a) and 3.2(b), in lieu of the statistical parameters of ASME Boiler and Pressure Vessel Code Section XI 1998 Edition 2000 Addenda Appendix VIII, Supplement 4, Subparagraph 3.2(c).

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

##### 1. Components Affected

Class 2 piping:

##### Drawing

##### Description

ISIXK-100-10

Class 2 1" and 1/2" Reactor Vessel Head vent piping from PR-33A, PR-33B, RC-45A and RC-45B to RC-45-1, RC-21130-2, RC-46 and RC-49.

##### 2. Section XI Requirements

A VT-2 visual examination of Class 2 piping per ASME Boiler and Pressure Vessel Code, Section XI, 1998 Edition 2000 Addenda, Table IWC-2500-1, Category C-H, Item No. C7.10.

This relief request involves Code requirements that mandate performance of a VT-2 visual examination during either the system pressure test or hydrostatic pressure test. Specifically, the requirement in Paragraph IWC-5221 states a system leakage test shall be conducted at the system pressure obtained while the system, or portion of the system, is in service performing its normal operating function or at the system pressure developed during a test conducted to verify system operability (e.g., to demonstrate system safety function or satisfy technical specification surveillance requirements).

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### **Relief Requests**

#### **3. Basis for Requesting Relief**

Pursuant to 10 CFR 50.55a(g)(5)(iii), relief is requested from the provisions of Table IWC-2500-1, Category C-H, Item No. C7.10 for performing the VT-2 visual examination using reactor coolant as a pressurizing medium at a test pressure of 2235 psig.

The purpose of the Reactor Coolant Vent System is to vent non-condensable gases from the high points of the Reactor Coolant System to assure that core cooling during natural circulation will not be inhibited and to vent the vessel head during a plant startup.

The reactor vessel vent head lines downstream of PR-33A, PR-33B, RC-45A and RC-45B are not pressurized to 2235 psig when the RCS is operated at 100% rated power and approximately 547°F. The Kewaunee Nuclear Power Plant Technical Specifications does not permit pressurization of the reactor vessel head vent lines above 200°F using Reactor Coolant System Pressure and thus valves PR-33A, PR-33B RC-45A and RC-45B are required to be maintained closed.

#### **4. Alternative Method of Examination**

Perform the required Class 2 VT-2 visual examinations for the reactor vessel head vent lines prior to 200°F once each 3 1/3 year period using Reactor Coolant as a pressuring medium when the pressure will be approximately 380 psig. Perform VT-2 visual examinations for the reactor vessel head vent lines during the regularly scheduled Class 1 system pressure test (Table IWB-2500-1; Category B-P; Item No. B15.50 and B15.70) that is performed following each refueling outage. The reactor vessel head vent lines downstream of PR-33A, PR-33B, RC-45A and RC-45B will not be pressurized, during the Class 1 VT-2 visual examinations, to RCS pressure (2235 psig) using reactor coolant as a pressuring medium. However, the reactor vessel head vent lines are filled with borated water following each Refueling Outage when performing static and dynamic testing of PR-33A, PR-33B, RC-45A and RC-45B. Since borated water leaves a crystalline residue, the proposed VT-2 visual examination provides reasonable assurance that through-wall leakage in the reactor vessel head vent lines will be detected and corrected.

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### Relief Requests

#### GENERAL RELIEF REQUESTS

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

1. Components Affected

Class 1 and Class 2 Piping

2. Section XI Requirements

Volumetric and Surface examination per the 1998 Edition 2000 Addenda of Section XI, Table IWB-2500-1, Examination Category B-J, Table IWC-2500-1, Examination Category C-F-1 and C-F-2

3. Basis for Requesting Relief

The ASME Code, Section XI requirements for Inservice Inspection of Class 1, 2 and 3 pressure retaining welds in piping have been in effect since 1978. Since that time, the industry has expended significant cost and man-Rem exposure performing required examinations which have detected few service-induced flaws. Service experience has shown little correlation between the current ASME Code, Section XI Inservice Inspection (ISI) requirements and actual field failures or degradation mechanisms. Where field failures have been observed in piping, they have generally been due to either material concerns (e.g., Intergranular Stress Corrosion Cracking) or stress/cycling mechanisms not identified in the original design basis document (e.g. thermal stratification), and therefore would not be selected for inspection under current Section XI requirements.

4. Alternative Method of Examination

Perform Volumetric and Surface examinations on Class 1 and Class 2 Piping at the Kewaunee Nuclear Power Plant per the requirements of Electric Power Research Institute (EPRI) Topical Report TR-112657 Rev. B-A "Revised Risk-Informed Inservice Inspection Evaluation Procedure" which is conducted in a manner consistent with ASME Boiler and Pressure Vessel Code Section XI Code Case N-578 Risk-Informed Requirements for Class 1, 2, and 3 Piping Method B Section XI, Division 1. TR-112657 Rev. B-A as a Risk-Informed application meets the intent and principles of Nuclear Regulatory Commission Guide 1.174 "An Approach For Using Probabilistic Risk Assessment in Risk-Informed Decisions On Plant-Specific Changes to the Licensing Basis" and Nuclear Regulatory Guide 1.178, "An Approach for Plant-Specific Risk-Informed Decision Making Inservice Inspection of Piping".

## **Section 5.0**

### **Relief Requests**

#### **Relief Request No.RR-G-2**

1. **Components Affected**

All Class 1 and Class 2 pressure retaining bolted connections that are insulated.

2. **Section XI Requirements**

VT-2 visual examination per the 1998 Edition 2000 Addenda of Section XI, Table IWB-2500-1, Examination Category B-P, Table IWC-2500-1, Examination Category C-H, and Paragraph IWA-5242 which states:

- (a) For systems borated for the purpose of controlling reactivity, insulation shall be removed from pressure retaining bolted connections for VT-2 visual examination.

3. **Basis for Requesting Relief**

Satisfying the Code requirement of removing insulation from pressure retaining bolted connections for visual examination of borated systems will require significant planning and scheduling due to operational concerns, personnel radiation, and personnel safety. VT-2 examinations of the Class 1 System at the Kewaunee Nuclear Power Plant are performed at a system operating pressure of 2235 psig and a system temperature of 547°F. Area radiation levels range from 5 mr/hr to 100 mr/hr. Reinsulating and the removal of access equipment after the VT-2 examination will require additional staff to be exposed to higher system pressure, system temperature, and radiation levels than would be experienced during cold shutdown or refueling shutdown.

Additionally, the time required to replace insulation and remove the access equipment after the VT-2 examination may delay plant startup for an anticipated short time duration between performance of the Class 1 system pressure test and placing the reactor into critical operation. This relief request is intended to cover all pressure retaining bolted connections that are insulated and require VT-2 visual examination under Table IWB-2500-1 and IWC-2500-1. Representative components listed below are insulated, are part of or connected to the reactor coolant system, contain pressure retaining bolting, and are pressurized during the Class 1 system pressure test and Class 2 system pressure test.

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<b>Pressure Retaining Components With Bolted Connections That Are Insulated</b>		
Reactor Vessel Closure Head Flange Studs Reactor Vessel Closure Head 40 CRDM's and 1 3/4" Head Vent Pressurizer Manway Steam Generator Primary Side Manways 2" Valve LD-2 2" Valve LD-3 3" Valve PS-1A 3" Valve PS-1B 3" Valve RC-103A 3" Valve RC-103B	8" Valve RHR-1A 8" Valve RHR-1B 6" Valve SI-13A 6" Valve SI-13B 12" Valve SI-22A 12" Valve SI-22B 6" Valve SI-304A 6" Valve SI-304B 3" FE-458	3" FE-459 2" Valve LD-4A 2" Valve LD-4B 2" Valve LD-4C 8" Valve SI-2A 8" Valve SI-2B 8" Valve SI-3

#### 4. Alternative Method of Examination

- A. Perform the VT-2 visual examinations required by Table IWB-2500-1 and IWC-2500-1 without removal of insulation. A 4-hour hold time shall be established prior to the VT-2 visual examination to allow leakage from the subject bolted connections to migrate through the insulation. Any evidence of leakage will be evaluated in accordance with IWA-5250(a)(2) through utilization of ASME Boiler and Pressure Vessel Code Section XI: Code Case N-566-1. During the inservice leak test, the exposed insulation surfaces and joints at bolted connections shall be VT-2 visually examined.
- B. For pressure retaining bolted connections in Class 1 Valves, Class 1 Flanges, Class 2 Valves and the pressurizer manway perform a supplemental VT-3 visual examination once every refueling outage without disassembly and without the system under operating pressure and temperature, during cold shutdown or refueling shutdown. No supplemental examinations are required to ensure integrity of the pressure retaining studs in the reactor vessel flange since they are removed and cleaned to facilitate refueling of the reactor vessel each outage. The steam generator primary side manway bolting insulation is removed, due to ease of replacing, during the Class 1 System Pressure Test so no supplemental examinations are needed to ensure their integrity.

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### **Relief Requests**

Performing the VT-3 visual examinations during cold shutdown or refueling shutdown will significantly reduce the plant operational concerns, personnel radiation and personnel safety. Since borated water leaves a crystalline residue, the proposed supplemental VT-3 visual examination (in addition to the Class 1 system pressure test, area radiation monitors, and RCS leakage detective system) provides reasonable assurance that leakage at pressure retaining bolted connections will be detected and corrected. The proposed VT-3 visual examination at cold or refueling shutdown will permit a more thorough examination than during the Class 1 and Class 2 system pressure test due to better accessibility.

## 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 Fourth 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. Class 1 and Class 2 Piping weld selection was based on Electric Power Research Institute (EPRI) Topical Report TR-112657 Rev. B-A "Revised Risk-Informed Inservice Inspection Evaluation Procedure" which is conducted in a manner consistent with ASME Boiler and Pressure Vessel Code Section XI Code Case N-578 Risked Informed Requirements for Class 1, Class 2, or Class 3 Piping Method B Section XI Division 1.
- b. Inspection Program B.
- b. Section XI specified 100 percent of welds/surfaces/components/component supports requires examination.
- c. 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.)
- d. Section XI specifies that less than 100 percent of the items identified in item "c" are required to be examined. This selection is further based on location, multiple stream requirements and a representative cross sampling of systems.
- e. An additional item number was created to address Safety Injection ISI Class 2 pressure retaining piping welds. These welds have nominal wall thickness 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 and per the requirements of Electric Power Research Institute (EPRI) Topical Report TR-112657 Rev. B-A "Revised Risk-Informed Inservice Inspection Evaluation Procedure" were scheduled for examination during the Fourth Inspection Interval.

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- f. Strict adherence to the Code in regard to nominal wall thickness less than the lower limit (0.375") specified in Table IWC-2500-1 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 per the requirements of Electric Power Research Institute (EPRI) Topical Report TR-112657 Rev. B-A "Revised Risk-Informed Inservice Inspection Evaluation Procedure" were scheduled for examination during the Fourth Inspection Interval.
- g. For ASME Code Categories B-F (Item No. B5.10, B5.40 and B5.70), B-J (Item No. B9.11, B9.21, B9.31 and B9.32), C-F-1 (Item No. C5.11, C5.13, C5.14, C5.21, and C5.41) and C-F-2 (Item No. C5.51, C5.61 and C5.81) Volumetric Examinations are required only to be performed on Circumferential Butt Welds per the Risk-Informed Inservice Inspection Program since there are no external chloride stress corrosion cracking mechanisms. Surface examinations in addition to the required volumetric examination are currently scheduled on Circumferential Butt Welds during the 4<sup>th</sup> Ten Year Interval in excess of the Risk-Informed Inservice Inspection Program requirements. Surface examinations when performed may permit a credit to the percentage of the examination when 100% access for volumetric examination is not achieved. Surface examination will also insure weld integrity when preparation is performed on the weld crown of Circumferential Butt Welds by weld metal removal in preparation for ASME Boiler and Pressure Vessel Code Section XI Appendix VII and Appendix VIII Ultrasonic Examinations.
- h. 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 third inspection interval, if possible, it has been scheduled for no later than the second period of the fourth 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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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 Power 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 Power Plant.
B1.30	1	100	1	1	100	1	0	1	The shell-to-flange weld examination may be performed during the first and third periods, in which case 50% of the shell-to-flange weld shall be examined by the end of the first period, and the remainder by the end of the third period. During the first period, the examination need only be performed from the flange face, provided this same portion is examined from the shell during the third period.
B1.40	1	100	1	1	100	1	1	1	
B1.51	0	N/A	N/A	0	0	0	0	0	There are no weld repair areas in the beltline region.

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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	
B2.11	2	100	2	2	100	2	2	2	Examine 33 1/3 % 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 Power Plant.
B2.22	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B2.31	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B2.32	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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.

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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	
B2.51	0	N/A	N/A	0	0	0	0	0	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 Power Plant.
B2.60	0	N/A	N/A	0	0	0	0	0	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 Power Plant.
B2.80	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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.

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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	
B3.50	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.
B3.90	6	100	6	6	100	2	0	4	
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	3	2	2	Kewaunee assigned ASME Item Number per NRC Federal Register / Vol.67 No.187 / Thursday, September 26,2002 / Rules and Regulations. Reference Relief Request RR-1-1.

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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	
B3.130	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant. Steam Generator nozzles are forged.
B3.140	4	100	4	4	100	1	1	2	Kewaunee assigned ASME Item Number per NRC Federal Register/ Vol.67 No. 187 / Thursday, September 26,2002 / Rules and Regulations.
B3.150	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B3.160	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B5.10	6	100	6	6	100	3	0	3	RPV nozzle safe ends may be performed coincident with vessel nozzle examinations required by Examination Category B-D. Utilization of Risk-Informed Inservice Inspection.
B5.20	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B5.30	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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	
B5.40	5	100	5	5	100	1	3	1	Utilization of Risk-Informed Inservice Inspection.
B5.50	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B5.60	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B5.70	4	100	4	4	100	1	1	2	Utilization of Risk-Informed Inservice Inspection.
B5.80	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B5.90	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B5.100	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B5.110	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B5.120	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.10	48	100	48	48	100	16	16	16	May be deferred to end of 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	
B6.20	0	N/A	N/A	0	0	0	0	0	Not applicable. All studs removed for examination.
B6.30	48	100	48	48	100	16	16	16	May be deferred to end of interval.
B6.40	48	100	48	48	100	16	9	23	May be deferred till end of interval.
B6.50	48	100	48	48	100	16	16	16	May be deferred till end of interval.
B6.60	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.70	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.80	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.90	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.100	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.110	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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	
B6.120	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.130	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.140	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.150	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.160	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.170	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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.
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.

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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	
B6.200	0	N/A	0	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.210	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.220	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B6.230	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B7.10	3	100	3	3	100	1	1	1	3 - CRDM Housings have Bolting (#34, #35 and #37).
B7.20	1	100	1	1	100	1	0	0	One manway consisting of 16 bolts.
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, 16 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 Power 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	
B7.50	8	100	8	8	100	3	2	3	There are a total of eight Class 1 piping flange connections.
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	3 – CRDM Housings have bolting (#34, #35 and #37) Note: Equivalent to Item No. B7.10 . Included per NRC Federal Register / Vol.67 No. 187 / Thursday September 26, 2002 . Rules and Regulations.
B9.11	168	25	42	19	11	7	7	5	Utilization of Risk-Informed Inservice Inspection
B9.12	8	100	8	0	0	0	0	0	Kewaunee Assigned ASME Item Number. Utilization of Risk-Informed Inservice Inspection.
B9.21	96	25	24	8	8	2	3	3	Utilization of Risk-Informed Inservice Inspection.

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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	
B9.31	9	25	2	3	33	1	1	1	Utilization of Risk-Informed Inservice Inspection.
B9.32	16	25	4	0	0	0	0	0	Utilization of Risk-Informed Inservice Inspection.
B9.40	344	25	86	20	6	6	7	7	Utilization of Risk-Informed Inservice Inspection.
B10.10	11	N/A	4	4	N/A	1	1	2	Relief Request RR-1-3. There are two bracket supports on the Reactor Vessel Shell at 88.5° and 268.5°. The support pads underneath the Inlet and Outlet Nozzles are weld buildup and are exempt from examination. The Pressurizer has one welded Support Skirt Weld. In the case of multiple vessels of similar design, function and service, only one welded attachment of only one of the multiple vessels shall be selected for examination. There are two Steam Generators with a total of 8 Welded Attachments examine one (1) of the Welded Attachments.
B10.20	31	10	4	4	10	1	1	2	
B10.30	6	10	1	1	16	0	1	0	Pumps RCP-1A and RCP-1B have three pump support feet that are welded attachments.

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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	
B10.40	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant
B12.10	1	100	1	1	100	0	0	1	May be deferred to end of Interval. Weld exists in RCP-1A.
B12.20	2	N/A	1	0	N/A	0	0	0	Examination is required only when a pump is disassembled for maintenance, repair or volumetric examination.
B12.30	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
B12.40	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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	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 in the system. Examination is required when valve is disassembled for maintenance, repair or volumetric examination.
B13.10	1	N/A	1	1	N/A	1	1	1	Areas to be examined shall include the spaces above and below the reactor 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.

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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	
B13.50	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.
B13.60	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.
B13.70	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.
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 48 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	
B15.20	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B15.30	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B15.40	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B15.50	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B15.60	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B15.70	N/A	100	N/A	N/A	100	N/A	N/A	N/A	Pressure test required during each refueling outage.
B16.10	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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	
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 Tubing in U-Tube Design examinations are conducted in accordance with plant Technical Specifications.
C1.10	9	N/A	5	5	N/A	2	2	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 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 two (2) 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 Power 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 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 nozzle inner radius sections and two (2) feedwater nozzle inner radius sections.

# Section 6.0

## ISI Plan

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b><u>Inservice Inspection Plan</u></b>									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C2.31	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant. The vessel wall thickness of the RHR HXs is not greater than 1/2" and therefore, is not subject to examination.
C2.32	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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 Power Plant. The vessel wall thickness of the RHR HXs is not greater than 1/2" and therefore, is not subject to examination.

# Section 6.0

## ISI Plan

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Inservice Inspection Plan</b>									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C3.10	12	N/A	4	4	N/A	1	2	1	In the case of multiple vessels of similar design, function and service, only one of the multiple vessels shall be selected for examination. There are two RHR Heat Exchangers with a total of 4 welded supports, examine 1 of these Welded Attachments. There are 2 welded attachments on the Letdown Heat Exchanger examine 2 of these Welded Attachments. There are 2 Seal Water Injection Filters with a total of 6 Welded Attachments examine 1 of these Welded Attachments.
C3.20	65	10	7	9	13	2	3	4	
C3.30	8	10	1	2	25	1	0	1	There are two Safety Injection Pumps with a total of eight (8) welded attachments.
C3.40	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power 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 Power Plant.

## Section 6.0

### ISI Plan

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b><u>Inservice Inspection Plan</u></b>									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
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 Power 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 Power 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 Power Plant.
C5.11	49	7.5	4	1	2	1	0	0	Utilization of Risk-Informed Inservice Inspection.
C5.12	7	7.5	1	0	0	0	0	0	Kewaunee assigned ASME Item Number. Utilization of Risk-Informed Inservice Inspection.

# Section 6.0

## ISI Plan

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Inservice Inspection Plan</b>									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C5.13	424	0	0	15	3	5	5	5	Kewaunee assigned ASME 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. Utilization of Risk-Informed Inservice Inspection.
C5.14	103	0	0	5	5	1	2	2	Kewaunee Assigned ASME Item Number 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. Utilization of Risk-Informed Inservice Inspection.

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## ISI Plan

### WISCONSIN PUBLIC SERVICE CORPORATION

Kewaunee Nuclear Plant

Fourth Inservice Inspection 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	
C5.21	109	7.5	8	16	14	4	5	7	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. Utilization of Risk-Informed Inservice Inspection.
C5.30	165	7.5	12	7	4	2	3	2	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. Utilization of Risk-Informed Inservice Inspection.
C5.41	20	7.5	2	0	0	0	0	0	Utilization of Risk-Informed Inservice Inspection.
C5.51	113	7.5	9	2	2	1	0	1	The number of C5.51 welds required to be examined was increased from 9 to 19 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. Utilization of Risk-Informed Inservice Inspection.

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## ISI Plan

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b><u>Inservice Inspection Plan</u></b>									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
C5.52	43	7.5	3	0	0	0	0	0	Kewaunee assigned ASME Item Number. Utilization of Risk-Informed Inservice Inspection.
C5.61	147	7.5	11	5	3	2	2	1	Utilization of Risk-Informed Inservice Inspection.
C5.70	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
C5.81	14	7.5	1	0	0	0	0	0	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. Utilization of Risk-Informed Inservice Inspection.

# Section 6.0

## ISI Plan

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**Kewaunee Nuclear Plant**  
**Fourth 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	
C6.10	4	N/A	2	2	0	0	1	1	In case of multiple pumps of similar design, size, function, and service in a system, required weld examinations may be limited to all the welds in one pump in the same group or distributed among any of the pumps of that same group. The examination may be performed from either the inside or outside surface of the component. The pumps initially selected for examination shall be reexamined in the same sequence over the service lifetime of the component, to the extent practicable.
C6.20	0	N/A	N/A	0	0	0	0	0	None at Kewaunee Nuclear Power Plant.
C7.10	3	100	3	3	100	1	1	1	Pressure Test required during each inspection period. As a good practice a VT-2 visual examination will be conducted on the telltale hole of RHR HX Inlet and Outlet Nozzles.

# Section 6.0

## ISI Plan

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Inservice Inspection Plan</b>									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
D1.10	24	63	15	15	64	4	5	6	For multiple vessels of similar design, function and service, the welded attachments of only one of the multiple vessels shall be selected for examination. There are two Excess Letdown Heat Exchangers with a total of four (4) Welded Attachments. Examine two (2) of these Welded Attachments. There are two (2) welded attachments on the CC Surge Tank, examine two (2) of these welded attachments. There are two CC Heat Exchangers with a total of four (4) welded attachments. Examine two (2) of these Welded Attachments. There are a total of 2 Residual Heat Exchangers with a total of 8 welded Attachments. Examine four (4) of these Welded Attachments. There is one Letdown Heat Exchanger with 4 Welded Attachments. Examine these four (4) Welded Attachments.
D1.20	58	10	6	25	44	7	7	11	
D1.30	14	10	2	10	71	2	6	2	
D1.40	2	10	1	2	100	1	0	1	

# Section 6.0

## ISI Plan

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b><u>Inservice Inspection Plan</u></b>									
ASME Item Number	Total	Code Requirement		Number Scheduled	% Scheduled	Total Scheduled for Inspection Period			Comments
		% Required	No. Required			Per 1	Per 2	Per 3	
D2.10	2	100	2	2	100	1	1	0	Pressure Test required each inspection period.
D2.20	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 as permitted by ASME Boiler and Pressure Vessel Code Section XI Code Case N-498-4 and approved by NRC Regulatory Guide 1.147 Rev.13.
F1.10	132	25	33	33	25	9	10	14	
F1.20	289	15	44	47	16	15	16	16	
F1.30	195	10	20	22	11	6	6	10	
F1.40	140	N/A	N/A	77	N/A	24	25	28	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 and according to the Kewaunee Nuclear Power Plant Risk-Informed Inservice Inspection Program. 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

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category B-J Piping Weld Distribution</b>								
Item Number	System	Total Subject to Exam	Risk-Informed Requirement		Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	No. Required		Period 1	Period 2	Period 3
<b>B9.11</b>  <b>Circumferential Piping Welds NPS 4" or Larger</b>	Reactor Coolant Loop	27	4	1	1	1	0	0
	Pressurizer Safety and Relief	18	16	3	3	1	0	2
	Pressurizer Spray	1	0	0	0	0	0	0
	Pressurizer Surge	5	40	2	2	0	2	0
	Safety Injection	73	8	6	6	2	1	3
	Residual Heat Removal	44	16	7	7	3	4	0
<b>B9.12</b>  <b>Longitudinal Piping Welds NPS 4" or Larger</b>	Reactor Coolant Loop	8	0	0	0	0	0	0

# Section 7.0

## Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b><u>Category B-J Piping Weld Distribution</u></b>								
Item Number	System	Total Subject to Exam	Risk-Informed Requirement		Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	No. Required		Period 1	Period 2	Period 3
<b>B9.21</b>  <b>Circumferential Piping Welds NPS Less Than 4"</b>	RTD	21	9	2	2	0	0	2
	Pressurizer Spray	58	7	4	4	2	2	0
	Pressurizer Relief	14	14	2	2	0	1	1
	Safety Injection	2	0	0	0	0	0	0
	Seal Injection	1	0	0	0	0	0	0
<b>B9.31</b>  <b>Branch Pipe Connection Welds NPS 4" or Larger</b>	Reactor Coolant Loop	9	33	3	3	1	1	1

# Section 7.0

## Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category B-J Piping Weld Distribution</b>								
Item Number	System	Total Subject to Exam	Risk-Informed Requirement		Total Scheduled for Interval	Total Scheduled for Inspection Period		
			% Required	No. Required		Period 1	Period 2	Period 3
<b>B9.32</b>  <b>Branch Pipe Connection</b> <b>Welds NPS Less Than 4"</b>	Reactor Coolant Loop	13	0	0	0	0	0	0
	Pressurizer Spray	1	0	0	0	0	0	0
	Safety Injection	2	0	0	0	0	0	0
<b>B9.40</b>  <b>Socket Welds</b>	RTD	86	1	1	1	1	0	0
	Safety Injection	46	0	0	0	0	0	0
	Seal Injection	113	3	4	4	0	2	2
	Charging	38	24	9	9	2	3	4
	Auxiliary Spray	27	4	1	1	0	1	0
	Letdown/Waste Disposal	34	15	5	5	3	1	1

# Section 7.0

## Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category C-F-1 and C-F-2 Piping Weld Distribution</b>										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Risk-Informed 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>  <b>Circumferential Piping Welds Having a Wall Thickness <math>\geq 3/8"</math> and NPS <math>&gt; 4"</math></b>	Safety Injection	6	0	0	0	0	0	0	0	0
	Residual Heat Removal	27	4	1	0	1	1	1	0	0
	Internal Containment Spray	16	0	0	0	0	0	0	0	0
<b>C5.12</b>  <b>Longitudinal Piping Welds Having a Wall Thickness <math>\geq 3/8"</math> and NPS <math>&gt; 4"</math></b>	Residual Heat Removal	5	0	0	0	0	0	0	0	0
	Containment Spray	2	0	0	0	0	0	0	0	0

## Section 7.0

### Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category C-F-1 and C-F-2 Piping Weld Distribution</b>										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Risk-Informed 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>  <b>Circumferential Piping Welds Having a Wall Thickness &lt; 3/8" and NPS &gt; 4"</b>	Residual Heat Removal	286	2	6	0	6	6	3	1	2
	Internal Containment Spray	138	6	9	0	9	9	2	4	3
<b>C5.14</b>  <b>Circumferential Piping Welds Having a Wall Thickness &lt; 3/8" and NPS &gt; 4"</b>	Safety Injection	103	5	5	0	5	5	1	2	2

## Section 7.0

### Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category C-F-1 and C-F-2 Piping Weld Distribution</b>										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Risk-Informed 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	109	15	16	0	16	16	4	5	7
<b>C5.30</b>  Socket Welds	Safety Injection	165	4	7	0	7	7	2	3	2
<b>C5.41</b>  Circumferential Pipe Branch Connection Welds of Branch Piping ≥ 2"	Safety Injection	9	0	0	0	0	0	0	0	0
	Residual Heat Removal	7	0	0	0	0	0	0	0	0
	Internal Containment Spray	4	0	0	0	0	0	0	0	0

# Section 7.0

## Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category C-F-1 and C-F-2 Piping Weld Distribution</b>										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Risk-Informed 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>  <b>Circumferential Piping</b> <b>Welds <math>\geq 3/8</math> in. Nominal</b> <b>Wall Thickness For Piping</b> <b>NPS &gt; 4"</b>	Main Steam	64	0	0	0	0	0	0	0	0
	Feedwater	49	4	2	0	2	2	1	0	1
<b>C5.52</b>  <b>Longitudinal Piping Welds</b> <b><math>\geq 3/8</math> in. Nominal Wall</b> <b>Thickness For Piping</b> <b>NPS &gt; 4"</b>	Main Steam	43	0	0	0	0	0	0	0	0

# Section 7.0

## Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category C-F-1 and C-F-2 Piping Weld Distribution</b>										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Risk-Informed 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>C5.61</b>  Circumferential Piping Welds > 1/5 in. Nominal Wall Thickness for Piping ≥ NPS 2" and ≤ NPS 4"	Auxiliary Feedwater	147	3	5	0	5	5	2	2	1
<b>C5.81</b>  Circumferential Piping Branch Connection Welds of Branch Piping ≥ 2"	Main Steam	0	0	0	0	0	0	0	0	0
	Feedwater	0	0	0	0	0	0	0	0	0

## Section 7.0

### Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Fourth Inservice Inspection Interval <u>Category C-F-1 and C-F-2 Piping Weld Distribution</u>										
Item Number	System	Total Number of Nonexempt Welds in System Boundary	Risk-Informed 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
<u>Notes:</u>  1. There are a total of 350 C5.11, C5.12, C5.21, C5.30 and C5.41 piping welds. 2. There are a total of 424 C5.13 piping welds. C5.13 represents an item number that was created by NMC for RHR and ICS piping welds that are < 3/8" nominal wall thickness for piping that is > NPS 4". Some welds identified as "SI" perform a RHR function and are included in the RHR grouping. 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, NMC has scheduled a proper representative sample of these welds identified as item number C5.13. 3. There are a total of 103 C5.14 piping welds. C5.14 represents an item number created by NMC for SI piping welds < 3/8" nominal wall thickness for piping that is > NPS 4". 4. All C5.13 and C5.14 welds were included in the total weld count. 5. There are a total of 316 C-F-2 piping welds.										

## Section 7.0

### Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category F-A Support Distribution</b>								
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>F1.10A</b>	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

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b><u>Category F-A Support Distribution</u></b>								
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

## Section 7.0

### Distribution

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**Kewaunee Nuclear Plant**  
**Fourth Inservice Inspection Interval**  
**Category F-A 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>F1.10C</b>	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

## Section 7.0

### Distribution

WISCONSIN PUBLIC SERVICE CORPORATION Kewaunee Nuclear Plant Fourth Inservice Inspection Interval <u>Category F-A Support Distribution</u>								
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>	Auxiliary Feedwater (System 05B)	35	15	6	6	1	4	1
	Containment Spray (System 23)	18	15	3	3	1	1	1
	Safety Injection (System 33)	26	15	4	4	1	2	1
	Residual Heat Removal (System 34)	7	15	1	1	0	1	0
<b>F1.20B</b>	Auxiliary Feedwater (System 05B)	27	15	4	4	3	1	0
	Feedwater (System 05A)	2	15	0	0	0	0	0
	Main Steam (System 06)	4	15	1	1	0	1	0
	Containment Spray (System 23)	27	15	4	5	2	2	1
	Safety Injection (System 33)	40	15	6	6	2	1	3

## Section 7.0

### Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category F-A Support Distribution</b>								
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>F1.20B</b>	Residual Heat Removal (System 34)	18	15	3	3	1	1	1
<b>F1.20C</b>	Auxiliary Feedwater (System 05B)	9	15	2	2	0	0	2
	Feedwater (System 05A)	1	15	0	0	0	0	0
	Main Steam (System 06)	2	15	0	0	0	0	0
	Containment Spray (System 23)	8	15	2	2	1	0	1
	Safety Injection (System 33)	20	15	3	3	1	1	1
	Residual Heat Removal (System 34)	44	15	7	8	2	2	4
<b>F1.30A</b>	Service Water (System 2)	42	10	4	4	2	1	1
	Auxiliary Feedwater (System 05B)	5	10	1	1	0	0	1

## Section 7.0

### Distribution

<b>WISCONSIN PUBLIC SERVICE CORPORATION</b> <b>Kewaunee Nuclear Plant</b> <b>Fourth Inservice Inspection Interval</b> <b>Category F-A Support Distribution</b>								
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>F1.30A</b>	Component Cooling Water (System 31)	18	10	2	2	0	1	1
<b>F1.30B</b>	Service Water (System 2)	93	10	9	9	2	3	4
	Auxiliary Feedwater (System 05B)	2	10	1	1	0	0	1
	Component Cooling Water (System 31)	12	10	1	2	1	0	1
<b>F1.30C</b>	Service Water (System 02)	17	10	2	2	0	1	1
	Component Cooling Water (System 31)	6	10	1	1	1	0	0
<b>F1.40A</b>	N/A (System N/A)	0	100	0	0	0	0	0
<b>F1.40B</b>	Service Water (System 02)	36	100	Note 1	12	4	4	4
	Auxiliary Feedwater (System 05B)	15	100	Note 1	10	2	4	4

## Section 7.0

### Distribution

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**Kewaunee Nuclear Plant**  
**Fourth Inservice Inspection Interval**  
**Category F-A 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>	Internal Containment Spray (System 23)	2	100	Note 1	1	1	0	0
	Component Cooling Water (System 31)	28	100	Note 1	19	7	6	6
	Safety Injection (System 33)	10	100	Note 1	5	2	1	2
	Residual Heat Removal (System 34)	6	100	Note 1	3	1	1	1
	Chemical and Volume Control (System 35)	18	100	Note 1	11	3	3	5
	Reactor Coolant Loop (System 36)	21	100	Note 1	14	4	4	6
<b>F1.40C</b>	Feedwater (System 05A)	4	100	Note 1	2	0	2	0

**Notes:**

1. 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 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, B or C. For class 1, B-J and B-O welds, the letters A, B or C identify that the class 1 weld was examined in the First, Second or Third Inspection Interval. The letter A signifies that the weld was examined during the First Inspection Interval. The letter B signifies that the weld was examined during the Second Inspection Interval. The letter C signifies that the weld examined during the Third Inspection Interval. The number 1, 2 or 3 indicates that the component was examined in the First, Second, or Third Period of the Third 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.

#### FOURTH INTERVAL ISI SCHEDULE

Examination Category	(1)	Description	(2)
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**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	E01	Vol	Sur	Vis		
B1.10	Shell Welds													
B1.11	Circumferential	M-1193	RV-W2		Y			X	P	X				
B1.11	Circumferential	M-1193	RV-W3		Y			X	P	X				
B1.20	Head Welds													
B1.21	Circumferential	M-1193	RV-W4		Y			X	P	X				
B1.21	Circumferential	M-1193	RV-W5		Y			X	P	X				
B1.30	Shell-to-Flange Weld	M-1193	RV-W1		Y	X		X	PD	X				Note 1
B1.40	Head-to-Flange Weld	M-1198 Sh.1	RV-W12		Y	X	X	X	PD	X	X			Note 2

**Category Notes:**

1. Examine at least 50% by the end of the first inspection period (i.e., examine 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. During the first period, the examination need only be performed from the flange face, provided this same portion is examined from the shell during the third period.
2. 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**

**FOURTH 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		
	<b>Pressurizer Shell-to Head-Welds</b>													
B2.11	Circumferential	M-1200	P-W3		Y	X	X	X	N	X				Note 1
B2.11	Circumferential	M-1200	P-W5		Y	X	X	X	N	X				Note 1
B2.12	Longitudinal	M-1200	P-W1		Y	X	X	X	N	X				Note 2
B2.12	Longitudinal	M-1200	P-W2		Y	X	X	X	N	X				Note 2
	<b>Steam Generators (Primary Side)</b>													
B2.40	Tubesheet-to-Head Weld	M-1201	SG-W26		Y	X	X	X	N	X				Note 1 and 3
B2.40	Tubesheet-to-Head Weld	M-1201	SG-W32		N				N	X				Note 3

**Category Notes:**

1. Examine weld from 0° clockwise to 120° (using manway 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**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category **B-D** Description **FULL PENETRATION WELDED 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	Nozzle-to-Vessel Welds	M-1194	RV-W6		Y			X	PD	X				Note 1 and 2
B3.90	Nozzle-to-Vessel Welds	M-1194	RV-W7		Y	X			PD	X				Note 1 and 2
B3.90	Nozzle-to-Vessel Welds	M-1194	RV-W8		Y			X	PD	X				Note 1 and 2
B3.90	Nozzle-to-Vessel Welds	M-1194	RV-W9		Y			X	PD	X				Note 1 and 2
B3.90	Nozzle-to-Vessel Welds	M-1194	RV-W10		Y	X			PD	X				Note 1 and 2
B3.90	Nozzle-to-Vessel Welds	M-1194	RV-W11		Y			X	PD	X				Note 1 and 2
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR6		Y			X	N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR7		Y	X			N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR8		Y			X	N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR9		Y			X	N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR10		Y	X			N	X				Note 1
B3.100	Nozzle Inside Radius Section	M-1194	RV-IR11		Y			X	N	X				Note 1

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

**Examination Category** B-D      **Description** FULL PENETRATION WELDED 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		
	Pressurizer													
B3.120	Nozzle Inside Radius Section	M-1200	P-IR7		Y	X	X	X	N			X	RR-1-1	Note 3
B3.120	Nozzle Inside Radius Section	M-1200	P-IR8		Y		X		N	X				
B3.120	Nozzle Inside Radius Section	M-1200	P-IR9		Y			X	N	X				
B3.120	Nozzle Inside Radius Section	M-1200	P-IR10		Y	X			N	X				
B3.120	Nozzle Inside Radius Section	M-1200	P-IR11		Y	X			N	X				
	Steam Generators (Primary Side)													
B3.140	Nozzle Inside Radius Section	M-1201	SG-IR25		Y	X			N	X				
B3.140	Nozzle Inside Radius Section	M-1201	SG-IR26		Y		X		N	X				
B3.140	Nozzle Inside Radius Section	M-1201	SG-IR27		Y			X	N	X				
B3.140	Nozzle Inside Radius Section	M-1201	SG-IR28		Y			X	N	X				

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

Examination Category **B-D** Description **FULL PENETRATION WELDED 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		

**Category Notes:**

1. At least 25% but not more than 50% 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 the nozzle weld is examined by the straight beam ultrasonic method from inside the nozzle bore, the remaining examinations required from the shell inside diameter may be performed at or near the end of the interval.
3. Examine nozzle during Class 1 System Leakage Test (Code Item B15.20) after each Refueling Outage.

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

Examination Category B-F Description PRESSURE RETAINING DISSIMILAR METAL WELDS IN VESSEL NOZZLES

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	Vls		
	Reactor Vessel													
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-938-2SH1	SI-W112DM		Y			X	PD	X	X		RR-1-7	Note 1 and 2: Risk Ranking Category: 2
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-939SH1	SI-W54DM		Y	X			PD	X	X		RR-1-7	Note 1 and 2: Risk Ranking Category: 2
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1703	RC-W1DM		Y	X			PD	X	X		RR-1-7	Note 1 and 2: Risk Ranking Category: 4
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1703	RC-W26DM		Y			X	PD	X	X		RR-1-7	Note 1 and 2: Risk Ranking Category: 4
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1704	RC-W30DM		Y	X			PD	X	X		RR-1-7	Note 1 and 2: Risk Ranking Category: 4
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1704	RC-W58DM		Y			X	PD	X	X		RR-1-7	Note 1 and 2: Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

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

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		Y	X			N	X	X		RR-1-7	Risk Ranking Category: 4
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-892	RC-W67DM		Y		X		N	X	X		RR-1-7	Risk Ranking Category: 2
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-940-1	PR-W1DM		Y		X		N	X	X		RR-1-7	Risk Ranking Category: 4
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-940-2	PR-W16DM		Y			X	N	X	X		RR-1-7	Risk Ranking Category: 4
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-940-2	PR-W26DM		Y		X		N	X	X		RR-1-7	Risk Ranking Category: 4
	Steam Generators													
B5.70	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1703	RC-W76DM		Y	X			N	X	X		RR-1-7	Risk Ranking Category: 4
B5.70	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1703	RC-W77DM		Y		X		N	X	X		RR-1-7	Risk Ranking Category: 4

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

Examination Category B-F Description PRESSURE RETAINING DISSIMILAR METAL WELDS IN VESSEL NOZZLES

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-W78DM		Y			X	N	X	X		RR-1-7	Risk Ranking Category: 4
B5.70	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	ISIM-1704	RC-W79DM		Y			X	N	X	X		RR-1-7	Risk Ranking Category: 4

**Category Notes:**

1. Nozzle-to-safe end butt weld examinations may be performed coincident with the vessel nozzle examinations required by examination Category B-D.
2. These examinations may be deferred to the end of the interval, provided no repair/replacement activities have been performed on the examination item, and no flaws or relevant conditions requiring successive inspections in accordance with IWB-2420 (b) are contained in the examination item.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N2		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N3		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N4		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N5		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N6		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N7		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N8		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N9		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N10		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N11		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N12		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N13		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N14		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N15		Y	X			P			X		
B6.10	Closure Head Nuts	M-1196	RV-N16		Y	X			P			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-N55		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N18		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N19		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N20		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N21		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N22		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N23		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N24		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N25		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N26		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N27		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N28		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N29		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N30		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N31		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N32		Y		X		P			X		
B6.10	Closure Head Nuts	M-1196	RV-N33		Y			X	P			X		

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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-N34		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N35		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N36		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N37		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N38		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N39		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N40		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N41		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N42		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N43		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N44		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N45		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N46		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N47		Y			X	P			X		
B6.10	Closure Head Nuts	M-1196	RV-N48		Y			X	P			X		
B6.30	Closure Studs, When Removed	M-1196	RV-ST1		Y	X			P	X				Note 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-ST2		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST3		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST4		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST5		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST6		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST7		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST8		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST9		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST10		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST11		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST12		Y	X			P	X				Note 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-ST13		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST14		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST15		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST16		Y	X			P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST55		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST18		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST19		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST20		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST21		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST22		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST23		Y		X		P	X				Note 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-ST24		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST25		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST26		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST27		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST28		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST29		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST30		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST31		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST32		Y		X		P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST33		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST34		Y			X	P	X				Note 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-ST35		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST36		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST37		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST38		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST39		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST40		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST41		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST42		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST43		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST44		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST45		Y			X	P	X				Note 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-ST46		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST47		Y			X	P	X				Note 4
B6.30	Closure Studs, When Removed	M-1196	RV-ST48		Y			X	P	X				Note 4
B6.40	Threads in Flange	M-1195	RV-S1		Y		X		P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S2		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S3		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S4		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S5		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S6		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S7		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S8		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S9		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S10		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S11		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S12		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S13		Y	X			P	X				Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-S14		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S15		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S16		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S17		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S18		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S19		Y		X		P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S20		Y		X		P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S21		Y		X		P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S22		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S23		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S24		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S25		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S26		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S27		Y	X			P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S28		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S29		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S30		Y			X	P	X				Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-S31		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S32		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S33		Y		X		P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S34		Y		X		P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S35		Y		X		P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S36		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S37		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S38		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S39		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S40		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S41		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S42		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S43		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S44		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S45		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S46		Y			X	P	X				Note 1
B6.40	Threads in Flange	M-1195	RV-S47		Y		X		P	X				Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-S48		Y		X		P	X				Note 1
B6.50	Closure Washers, Bushings	M-1196	RV-WC1		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC2		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC3		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC4		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC5		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC6		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC7		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC8		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC9		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC10		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC11		Y	X			P			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-WC12		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC13		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC14		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC15		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC16		Y	X			P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC55		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC18		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC19		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC20		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC21		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC22		Y		X		P			X		

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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	Vls		
B6.50	Closure Washers, Bushings	M-1196	RV-WC23		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC24		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC25		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC26		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC27		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC28		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC29		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC30		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC31		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC32		Y		X		P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC33		Y			X	P			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-WC34		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC35		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC36		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC37		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC38		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC39		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC40		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC41		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC42		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC43		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC44		Y			X	P			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-WC45		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC46		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC47		Y			X	P			X		
B6.50	Closure Washers, Bushings	M-1196	RV-WC48		Y			X	P			X		
	<b>Pumps</b>													
B6.180	Bolts and Studs	M-1205	RCP-B1		Y	X			P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B2		Y	X			P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B3		Y	X			P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B4		Y	X			P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B5		Y	X			P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B6		Y	X			P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B7		Y	X			P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B8		Y	X			P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B9		Y		X		P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B10		Y		X		P	X				Note 2

**WISCONSIN PUBLIC SERVICE CORPORATION**  
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**FOURTH 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-B11		Y		X		P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B12		Y		X		P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B13		Y		X		P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B14		Y		X		P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B15		Y		X		P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B16		Y		X		P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B17		Y			X	P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B18		Y			X	P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B19		Y			X	P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B20		Y			X	P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B21		Y			X	P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B22		Y			X	P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B23		Y			X	P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B24		Y			X	P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B25		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B26		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B27		N				P	X				Note 2

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-B28		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B29		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B30		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B31		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B32		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B33		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B34		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B35		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B36		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B37		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B38		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B39		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B40		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B41		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B42		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B43		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B44		N				P	X				Note 2

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-B45		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B46		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B47		N				P	X				Note 2
B6.180	Bolts and Studs	M-1205	RCP-B48		N				P	X				Note 2
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B1		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B2		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B3		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B4		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B5		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B6		N				P			X		Note 1 and 3

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-B7		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B8		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B9		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B10		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B11		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B12		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B13		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B14		N				P			X		Note 1 and 3

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-B15		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B16		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B17		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B18		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B19		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B20		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B21		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B22		N				P			X		Note 1 and 3

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-B23		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B24		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B25		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B26		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B27		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B28		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B29		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B30		N				P			X		Note 1 and 3

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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-B31		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B32		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B33		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B34		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B35		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B36		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B37		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B38		N				P			X		Note 1 and 3

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-B39		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B40		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B41		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B42		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B43		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B44		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B45		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B46		N				P			X		Note 1 and 3

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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	Vls		
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B47		N				P			X		Note 1 and 3
B6.190	Flange Surface, When Connection Disassembled	M-1205	RCP-B48		N				P			X		Note 1 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.
4. Surface or Volumetric examination required.

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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>Reactor Vessel</b>													
B7.10	Bolts, Studs, and Nuts	M-1197	RV-CD34		Y	X			N			X		Note 8
B7.10	Bolts, Studs and Nuts	M-1197	RV-CD35		Y		X		N			X		Note 8
B7.10	Bolts, Studs and Nuts	M-1197	RV-CD37		Y			X	N			X		Note 8
	<b>Pressurizer</b>													
B7.20	Bolts, Studs, and Nuts	M-1200	P-MWB		Y	X			N			X		Note 1
	<b>Steam Generators</b>													
B7.30	Bolts, Studs, and Nuts	M-1201	SG-1A-HLMWB		Y		X		N			X		Note 2
B7.30	Bolts, Studs, and Nuts	M-1201	SG-1A-CLMWB		Y			X	N			X		Note 2
B7.30	Bolts, Studs, and Nuts	M-1201	SG-1B-HLMWB		N				N			X		Note 2 and 3
B7.30	Bolts, Studs, and Nuts	M-1201	SG-1B-CLMWB		N				N			X		Note 2 and 3
	<b>Piping</b>													
B7.50	Bolts, Studs, and Nuts	ISIM-940-2	PR-F1		Y		X		N			X		Note 4
B7.50	Bolts, Studs, and Nuts	ISIM-940-2	PR-F2		Y			X	N			X		Note 4
B7.50	Bolts, Studs, and Nuts	ISIM-1460	FE-458		Y			X	N			X		Note 5
B7.50	Bolts, Studs, and Nuts	ISIM-1461	FE-459		Y	X			N			X		Note 5
B7.50	Bolts, Studs, and Nuts	ISIM-1471	CVC-F1		Y		X		N			X		Note 5
B7.50	Bolts, Studs, and Nuts	ISIM-1471	CVC-F2		Y			X	N			X		Note 6

**WISONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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		
B7.50	Bolts, Studs and Nuts	ISIM-1476	CVC-F3		Y	X			N			X		Note 5
B7.50	Bolts, Studs and Nuts	ISIM-1476	CVC-F4		Y	X			N			X		Note 6
	<b>Pumps</b>													
B7.60	Bolts, Studs, and Nuts	M-1205	RCP-1A-SLB		Y			X	N			X		Note 3 and 7
B7.60	Bolts, Studs, and Nuts	M-1205	RCP-1B-SLB		N				N			X		Note 3 and 7
	<b>Valves</b>													
B7.70	Bolts, Studs, and Nuts	ISIM-874-1	PS-1B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-874-2	PS-1A		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-874-3	CVC-15		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-935	SI-21A		Y		X		N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-935	SI-22A		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-936	SI-13B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-1	RHR-11		Y	X			N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-1	SI-21B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-1	SI-22B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-2SH1	SI-303A		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-938-2SH1	SI-304A		N				N			X		Note 3

**WISCONSIN PUBLIC SERVICE CORPORATION**  
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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-303B		Y		X		N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-939SH1	SI-304B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-1	PR-1A		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-1	PR-1B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-1	PR-2A		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-1	PR-2B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-2	PR-3A		Y		X		N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-940-2	PR-3B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-957-1SH1	RHR-1A		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-957-1SH1	RHR-1B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-957-1SH1	RHR-2A		Y			X	N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-957-1SH1	RHR-2B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-982	SI-13A		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-1460	RC-103A		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-1461	RC-103B		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-1473	CVC-11		N				N			X		Note 3
B7.70	Bolts, Studs, and Nuts	ISIM-1474	LD-2		N				N			X		Note 3

**WISCONSIN PUBLIC SERVICE CORPORATION**  
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**FOURTH 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	Vls		
B7.70	Bolts, Studs, and Nuts	ISIM-1474	LD-3		N				N			X		Note 3
	Reactor Vessel													
B7.80	Bolts, Studs, and Nuts	M-1197	RV-CD34		Y	X			N			X		Note 8 and 9
B7.80	Bolts, Studs, and Nuts	M-1197	RV-CD35		Y		X		N			X		Note 8 and 9
B7.80	Bolts, Studs, and Nuts	M-1197	RV-CD37		Y			X	N			X		Note 8 and 9

**Category Notes:**

1. Manway contains 16 bolts.
2. Manway contains 16 studs, 16 nuts and 32 washers.
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 total (12 each Reactor Coolant Pump)
8. CRD housing has one marmon clamp with 3 bolts and one jacking screw assembly with 6 screws.
9. Equivalent to Item No. B7.10. Item per NRC Federal Register/ Vol. 67, No. 187/ Thursday, September 26, 2002 / Rules and Regulations

**WISCONSIN PUBLIC SERVICE CORPORATION**  
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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		
	NPS 4 and Larger													
B9.11	Circumferential Welds	ISIM-874-1	PS-W60	C,1	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-892	RC-W62	B	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-892	RC-W63	B	Y		X		N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-892	RC-W64	C, 2	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-892	RC-W65	A	Y		X		N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-892	RC-W66	B	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-935	SI-W113	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-935	SI-W114		N				N	X	X		RR-1-6	Risk Ranking Category: 6a Inaccessible
B9.11	Circumferential Welds	ISIM-935	SI-W115	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-935	SI-W116	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-935	SI-W117	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-935	SI-W118		N				N	X	X		RR-1-6	Risk Ranking Category: 6a Inaccessible
B9.11	Circumferential Welds	ISIM-935	SI-W119	C, 3	N				N	X	X			Risk Ranking Category: 5a
B9.11	Circumferential Welds	ISIM-935	SI-W120	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-935	SI-W121	B	Y			X	N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-935	SI-W123	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-936	RC-W60	A	Y	X			N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-936	RC-W61	B	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-936	SI-W88	B	N				N	X	X			Risk Ranking Category: 5a
B9.11	Circumferential Welds	ISIM-938-1	SI-W55	A, B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W56	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W57	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W58	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W59	C, 1	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W60	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W61	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W62		N				N	X	X		RR-1-6	Risk Ranking Category: 6a Inaccessible.
B9.11	Circumferential Welds	ISIM-938-1	SI-W63	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W64	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W65	A	N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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-938-1	SI-W66	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W67	C, 2	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W68	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W69	C, 2	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W70	C, 3	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W71	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-1	SI-W72	B	N				N	X	X			Risk Ranking Category: 5a
B9.11	Circumferential Welds	ISIM-938-1	SI-W73	B	N				N	X	X			Risk Ranking Category: 5a
B9.11	Circumferential Welds	ISIM-938-1	SI-W74	A	Y		X		N	X	X			Risk Ranking Category: 5a
B9.11	Circumferential Welds	ISIM-938-1	SI-W75	C, 3	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-938-1	SI-W76	B	Y			X	N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W89	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W90	C, 2	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W105	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W106	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W107	B	N				N	X	X			Risk Ranking Category: 5a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-938-2SH1	SI-W108	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W109	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-938-2SH1	SI-W110	A, B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-939SH2	SI-W13	C, 1	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W14	C, 1	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W15	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W16	C, 2	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W17	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W18	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W19	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W20	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W21	C, 3	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W22	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W23	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W24	C, 3	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W25	C, 2	N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-939SH1	SI-W26	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W27	C, 3	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W28	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W43		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W44	C, 1	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W45	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W46	C, 2	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W47		N				N	X	X			Risk Ranking Category: 5a
B9.11	Circumferential Welds	ISIM-939SH1	SI-W48	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-939SH1	SI-W49	A	Y	X			N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-939SH1	SI-W50	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-939SH1	SI-W51		Y	X			N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-939SHI	SI-W52	A	Y			X	N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-1	PR-W2	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W17	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W18	C, 2	N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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-940-2	PR-W19	A	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W20	A, B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W21	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W22	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W23	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W25	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W27		Y	X			N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W28	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W29		N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W30	A	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W31		N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W32		Y			X	N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W33		Y			X	N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W34		N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-940-2	PR-W36		N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-957-ISH1	RHR-W1	A	N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	Y		X		N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W3	A	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W4	A	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W5	C, 2	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W6	C, 2	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W7	C, 2	N				N	X	X		RR-1-6	Risk Ranking Category: 4 Inaccessible
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W8	A, B	Y		X		N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W9	A, B	Y		X		N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W10	C, 3	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W11	C, 3	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W12		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W13	C, 1	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W14	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W15	C, 2	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W16	B	N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W18	C, 3	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W19	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W20		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W21	C,3	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W22	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W23		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W24		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W25	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W26		Y	X			N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W27		Y	X			N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W28	B	Y	X			N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W29	B	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W30	C, 1	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W31	A	Y		X		N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W32	A, B	N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-W33	C, 1	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W34	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W35	A, B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W36	C, 2	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W37		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W38	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W39		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W40		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W41	B	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W42	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH1	RHR-W43		N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-957-1SH2	RHR-W44	A	N				N	X	X			Risk Ranking Category: 6a
B9.11	Circumferential Welds	ISIM-982	SI-W12	B	N				N	X	X			Risk Ranking Category: 5a
B9.11	Circumferential Welds	ISIM-982	RC-W28	A	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-982	RC-W29	C, 3	N				N	X	X			Risk Ranking Category: 2
B9.11	Circumferential Welds	ISIM-1703	RC-W5	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W8	B	N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-1703	RC-W9	A,B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W12	C,1	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W15	C,1	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W18	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W19	A,C,3	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W20	A	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W24		N				N	X	X		RR-1-6	Risk Ranking Category: 4 Inaccessible
B9.11	Circumferential Welds	ISIM-1703	RC-W27	A	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W70		N				N	X	X		RR-1-6	Risk Ranking Category: 4 Inaccessible
B9.11	Circumferential Welds	ISIM-1703	RC-W80	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1703	RC-W81	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W35	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W38	B, C3	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W39	A, B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W42	A	N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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-1704	RC-W45	A	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W48	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W49	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W55	B	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W56		N				N	X	X		RR-1-6	Risk Ranking Category: 4 Inaccessible
B9.11	Circumferential Welds	ISIM-1704	RC-W59	A	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W69		N				N	X	X		RR-1-6	Risk Ranking Category: 4 Inaccessible
B9.11	Circumferential Welds	ISIM-1704	RC-W73	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W82	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.11	Circumferential Welds	ISIM-1704	RC-W83	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.12	Longitudinal Welds	ISIM-1703	RC-W10L	B	N				N	X	X			Risk Ranking Category: N/A
B9.12	Longitudinal Welds	ISIM-1703	RC-W11L	B	N				N	X	X			Risk Ranking Category: N/A
B9.12	Longitudinal Welds	ISIM-1703	RC-W16L	C, 1	N				N	X	X			Risk Ranking Category: N/A
B9.12	Longitudinal Welds	ISIM-1703	RC-W17L	C, 1	N				N	X	X			Risk Ranking Category: N/A
B9.12	Longitudinal Welds	ISIM-1704	RC-W40L	B	N				N	X	X			Risk Ranking Category: N/A
B9.12	Longitudinal Welds	ISIM-1704	RC-W41L	B	N				N	X	X			Risk Ranking Category: N/A
B9.12	Longitudinal Welds	ISIM-1704	RC-W46L	B	N				N	X	X			Risk Ranking Category: N/A

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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		
B9.12	Circumferential Welds	ISIM-1704	RC-W47L	B	N				N	X	X			Risk Ranking Category: N/A
	Less than NPS 4													
B9.21	Circumferential Welds	ISIM-874-1	PS-W30	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W31	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W32	A, B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W33	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W34	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W35		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W36	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W37	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W38	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W39	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W40	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W41	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W42	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W43	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W44		Y	X			N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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		
B9.21	Circumferential Welds	ISIM-874-1	PS-W45	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W46		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W47	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W48		Y	X			N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W49	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W50	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W51		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W52		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-1	PS-W53	C, 2	N				N	X	X			Risk Ranking Category: 2
B9.21	Circumferential Welds	ISIM-874-1	PS-W54	C, 2	N				N	X	X			Risk Ranking Category: 2
B9.21	Circumferential Welds	ISIM-874-1	PS-W55	B	Y		X		N	X	X			Risk Ranking Category: 2
B9.21	Circumferential Welds	ISIM-874-1	PS-W56	B	N				N	X	X			Risk Ranking Category: 2
B9.21	Circumferential Welds	ISIM-874-1	PS-W57	B	N				N	X	X			Risk Ranking Category: 2
B9.21	Circumferential Welds	ISIM-874-1	PS-W58	B	N				N	X	X			Risk Ranking Category: 2
B9.21	Circumferential Welds	ISIM-874-1	PS-W59	B	N				N	X	X			Risk Ranking Category: 2
B9.21	Circumferential Welds	ISIM-874-2	PS-W1	A	N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W3	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W4	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W5	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W6	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W7		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W8	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W9	C,3	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W10	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W11	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W12	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W13		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W14		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W15		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W16		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W17		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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		
B9.21	Circumferential Welds	ISIM-874-2	PS-W18		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W19		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W20		Y		X		N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W21	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W22		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W23	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W24	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W25	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W26	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W28		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-874-2	PS-W29		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-936	SI-W87B	A	N				N	X	X			Risk Ranking Category: 5a
B9.21	Circumferential Welds	ISIM-940-1	PR-W3		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-940-1	PR-W4	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-940-1	PR-W5	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-940-1	PR-W6		Y		X		N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-940-1	PR-W8		Y			X	N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-940-1	PR-W38	C, 3	N				N	X	X			Risk Ranking Category: 4 Replaced PR-W9 in 2003
B9.21	Circumferential Welds	ISIM-940-1	PR-W39	C, 3	N				N	X	X			Risk Ranking Category: 4 Replaced PR-W10 in 2003
B9.21	Circumferential Welds	ISIM-940-1	PR-W11	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-940-1	PR-W12	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-940-1	PR-W40	C, 3	N				N	X	X			Risk Ranking Category: 4 Replaced PR-W13 in 2003
B9.21	Circumferential Welds	ISIM-940-1	PR-W41	C, 3	N				N	X	X			Risk Ranking Category: 4 Replaced PR-W14 in 2003
B9.21	Circumferential Welds	ISIM-940-1	PR-W15	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-940-1	PR-W37		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-982	SI-W11B	C, 2	N				N	X	X			Risk Ranking Category: 5a
B9.21	Circumferential Welds	ISIM-1460	RTD-W5B	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1460	RTD-W6B	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1460	RTD-W25B	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1460	RTD-W26	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1460	RTD-W27	C, 2	N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1460	RTD-W29	A, B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1460	RTD-W30	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1460	RTD-W31		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1460	RTD-W55B		N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W60B	C, 1	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W61B	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W78B	A, B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W79	B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W80	A, B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W81	B	Y			X	N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W82	A, B	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W83	B	Y			X	N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W84	A	N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1461	RTD-W107	A	N				N	X	X			Risk Ranking Category: 4
B9.21	Circumferential Welds	ISIM-1471	CVC-W180B	C3	N				N	X	X			Risk Ranking Category: 4 Replaced CVC-W58S in 2003
	Branch Pipe Connection Welds													
B9.31	NPS 4 or Larger	ISIM-1703	RC-W3BC	B, C2	Y		X		N	X	X			Risk Ranking Category: 4
B9.31	NPS 4 or Larger	ISIM-1703	RC-W4BC	A, C2	N				N	X	X			Risk Ranking Category: 4
B9.31	NPS 4 or Larger	ISIM-1703	RC-W22BC	B	Y	X			N	X	X			Risk Ranking Category: 2
B9.31	NPS 4 or Larger	ISIM-1703	RC-W23BC	A, C1	N				N	X	X			Risk Ranking Category: 4
B9.31	NPS 4 or Larger	ISIM-1704	RC-W32BC	A	N				N	X	X			Risk Ranking Category: 4
B9.31	NPS 4 or Larger	ISIM-1704	RC-W33BC	A, B	N				N	X	X			Risk Ranking Category: 2
B9.31	NPS 4 or Larger	ISIM-1704	RC-W34BC	B	Y			X	N	X	X			Risk Ranking Category: 4
B9.31	NPS 4 or Larger	ISIM-1704	RC-W50BC	C, 3	N				N	X	X			Risk Ranking Category: 2
B9.31	NPS 4 or Larger	ISIM-1704	RC-W54BC	B	N				N	X	X			Risk Ranking Category: 2
B9.32	Less Than NPS 4	ISIM-874-2	PS-W27BC	B	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-938-2SH1	SI-W104BC	A, C3	N				N	X	X			Risk Ranking Category: 6a
B9.32	Less Than NPS 4	ISIM-939SH1	SI-W42BC	A	N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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		
B9.32	Less Than NPS 4	ISIM-1703	RC-W13BC	B	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1703	RC-W14BC	A, C1	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1703	RC-W21BC	A	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1703	RC-W68BC	C, 3	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1703	RC-W71BC		N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1703	RC-W72BC		N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1704	RC-W43BC	A	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1704	RC-W44BC	A	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1704	RC-W51BC	A	N				N	X	X			Risk Ranking Category: 2
B9.32	Less Than NPS 4	ISIM-1704	RC-W52BC	A	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1704	RC-W53BC	B	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1704	RC-W74BC	C, 2	N				N	X	X			Risk Ranking Category: 4
B9.32	Less Than NPS 4	ISIM-1704	RC-W75BC		N				N	X	X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W153S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-874-3	CVC-W154S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-874-3	CVC-W155S	B	N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-874-3	CVC-W156S	A, B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W157S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W158S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W159S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W160S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W161S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W162S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W163S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W164S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W165S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W166S		Y		X		N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W167S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W168S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W169S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W170S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W171S	A	N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-874-3	CVC-W172S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W173S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W174S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W175S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W176S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W177S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W178S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-874-3	CVC-W179S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-936	SI-W77S	A, B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-936	SI-W78S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-936	SI-W79S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-936	SI-W80S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-936	SI-W81S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-936	SI-W82S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-936	SI-W83S	B	N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-936	SI-W84S	A, B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-936	SI-W85S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-936	SI-W86S	A, B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W29S	C, 3	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W30S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W31S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W32S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W33S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W34S	C, 3	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W35S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W36S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W37S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W38S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W39S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-1	SI-W40S		N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-937-1	SI-W41S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W91S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W92S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W93S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W94S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W95S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W96S	C, 3	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W97S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W98S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W99S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W100S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W101S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH1	SI-W102S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-937-2SH	SI-W103S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W1S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W2S	C, 2	N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-982	SI-W3S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W4S	A, B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W5S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W6S	C, 3	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W7S	A, B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W8S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W9S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-982	SI-W10S	A, B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1369-2	WD-W1S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1369-2	WD-W2S		Y		X		N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1369-2	WD-W3S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1369-2	WD-W4S	A	Y			X	N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1369-2	WD-W5S	A	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1369-2	WD-W6S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1369-2	WD-W7S	C, I	N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-1369-2	WD-W8S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1369-2	WD-W9S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1369-2	WD-W10S	C, 3	Y	X			N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1369-2	WD-W11S	A	Y	X			N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1369-2	WD-W12S		N				N		X			Risk Ranking Category: 7a
B9.40	Socket Welds	ISIM-1369-2	WD-W13S	B	N				N		X			Risk Ranking Category: 7a
B9.40	Socket Welds	ISIM-1369-2	WD-W14S		N				N		X			Risk Ranking Category: 7a
B9.40	Socket Welds	ISIM-1369-2	WD-W15S	C,3	N				N		X			Risk Ranking Category: 7a
B9.40	Socket Welds	ISIM-1369-2	WD-W16S	B	N				N		X			Risk Ranking Category: 7a
B9.40	Socket Welds	ISIM-1460	RTD-W1S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W2S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W3S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W4S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W7S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W8S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W9S	B,2	N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W11S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W12S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W13S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W14S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W15S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W16S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W17S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W18S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W19S		Y	X			N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W20S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W21S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W22S	A, B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W23S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W24S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W32S		N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W34S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W35S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W36S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W37S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W38S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W39S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W40S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W41S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W42S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W43S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W44S	C,3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W45S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W46S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W47S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W48S		N				N		X			Risk Ranking Category:4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-W49S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W50S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W51S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W52S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W53S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1460	RTD-W54S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W56S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W57S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W58S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W59S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W62S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W63S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W64S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W65S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W66S	A, B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W67S	B	N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	EO I	Vol	Sur	Vis		
B9.40	Socket Welds	ISIM-1461	RTD-W68S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W69S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W70S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W71S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W72S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W73S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W74S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W75S	B, CI,2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W76S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W77S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W85S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W86S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W87S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W88S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W89S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W90S	C, 1	N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-1461	RTD-W91S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W92S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W93S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W94S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W95S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W96S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W97S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W98S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W99S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W100S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W101S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W102S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W103S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W104S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1461	RTD-W105S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W1S	C, 1	N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-W2S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W3S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W4S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W5S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W6S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W7S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W8S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W9S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W10S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W11S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W12S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W13S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W14S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W15S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W16S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W17S	C, 2	N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-W18S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W19S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W20S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W21S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W22S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W23S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W24S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W25S	C, 3	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W26S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W27S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W28S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W29S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W30S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W31S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W32S	C, 3	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W33S		N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-1471	CVC-W34S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W35S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W36S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W37S	C, 3	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W38S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1471	CVC-W39S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W40S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W41S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W42S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W43S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W44S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W45S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W46S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W47S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W48S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W49S	B	N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-W50S		Y			X	N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W51S		Y			X	N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W52S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W53S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W54S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W55S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W56S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1471	CVC-W57S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1473	CVC-W59S	B	N				N		X			Risk Ranking Category: 5a
B9.40	Socket Welds	ISIM-1473	CVC-W60S	B	N				N		X			Risk Ranking Category: 5a
B9.40	Socket Welds	ISIM-1473	CVC-W61S	B	N				N		X			Risk Ranking Category: 5a
B9.40	Socket Welds	ISIM-1473	CVC-W62S	B	Y			X	N		X			Risk Ranking Category: 5a
B9.40	Socket Welds	ISIM-1473	CVC-W63S	B	N				N		X			Risk Ranking Category: 5a
B9.40	Socket Welds	ISIM-1473	CVC-W64S	C, I	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W65S	C, I	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W66S	B	N				N		X			Risk Ranking Category: 2

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-W67S	B	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W68S	C, 1	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W69S	C, 2	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W70S	B	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W71S	B	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W72S	A	Y			X	N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W73S	A	Y			X	N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W74S	A	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W75S	A	Y			X	N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W76S	B	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W77S	B	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W78S	C, 2	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W79S	B,3	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W80S	A	Y	X			N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W81S	A	Y	X			N		X			Risk Ranking Category: 2

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-W82S	B	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W83S	C, 2	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W84S	C, 3	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W85S	B, 3	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W86S	A	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W87S	A	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W88S	C, 3	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W89S	C, 3	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W90S	B, C3	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W91S	A	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W92S	A	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W93S	A	N				N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W94S	A	Y		X		N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W95S	A	Y		X		N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1473	CVC-W96S	A	Y		X		N		X			Risk Ranking Category: 2
B9.40	Socket Welds	ISIM-1474	LD-WIS		Y	X			N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-1474	LD-W2S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W3S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W4S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W5S	C, 1	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W6S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W7S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W8S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W9S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W10S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W11S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W12S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	LD-W13S	A	N				N		X			Risk Ranking Category: 7a
B9.40	Socket Welds	ISIM-1474	LD-W14S		N				N		X			Risk Ranking Category: 7a
B9.40	Socket Welds	ISIM-1474	WD-W17S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	WD-W18S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1474	WD-W19S	C,3	N				N		X			Risk Ranking Category: 7a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	Vls		
B9.40	Socket Welds	ISIM-1474	WD-W20S		N				N		X			Risk Ranking Category: 7a
B9.40	Socket Welds	ISIM-1476	CVC-W97S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W98S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W99S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W100S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W101S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W102S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W103S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W104S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W105S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W106S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W107S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W108S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W109S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W110S	C, 1	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W111S	A	N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-W112S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W113S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W114S	C, 3	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W115S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W116S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W117S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W118S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W119S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W120S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W121S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W122S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W123S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W124S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W125S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W126S	C, 2	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W127S	C, 2	N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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-1476	CVC-W128S		N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W129S	B	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W130S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W131S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W132S	A	N				N		X			Risk Ranking Category: 6a
B9.40	Socket Welds	ISIM-1476	CVC-W133S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W134S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W135S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W136S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W137S	C, 2	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W138S		Y		X		N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W139S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W140S		Y		X		N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W141S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W142S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W143S		N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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-W144S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W145S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W146S	B	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W147S	C, 3	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W148S		N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W149S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W150S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W151S	A	N				N		X			Risk Ranking Category: 4
B9.40	Socket Welds	ISIM-1476	CVC-W152S	A	N				N		X			Risk Ranking Category: 4

Category Notes:

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

**Examination Category** B-K **Description** WELDED 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		
	Reactor Vessel													
B10.10	Welded Attachments	M-1194	RV-CS5		Y			X	N	X			RR-1-3	
B10.10	Welded Attachments	M-1194	RV-CS6		Y			X	N	X			RR-1-3	
	Pressurizer													
B10.10	Welded Attachments	M-1200	P-W6		Y		X		N	X				
	Steam Generators													
B10.10	Welded Attachments	M-1201	SG-1A-23A		Y	X			N		X			Note 1
B10.10	Welded Attachments	M-1201	SG-1A-23B		N				N		X			Note 1
B10.10	Welded Attachments	M-1201	SG-1A-23C		N				N		X			Note 1
B10.10	Welded Attachments	M-1201	SG-1A-23D		N				N		X			Note 1
B10.10	Welded Attachments	M-1201	SG-1B-23A		N				N		X			Note 1
B10.10	Welded Attachments	M-1201	SG-1B-23B		N				N		X			Note 1
B10.10	Welded Attachments	M-1201	SG-1B-23C		N				N		X			Note 1
B10.10	Welded Attachments	M-1201	SG-1B-23D		N				N		X			Note 1
	Piping													
B10.20	Welded Attachments	ISIM-874-1	RC-H14		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-874-2	RC-H22		N				N		X			Note 2

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

Examination Category B-K Description WELDED 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		
B10.20	Welded Attachments	ISIM-874-2	RC-H23		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-874-2	RC-H24		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-874-2	RC-H27		Y			X	N		X			Note 2
B10.20	Welded Attachments	ISIM-874-2	RC-H29A		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-872-2	RC-H32		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-874-2	RC-H33		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-874-2	RC-H35		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-935	RSI-H56		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-935	RSI-H57		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-935	RSI-H58		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-936	RSI-H7		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-937-2Sh1	RSI-H77		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-938-1	RRHR-H17		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-938-1	RRHR-H19		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-938-2Sh1	RSI-H33		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-938-2Sh1	RSI-H34		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-939 Sh.1	RSI-H41		Y	X			N		X			Note 2

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

Examination Category B-K Description WELDED 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		
B10.20	Welded Attachments	ISIM-939 Sh.1	RSI-H44		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-939 Sh.1	RSI-H62		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-939 Sh1	RSI-H64		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-940-2	RC-H8		Y			X	N		X			Note 2
B10.20	Welded Attachments	ISIM-940-2	RC-H9		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-957-1Sh1	RRHR-H1		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-957-1Sh1	RRHR-H2		Y		X		N		X			Note 2
B10.20	Welded Attachments	ISIM-957-1Sh1	RRHR-H3		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-957-1Sh1	RRHR-H4		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-957-1Sh1	RRHR-H9		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-982	RSI-H14		N				N		X			Note 2
B10.20	Welded Attachments	ISIM-1473	RCVC-H34		N				N		X			Note 2
	Pumps													
B10.30	Welded Attachments	M-1204	RCP-CS1	1	N				N		X			Note 2
B10.30	Welded Attachments	M-1204	RCP-CS2	2	Y		X		N		X			Note 2
B10.30	Welded Attachments	M-1204	RCP-CS3	1	N				N		X			Note 2
B10.30	Welded Attachments	M-1204	RCP-CS4	3	N				N		X			Note 2

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

Examination Category B-K Description WELDED 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		
B10.30	Welded Attachments	M-1204	RCP-CS5		N				N		X			Note 2
B10.30	Welded Attachments	M-1204	RCP-CS6		N				N		X			Note 2

**Category Notes:**

1. For Multiple Vessels of similar design, function and service, only one welded attachment of only one of the multiple vessels shall be selected for examination.
2. For Piping, Pumps and Valves, a sample of 10% of the welded attachments associated with the component supports selected for examination under IWF-2510 shall be examined.

**WISCONSIN PUBLIC SERVICE CORPORATION  
KEWAUNEE NUCLEAR POWER PLANT  
FOURTH 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	Sur	Vis		
	Pumps													
B12.10	Pump Casing Welds	M-1203	RCP-W1		Y			X	P			X		Note 1

**Category Notes:**

1. Weld exists in RCP-1A.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category B-L-2 Description 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				N			X		Note 1
B12.20	Pump Casing	M-1203	RCP-1B-INT		N				N			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 include the internal pressure retaining surfaces made accessible for examination by disassembly. If a partial examination is performed and a subsequent disassembly of that pump allows a more extensive examination, an examination shall be performed during the subsequent disassembly. A complete examination is required only once during the interval. Examination is limited to one reactor coolant pump.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category B-M-2 Description 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		N				N			X		Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-935	SI-22A		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-936	SI-13B		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-1	RHR-11		N				N			X		Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-1	SI-21B		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-1	SI-22B		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-2HS1	SI-303A		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-938-2SH1	SI-304A		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-939SH1	SI-303B		N				N			X		Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-939SH1	SI-304B		N				N			X		Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category B-M-2 Description 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		N				N			X		Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-940-2	PR-3B		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-957-1SH1	RHR-1A		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-957-1SH1	RHR-1B		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-957-1SH1	RHR-2A		N				N			X		Note 1 and 2
B12.50	Valve Body, Exceeding NPS 4	ISIM-957-1SH1	RHR-2B		N				N			X		Note 1
B12.50	Valve Body, Exceeding NPS 4	ISIM-982	SI-13A		N				N			X		Note 1

**Category Notes:**

- VT-3 Examination is only required when a valve is disassembled for maintenance, repair, or volumetric examination. Examination of the internal pressure boundary shall include the internal pressure retaining surfaces made accessible for examination by disassembly. If a partial examination is performed and a subsequent disassembly of that valve allows a more extensive examination, an examination shall be performed during the subsequent disassembly. A complete examination is required only once during the 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.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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 INTERNALS		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 that are made accessible for examination by removal of components during normal refueling outages.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

**Examination Category** B-N-2      **Description** 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 INTERNALS		Y			X	P			X		
B13.60	Interior Attachments Beyond Beltline Region	M-1199	RV INTERNALS		Y			X	P			X		

**Category Notes:**

1. None.

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**FOURTH 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	Sur	Vis		
	Reactor Vessel													
B13.70	Core Support Structure	M-1199	RV INTERNALS		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.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD2		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD3		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD4		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD5		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD6		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD7		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD8		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD9		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD10		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD11		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD12		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD13		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD14		Y			X	P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD15		N				P		X			Note 1 and 2

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD17	C,3	N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD18		Y			X	P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD19		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD20		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD21	A,C,3	N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD22		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD23		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD24		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD25	A,C,3	N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD26		Y			X	P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD27	B	N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD28		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD29	A	N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD30	B	N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD31		N				P		X			Note 1 and 2

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-CD32		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD33	B	N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD34		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD35		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD37		N				P		X			Note 1 and 2
B14.10	Welds in CRD Housing	M-1197	RV-CD38		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD39		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD40		N				P		X			Note 1
B14.10	Welds in CRD Housing	M-1197	RV-CD41		N				P		X			Note 1
B14.10	Welds in CRD Motor Tube	M-1198 Sh.2	RV-CDW42		N				P		X			Note 1
B14.10	Welds in CRD Motor Tube	M-1198 Sh.2	RV-CDW43		N				P		X			Note 1
B14.10	Welds in CRD Motor Tube	M-1198 Sh.2	RV-CDW44		N				P		X			Note 1
B14.10	Welds in CRD Motor Tube	M-1198 Sh.2	RV-CDW45		N				P		X			Note 1
B14.10	Welds in CRD Motor Tube	M-1198 Sh.2	RV-CDW46		N				P		X			Note 1
B14.10	Welds in CRD Motor Tube	M-1198 Sh.2	RV-CDW47		N				P		X			Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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 Motor Tube	M-1198-Sh.2	RV-CDW48		N				P		X			Note 1
B14.10	Welds in CRD Motor Tube	M-1198 Sh.2	RV-CDW49		N				P		X			Note 1

**Category Notes:**

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

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
	Reactor Vessel													
B15.10	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44	SP-36-267		Y	X	X	X	N			X		Note 1, 2 and 3
	Pressurizer													
B15.20	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44	SP-36-267		Y	X	X	X	N			X		Note 1, 2 and 3
	Steam Generators													
B15.30	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44	SP-36-267		Y	X	X	X	N			X		Note 1, 2 and 3
	Heat Exchangers													
B15.40	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44	SP-36-267		Y	X	X	X	N			X		Note 1, 2 and 3
	Piping													
B15.50	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44	SP-36-267		Y	X	X	X	N			X	RR-1-2: RR-1-4	Note 1, 2 and 3
	Pumps													
B15.60	Pressure Retaining Boundary	ISI-XK-100-10, 18, 28, 35, 44	SP-36-267		Y	X	X	X	N			X		Note 1, 2 and 3

**WISCONSIN PUBLIC SERVICE CORPORATION**  
**KEWAUNEE NUCLEAR POWER PLANT**  
**FOURTH 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	SP-36-267		Y	X	X	X	N			X	RR-1-4	Note 1, 2 and 3

**Category Notes:**

1. The pressure retaining boundary during the system leakage test shall correspond to the reactor coolant boundary, with all valves in the position required for normal reactor operation startup. The visual examination shall, however, extend to and include the second closed valve at the boundary extremity. The pressure retaining boundary during the system leakage test conducted at or near the end of each inspection interval shall extend to all Class 1 pressure retaining 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 repair/replacement activities shall be governed by IWA-5120.
3. The system leakage test (IWB-5220) shall be conducted prior to plant startup following each reactor refueling outage.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		N				N	X				STEAM GENERATOR 1A Note 1 and 3
C1.10	Shell Circumferential Welds	M-1206	SG-W22		Y		X		N	X				STEAM GENERATOR 1A Note 1, 2, and 3
C1.10	Shell Circumferential Welds	M-1206	SG-W10		Y	X			N	X				STEAM GENERATOR 1B Note 1 and 3
C1.10	Shell Circumferential Welds	M-1206	SG-W28		N				N	X				STEAM GENERATOR 1B Note 1, 2, and 3
C1.10	Shell Circumferential Welds	M-1207	AHRS1-W1		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		Y		X		N	X				LETDOWN HEAT EXCHANGER
C1.10	Shell Circumferential Welds	M-1212	AFSI-W1		Y			X	N	X				SEAL WATER INJECTION FILTER 1A Note 3
C1.10	Shell Circumferential Welds	M-1212	AFSI-W3		N				N	X				SEAL WATER INJECTION FILTER 1B Note 3
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		Y			X	N	X				STEAM GENERATOR 1B Note 3
C1.20	Head Circumferential Welds	M-1207	AHRS1-W2		Y		X		N	X				RHR HEAT EXCHANGER 1A Note 3

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-1207	AHRS2-W6		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		Y			X	N	X				LETDOWN HEAT EXCHANGER
C1.20	Head Circumferential Welds	M-1210	APD-1A-W1		Y	X			N	X				CHG PUMP PULSATION DAMPENER 1A Note 3
C1.20	Head Circumferential Welds	M-1210	APD-1A-W2		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

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-1B-W4		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		Y		X		N	X				SEAL WATER INJECTION FILTER 1A Note 3
C1.20	Head Circumferential Welds	M-1212	AFSI-W4		N				N	X				SEAL WATER INJECTION FILTER 1B Note 3
C1.30	Tubesheet-to-Shell Weld	M-1206	SG-W25		Y		X		N	X				STEAM GENERATOR 1A Note 3
C1.30	Tubesheet-to-Shell Weld	M-1206	SG-W31		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
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

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-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. Partially inaccessible weld due to bracket for Large Bore Hydraulic 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**

**FOURTH 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 > ½ 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		Y	X				X	X			STEAM GENERATOR 1A Note 1
C2.21	Nozzle-to-Shell (or Head) Weld	M-1206	SG-W15		Y			X		X	X			STEAM GENERATOR 1B Note 1
C2.21	Nozzle-to-Shell (or Head) Weld	M-1206	SG-W16		N					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		Y	X				X				STEAM GENERATOR 1A Note 1
C2.22	Nozzle Inside Radius Section	M-1206	SG-IR15		Y			X		X				STEAM GENERATOR 1B Note 1
C2.22	Nozzle Inside Radius Section	M-1206	SG-IR16		N					X				STEAM GENERATOR 1B Note 1

**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**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category C-C Description WELDED 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	Welded Attachments	M-1207	AHRS1-SW1		Y	X			N		X			RHR HEAT EXCHANGER 1A Note 1
C3.10	Welded Attachments	M-1207	AHRS1-SW2		N				N		X			RHR HEAT EXCHANGER 1A Note 1
C3.10	Welded Attachments	M-1207	AHRS2-SW3		N				N		X			RHR HEAT EXCHANGER 1B Note 1
C3.10	Welded Attachments	M-1207	AHRS2-SW4		N				N		X			RHR HEAT EXCHANGER 1B Note 1
C3.10	Welded Attachments	M-1209	AHNR-SW1		Y		X		N		X			LETDOWN HEAT EXCHANGER
C3.10	Welded Attachments	M-1209	AHNR-SW2		Y		X		N		X			LETDOWN HEAT EXCHANGER
C3.10	Welded Attachments	M-1212	AFSI-SW1		Y			X	N		X			SEAL WATER INJECTION FILTER 1A NOTE 1
C3.10	Welded Attachments	M-1212	AFSI-SW2		N				N		X			SEAL WATER INJECTION FILTER 1A NOTE 1
C3.10	Welded Attachments	M-1212	AFSI-SW3		N				N		X			SEAL WATER INJECTION FILTER 1A NOTE 1
C3.10	Welded Attachments	M-1212	AFSI-SW4		N				N		X			SEAL WATER INJECTION FILTER 1B NOTE 1
C3.10	Welded Attachments	M-1212	AFSI-SW5		N				N		X			SEAL WATER INJECTION FILTER 1B NOTE 1
C3.10	Welded Attachments	M-1212	AFSI-SW6		N				N		X			SEAL WATER INJECTION FILTER 1B NOTE 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category C-C Description WELDED 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		
	Piping													
C3.20	Welded Attachments	ISIM-865	FDW-H97		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-865	FDW-H98		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-866	FDW-H101		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-866	FDW-H102		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-866	FDW-H103		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-1	FDW-H63		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-1	FDW-H65		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-1	FDW-H73A		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-1	FDW-H75A		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-1	FDW-H79		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-1	FDW-H81		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-1	FDW-H96		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H64		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H82		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H83		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H84		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H85		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H86		N				N		X			Note 2

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category C-C Description WELDED 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	Welded Attachments	ISIM-877-2	FDW-H87		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H88		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H90		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H91		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H92		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-877-2	FDW-H93		Y	X			N		X			Note 2
C3.20	Welded Attachments	ISIM-891-1	FDW-H37		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-891-1	FDW-H39		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-891-1	FDW-H41		Y			X	N		X			Note 2
C3.20	Welded Attachments	ISIM-891-1	FDW-H46		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-891-1	FDW-H50		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-891-1	FDW-H70		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-891-1	FDW-H104		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-891-2	FDW-H56		Y		X		N		X			Note 2
C3.20	Welded Attachments	ISIM-891-2	FDW-H59		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-891-2	FDW-H61		Y			X	N		X			Note 2
C3.20	Welded Attachments	ISIM-934-2	SI-H16		Y	X			N		X			Note 2
C3.20	Welded Attachments	ISIM-934-2	SI-H17A		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-934-2	SI-H23		N				N		X			Note 2

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category C-C Description WELDED 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	Welded Attachments	ISIM-934-2	SI-H34		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-936	RSI-H4		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-936	RSI-H5A		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-937-2Sh1	RSI-H68		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-937-2Sh1	RSI-H72		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-937-2Sh1	RSI-H1		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-938-2Sh1	RRHR-H14		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-938-2Sh1	RRHR-H15		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-950-1	CS-H7		Y	X			N		X			Note 2
C3.20	Welded Attachments	ISIM-950-1	CS-H34		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-950-1	CS-H36		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-961-1	RHR-H21A		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-970	FDW-H169		Y			X	N		X			Note 2
C3.20	Welded Attachments	ISIM-971	FDW-H170		N				N		X			Note 2 Inaccessible
C3.20	Welded Attachments	ISIM-982	RSI-H8		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-982	RSI-H9		Y		X		N		X			Note 2
C3.20	Welded Attachments	ISIM-982	RSI-H10		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-982	RSI-H12		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-982	RSI-H13A		N				N		X			Note 2

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category C-C Description WELDED 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	Welded Attachments	ISIM-984-2Sh1	MS-H10		Y			X	N		X			Note 2
C3.20	Welded Attachments	ISIM-984-2Sh1	MS-H11		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-985-1Sh1	MS-H1		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-985-1Sh1	MS-H2		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-992-1	SI-H1		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-992-1	SI-H1A		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-992-1	SI-H2		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-992-1	SI-H3		N				N		X			Note 2
C3.20	Welded Attachments	ISIM-992-1	SI-H36		N				N		X			Note 2
	Pumps													
C3.30	Welded Attachments	M-1707	APSI-1A-S1		Y	X			N		X			SAFETY INJECTION PUMP 1A NOTE 2
C3.30	Welded Attachments	M-1707	APSI-1A-S2		N				N		X			SAFETY INJECTION PUMP 1A NOTE 2
C3.30	Welded Attachments	M-1707	APSI-1A-S3		N				N		X			SAFETY INJECTION PUMP 1A NOTE 2
C3.30	Welded Attachments	M-1707	APSI-1A-S4		N				N		X			SAFETY INJECTION PUMP 1A NOTE 2
C3.30	Welded Attachments	M-1707	APSI-1B-S1		N				N		X			SAFETY INJECTION PUMP 1B NOTE 2
C3.30	Welded Attachments	M-1707	APSI-1B-S2		N				N		X			SAFETY INJECTION PUMP 1B NOTE 2
C3.30	Welded Attachments	M-1707	APSI-1B-S3		N				N		X			SAFETY INJECTION PUMP 1B NOTE 2
C3.30	Welded Attachments	M-1707	APSI-1B-S4		Y			X	N		X			SAFETY INJECTION PUMP 1B NOTE 2

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category C-C Description WELDED 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		

**Category Notes:**

1. In case of multiple vessels of similar design, function, and service, only one welded attachment of only one of the multiple vessels shall be selected for examination.
2. For piping, pumps, and valves, a sample of 10% of the welded attachments associated with the component supports selected for examination under IWF-2510 shall be examined.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	SI-W124		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	SI-W125		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	SI-W126		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	SI-W127		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W177		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W177A		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W178		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W185		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W186		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W187		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W188		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-938-2SH1	RHR-W189		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-939SH1	SI-W149		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-939SH2	SI-W168		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-939SH2	SI-W169		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-950-1	ICS-W158		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-950-1	ICS-W163		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-950-1	ICS-W164		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-950-1	ICS-W165		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-950-1	ICS-W166		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-950-1	ICS-W167		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-950-1	ICS-W168		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-950-1	ICS-W179		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-951	ICS-W43		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-951	ICS-W44		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-952	ICS-W141		N				N	X	X			Risk Ranking Category: 7a
C5.11	Circumferential Weld	ISIM-952	ICS-W142		N				N	X	X			Risk Ranking Category: 7a
C5.11	Circumferential Weld	ISIM-953	ICS-W128		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-953	ICS-W129		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-954	ICS-W148		N				N	X	X			Risk Ranking Category: 7a
C5.11	Circumferential Weld	ISIM-954	ICS-W149		N				N	X	X			Risk Ranking Category: 7a
C5.11	Circumferential Weld	ISIM-957-1SH1	RHR-W46		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-957-1SH2	RHR-W45		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-957-2	RHR-W62		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-957-2	RHR-W63C		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-957-2	RHR-W412		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-958-1-1	RHR-W87		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-958-1-1	RHR-W88		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-958-1-1	RHR-W89		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-958-1-1	RHR-W413		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-958-1-1	RHR-W414		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-959-2	RHR-W111		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-959-2	RHR-W112		N				N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-959-2	RHR-W113		Y	X			N	X	X			Risk Ranking Category: 4
C5.11	Circumferential Weld	ISIM-959-2	RHR-W114		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W400		N				N	X	X			Risk Ranking Category: 6a
C5.11	Circumferential Weld	ISIM-959-2	RHR-W401		N				N	X	X			Risk Ranking Category: 6a
C5.12	Circumferential Weld	ISIM-950-1	ICS-W177L		N				N	X	X			Risk Ranking Category: N/A
C5.12	Circumferential Weld	ISIM-950-1	ICS-W178L		N				N	X	X			Risk Ranking Category: N/A
C5.12	Longitudinal Weld	ISIM-958-1-1	RHR-W415L		N				N	X	X			Risk Ranking Category: N/A
C5.12	Longitudinal Weld	ISIM-958-1-1	RHR-W416L		N				N	X	X			Risk Ranking Category: N/A
C5.12	Longitudinal Weld	ISIM-959-2	RHR-W402L		N				N	X	X			Risk Ranking Category: N/A
C5.12	Longitudinal Weld	ISIM-959-2	RHR-W403L		N				N	X	X			Risk Ranking Category: N/A
C5.12	Longitudinal Weld	ISIM-959-2	RHR-W404L		N				N	X	X			Risk Ranking Category: N/A
	Piping Welds < 3/8 In. Nominal Wall Thickness for Piping > NPS 4													
C5.13	Circumferential Weld	ISIM-933	RHR-W276		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W277		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W278		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W279		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W280		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W281		N				N	X	X			Risk Ranking Category: 6a

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	Vls		
C5.13	Circumferential Weld	ISIM-933	RHR-W282		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W283		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W315		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W316		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W317		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W318		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W319		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W320		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W321		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W322		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W323		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W324		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W325		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W326		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W327		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-933	RHR-W328		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W176A		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W179		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-938-2SH1	RHR-W180		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W181		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W182		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W183		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-938-2SH1	RHR-W184		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W151		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W152		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W153		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W154		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W155		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W156		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W157		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W158		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W159		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W160		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W161		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W162		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W163		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W164		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH1	SI-W165		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH2	SI-W166		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-939SH2	SI-W167		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	ICS-W45		Y		X		N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	ICS-W47		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	ICS-W48		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	ICS-W49		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	ICS-W159		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	ICS-W160		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	ICS-W161		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	ICS-W162		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	ICS-W169		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-1	RHR-W262		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W263		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W264		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W265		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W266		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W267		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W268		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W269		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W270		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W271		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W272		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W273		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W274		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W275		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W406		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W407		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-1	RHR-W408		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-2	ICS-W50		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-2	ICS-W52		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-2	ICS-W53		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-2	ICS-W54		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-2	ICS-W170		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	ICS-W171		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-2	ICS-W172		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-950-2	RHR-W298		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W299		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W300		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W301		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W302		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W303		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W304		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W305		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W306		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W307		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W308		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W309		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W310		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W311		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W312		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W313		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W314		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W409		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W410		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-950-2	RHR-W411		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W1		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W2		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W3		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W4		Y			X	N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W5		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W6		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W8		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W9		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W10		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W11		Y			X	N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W12		Y			X	N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W13		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W14		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W15		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W16		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W17		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W18		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W19		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W20		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W21		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W22		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W23		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W24		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W25		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W26		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W27		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W28		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W29		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W30		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W31		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W32		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W33		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W34		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W35		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W36		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-951	ICS-W37		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-951	ICS-W38		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-951	ICS-W39		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-951	ICS-W40		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-951	ICS-W41		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-951	ICS-W42		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-952	ICS-W143		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-952	ICS-W144		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-952	ICS-W145		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-952	ICS-W146		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-952	ICS-W147		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-953	ICS-W100		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W101		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W102		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W103		Y	X			N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W104		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W105		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W107		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W108		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W109		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W110		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W111		Y		X		N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W112		Y		X		N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W113		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W114		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W115		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W116		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W117		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W118		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W119		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W120		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W121		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-953	ICS-W122		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-953	ICS-W123		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-953	ICS-W124		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-953	ICS-W125		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-953	ICS-W126		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-953	ICS-W127		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-954	ICS-W150		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-954	ICS-W151		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-954	ICS-W152		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-954	ICS-W153		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-954	ICS-W154		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-954	ICS-W155		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-954	ICS-W156		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-954	ICS-W157		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-957-1SH2	RHR-W47		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-957-1SH2	RHR-W48		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W49		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W50		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W51		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W53		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W54		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W55		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W56		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W57		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W58		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W59		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W60		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W61		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-957-2	RHR-W63B		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W82		Y	X			N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W83		Y	X			N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-958-1-1	RHR-W84		Y			X	N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W85		Y			X	N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W90		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W91		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W92		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W93		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W94		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W96		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W97		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W98		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W99		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W100		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W101		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W102		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W134		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W135		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-958-1-1	RHR-W136		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W137		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W138		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W139		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W140		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-1-1	RHR-W141		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-1-2	RHR-W80		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-1-2	RHR-W81		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-2	RHR-W63		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W63A		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W64		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W65		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W66		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W66A		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W67		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W68		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W69		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W71		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W72		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W73		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W74		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W75		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-2	RHR-W76		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-2	RHR-W77		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-2	RHR-W78		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-2	RHR-W79		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-2	RHR-W103		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W104		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W105		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W106		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-958-2	RHR-W107		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-958-2	RHR-W108		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-959-1-1	RHR-W109		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W110		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W118		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W119		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W120		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W121		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W123		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W124		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W126		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W127		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W128		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W129		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W130		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W131		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W132		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-1-1	RHR-W133		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-959-2	RHR-W115		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-2	RHR-W116		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-2	RHR-W117		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-959-2	RHR-W191		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W192		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W193		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W194		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W195		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W196		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W197		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W198		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W199		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-959-2	RHR-W200		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W142		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W143		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W143-1		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W143-2		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W144		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W145		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W146		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W147		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W148		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W149		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W150		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W151		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W152		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W153		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W154		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W155		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W156		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W201		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W202		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W202-1		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W202-2		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W203		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W204		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W205		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W206		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W207		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W208		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W209		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W210		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W211		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W212		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W213		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W230		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-960-1	RHR-W231		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W232		N				N	X	X			Risk Ranking Category: 7a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W233		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W234		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W235		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W236		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W237		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W239		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-960-1	RHR-W240		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W225		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W226		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W227		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W228		N				N	X	X			Risk Ranking Category: 5a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W229		N				N	X	X			Risk Ranking Category: 5a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W241		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W242		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W243		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W244		N				N	X	X			Risk Ranking Category: 7a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-961-1	RHR-W245		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W246		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W247		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W248		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W249		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W250		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W251		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W252		N				N	X	X			Risk Ranking Category: 7a
C5.13	Circumferential Weld	ISIM-961-1	RHR-W419		Y	X			N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W420		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W421		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W422		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W423		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential weld	ISIM-961-1	RHR-W424		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W425		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W426		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W427		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W428		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-961-1	RHR-W429		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-1	RHR-W430		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-961-2	RHR-W214		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W215		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W216		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W217		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W218		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W219		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W220		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W221		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W222		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W223		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W224		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W284		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W285		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W286		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W287		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W288		N				N	X	X			Risk Ranking Category: 6a

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	RHR-W289		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W290		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W291		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W292		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W293		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W294		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W295		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W296		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	RHR-W297		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W128		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W129		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W130		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W131		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W132		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W133		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W134		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W135		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W136		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W137		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W138		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W139		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W140		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W141		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W142		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W143		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W144		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W145		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W146		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W147		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-961-2	SI-W148		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W162		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W163		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W164		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W165		N				N	X	X			Risk Ranking Category: 5a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W166		N				N	X	X			Risk Ranking Category: 5a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W167		N				N	X	X			Risk Ranking Category: 5a

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W168		Y		X		N	X	X			Risk Ranking Category: 5a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W169		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W170		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W171		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W172		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W173		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W174		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W175		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W176		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W253		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W254		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W255		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W256		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W257		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W258		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W259		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W260		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH1	RHR-W261		N				N	X	X			Risk Ranking Category: 6a

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-962-2SH2	RHR-W157		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W158		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W159		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W160		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-962-2SH2	RHR-W161		N				N	X	X			Risk Ranking Category: 6a
C5.13	Circumferential Weld	ISIM-1646	ICS-W173		N				N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-1646	ICS-W174		Y	X			N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-1646	ICS-W175		Y		X		N	X	X			Risk Ranking Category: 4
C5.13	Circumferential Weld	ISIM-1646	ICS-W176		N				N	X	X			Risk Ranking Category: 4
C5.14	Circumferential Weld	ISIM-933	SI-W394		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W395		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W396		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W397		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W398		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W400		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W401		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W402		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W403		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W407		N				N	X	X			Risk Ranking Category: 4; Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W409		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W410		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W411		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W412		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W413		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W414		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W415		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W416		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W417		Y		X		N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W418		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W419		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W420		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W421		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W422		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W423		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W424		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W425		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W426		N				N	X	X			Risk Ranking Category: 4; Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W427		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W428		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W429		Y	X			N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W430		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W431		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W432		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W433		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W435		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W436		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-933	SI-W437		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-958-1-2	SI-W559		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-958-1-2	RHR-W417		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	RHR-W329		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	SI-W561		N				N	X	X			Risk ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	SI-W562		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	SI-W563		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	SI-W564		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	SI-W565		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	SI-W566L		N				N	X	X			Risk Ranking Category: N/A; Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-959-1-1	SI-W567L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	SI-W568L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-959-1-1	SI-W569L		N				N	X	X			Risk ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W466		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W467		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W468		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W469		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W470		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W471		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W472		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W473		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W474		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W475		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W476		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W477		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W478		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W479		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W480		N				N	X	X			Risk Ranking Category: 4; Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W481		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W482		N				N	X	X			Risk ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W483		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W484		N				N	X	X			Risk ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W485		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W486		N				N	X	X			Risk ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W487		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W488		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W489		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W560		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W570		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W571		Y		X		N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W573		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W574		Y			X	N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W575		Y			X	N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W576		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W577		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W578		N				N	X	X			Risk Ranking Category: 4; Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W579		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W580		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W581		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W582		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W583		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W584		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W585		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W586		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W587		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISM-992-1	SI-W588		N				N	X	X			Risk Ranking Category: 4; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W589L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W590L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W591L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W592L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W593L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W594L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W595L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W596L		N				N	X	X			Risk Ranking Category: N/A; Note 1
C5.14	Circumferential Weld	ISIM-992-1	SI-W597L		N				N	X	X			Risk ranking Category: N/A; Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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 > 1/5 In. Nominal Wall Thickness for Piping ≥ NPS 2 and ≤ NPS 4													
C5.21	Circumferential Weld	ISIM-934-1	SI-W200		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W201		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W202		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W203		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W204		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W205		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W206		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W207		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W208		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W209		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W210		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W211		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W212		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W213		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W214		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W215		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W216		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W217		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W218		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W219		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W221		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W222		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W223		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W224		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W225		Y		X		N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W226		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W227		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W228		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W229		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W230		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W231		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W232		Y			X	N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W233		Y			X	N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W234		Y	X			N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W235		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W236		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W237		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-1	SI-W238		N				N	X	X			Risk Ranking Category: 6a
C5.21	Circumferential Weld	ISIM-934-1	SI-W239		N				N	X	X			Risk Ranking Category: 6a
C5.21	Circumferential Weld	ISIM-934-2	SI-W220		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W240		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W241		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W242		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W243		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W244		Y		X		N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W245		Y		X		N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W246		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W247		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W248		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W249		Y		X		N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W250		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W251		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W252		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W253		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	Vls		
C5.21	Circumferential Weld	ISIM-934-2	SI-W254		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W255		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W256		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W257		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W258		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W259		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W260		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W261		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W262		Y	X			N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W263		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W264		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W265		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W266		Y			X	N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W267		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W268		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-934-2	SI-W269		N				N	X	X			Risk Ranking Category: 6a
C5.21	Circumferential Weld	ISIM-934-2	SI-W270		N				N	X	X			Risk Ranking Category: 6a
C5.21	Circumferential Weld	ISIM-936	SI-W271		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W272		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-936	SI-W273		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W274		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W275		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W276		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W277		Y			X	N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W278		Y			X	N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W279		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W280		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W281		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W282		Y		X		N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W283		Y	X			N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W284		Y	X			N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W285		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W286		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W287		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-936	SI-W288		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-1	SI-W342		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-1	SI-W343		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-1	SI-W344		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-937-1	SI-W345		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-1	SI-W346		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-1	SI-W347		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-1	SI-W348		Y			X	N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-1	SI-W349		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-1	SI-W350S		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH1	SI-W309S		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W304		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W305		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W306		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W307		Y			X	N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W308		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W338		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W339		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W340		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-937-2SH2	SI-W341		N				N	X	X			Risk Ranking Category: 4
C5.21	Circumferential Weld	ISIM-982	SI-W438S		N				N	X	X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-933	SI-W405S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-933	SI-W406S		N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W289S		Y		X		N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-936	SI-W557S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-936	SI-W291S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-936	SI-W292S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W293S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W294S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W295S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W296S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W297S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W298S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W556S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W300S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W301S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W302S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-936	SI-W303S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W546S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-1	SI-W547S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W548S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W549S		N				N		X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-937-1	SI-W550S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W352S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W353S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W354S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W355S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W356S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W357S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W358S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-1	SI-W359S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W310S		Y		X		N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W311S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W312S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W313S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W314S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W315S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W316S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W317S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W318S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W319S		N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-937-2SH1	SI-W320S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W321S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W322S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W323S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W324S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W325S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W326S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W327S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W555S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W329S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W331S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W332S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W333S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W334S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W335S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W336S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W337S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W551S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-937-2SH1	SI-W552S		N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-937-2SH1	SI-W553S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH1	SI-W554S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-937-2SH2	SI-W330S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W439S		Y			X	N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W440S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W441S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W442S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W443S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W444S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W445S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W446S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W447S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W448S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W449S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W450S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W451S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W452S		N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W453S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W454S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W455S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W456S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W457S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W458S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W459S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W460S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W461S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W462S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W463S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W464S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W465S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-982	SI-W542S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W543S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-982	SI-W544S		N				N		X			Risk ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W545S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-993	SI-W492S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W493S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W494S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W495S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W496S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-993	SI-W497S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-993	SI-W498S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W499S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W500S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W501S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W502S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W503S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W504S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W505S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W506S		N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W507S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W508S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W509S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W510S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W511S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W512S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W513S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W514S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W515S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W516S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W517S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W518S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-993	SI-W519S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-993	SI-W520S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W521S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W522S		N				N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W523S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W524S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W525S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W526S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W527S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W528S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W529S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W530S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W531S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W532S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W533S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W540S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-993	SI-W535S		N				N		X			Risk Ranking Category: 6a
C5.30	Socket Welds	ISIM-993	SI-W536S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W537S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-993	SI-W538S		N				N		X			Risk ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W541S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W360S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W361S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W362S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W363S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W364S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W365S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W366S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W367S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W369S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W370S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W371S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W372S		Y		X		N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W373S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W374S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W375S		Y	X			N		X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W376S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W377S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W378S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W379S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W380S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W381S		N				N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W382S		Y	X			N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W383S		Y			X	N		X			Risk Ranking Category: 4
C5.30	Socket Welds	ISIM-1608	SI-W384S		N				N		X			Risk Ranking Category: 4
	Piping Branch Connections of Branch Piping $\geq$ NPS 2													
C5.41	Circumferential Weld	ISIM-993	SI-W399BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-993	SI-W404BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-993	SI-W434BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-934-1	SI-W540BC		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-934-2	SI-W491BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-950-1	ICS-W46BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-950-2	ICS-W51BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-951	ICS-W7BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-953	ICS-W106BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-958-1-1	SI-W558BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-958-1-2	RHR-W95BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-958-1-2	RHR-W86BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-958-2	RHR-W70BC		N				N	X	X			Risk Ranking Category: 6a
C5.41	Circumferential Weld	ISIM-959-1-1	RHR-W122BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-959-1-1	RHR-W125BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-960-1	RHR-W238BC		N				N	X	X			Risk Ranking Category: 7a
C5.41	Circumferential Weld	ISIM-961-1	RHR-W431BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-992-1	SI-W368BC		N				N	X	X			Risk Ranking Category: 4; Heat traced line
C5.41	Circumferential Weld	ISIM-992-1	SI-W385BC		N				N	X	X			Risk Ranking Category: 4
C5.41	Circumferential Weld	ISIM-992-1	SI-W572BC		N				N	X	X			Risk Ranking Category: 4

**Category Notes:**

1. C5.14 represents an item number created by KNPP for SI piping welds < 3/8 in. nominal wall thickness for piping > NPS 4.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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. Nonminal Wall Thickness for Piping > NPS 4													
C5.51	Circumferential Weld	ISIM-866	FW-W54		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-871	MS-W118		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W2		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W3		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W4		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W5		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W6		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W7		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W8		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W100		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-871	MS-W120		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W119		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W50		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W51		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W52		N				N	X	X			Risk Ranking Category: 6a

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W54		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W54A		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W55		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W56		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-872	MS-W121		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-968	MS-W79		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-968	MS-W80		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-968	MS-W81		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-968	MS-W82		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-968	MS-W83		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-969	MS-W20		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-969	MS-W21		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-969	MS-W22		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-969	MS-W23		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W12		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W13		N				N	X	X			Risk Ranking Category: 6a

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**FOURTH 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			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W15		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W16		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W17		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W18		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W19		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W20		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W21		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W22		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W23		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-970	FW-W24		Y			X	N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-970	FW-W25		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-970	FW-W26		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-970	FW-W63		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-970	FW-W58		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-970	FW-W60		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-970	FW-W64		N				N	X	X			Risk Ranking Category: 5a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W66		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-971	FW-W42		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W43		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W44		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W45		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W46		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W47		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W48		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W49		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W50		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W51		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-971	FW-W52		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-971	FW-W61		Y	X			N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-971	FW-W62		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-971	FW-W59		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-971	FW-W65		N				N	X	X			Risk Ranking Category: 5a
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W32		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W33		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W34		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W35		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W36		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W39P		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W40		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-972-1SH1	FW-W41		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W9		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W10		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W10A		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W11		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W12		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W13		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W14		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W15		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W16		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W18		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	Vls		
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W24		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W26		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W28		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W30		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W32		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH1	MS-W47P		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH2	MS-W96		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-984-2SH2	MS-W97		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W57		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W58		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W59		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W59A		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W60		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W61		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W62		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W63		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W64		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-985-1SH1	MS-W65		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W67		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W69		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W71		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W73		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W75		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W77		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-985-1SH1	MS-W94P		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-991-1SH1	FW-W6		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-991-1SH1	FW-W7P		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-991-1SH1	FW-W8P		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-991-1SH1	FW-W10		N				N	X	X			Risk Ranking Category: 6a
C5.51	Circumferential Weld	ISIM-991-1SH1	FW-W11		N				N	X	X			Risk Ranking Category: 6a
	Piping Welds ≥ 3/8 In. Nominal Wall Thickness for Piping > NPS 4													
C5.52	Longitudinal Weld	ISIM-871	MS-W43L		N				N	X	X			Risk Ranking Category: N/A

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W44L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-871	MS-W45L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-871	MS-W46L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-871	MS-W101L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-871	MS-W102L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-871	MS-W103L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-871	MS-W104L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-871	MS-W105L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-872	MS-W90L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-872	MS-W91L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-872	MS-W92L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-872	MS-W93L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-872	MS-W106L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-872	MS-W107L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-872	MS-W108L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-872	MS-W109L		N				N	X	X			Risk Ranking Category: N/A

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-872	MS-W110L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W33L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W34L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W35L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W36L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W37L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W38L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W39L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W40L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W41L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W42L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W111L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W112L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-984-2SH1	MS-W117L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W82L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W83L		N				N	X	X			Risk Ranking Category: N/A

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-W84L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W85L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W86L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W87L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W88L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH2	MS-W89L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH1	MS-W113L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH1	MS-W114L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH1	MS-W115L		N				N	X	X			Risk Ranking Category: N/A
C5.52	Longitudinal Weld	ISIM-985-1SH1	MS-W116L		N				N	X	X			Risk Ranking Category: N/A
	Piping Welds > 1/5 in. Nominal Wall Thickness for Piping ≥ NPS 2 and ≤ NPS 4													
C5.61	Circumferential Weld	ISIM-865	AFW-W59		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W60		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W61		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W62		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
C5.61	Circumferential Weld	ISIM-865	AFW-W63		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W64		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W65		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W66		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W67		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W68		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W69		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W70		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W71		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W72		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W73		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W74		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W75		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W76		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W77		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W78		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W79		N				N	X	X			Risk Ranking Category: 5a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
C5.61	Circumferential Weld	ISIM-865	AFW-W146		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-865	AFW-W147		N				N	X	X			Risk Ranking Category: 5a
C5.61	Circumferential Weld	ISIM-866	AFW-W124		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W125		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W126		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W127		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W128		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W129		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W130		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W131		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W132		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W133		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W134		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W135		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W136		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W137		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W138		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
C5.61	Circumferential Weld	ISIM-866	AFW-W139		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W140		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W141		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-866	AFW-W142		N				N	X	X			Risk Ranking Category: 5a
C5.61	Circumferential Weld	ISIM-866	AFW-W143		Y			X	N	X	X			Risk Ranking Category: 5a
C5.61	Circumferential Weld	ISIM-866	AFW-W144		N				N	X	X			Risk Ranking Category: 5a
C5.61	Circumferential Weld	ISIM-866	AFW-W145		N				N	X	X			Risk Ranking Category: 5a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W14		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W15		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W16		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W17		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W18		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W19		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W20		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W21		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W22		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W23		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
C5.61	Circumferential Weld	ISIM-877-1	AFW-W24		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W25		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W26		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W27		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W28		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W29		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W30		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W31		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W32		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W33		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W34		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W35		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W36		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W37		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W38		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W39		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-1	AFW-W40		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
C5.61	Circumferential Weld	ISIM-877-2	AFW-W41		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W42		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W43		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W44		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W45		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W46		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W47		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W48		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W49		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W50		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W51		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W52		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W53		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W54		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W55		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W56		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-877-2	AFW-W57		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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	Vls		
C5.61	Circumferential Weld	ISIM-877-2	AFW-W58		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W90		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W91		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W92		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W93		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W94		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W95		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W96		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W97		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W98		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W99		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-1	AFW-W100		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W101		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W102		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W103		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W104		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W105		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
C5.61	Circumferential Weld	ISIM-891-1	AFW-W106		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W107		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W108		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W109		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W110		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W111		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W112		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W113		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W114		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W115		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W116		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W117		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W118		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W119		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W120		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W121		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-1	AFW-W122		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
C5.61	Circumferential Weld	ISIM-891-1	AFW-W123		N				N	X	X			Risk Ranking Category: 6a
C5.61	Circumferential Weld	ISIM-891-2	AFW-W1		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W2		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W3		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W4		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W5		Y	X			N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W6		Y	X			N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W7		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W8		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W9		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W10		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W11		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W12		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W13		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W80		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W81		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W82		N				N	X	X			Risk Ranking Category: 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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		
C5.61	Circumferential Weld	ISIM-891-2	AFW-W83		N				N	X	X			Risk ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W84		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W85		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W86		N				N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W87		Y		X		N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W88		Y		X		N	X	X			Risk Ranking Category: 4
C5.61	Circumferential Weld	ISIM-891-2	AFW-W89		N				N	X	X			Risk Ranking Category: 4
	Pipe Branch Connections of Branch Piping ≥ NPS 2													
C5.81	Circumferential Weld	ISIM-970	FW-W27BC		N				N	X	X			Risk Ranking Category: 5a
C5.81	Circumferential Weld	ISIM-971	FW-W55BC		N				N	X	X			Risk Ranking Category: 5a
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W19BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W23BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W25BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W27BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W29BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-984-2SH3	MS-W31BC		N				N	X	X			Risk Ranking Category: 6a

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH 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-985-1SH3	MS-W68BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W70BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W72BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W74BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W76BC		N				N	X	X			Risk Ranking Category: 6a
C5.81	Circumferential Weld	ISIM-985-1SH3	MS-W78BC		N				N	X	X			Risk Ranking Category: 6a

Category Notes: None

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category C-G Description PRESSURE RETAINING WELDS IN PUMPS

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		
C6.10	Pump Casing Weld	M1707	APSI-1A-W1		Y		X				X			
C6.10	Pump Casing Weld	M1707	APSI-1A-W2		Y			X			X			
C6.10	Pump Casing Weld	M1707	APSI-1B-W1		N						X			
C6.10	Pump Casing Weld	M1707	APSI-1B-W2		N						X			

**Category Notes:**

1. None.

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

**Examination Category** C-II      **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		
C7.10	Pressure Retaining Components	ISI-XK-100-10, 18, 28, 29, 35, 36, 44, ISIM-203, 205, 214, 217, 218, 219, and 350	SP-05A-260, SP-06-258, SP-23-032, SP-33-029, SP-33-039, SP-33-042, SP-33-235, SP-34-053, SP-35-083, SP-36-267(2)		Y	X	X	X	N			X		

**Category Notes:**

None

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-A Description WELDED 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													
D1.10	Welded Attachment	M-1218	ATCS-S1		Y		X		N			X		COMPONENT COOLING SURGE TANK NOTE 3
D1.10	Welded Attachment	M-1218	ATCS-S2		Y		X		N			X		COMPONENT COOLING SURGE TANK NOTE 3
D1.10	Welded Attachment	M-1221	AHEL-1A-S1		Y			X	N			X		EXCESS LETDOWN HEAT EXCHANGER 1A NOTE 3
D1.10	Welded Attachment	M-1221	AHEL-1A-S2		Y			X	N			X		EXCESS LETDOWN HEAT EXCHANGER 1A NOTE 3
D1.10	Welded Attachment	M-1221	AHEL-1B-S1		N				N			X		EXCESS LETDOWN HEAT EXCHANGER 1B NOTE 3
D1.10	Welded Attachment	M-1221	AHEL-1B-S2		N				N			X		EXCESS LETDOWN HEAT EXCHANGER 1B NOTE 3
D1.10	Welded Attachment	M-1222	AHCC1-1A-S3		N				N			X		COMPONENT COOLING HEAT EXCHANGER 1A NOTE 3
D1.10	Welded Attachment	M-1222	AHCC1-1A-S4		N				N			X		COMPONENT COOLING HEAT EXCHANGER 1A NOTE 3
D1.10	Welded Attachment	M-1222	AHCC2-1B-S3		Y			X	N			X		COMPONENT COOLING HEAT EXCHANGER 1B NOTE 3
D1.10	Welded Attachment	M-1222	AHCC2-1B-S4		Y			X	N			X		COMPONENT COOLING HEAT EXCHANGER 1B NOTE 3

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-A Description WELDED 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		
D1.10	Welded Attachment	M-1224	AHRS1-1A-WS5		Y	X			N			X		RHR HEAT EXCHANGER 1A NOTE 3
D1.10	Welded Attachment	M-1224	AHRS1-1A-WS6		Y	X			N			X		RHR HEAT EXCHANGER 1A NOTE 3
D1.10	Welded Attachment	M-1224	AHRS1-1A-WS7		Y	X			N			X		RHR HEAT EXCHANGER 1A NOTE 3
D1.10	Welded Attachment	M-1224	AHRS1-1A-WS8		Y	X			N			X		RHR HEAT EXCHANGER 1A NOTE 3
D1.10	Welded Attachment	M-1224	AHRS2-1B-WS9		N				N			X		RHR HEAT EXCHANGER 1B NOTE 3
D1.10	Welded Attachment	M-1224	AHRS2-1B-WS10		N				N			X		RHR HEAT EXCHANGER 1B NOTE 3
D1.10	Welded Attachment	M-1224	AHRS2-1B-WS11		N				N			X		RHR HEAT EXCHANGER 1B NOTE 3
D1.10	Welded Attachment	M-1224	AHRS2-1B-WS12		N				N			X		RHR HEAT EXCHANGER 1B NOTE 3
D1.10	Welded Attachment	M-1226	AHLD-WS3		Y		X		N			X		LETDOWN HEAT EXCHANGER NOTE 3
D1.10	Welded Attachment	M-1226	AHLD-WS4		Y		X		N			X		LETDOWN HEAT EXCHANGER NOTE 3
D1.10	Welded Attachment	M-1226	AHLD-WS5		Y			X	N			X		LETDOWN HEAT EXCHANGER NOTE 3
D1.10	Welded Attachment	M-1226	AHLD-WS6		Y			X	N			X		LETDOWN HEAT EXCHANGER NOTE 3
D1.10	Welded Attachment	M-1709	CRAC-1A-S1		Y		X		N			X		CONTROL ROOM AIR CONDITIONING UNIT 1A COIL NOTE 3
D1.10	Welded Attachment	M-1709	CRAC-1B-S1		Y				N			X		CONTROL ROOM AIR CONDITIONING UNIT 1B COIL NOTE 3
	Piping													
D1.20	Welded Attachment	ISIM-867	RSW-H13		Y			X	N			X		Note 4

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-A Description WELDED 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		
D1.20	Welded Attachment	ISIM-868	RSW-H3		Y			X	N			X		Notes 1 and 4
D1.20	Welded Attachment	ISIM-870	RSW-H18		Y			X	N			X		Note 4
D1.20	Welded Attachment	ISIM-875	AC-H3		Y	X			N			X		Note 4
D1.20	Welded Attachment	ISIM-875	AC-H5		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-881-1	AC-H16		N				N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-881-1	AC-H17		Y	X			N			X		Note 4
D1.20	Welded Attachment	ISIM-881-1	AC-H22		Y	X			N			X		Note 4
D1.20	Welded Attachment	ISIM-885-1	RSW-H14		Y		X		N			X		Note 4
D1.20	Welded Attachment	ISIM-885-1	RSW-H15		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-885-1	RSW-H16		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-885-1	RSW-H113		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-886	RSW-H77		Y		X		N			X		Note 4
D1.20	Welded Attachment	ISIM-888-1	RSW-H39		Y			X	N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-888-2	RSW-H36		Y			X	N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-889-1	RSW-H3		Y		X		N			X		Notes 1 and 4
D1.20	Welded Attachment	ISIM-889-1	RSW-H18		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-889-1	RSW-H19		N				N			X		Notes 2 and 4

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-A Description WELDED 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		
D1.20	Welded Attachment	ISIM-889-1	RSW-H62		Y			X	N			X		Note 4
D1.20	Welded Attachment	ISIM-889-1	RSW-H63		N				N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-889-2	RSW-H3		N				N			X		Notes 1 and 4
D1.20	Welded Attachment	ISIM-889-2	RSW-H6		Y		X		N			X		Note 4
D1.20	Welded Attachment	ISIM-889-2	RSW-H32		Y		X		N			X		Note 4
D1.20	Welded Attachment	ISIM-891-2	FDW-H55		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-891-2	FDW-H58		Y			X	N			X		Note 4
D1.20	Welded Attachment	ISIM-893	SW-H8		N				N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-893	SW-H9		Y		X		N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-900	SW-H10		N				N			X	E 3-4	Notes 2 and 4
D1.20	Welded Attachment	ISIM-901	SW-H149		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-901	SW-H150		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-901	SW-H153A		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-901	SW-H261		Y			X	N			X		Note 4
D1.20	Welded Attachment	ISIM-913	AC-H2		Y	X						X		Note 4
D1.20	Welded Attachment	ISIM-913	AC-H4		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-913	AC-H9		N				N			X		Note 4

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-A Description WELDED 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		
D1.20	Welded Attachment	ISIM-913	AC-H67		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-914	AC-H10		Y	X			N			X		Note 4
D1.20	Welded Attachment	ISIM-914	AC-H18		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-914	AC-H20		N				N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-914	AC-H64		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-915	AC-H23		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-915	AC-H25		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-915	AC-H25A		Y	X			N			X		Note 4
D1.20	Welded Attachment	ISIM-922	SW-H134		N				N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-922	SW-H177		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-922	SW-H178		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-922	SW-H181		N				N			X	E 3-4	Note 4
D1.20	Welded Attachment	ISIM-922	SW-H182		N				N			X	E 3-4	Note 4
D1.20	Welded Attachment	ISIM-922	SW-H418		Y		X		N			X		Note 4
D1.20	Welded Attachment	ISIM-924-1	SW-H87		N				N			X	E 3-4	Notes 2 and 4

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-A Description WELDED 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		
D1.20	Welded Attachment	ISIM-924-1	SW-H248		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-924-1	SW-H401		Y			X	N			X		Note 4
D1.20	Welded Attachment	ISIM-924-2	SW-H143		Y			X	N			X		Notes 2 and 4
D1.20	Welded Attachment	ISIM-924-2	SW-H526		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-926	SW-H167		Y			X	N			X		Note 4
D1.20	Welded Attachment	ISIM-926	SW-H168		N				N			X		Note 4
D1.20	Welded Attachment	ISIM-999	AC-H43		Y	X			N			X		Note 4
D1.20	Welded Attachment	ISIM-999	AC-H50		N				N			X		Note 4
	Pumps													
D1.30	Welded Attachment	M-1231	APFT-S1		Y		X		N			X		TURBINE DRIVEN AFW PUMP NOTE 4
D1.30	Welded Attachment	M-1231	APFT-S2		Y		X		N			X		TURBINE DRIVEN AFW PUMP NOTE 4
D1.30	Welded Attachment	M-1231	APFT-S3		Y		X		N			X		TURBINE DRIVEN AFW PUMP NOTE 4
D1.30	Welded Attachment	M-1231	APFT-S4		Y		X		N			X		TURBINE DRIVEN AFW PUMP NOTE 4
D1.30	Welded Attachment	M-1232	APFM-1A-S1		N				N			X		AUXILIARY FEEDWATER PUMP 1A NOTE 4
D1.30	Welded Attachment	M-1232	APFM-1A-S2		N				N			X		AUXILIARY FEEDWATER PUMP 1A NOTE 4
D1.30	Welded Attachment	M-1232	APFM-1A-S3		Y		X		N			X		AUXILIARY FEEDWATER PUMP 1A NOTE 4

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-A Description WELDED 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		
D1.30	Welded Attachment	M-1232	APFM-1A-S4		Y		X		N			X		AUXILIARY FEEDWATER PUMP 1A NOTE 4
D1.30	Welded Attachment	M-1232	APFM-1B-S1		Y	X			N			X		AUXILIARY FEEDWATER PUMP 1B Note 4
D1.30	Welded Attachment	M-1232	APFM-1B-S2		Y	X			N			X		AUXILIARY FEEDWATER PUMP 1B NOTE 4
D1.30	Welded Attachment	M-1232	APFM-1B-S3		N				N			X		AUXILIARY FEEDWATER PUMP 1B NOTE 4
D1.30	Welded Attachment	M-1232	APFM-1B-S4		N				N			X		AUXILIARY FEEDWATER PUMP 1B NOTE 4
D1.30	Welded Attachment	M-1234	APCC-1A-S1		Y			X	N			X		COMPONENT COOLING PUMP 1A NOTE 4
D1.30	Welded Attachment	M-1234	APCC-1B-S1		Y			X	N			X		COMPONENT COOLING PUMP 1B NOTE 4
	Valves													
D1.40	Welded Attachment	ISIM-889-1	RSW-H59		Y	X			N			X		Note 4

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-A Description WELDED 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		
D1.40	Welded Attachment	ISIM-889-1	RSW-H60		Y			X	N			X		Note 4

**Category Notes:**

1. This support/hanger appears on more than one drawing and has welded attachments on more than one line that is being supported by the support/hanger. Refer to Appendix D for additional drawings.
2. This support/hanger appears on more than one drawing and has welded attachments identified on more than one drawing but the welded attachment is attached to only one component. Refer to Appendix D for additional drawings.
3. For multiple vessels of similar design, function and service, the welded attachments of only one of the multiple vessels shall be selected for examination.
4. For welded attachments of piping, pumps, and valves a 10% sample shall be selected for examination. This percentage sample shall be proportional to the total of nonexempt welded attachments connected to the piping, pumps, and valves in each system subject to these examinations.

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category D-B Description ALL PRESSURE RETAINING COMPONENTS

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	ISIXK100-18, 19, 20, 35, 36, ISIM-202-1, 202-2, 203, 205, 214, 217, 218, 350, 547, 588 and 606	System Leakage Test SP-02-249, SP-02-249, SP-05B-237, SP-06-258, SP-21-257, SP-31-248		Y	X	X		N			X		
D2.20	Pressure Retaining Components	ISIXK100-18, 19, 20, 35, 36, ISIM-202-1, 202-2, 203, 205, 214, 217, 218, 350, 547, 588 and 606	System Hydrostatic Test SP-02-249, SP 02-252, SP 05B-237, SP-06-258, SP-21-257, SP 31-248		Y			X	Y			X	N-498-4	Note 1

**Category Notes:**

Note 1: The system hydrostatic test (IWD-5222) shall be conducted at or near the end of each inspection interval or during the same inspection interval of Inspection Program B.

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

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		
F1.10A	36-3	ISIM-874-2	RC-H28		N				N			X		
F1.10A	36-3	ISIM-874-2	RC-H29		N				N			X		
F1.10A	36-3	ISIM-874-2	RC-H31		Y			X	N			X		
F1.10A	36-3	ISIM-874-3	RCVC-H46		N				N			X		
F1.10A	36-3	ISIM-874-3	RCVC-H48		N				N			X		
F1.10A	36-3	ISIM-874-3	RCVC-H50		N				N			X		
F1.10A	33	ISIM-938-1	RRHR-H17		N				N			X		Note 1
F1.10A	33	ISIM-939SH1	RSI-H41		Y		X		N			X		Note 1
F1.10A	33	ISIM-939SH1	RSI-H103		N				N			X		
F1.10A	33	ISIM-939SH1	RSI-H104		N				N			X		
F1.10A	34	ISIM-957-1SH1	RRHR-H2		N				N			X		Note 1
F1.10A	34	ISIM-957-1SH1	RRHR-H4		Y			X	N			X		Note 1
F1.10A	34	ISIM-957-1SH1	RRHR-H8		N				N			X		
F1.10A	36-4	ISIM-1460	RTD-H4		Y	X			N			X		
F1.10A	36-4	ISIM-1461	RTD-H9		N				N			X		
F1.10A	35-2	ISIM-1471	RCVC-H198		N				N			X		

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

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		
F1.10A	35-2	ISIM-1471	RCVC-H200		N				N			X		
F1.10A	35-2	ISIM-1471	RCVC-H201		N				N			X		
F1.10A	35-2	ISIM-1471	RCVC-H202		N				N			X		
F1.10A	35-2	ISIM-1471	RCVC-H209		Y	X			N			X		
F1.10A	35-2	ISIM-1471	RCVC-H330		N				N			X		
F1.10A	35-2	ISIM-1476	RCVC-H237		Y		X		N			X		
F1.10A	35-2	ISIM-1476	RCVC-H239		N				N			X		
F1.10B	36-3	ISIM-874-1	RC-H14		N				N			X		Note 1
F1.10B	36-3	ISIM-874-1	RC-H16		N				N			X		
F1.10B	36-3	ISIM-874-1	RC-H19		N				N			X		
F1.10B	36-3	ISIM-874-1	RC-H21		N				N			X		
F1.10B	36-3	ISIM-874-2	RC-H23		N				N			X		Note 1
F1.10B	36-3	ISIM-874-2	RC-H24		Y	X			N			X		Note 1
F1.10B	36-3	ISIM-874-2	RC-H26		N				N			X		
F1.10B	36-3	ISIM-874-2	RC-H27		N				N			X		Note 1
F1.10B	36-3	ISIM-874-2	RC-H30		Y			X	N			X		

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS I PIPING SUPPORTS

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		
F1.10B	36-3	ISIM-874-2	RC-H34		N				N			X		
F1.10B	36-3	ISIM-874-2	RC-H35		N				N			X		Note 1
F1.10B	36-3	ISIM-874-3	RCVC-H45		N				N			X		
F1.10B	36-3	ISIM-874-3	RCVC-H47		N				N			X		
F1.10B	33	ISIM-935	RSI-H56		N				N			X		Note 1
F1.10B	33	ISIM-935	RSI-H57		Y		X		N			X		Note 1
F1.10B	33	ISIM-935	RSI-H58		N				N			X		Note 1
F1.10B	33	ISIM-936	RSI-H7A		N				N			X		
F1.10B	33	ISIM-936	RSI-H7B		N				N			X		
F1.10B	33	ISIM-936	RSI-H82		N				N			X		
F1.10B	33	ISIM-937-1	RSI-H85		Y	X			N			X		
F1.10B	33	ISIM-938-1	RRHR-H19		N				N			X		Note 1
F1.10B	33	ISIM-938-2SH1	RSI-H33		Y			X	N			X		Note 1
F1.10B	33	ISIM-938-2SH1	RSI-H34		N				N			X		Note 1
F1.10B	33	ISIM-939SH1	RSI-H44		Y			X	N			X		Note 1
F1.10B	33	ISIM-939SH1	RSI-H62		N				N			X		Note 1

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

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		
F1.10B	33	ISIM-939SH1	RSI-H65		N				N			X		
F1.10B	36-2	ISIM-940-2	RC-H8		N				N			X		Note 1
F1.10B	36-2	ISIM-940-2	RC-H9		Y			X	N			X		Note 1
F1.10B	34	ISIM-957-1SH1	RRHR-H3		N				N			X		Note 1
F1.10B	34	ISIM-957-1SH1	RRHR-H7		N				N			X		
F1.10B	34	ISIM-957-1SH1	RRHR-H20		N				N			X		
F1.10B	34	ISIM-957-1SH1	RRHR-H23		N				N			X		
F1.10B	34	ISIM-957-1SH1	RRHR-H24		Y	X			N			X		
F1.10B	34	ISIM-957-1SH1	RRHR-H25		N				N			X		
F1.10B	33	ISIM-982	RSI-H14A		N				N			X		
F1.10B	33	ISIM-982	RSI-H14B		N				N			X		
F1.10B	35-2	ISIM-1471	RCVC-H199		Y			X	N			X		
F1.10B	35-2	ISIM-1471	RCVC-H203		Y		X		N			X		
F1.10B	35-2	ISIM-1471	RCVC-H204		N				N			X		
F1.10B	35-2	ISIM-1471	RCVC-H205		N				N			X		
F1.10B	35-2	ISIM-1471	RCVC-H206		N				N			X		

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

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		
F1.10B	35-2	ISIM-1471	RCVC-H207		N				N			X		
F1.10B	35-2	ISIM-1471	RCVC-H208		N				N			X		
F1.10B	35-2	ISIM-1471	RCVC-H210		N				N			X		
F1.10B	35-2	ISIM-1471	RCVC-H331		N				N			X		
F1.10B	35-3	ISIM-1473	RCVC-H214		Y		X		N			X		
F1.10B	35-3	ISIM-1473	RCVC-H215		N				N			X		
F1.10B	35-3	ISIM-1473	RCVC-H217		N				N			X		
F1.10B	35-1	ISIM-1474	RCVC-H222		Y			X	N			X		
F1.10B	35-2	ISIM-1476	RCVC-H236		Y		X		N			X		
F1.10B	35-2	ISIM-1476	RCVC-H238		N				N			X		
F1.10B	35-2	ISIM-1476	RCVC-H240		Y	X			N			X		
F1.10B	35-2	ISIM-1476	RCVC-H241		N				N			X		
F1.10B	35-2	ISIM-1476	RCVC-H242		N				N			X		
F1.10B	35-2	ISIM-1476	RCVC-H243		N				N			X		
F1.10B	35-2	ISIM-1476	RCVC-H244		N				N			X		
F1.10C	36-3	ISIM-874-1	RC-H13		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

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		
F1.10C	36-3	ISIM-874-1	RC-H15		Y	X			N			X		
F1.10C	36-3	ISIM-874-1	RC-H17		N				N			X		
F1.10C	36-3	ISIM-874-1	RC-H18		N				N			X		
F1.10C	36-3	ISIM-874-1	RC-H20		N				N			X		
F1.10C	36-3	ISIM-874-2	RC-H22		N				N			X		Note 1
F1.10C	36-3	ISIM-874-2	RC-H25		Y			X	N			X		
F1.10C	36-3	ISIM-874-2	RC-H29A		N				N			X		Note 1
F1.10C	36-3	ISIM-874-2	RC-H32		N				N			X		Note 1
F1.10C	36-3	ISIM-874-2	RC-H33		N				N			X		Note 1
F1.10C	36-3	ISIM-874-2	RC-H36		N				N			X		
F1.10C	36-3	ISIM-874-3	RCVC-H35		Y			X	N			X		
F1.10C	36-3	ISIM-874-3	RCVC-H44		N				N			X		
F1.10C	36-3	ISIM-874-3	RCVC-H49		N				N			X		
F1.10C	36-3	ISIM-874-3	RCVC-H51		N				N			X		
F1.10C	36-1	ISIM-892	RC-H41		Y			X	N			X		
F1.10C	33	ISIM-936	RSI-H7		Y			X	N			X		Note 1

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

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		
F1.10C	33	ISIM-937-2SH1	RSI-H77		N				N			X		Note 1
F1.10C	33	ISIM-938-1	RRHR-H18		N				N			X		
F1.10C	33	ISIM-939SH1	RSI-H63		N				N			X		
F1.10C	33	ISIM-939SH1	RSI-H64		N				N			X		Note 1
F1.10C	33	ISIM-939SH1	RSI-H66		Y	X			N			X		
F1.10C	33	ISIM-939SH1	RSI-H67		N				N			X		
F1.10C	36-2	ISIM-940-1	RC-H11		N				N			X		
F1.10C	36-2	ISIM-940-1	RC-H12		Y	X			N			X		
F1.10C	34	ISIM-957-1SH1	RRHR-H11		N				N			X		Note 1
F1.10C	34	ISIM-957-1SH1	RRHR-H6		Y		X		N			X		
F1.10C	34	ISIM-957-1SH1	RRHR-H9		N				N			X		Note 1
F1.10C	34	ISIM-957-1SH1	RRHR-H21		N				N			X		
F1.10C	34	ISIM-957-1SH1	RRHR-H22		N				N			X		
F1.10C	33	ISIM-982	RSI-H14		N				N			X		Note 1
F1.10C	35-1	ISIM-1369-2	RCVC-H165		Y		X		N			X		
F1.10C	36-4	ISIM-1460	RTD-H1		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

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		
F1.10C	36-4	ISIM-1460	RTD-H2		Y		X		N			X		
F1.10C	36-4	ISIM-1460	RTD-H3		N				N			X		
F1.10C	36-4	ISIM-1460	RTD-H5		N				N			X		
F1.10C	36-4	ISIM-1460	RTD-H6		N				N			X		
F1.10C	36-4	ISIM-1461	RTD-H7		N				N			X		
F1.10C	36-4	ISIM-1461	RTD-H8		N				N			X		
F1.10C	36-4	ISIM-1461	RTD-H10		Y			X	N			X		
F1.10C	36-4	ISIM-1461	RTD-H11		N				N			X		
F1.10C	36-4	ISIM-1461	RTD-H12		N				N			X		
F1.10C	35-2	ISIM-1471	RCVC-H36		N				N			X		
F1.10C	35-3	ISIM-1473	RCVC-H33A		N				N			X		
F1.10C	35-3	ISIM-1473	RCVC-H33B		Y			X	N			X		
F1.10C	35-3	ISIM-1473	RCVC-H34		N				N			X		Note 1
F1.10C	35-3	ISIM-1473	RCVC-H213		N				N			X		
F1.10C	35-3	ISIM-1473	RCVC-H216		N				N			X		
F1.10C	35-1	ISIM-1474	RCVC-H32		N				N			X		

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 1 PIPING SUPPORTS

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		
F1.10C	35-1	ISIM-1474	RCVC-H221		N				N			X		
F1.10C	35-1	ISIM-1474	RCVC-H223		N				N			X		
F1.10C	35-1	ISIM-1474	RCVC-H224		N				N			X		
F1.10C	35-2	ISIM-1476	RCVC-H245		Y		X		N			X		

**Category Notes:**

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

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20A	05B	ISIM-866	FDW-H99		N				N			X		
F1.20A	05B	ISIM-866	FDW-H100		N				N			X		
F1.20A	05B	ISIM-877-1	FDW-H62		N				N			X		
F1.20A	05B	ISIM-877-1	FDW-H65		Y		X		N			X		Note 1
F1.20A	05B	ISIM-877-1	FDW-H66		Y		X		N			X		
F1.20A	05B	ISIM-877-1	FDW-H67		Y		X		N			X		
F1.20A	05B	ISIM-877-1	FDW-H72A		N				N			X		
F1.20A	05B	ISIM-877-1	FDW-H74A		N				N			X		
F1.20A	05B	ISIM-877-1	FDW-H77		N				N			X		
F1.20A	05B	ISIM-877-1	FDW-H78		N				N			X		
F1.20A	05B	ISIM-877-1	FDW-H80		N				N			X		
F1.20A	05B	ISIM-877-1	FDW-H89		N				N			X		
F1.20A	05B	ISIM-877-2	FDW-H64		N				N			X		Note 1
F1.20A	05B	ISIM-877-2	FDW-H84		N				N			X		Note 1
F1.20A	05B	ISIM-877-2	FDW-H85		N				N			X		Note 1
F1.20A	05B	ISIM-877-2	FDW-H87		N				N			X		Note 1
F1.20A	05B	ISIM-877-2	FDW-H88		N				N			X		Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20A	05B	ISIM-877-2	FDW-H91		Y	X			N			X		Note 1
F1.20A	05B	ISIM-877-2	FDW-H94		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H35		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H36		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H38		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H40		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H41		Y			X	N			X		Note 1
F1.20A	05B	ISIM-891-1	FDW-H42		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H43		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H45		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H47		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H48		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H49		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H51		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H69		N				N			X		
F1.20A	05B	ISIM-891-1	FDW-H69A		N				N			X		
F1.20A	05B	ISIM-891-2	FDW-H56		Y		X		N			X		Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20A	05B	ISIM-891-2	FDW-II60		N				N			X		
F1.20A	33	ISIM-933	SI-H10		N				N			X		
F1.20A	33	ISIM-933	SI-H11		N				N			X		
F1.20A	33	ISIM-933	SI-H15		N				N			X		
F1.20A	33	ISIM-934-1	SI-H18		N				N			X		
F1.20A	33	ISIM-934-1	SI-H19		N				N			X		
F1.20A	33	ISIM-934-1	SI-H42		N				N			X		
F1.20A	33	ISIM-934-2	SI-H16		Y	X			N			X		Note 1
F1.20A	33	ISIM-934-2	SI-H20		N				N			X		
F1.20A	33	ISIM-934-2	SI-H21		N				N			X		
F1.20A	33	ISIM-934-2	SI-H22		N				N			X		
F1.20A	33	ISIM-936	RSI-H4		N				N			X		
F1.20A	33	ISIM-936	RSI-H80		N				N			X		
F1.20A	33	ISIM-936	RSI-H81		N				N			X		
F1.20A	33	ISIM-937-1	RSI-H86		N				N			X		
F1.20A	33	ISIM-937-1	RSI-H88		N				N			X		
F1.20A	33	ISIM-937-1	RSI-H91		N				N			X		

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20A	33	ISIM-937-2SH1	RSI-H68		N				N			X		Note 1
F1.20A	33	ISIM-937-2SH1	RSI-H70		N				N			X		
F1.20A	33	ISIM-937-2SH1	RSI-H72		N				N			X		Note 1
F1.20A	33	ISIM-938-2SH1	RSI-H1		Y			X	N			X		Note 1
F1.20A	34	ISIM-938-2SH1	RRHR-H16		N				N			X		
F1.20A	23	ISIM-950-1	CS-H4		N				N			X		
F1.20A	23	ISIM-950-1	CS-H6		N				N			X		
F1.20A	23	ISIM-950-2	CS-H9		N				N			X		
F1.20A	23	ISIM-950-2	CS-H10		Y	X			N			X		
F1.20A	23	ISIM-950-2	CS-H12		Y		X		N			X		
F1.20A	23	ISIM-950-2	CS-H13		N				N			X		
F1.20A	23	ISIM-950-2	CS-H15		N				N			X		
F1.20A	23	ISIM-951	CS-H18		N				N			X		
F1.20A	23	ISIM-951	CS-H20		N				N			X		
F1.20A	23	ISIM-951	CS-H21		N				N			X		
F1.20A	23	ISIM-951	CS-H26		N				N			X		
F1.20A	23	ISIM-951	CS-H27		N				N			X		

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20A	23	ISIM-951	CS-H37		N				N			X		
F1.20A	23	ISIM-952	ICS-H3		N				N			X		
F1.20A	23	ISIM-953	CS-H30		N				N			X		
F1.20A	23	ISIM-953	CS-H32		Y			X	N			X		
F1.20A	23	ISIM-953	CS-H33		N				N			X		
F1.20A	23	ISIM-954	ICS-H6		N				N			X		
F1.20A	34	ISIM-957-2	RRHR-H10		Y		X		N			X		
F1.20A	34	ISIM-957-2	RRHR-H11		N				N			X		
F1.20A	34	ISIM-958-1-1	RHR-H41		N				N			X		
F1.20A	34	ISIM-961-1	RHR-H21		Y		X		N			X		
F1.20A	34	ISIM-961-2	RHR-H12		N				N			X		
F1.20A	34	ISIM-962-2SH1	RHR-H9		N				N			X		
F1.20A	33	ISIM-982	RSI-H8		N				N			X		Note 1
F1.20A	33	ISIM-982	RSI-H9		Y		X		N			X		Note 1
F1.20A	33	ISIM-982	RSI-H11		N				N			X		
F1.20A	33	ISIM-933	SI-H49		N				N			X		
F1.20A	34	ISIM-961-1	RHR-H21		Y		X		N			X		

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20A	33	ISIM-992-1	SI-H3		N				N			X		Note 1
F1.20A	33	ISIM-1608	SI-H85		N				N			X		
F1.20B	05B	ISIM-865	FDW-H98		N				N			X		Note 1
F1.20B	05B	ISIM-866	FDW-H101		N				N			X		Note 1
F1.20B	05B	ISIM-877-1	FDW-H63		N				N			X		Note 1
F1.20B	05B	ISIM-877-1	FDW-H68		Y		X		N			X		
F1.20B	05B	ISIM-877-1	FDW-H73A		N				N			X		Note 1
F1.20B	05B	ISIM-877-1	FDW-H75A		N				N			X		Note 1
F1.20B	05B	ISIM-877-1	FDW-H79		N				N			X		Note 1
F1.20B	05B	ISIM-877-1	FDW-H81		N				N			X		Note 1
F1.20B	05B	ISIM-877-1	FDW-H96		N				N			X		Note 1
F1.20B	05B	ISIM-877-1	FDW-H173		N				N			X		
F1.20B	05B	ISIM-877-2	FDW-H82		N				N			X		Note 1
F1.20B	05B	ISIM-877-2	FDW-H83		N				N			X		Note 1
F1.20B	05B	ISIM-877-2	FDW-H86		N				N			X		Note 1
F1.20B	05B	ISIM-877-2	FDW-H90		Y	X			N			X		Note 1
F1.20B	05B	ISIM-877-2	FDW-H92		Y	X			N			X		Note 1

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20B	05B	ISIM-877-2	FDW-H93		Y	X			N			X		Note 1
F1.20B	05B	ISIM-877-2	FDW-H172		N				N			X		
F1.20B	05B	ISIM-877-2	FDW-H174		N				N			X		
F1.20B	05B	ISIM-891-1	FDW-H37		N				N			X		Note 1
F1.20B	05B	ISIM-891-1	FDW-H39		N				N			X		Note 1
F1.20B	05B	ISIM-891-1	FDW-H44		N				N			X		
F1.20B	05B	ISIM-891-1	FDW-H46		N				N			X		Note 1
F1.20B	05B	ISIM-891-1	FDW-H50		N				N			X		Note 1
F1.20B	05B	ISIM-891-1	FDW-H70		N				N			X		Note 1
F1.20B	05B	ISIM-891-1	FDW-H104		N				N			X		Note 1
F1.20B	05B	ISIM-891-2	FDW-H59		N				N			X		Note 1
F1.20B	05B	ISIM-891-2	FDW-H61		N				N			X		Note 1
F1.20B	33	ISIM-933	SI-H10A		N				N			X		
F1.20B	33	ISIM-933	SI-H15A		N				N			X		
F1.20B	34	ISIM-933	RHR-H10G		N				N			X		
F1.20B	33	ISIM-934-1	SI-H19B		N				N			X		
F1.20B	33	ISIM-934-2	SI-H17A		Y	X			N			X		Note 1

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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	Vls		
F1.20B	33	ISIM-934-2	SI-H21A		N				N			X		
F1.20B	33	ISIM-934-2	SI-H23		N				N			X		Note 1
F1.20B	33	ISIM-934-2	SI-H25		N				N			X		
F1.20B	33	ISIM-934-2	SI-H33		N				N			X		
F1.20B	33	ISIM-934-2	SI-H34		N				N			X		
F1.20B	33	ISIM-934-2	SI-H41		Y			X	N			X		
F1.20B	33	ISIM-936	RSI-H3		N				N			X		
F1.20B	33	ISIM-936	RSI-H5		N				N			X		
F1.20B	33	ISIM-936	RSI-H5A		N				N			X		
F1.20B	33	ISIM-936	RSI-H6		N				N			X		
F1.20B	33	ISIM-936	RSI-H79		N				N			X		
F1.20B	33	ISIM-937-1	RSI-H87		N				N			X		
F1.20B	33	ISIM-937-1	RSI-H89		N				N			X		
F1.20B	33	ISIM-937-1	RSI-H90		N				N			X		
F1.20B	33	ISIM-937-1	RSI-H92		Y			X	N			X		
F1.20B	33	ISIM-937-2SH1	RSI-H69		N				N			X		
F1.20B	33	ISIM-937-2SH1	RSI-H71		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20B	33	ISIM-937-2SH1	RSI-H73		N				N			X		
F1.20B	33	ISIM-937-2SH1	RSI-H74		N				N			X		
F1.20B	33	ISIM-937-2SH1	RSI-H75		N				N			X		
F1.20B	33	ISIM-937-2SH1	RSI-H76		N				N			X		
F1.20B	33	ISIM-937-2SH1	RSI-H93		N				N			X		
F1.20B	33	ISIM-939SH1	RSI-H60		N				N			X		
F1.20B	33	ISIM-939SH1	RSI-H47		N				N			X		
F1.20B	34	ISIM-950-1	RHR-H10F		N				N			X		
F1.20B	23	ISIM-950-1	CS-H2		Y	X			N			X		
F1.20B	23	ISIM-950-1	CS-H5		N				N			X		
F1.20B	23	ISIM-950-1	CS-H7		Y	X			N			X		Note 1
F1.20B	23	ISIM-950-1	CS-H8		N				N			X		
F1.20B	23	ISIM-950-1	CS-H34		N				N			X		Note 1
F1.20B	23	ISIM-950-1	CS-H35		N				N			X		
F1.20B	23	ISIM-950-1	CS-H36		N				N			X		Note 1
F1.20B	23	ISIM-950-1	CS-H41		N				N			X		
F1.20B	23	ISIM-950-1	CS-H50		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20B	23	ISIM-950-2	CS-H11		Y		X		N			X		
F1.20B	23	ISIM-950-2	CS-H14		Y		X		N			X		
F1.20B	23	ISIM-950-2	CS-H40		N				N			X		
F1.20B	23	ISIM-950-2	CS-H45		N				N			X		
F1.20B	23	ISIM-950-2	CS-H48		N				N			X		
F1.20B	23	ISIM-951	CS-H17		N				N			X		
F1.20B	23	ISIM-951	CS-H19		N				N			X		
F1.20B	23	ISIM-951	CS-H22		N				N			X		
F1.20B	23	ISIM-951	CS-H23		N				N			X		
F1.20B	23	ISIM-951	CS-H24		N				N			X		
F1.20B	23	ISIM-951	CS-H25		N				N			X		
F1.20B	23	ISIM-951	CS-H27A		N				N			X		
F1.20B	23	ISIM-951	CS-H46		Y			X	N			X		
F1.20B	23	ISIM-951	CS-H49		N				N			X		
F1.20B	23	ISIM-953	CS-H29		N				N			X		
F1.20B	23	ISIM-953	CS-H31		N				N			X		
F1.20B	23	ISIM-953	CS-H38		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20B	23	ISIM-953	CS-H44		N				N			X		
F1.20B	34	ISIM-958-1-1	RHR-H33		Y	X			N			X		
F1.20B	34	ISIM-958-1-1	RHR-H33A		N				N			X		
F1.20B	34	ISIM-959-1-1	RHR-H25A		Y		X		N			X		
F1.20B	34	ISIM-959-1-1	RHR-H31		N				N			X		
F1.20B	34	ISIM-959-1-1	RHR-H39		N				N			X		
F1.20B	34	ISIM-959-2	RHR-H34		N				N			X		
F1.20B	34	ISIM-959-2	RHR-H34A		N				N			X		
F1.20B	34	ISIM-960-1	RHR-H52		Y			X	N			X		
F1.20B	34	ISIM-960-1	RHR-H53		N				N			X		
F1.20B	34	ISIM-961-1	RHR-H21B		N				N			X		
F1.20B	34	ISIM-961-2	RHR-H50		N				N			X		
F1.20B	34	ISIM-962-2SH1	RHR-H9A		N				N			X		
F1.20B	34	ISIM-962-2SH1	RHR-H29		N				N			X		
F1.20B	34	ISIM-962-2SH1	RHR-H48		N				N			X		
F1.20B	34	ISIM-962-2SH1	RHR-H51		N				N			X		
F1.20B	34	ISIM-962-2SH1	RHR-H55		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20B	05A	ISIM-970	FDW-H169		N				N			X		Note 1
F1.20B	05A	ISIM-971	FDW-H170		N				N			X		Note 1
F1.20B	33	ISIM-982	RSI-H10		Y			X	N			X		Note 1
F1.20B	33	ISIM-982	RSI-H12		Y		X		N			X		Note 1
F1.20B	33	ISIM-982	RSI-H13A		N				N			X		Note 1
F1.20B	33	ISIM-982	RSI-H84		N				N			X		
F1.20B	6	ISIM-984-2SH1	MS-H10		N				N			X		
F1.20B	6	ISIM-984-2SH1	MS-H11		N				N			X		
F1.20B	6	ISIM-985-1SH1	MS-H1		N				N			X		
F1.20B	6	ISIM-985-1SH1	MS-H2		Y		X		N			X		
F1.20B	33	ISIM-992-1	SI-H1		N				N			X		Note 1
F1.20B	33	ISIM-992-1	SI-H1A		N				N			X		Note 1
F1.20B	33	ISIM-992-1	SI-H2		N				N			X		Note 1
F1.20B	33	ISIM-992-1	SI-H36		N				N			X		Note 1
F1.20B	33	ISIM-993	SI-H45		N				N			X		
F1.20B	33	ISIM-993	SI-H46		Y	X			N			X		
F1.20B	33	ISIM-993	SI-H50		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20B	33	ISIM-1608	SI-H84		N				N			X		
F1.20C	05B	ISIM-865	FDW-H97		N				N			X		Note 1
F1.20C	05B	ISIM-866	FDW-H102		N				N			X		Note 1
F1.20C	05B	ISIM-866	FDW-H102A		N				N			X		
F1.20C	05B	ISIM-866	FDW-H102B		N				N			X		
F1.20C	05B	ISIM-866	FDW-H103		N				N			X		Note 1
F1.20C	05B	ISIM-891-1	FDW-H35A		N				N			X		
F1.20C	05B	ISIM-891-1	FDW-H41A		Y			X	N			X		
F1.20C	05B	ISIM-891-1	FDW-H41B		Y			X	N			X		
F1.20C	05B	ISIM-891-1	FDW-H70A		N				N			X		
F1.20C	33	ISIM-934-1	SI-H19A		N				N			X		
F1.20C	33	ISIM-934-1	SI-H26		N				N			X		
F1.20C	33	ISIM-934-1	SI-H27		N				N			X		
F1.20C	33	ISIM-934-2	SI-H17		N				N			X		
F1.20C	33	ISIM-934-2	SI-H24		N				N			X		
F1.20C	33	ISIM-934-2	SI-H35		N				N			X		
F1.20C	33	ISIM-936	RSI-H2		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20C	33	ISIM-936	RSI-H2A		N				N			X		
F1.20C	33	ISIM-936	RSI-H78		N				N			X		
F1.20C	33	ISIM-936	RSI-H101		N				N			X		
F1.20C	33	ISIM-937-1	RSI-H99		N				N			X		
F1.20C	33	ISIM-937-2SH1	RSI-H98		Y			X	N			X		
F1.20C	34	ISIM-938-2SH1	RRHR-H14		N				N			X		
F1.20C	34	ISIM-938-2SH1	RRHR-H15		N				N			X		
F1.20C	33	ISIM-939SH1	RSI-H49		Y	X			N			X		
F1.20C	33	ISIM-939SH1	RSI-H52		N				N			X		
F1.20C	33	ISIM-939SH1	RSI-H53		N				N			X		
F1.20C	33	ISIM-939SH1	RSI-H59		N				N			X		
F1.20C	33	ISIM-939SH1	RSI-H61		N				N			X		
F1.20C	23	ISIM-950-1	CS-H3		N				N			X		
F1.20C	23	ISIM-951	CS-H16		Y	X			N			X		
F1.20C	23	ISIM-951	CS-H39		N				N			X		
F1.20C	23	ISIM-952	ICS-H8		N				N			X		
F1.20C	23	ISIM-953	CS-H28		Y			X	N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
				Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.20C	23	ISIM-953	CS-H33A	N				N			X		
F1.20C	23	ISIM-954	ICS-H10	N				N			X		
F1.20C	23	ISIM-954	ICS-H11	N				N			X		
F1.20C	34	ISIM-958-1-1	RHR-H27	Y	X			N			X		
F1.20C	34	ISIM-958-1-1	RHR-H37	Y	X			N			X		
F1.20C	34	ISIM-958-1-1	RHR-H38	N				N			X		
F1.20C	34	ISIM-958-1-1	RHR-H38A	N				N			X		
F1.20C	34	ISIM-958-1-1	RHR-H41A	N				N			X		
F1.20C	34	ISIM-958-1-1	RHR-H42	N				N			X		
F1.20C	34	ISIM-958-2	RHR-H23	Y		X		N			X		
F1.20C	34	ISIM-958-2	RHR-H25	Y		X		N			X		
F1.20C	34	ISIM-958-2	RBR-H26	N				N			X		
F1.20C	34	ISIM-959-1-1	RHR-H35	N				N			X		
F1.20C	34	ISIM-959-1-1	RHR-H35A	N				N			X		
F1.20C	34	ISIM-959-1-1	RHR-H40	N				N			X		
F1.20C	34	ISIM-959-2	RHR-H28	N				N			X		
F1.20C	34	ISIM-959-2	RHR-H36	N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

Item No.	Parts Examined	ISI Drawing No.	Equipment No.	Examination Period					Examination Methods			Exemption, Code Case, or Relief Request	Comments
				Sch	1	2	3	EOI	Vol	Sur	Vis		
F1.20C	34	ISIM-959-2	RHR-H36A	N				N			X		
F1.20C	34	ISIM-960-1	RHR-H16	Y			X	N			X		
F1.20C	34	ISIM-960-1	RHR-H11	Y			X	N			X		
F1.20C	34	ISIM-960-1	RHR-H17	N				N			X		
F1.20C	34	ISIM-960-1	RHR-H18	N				N			X		
F1.20C	34	ISIM-960-1	RHR-H19	N				N			X		
F1.20C	34	ISIM-960-1	RHR-H22	N				N			X		
F1.20C	34	ISIM-960-1	RHR-H24	N				N			X		
F1.20C	34	ISIM-961-1	RHR-H10	N				N			X		
F1.20C	34	ISIM-961-1	RHR-H20	N				N			X		
F1.20C	34	ISIM-961-1	RHR-H21A	N				N			X		
F1.20C	34	ISIM-961-1	RHR-H32	Y			X	N			X		
F1.20C	34	ISIM-961-2	RHR-H1	Y			X	N			X		
F1.20C	34	ISIM-961-2	RHR-H10B	N				N			X		
F1.20C	34	ISIM-961-2	RHR-H10C	N				N			X		
F1.20C	34	ISIM-961-2	RHR-H10D	N				N			X		
F1.20C	34	ISIM-961-2	RHR-H12A	N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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		
F1.20C	34	ISIM-961-2	RHR-H12B		N				N			X		
F1.20C	34	ISIM-961-2	RHR-H14		N				N			X		
F1.20C	34	ISIM-961-2	RHR-H16		N				N			X		
F1.20C	34	ISIM-961-2	RHR-H16A		N				N			X		
F1.20C	34	ISIM-961-2	RHR-H30		N				N			X		
F1.20C	34	ISIM-962-2SH1	RHR-H3		N				N			X		
F1.20C	34	ISIM-962-2SH1	RHR-H10A		N				N			X		
F1.20C	34	ISIM-962-2SH1	RHR-H10E		N				N			X		
F1.20C	34	ISIM-962-2SH1	RHR-H10H		N				N			X		
F1.20C	34	ISIM-962-2SH1	RHR-H13		N				N			X		
F1.20C	34	ISIM-962-2SH1	RHR-H49		N				N			X		
F1.20C	6	ISIM-968	MSRH-H1		N				N			X		
F1.20C	6	ISIM-969	MSRH-H2		N				N			X		
F1.20C	05A	ISIM-970	FDW-H16		N				N			X		
F1.20C	33	ISIM-892	RSI-H13		Y		X		N			X		
F1.20C	33	ISIM-982	RSI-H83		N				N			X		
F1.20C	33	ISIM-982	RSI-H100		N				N			X		

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 2 PIPING SUPPORTS

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

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**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30A	2	ISIM-868	RSW-H2		N				N			X		Note 2
F1.30A	2	ISIM-868	RSW-H4		N				N			X		
F1.30A	2	ISIM-869	RSW-H31		N				N			X		
F1.30A	31	ISIM-875	AC-H6		N				N			X		
F1.30A	31	ISIM-875	AC-H8		N				N			X		
F1.30A	31	ISIM-881-1	AC-H19		N				N			X		
F1.30A	31	ISIM-881-1	AC-H21		N				N			X		
F1.30A	31	ISIM-881-1	AC-H76		N				N			X		Note 2
F1.30A	2	ISIM-881-1	RSW-H50		N				N			X		
F1.30A	2	ISIM-889-1	RSW-H9		Y		X		N			X		Note 1 and 3
F1.30A	2	ISIM-889-1	RSW-H53		Y	X			N			X		
F1.30A	31	ISIM-890	AC-H51		N				N			X		
F1.30A	05B	ISIM-891-2	FDW-H52		N				N			X		
F1.30A	05B	ISIM-891-2	FDW-H53		N				N			X		
F1.30A	05B	ISIM-891-2	FDW-H54		N				N			X		
F1.30A	05B	ISIM-891-2	FDW-H55		Y			X	N			X		Note 3

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30A	05B	ISIM-891-2	FDW-H57		N				N			X		
F1.30A	2	ISIM-893	SWSH-H11		N				N			X		
F1.30A	2	ISIM-893	SWSH-H533		N				N			X		
F1.30A	2	ISIM-893	SWSH-H534		N				N			X		
F1.30A	2	ISIM-897-2	SW-H232A		N				N			X		
F1.30A	2	ISIM-900	SW-H51		N				N			X		
F1.30A	2	ISIM-900	SW-H155		N				N			X		
F1.30A	2	ISIM-900	SW-H235		N				N			X		
F1.30A	2	ISIM-900	SW-H236		N				N			X		
F1.30A	2	ISIM-900	SW-H237		N				N			X		
F1.30A	2	ISIM-900	SW-H238		N				N			X		
F1.30A	2	ISIM-900	SW-H239		N				N			X		
F1.30A	2	ISIM-900	SW-H241		Y	X			N			X		
F1.30A	31	ISIM-913	AC-H1		N				N			X		
F1.30A	31	ISIM-913	AC-H7		N				N			X		
F1.30A	31	ISIM-913	AC-H9		Y			X	N			X		Note 3

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.30A	31	ISIM-913	AC-H11		N				N			X		
F1.30A	31	ISIM-914	AC-H10		N				N			X		Note 3
F1.30A	31	ISIM-914	AC-H12		N				N			X		
F1.30A	31	ISIM-915	AC-H24		N				N			X		
F1.30A	31	ISIM-915	AC-H25		Y		X		N			X		Note 3
F1.30A	31	ISIM-915	AC-H25A		N				N			X		Note 3
F1.30A	2	ISIM-922	SW-H97		N				N			X		
F1.30A	2	ISIM-922	SW-H101		N				N			X		
F1.30A	2	ISIM-922	SW-H102		N				N			X		
F1.30A	2	ISIM-922	SW-H104		N				N			X		
F1.30A	2	ISIM-922	SW-H104A		N				N			X		
F1.30A	2	ISIM-922	SW-H132		N				N			X		
F1.30A	2	ISIM-922	SW-H415		N				N			X		
F1.30A	2	ISIM-922	SW-H419		N				N			X		
F1.30A	2	ISIM-924-1	SW-H88		N				N			X		
F1.30A	2	ISIM-924-1	SW-H89		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30A	2	ISIM-924-1	SW-H118		N				N			X		
F1.30A	2	ISIM-924-1	SW-H119		N				N			X		
F1.30A	2	ISIM-924-2	SW-H138		N				N			X		
F1.30A	2	ISIM-924-2	SW-H142		N				N			X		
F1.30A	2	ISIM-924-2	SW-H142A		N				N			X		
F1.30A	2	ISIM-924-2	SW-H244		N				N			X		
F1.30A	2	ISIM-924-2	SW-H250		N				N			X		
F1.30A	2	ISIM-924-2	SW-H252		N				N			X		
F1.30A	2	ISIM-926	SW-H92		N				N			X		
F1.30A	2	ISIM-926	SW-H129		N				N			X		
F1.30A	2	ISIM-926	SW-H130		Y			X	N			X		
F1.30A	2	ISIM-926	SW-H144		N				N			X		
F1.30A	2	ISIM-926	SW-H214		N				N			X		
F1.30A	2	ISIM-926	SW-H215		N				N			X		
F1.30A	31	ISIM-999	AC-H45		N				N			X		
F1.30A	31	ISIM-999	AC-H47		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30A	31	ISIM-999	AC-H50		N				N			X		Note 3
F1.30B	2	ISIM-868	RSW-H3		N				N			X		Note 1 and 3
F1.30B	2	ISIM-869	RSW-H10		N				N			X		Note 2
F1.30B	31	ISIM-875	AC-H3		N				N			X		Note 3
F1.30B	31	ISIM-875	AC-H5		N				N			X		Note 3
F1.30B	31	ISIM-881-1	AC-H16		Y			X	N			X		Note 2 and 3
F1.30B	2	ISIM-885-1	RSW-H14		N				N			X		Note 3
F1.30B	2	ISIM-885-1	RSW-H15		N				N			X		Note 3
F1.30B	2	ISIM-885-1	RSW-H16		Y		X		N			X		Note 3
F1.30B	2	ISIM-885-1	RSW-H113		N				N			X		Note 3
F1.30B	2	ISIM-885-1	RSW-H165		N				N			X		
F1.30B	2	ISIM-886	RSW-H77		N				N			X		Note 3
F1.30B	2	ISIM-888-1	RSW-H39		Y			X	N			X		Note 2 and 3
F1.30B	2	ISIM-888-1	RSW-H51		N				N			X		
F1.30B	2	ISIM-888-2	RSW-H36		N				N			X		Note 2 and 3
F1.30B	2	ISIM-888-2	RSW-H49		N				N			X		

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30B	2	ISIM-889-1	RSW-H59		Y	X			N			X		Note 3
F1.30B	2	ISIM-889-1	RSW-H60		N				N			X		Note 3
F1.30B	2	ISIM-889-1	RSW-H61		N				N			X		
F1.30B	2	ISIM-889-1	RSW-H62		N				N			X		Note 3
F1.30B	2	ISIM-889-1	RSW-H63		Y			X	N			X		Note 2 and 3
F1.30B	2	ISIM-889-2	RSW-H35		N				N			X		
F1.30B	31	ISIM-890	AC-H65		N				N			X		
F1.30B	31	ISIM-890	AC-H77		N				N			X		
F1.30B	05B	ISIM-881-2	FDW-H53A		N				N			X		
F1.30B	05B	ISIM-881-2	FDW-H58		Y			X	N			X		Note 3
F1.30B	2	ISIM-893	SW-H1		N				N			X		
F1.30B	2	ISIM-893	SW-H2		N				N			X		
F1.30B	2	ISIM-893	SW-H3		N				N			X		
F1.30B	2	ISIM-893	SW-H3A		N				N			X		
F1.30B	2	ISIM-893	SW-H4		N				N			X		
F1.30B	2	ISIM-893	SW-H4A		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.30B	2	ISIM-893	SW-H5		N				N			X		
F1.30B	2	ISIM-893	SW-H6		N				N			X		
F1.30B	2	ISIM-893	SW-H7		N				N			X		
F1.30B	2	ISIM-893	SW-H8		N				N			X		Note 2 and 3
F1.30B	2	ISIM-893	SW-H9		Y		X		N			X		Note 2 and 3
F1.30B	2	ISIM-893	SW-H530		N				N			X		
F1.30B	2	ISIM-893	SW-H531		N				N			X		
F1.30B	2	ISIM-893	SWSH-H9		N				N			X		
F1.30B	2	ISIM-893	SWSH-H10		N				N			X		
F1.30B	2	ISIM-893	SWSH-H12		N				N			X		
F1.30B	2	ISIM-893	SWSH-H14		N				N			X		
F1.30B	2	ISIM-893	SWSH-H18		N				N			X		
F1.30B	2	ISIM-893	SWSH-H19		N				N			X		
F1.30B	2	ISIM-893	SWSH-H20		N				N			X		
F1.30B	2	ISIM-893	SWSH-H532		N				N			X		
F1.30B	2	ISIM-900	SW-H10		N				N			X	RR-3-1	Note 2 and 3

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30B	2	ISIM-900	SW-H46A		N				N			X		
F1.30B	2	ISIM-900	SW-H53		N				N			X		
F1.30B	2	ISIM-900	SW-H411		N				N			X		
F1.30B	2	ISIM-900	SW-H412		N				N			X		
F1.30B	2	ISIM-900	SW-H413		N				N			X		
F1.30B	2	ISIM-901	SW-H55A		N				N			X		
F1.30B	2	ISIM-901	SW-H147		N				N			X		Note 2
F1.30B	2	ISIM-901	SW-H148		N				N			X	RR-3-1	
F1.30B	2	ISIM-901	SW-H149		N				N			X		Note 3
F1.30B	2	ISIM-901	SW-H150		N				N			X		Note 3
F1.30B	2	ISIM-901	SW-H151		N				N			X		
F1.30B	2	ISIM-901	SW-H153		N				N			X		
F1.30B	2	ISIM-901	SW-H261		Y			X	N			X		Note 3
F1.30B	2	ISIM-901	SW-H523		N				N			X		
F1.30B	2	ISIM-901	SW-H535		N				N			X		
F1.30B	2	ISIM-901	SW-H536		N				N			X		

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30B	2	ISIM-901	SW-H537		N				N			X		
F1.30B	2	ISIM-901	SW-H538		N				N			X		
F1.30B	31	ISIM-913	AC-H2		N				N			X		Note 3
F1.30B	31	ISIM-913	AC-H4		N				N			X		Note 3
F1.30B	31	ISIM-913	AC-H67		N				N			X		Note 3
F1.30B	31	ISIM-914	AC-H20		N				N			X		Note 2 and 3
F1.30B	31	ISIM-914	AC-H69		N				N			X		
F1.30B	31	ISIM-914	AC-H70		N				N			X		
F1.30B	2	ISIM-922	SW-H99		N				N			X		
F1.30B	2	ISIM-922	SW-H101A		N				N			X		
F1.30B	2	ISIM-922	SW-H134		Y			X	N			X		Note 2 and 3
F1.30B	2	ISIM-922	SW-H177		Y		X		N			X		Note 3
F1.30B	2	ISIM-922	SW-H178		N				N			X		Note 3
F1.30B	2	ISIM-922	SW-H181		N				N			X	RR-3-1	Note 3
F1.30B	2	ISIM-922	SW-H182		N				N			X	RR-3-1	Note 3

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30B	2	ISIM-922	SW-H222		N				N			X		
F1.30B	2	ISIM-922	SW-H414		N				N			X		
F1.30B	2	ISIM-922	SW-H416		N				N			X		
F1.30B	2	ISIM-922	SW-H417		N				N			X		
F1.30B	2	ISIM-922	SW-H418		N				N			X		Note 3
F1.30B	2	ISIM-924-1	SW-H87		N				N			X	RR-3-1	Note 2 and 3
F1.30B	2	ISIM-924-1	SW-H248		N				N			X		Note 3
F1.30B	2	ISIM-924-1	SW-H400		N				N			X		
F1.30B	2	ISIM-924-1	SW-H528		N				N			X		
F1.30B	2	ISIM-924-1	SW-H565		N				N			X		
F1.30B	2	ISIM-924-2	SW-H143		N				N			X		Note 2 and 3
F1.30B	2	ISIM-924-2	SW-H216		N				N			X		
F1.30B	2	ISIM-924-2	SW-H246		N				N			X		
F1.30B	2	ISIM-924-2	SW-H251		N				N			X		
F1.30B	2	ISIM-924-2	SW-H526		Y	X			N			X		Note 3
F1.30B	2	ISIM-924-2	SW-H566		N				N			X		

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30B	2	ISIM-926	SW-H91		N				N			X		
F1.30B	2	ISIM-926	SW-H125		N				N			X		
F1.30B	2	ISIM-926	SW-H129A		N				N			X		
F1.30B	2	ISIM-926	SW-H131		N				N			X		
F1.30B	2	ISIM-926	SW-H144A		N				N			X		
F1.30B	2	ISIM-926	SW-H145		N				N			X		
F1.30B	2	ISIM-926	SW-H146		N				N			X		
F1.30B	2	ISIM-926	SW-H146A		N				N			X		
F1.30B	2	ISIM-926	SW-H166		N				N			X		
F1.30B	2	ISIM-926	SW-H167		N				N			X		Note 3
F1.30B	2	ISIM-926	SW-H168		N				N			X		Note 3
F1.30B	2	ISIM-926	SW-H221		N				N			X		
F1.30B	31	ISIM-999	AC-H43		Y	X			N			X		Note 3
F1.30C	2	ISIM-867	RSW-H12		N				N			X		
F1.30C	2	ISIM-867	RSW-H13		N				N			X		Note 3
F1.30C	2	ISIM-868	RSW-H1		N				N			X		

**WISCONSIN PUBLIC SERVICE CORPORATION**

**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30C	2	ISIM-869	RSW-H7		N				N			X		
F1.30C	2	ISIM-870	RSW-H18		Y			X	N			X		Note 3
F1.30C	31	ISIM-881-1	AC-H17		N				N			X		Note 3
F1.30C	31	ISIM-881-1	AC-H22		Y	X			N			X		Note 3
F1.30C	2	ISIM-885-1	RSW-H114		N				N			X		
F1.30C	2	ISIM-886	RSW-H78		N				N			X		
F1.30C	2	ISIM-889-1	RSW-H8		N				N			X		Note 3
F1.30C	2	ISIM-889-2	RSW-H6		N				N			X		Note 3
F1.30C	2	ISIM-889-2	RSW-H30		N				N			X		
F1.30C	2	ISIM-889-2	RSW-H32		Y		X		N			X		Note 3
F1.30C	2	ISIM-893	SWSH-H13		N				N			X		
F1.30C	2	ISIM-893	SWSH-H13A		N				N			X		
F1.30C	2	ISIM-901	SW-H153A		N				N			X		Note 3
F1.30C	31	ISIM-914	AC-H18		N				N			X		Note 3
F1.30C	31	ISIM-914	AC-H64		N				N			X		Note 3
F1.30C	31	ISIM-914	AC-H68		N				N			X		

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

Examination Category F-A Description CLASS 3 PIPING SUPPORTS

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		
F1.30C	31	ISIM-915	AC-II23		N				N			X		Note 3
F1.30C	2	ISIM-924-1	SW-H401		N				N			X		Note 3
F1.30C	2	ISIM-924-2	SW-H243		N				N			X		
F1.30C	2	ISIM-924-2	SW-H247		N				N			X		

**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 welded attachment that also appears in the table for examination category D-A.

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**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	36	M-1194	RV-CS1		Y	X			N			X		REACTOR VESSEL
F1.40B	36	M-1194	RV-CS2		Y			X	N			X		REACTOR VESSEL
F1.40B	36	M-1194	RV-CS3		Y			X	N			X		REACTOR VESSEL
F1.40B	36	M-1194	RV-CS4		Y	X			N			X		REACTOR VESSEL
F1.40B	36	M-1194	RV-CS5		Y			X	N			X		REACTOR VESSEL Note 1
F1.40B	36	M-1194	RV-CS6		Y			X	N			X		REACTOR VESSEL Note 1
F1.40B	36	M-1200	PRZ-S1		Y			X	N			X		PRESSURIZER Note 1 (See Equipment ID# P-W6)
F1.40B	36	M-1201	SG-1A-23A		Y		X		N			X		STEAM GENERATOR 1A Note 1 & 4
F1.40B	36	M-1201	SG-1A-23B		Y		X		N			X		STEAM GENERATOR 1A Note 1 & 4
F1.40B	36	M-1201	SG-1A-23C		Y		X		N			X		STEAM GENERATOR 1A Note 1 & 4
F1.40B	36	M-1201	SG-1A-23D		Y		X		N			X		STEAM GENERATOR 1A Note 1 & 4
F1.40B	36	M-1201	SG-1B-23A		N				N			X		STEAM GENERATOR 1B Note 1 & 4
F1.40B	36	M-1201	SG-1B-23B		N				N			X		STEAM GENERATOR 1B Note 1 & 4
F1.40B	36	M-1201	SG-1B-23C		N				N			X		STEAM GENERATOR 1B Note 1 & 4
F1.40B	36	M-1201	SG-1B-23D		N				N			X		STEAM GENERATOR 1B Note 1 & 4

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**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	36	M-1204	RCP-CS1		Y	X			N			X		REACTOR COOLANT PUMP 1A Note 1 & 4
F1.40B	36	M-1204	RCP-CS2		Y			X	N			X		REACTOR COOLANT PUMP 1A Note 1 & 4
F1.40B	36	M-1204	RCP-CS3		Y	X			N			X		REACTOR COOLANT PUMP 1A Note 1 & 4
F1.40B	36	M-1204	RCP-CS4		N				N			X		REACTOR COOLANT PUMP 1B Note 1 & 4
F1.40B	36	M-1204	RCP-CS5		N				N			X		REACTOR COOLANT PUMP 1B Note 1 & 4
F1.40B	36	M-1204	RCP-CS6		N				N			X		REACTOR COOLANT PUMP 1B Note 1 & 4
F1.40B	34	M-1207	AHRS1-SW1		Y	X			N			X		RHR HEAT EXCHANGER 1A Note 2 & 4
F1.40B	34	M-1207	AHRS1-SW2		Y		X		N			X		RHR HEAT EXCHANGER 1A Note 2 & 4
F1.40B	34	M-1207	AHRS2-SW3		N				N			X		RHR HEAT EXCHANGER 1B Note 2 & 4
F1.40B	34	M-1207	AHRS2-SW4		N				N			X		RHR HEAT EXCHANGER 1B Note 2 & 4
F1.40B	35	M-1208	ARG-S1		Y		X		N			X		REGENERATIVE HEAT EXCHANGER
F1.40B	35	M-1208	ARG-S2		Y		X		N			X		REGENERATIVE HEAT EXCHANGER

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	35	M-1208	ARG-S3		Y			X	N			X		REGENERATIVE HEAT EXCHANGER
F1.40B	35	M-1208	ARG-S4		Y			X	N			X		REGENERATIVE HEAT EXCHANGER
F1.40B	35	M-1209	AHNR-SW1		Y			X	N			X		LETDOWN HEAT EXCHANGER Note 2
F1.40B	35	M-1209	AHNR-SW2		Y			X	N			X		LETDOWN HEAT EXCHANGER Note 2
F1.40B	35	M-1210	CVC-HI15		Y	X			N			X		CHG PUMP PULSATION DAMPENER 1B Note 4
F1.40B	35	M-1210	CVC-HI16		N				N			X		CHG PUMP PULSATION DAMPENER 1A Note 4
F1.40B	35	M-1210	CVC-HI17		N				N			X		CHG PUMP PULSATION DAMPENER 1C Note 4
F1.40B	35	M-1212	AFSI-SW1		Y	X			N			X		SEAL WATER INJECTION FILTER 1A Note 2 & 4
F1.40B	35	M-1212	AFSI-SW2		Y		X		N			X		SEAL WATER INJECTION FILTER 1A Note 2 & 4
F1.40B	35	M-1212	AFSI-SW3		Y			X	N			X		SEAL WATER INJECTION FILTER 1A Note 2 & 4
F1.40B	35	M-1212	AFSI-SW4		N				N			X		SEAL WATER INJECTION FILTER 1B Note 2 & 4
F1.40B	35	M-1212	AFSI-SW5		N				N			X		SEAL WATER INJECTION FILTER 1B Note 2 & 4

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**KEWAUNEE NUCLEAR POWER PLANT**

**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	35	M-1212	AFSI-SW6		N				N			X		SEAL WATER INJECTION FILTER 1B Note 2 & 4
F1.40B	34	M-1215	APRH1-SC1		Y			X	N			X		RHR PUMP 1A Note 4
F1.40B	34	M-1215	APRH2-SC2		N				N			X		RHR PUMP 1B Note 4
F1.40B	35	M-1216	APCH-1A-SC1		Y	X			N			X		CHARGING PUMP 1A Note 4
F1.40B	35	M-1216	APCH-1B-SC2		N				N			X		CHARGING PUMP 1B Note 4
F1.40B	35	M-1216	APCH-1C-SC3		N				N			X		CHARGING PUMP 1C Note 4
F1.40B	31	M-1218	ATCS-S1		Y		X		N			X		COMPONENT COOLING SURGE TANK Note 3
F1.40B	31	M-1218	ATCS-S2		Y		X		N			X		COMPONENT COOLING SURGE TANK Note 3
F1.40B	2	M-1220	ASSW-1A1-S1		Y		X		N			X		SERVICE WATER PUMP 1A1 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1A1-S2		Y		X		N			X		SERVICE WATER PUMP 1A1 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1A1-S3		Y		X		N			X		SERVICE WATER PUMP 1A1 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1A1-S4		Y		X		N			X		SERVICE WATER PUMP 1A1 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1A2-S1		N				N			X		SERVICE WATER PUMP 1A2 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1A2-S2		N				N			X		SERVICE WATER PUMP 1A2 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1A2-S3		N				N			X		SERVICE WATER PUMP 1A2 STRAINER Note 4

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**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	2	M-1220	ASSW-1A2-S4		N				N			X		SERVICE WATER PUMP 1A2 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1B1-S1		N				N			X		SERVICE WATER PUMP 1B1 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1B1-S2		N				N			X		SERVICE WATER PUMP 1B1 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1B1-S3		N				N			X		SERVICE WATER PUMP 1B1 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1B1-S4		N				N			X		SERVICE WATER PUMP 1B1 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1B2-S1		N				N			X		SERVICE WATER PUMP 1B2 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1B2-S2		N				N			X		SERVICE WATER PUMP 1B2 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1B2-S3		N				N			X		SERVICE WATER PUMP 1B2 STRAINER Note 4
F1.40B	2	M-1220	ASSW-1B2-S4		N				N			X		SERVICE WATER PUMP 1B2 STRAINER Note 4
F1.40B	31	M-1221	AHEL-1A-S1		Y			X	N			X		EXCESS LETDOWN HX 1A Note 3
F1.40B	31	M-1221	AHEL-1A-S2		Y			X	N			X		EXCESS LETDOWN HX 1A Note 3
F1.40B	31	M-1221	AHEL-1B-S1		Y			X	N			X		EXCESS LETDOWN HX 1B Note 3
F1.40B	31	M-1221	AHEL-1B-S2		Y			X	N			X		EXCESS LETDOWN HX 1B Note 3

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**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	2	M-1222	AHCC1-1A-S3		Y	X			N			X		COMPONENT COOLING HX 1A Note 4
F1.40B	2	M-1222	AHCC1-1A-S4		Y	X			N			X		COMPONENT COOLING HX 1A Note 4
F1.40B	2	M-1222	AHCC2-1B-S3		N				N			X		COMPONENT COOLING HX 1B Note 4
F1.40B	2	M-1222	AHCC2-1B-S4		N				N			X		COMPONENT COOLING HX 1B Note 4
F1.40B	31	M-1224	AHRS1-1A-WS5		Y	X			N			X		RHR HEAT EXCHANGER 1A Note 3 & 4
F1.40B	31	M-1224	AHRS1-1A-WS6		Y	X			N			X		RHR HEAT EXCHANGER 1A Note 3 & 4
F1.40B	31	M-1224	AHRS1-1A-WS7		Y	X			N			X		RHR HEAT EXCHANGER 1A Note 3 & 4
F1.40B	31	M-1224	AHRS1-1A-WS8		Y	X			N			X		RHR HEAT EXCHANGER 1A Note 3 & 4
F1.40B	31	M-1224	AHRS2-1B-WS9		N				N			X		RHR HEAT EXCHANGER 1B Note 3 & 4
F1.40B	31	M-1224	AHRS2-1B-WS10		N				N			X		RHR HEAT EXCHANGER 1B Note 3 & 4
F1.40B	31	M-1224	AHRS2-1B-WS11		N				N			X		RHR HEAT EXCHANGER 1B Note 3 & 4
F1.40B	31	M-1224	AHRS2-1B-WS12		N				N			X		RHR HEAT EXCHANGER 1B Note 3 & 4
F1.40B	2	M-1225	AHDG-1A-S1		Y	X			N			X		DIESEL GEN 1A COOLING WATER HX Note 4
F1.40B	2	M-1225	AHDG-1A-S2		Y	X			N			X		DIESEL GEN 1A COOLING WATER HX Note 4

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**FOURTH INTERVAL ISI SCHEDULE**

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

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	Vls		
F1.40B	2	M-1225	AHDG-1B-S1		N				N			X		DIESEL GEN 1B COOLING WATER HX Note 4
F1.40B	2	M-1225	AHDG-1B-S2		N				N			X		DIESEL GEN 1B COOLING WATER HX Note 4
F1.40B	31	M-1226	AHLD-WS3		Y		X		N			X		LETDOWN HEAT EXCHANGER Note 3
F1.40B	31	M-1226	AHLD-WS4		Y		X		N			X		LETDOWN HEAT EXCHANGER Note 3
F1.40B	31	M-1226	AHLD-WS5		Y		X		N			X		LETDOWN HEAT EXCHANGER Note 3
F1.40B	31	M-1226	AHLD-WS6		Y		X		N			X		LETDOWN HEAT EXCHANGER Note 3
F1.40B	31	M-1229	AHRHRP-1A-S1		Y			X	N			X		RHR PUMP 1A SHAFT SEAL HX Note 4
F1.40B	31	M-1229	AHRHRP-1B-S2		N				N			X		RHR PUMP 1B SHAFT SEAL HX Note 4
F1.40B	05B	M-1231	APFT-S1		Y		X		N			X		TURBINE DRIVEN AFW PUMP Note 3
F1.40B	05B	M-1231	APFT-S2		Y		X		N			X		TURBINE DRIVEN AFW PUMP Note 3
F1.40B	05B	M-1231	APFT-S3		Y		X		N			X		TURBINE DRIVEN AFW PUMP Note 3
F1.40B	05B	M-1231	APFT-S4		Y		X		N			X		TURBINE DRIVEN AFW PUMP Note 3
F1.40B	05B	M-1231	APFT-S5		Y	X			N			X		TURBINE DRIVEN AFW PUMP
F1.40B	05B	M-1232	APFM-1A-S1		Y			X	N			X		AUXILIARY FEEDWATER PUMP 1A Note 3 & 4

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**FOURTH INTERVAL ISI SCHEDULE**

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

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	Vls		
F1.40B	05B	M-1232	APFM-1A-S2		Y			X	N			X		AUXILIARY FEEDWATER PUMP 1A Note 3 & 4
F1.40B	05B	M-1232	APFM-1A-S3		Y			X	N			X		AUXILIARY FEEDWATER PUMP 1A Note 3 & 4
F1.40B	05B	M-1232	APFM-1A-S4		Y			X	N			X		AUXILIARY FEEDWATER PUMP 1A Note 3 & 4
F1.40B	05B	M-1232	APFM-1A-S5		Y	X			N			X		AUXILIARY FEEDWATER PUMP 1A Note 4
F1.40B	05B	M-1232	APFM-1B-S1		N				N			X		AUXILIARY FEEDWATER PUMP 1B Note 3 & 4
F1.40B	05B	M-1232	APFM-1B-S2		N				N			X		AUXILIARY FEEDWATER PUMP 1B Note 3 & 4
F1.40B	05B	M-1232	APFM-1B-S3		N				N			X		AUXILIARY FEEDWATER PUMP 1B Note 3 & 4
F1.40B	05B	M-1232	APFM-1B-S4		N				N			X		AUXILIARY FEEDWATER PUMP 1B Note 3 & 4
F1.40B	05B	M-1232	APFM-1B-S5		N				N			X		AUXILIARY FEEDWATER PUMP 1B Note 4
F1.40B	31	M-1233	APCS-1A-S1		Y			X	N			X		ICS PUMP 1A GLAND COOLER Note 4
F1.40B	23	M-1233	APCS-1A-S2		Y	X			N			X		INTERNAL CNTMT SPRAY PUMP 1A Note 4
F1.40B	31	M-1233	APCS-1B-S1		N				N			X		ICS PUMP 1B GLAND COOLER Note 4
F1.40B	23	M-1233	APCS-1B-S2		N				N			X		INTERNAL CNTMT SPRAY PUMP 1B Note 4

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**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	31	M-1234	APCC-1A-S2		Y	X			N			X		COMPONENT COOLING PUMP 1A Note 3 & 4
F1.40B	31	M-1234	APCC-1A-S3		Y	X			N			X		COMPONENT COOLING PUMP 1A Note 4
F1.40B	31	M-1234	APCC-1A-S4		Y	X			N			X		COMPONENT COOLING PUMP 1A Note 4
F1.40B	31	M-1234	APCC-1B-S2		N				N			X		COMPONENT COOLING PUMP 1B Note 3 & 4
F1.40B	31	M-1234	APCC-1B-S3		N				N			X		COMPONENT COOLING PUMP 1B Note 4
F1.40B	31	M-1234	APCC-1B-S4		N				N			X		COMPONENT COOLING PUMP 1B Note 4
F1.40B	2	M-1236	APSW-1A1-S1		Y			X	N			X		SERVICE WATER PUMP 1A1 Note 4
F1.40B	2	M-1236	APSW-1A2-S2		N				N			X		SERVICE WATER PUMP 1A2 Note 4
F1.40B	2	M-1236	APSW-1B1-S3		N				N			X		SERVICE WATER PUMP 1B1 Note 4
F1.40B	2	M-1236	APSW-1B2-S4		N				N			X		SERVICE WATER PUMP 1B2 Note 4
F1.40B	2	M-1237	AHSC-1A-1-S1		Y			X	N			X		SAFETY INJECTION PUMP 1A HX Note 4
F1.40B	2	M-1237	AHSC-1A-2-S2		Y			X	N			X		SAFETY INJECTION PUMP 1A HX Note 4
F1.40B	2	M-1237	AHSC-1B-1-S1		N				N			X		SAFETY INJECTION PUMP 1B HX Note 4
F1.40B	2	M-1237	AHSC-1B-2-S2		N				N			X		SAFETY INJECTION PUMP 1B HX Note 4
F1.40B	2	M-1239	AHCF-1A-S1		Y			X	N			X		CNTMT FAN COOLING UNIT 1A Note 4

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**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	2	M-1239	AHCF-1B-S1		N				N			X		CNTMT FAN COOLING UNIT 1B Note 4
F1.40B	2	M-1239	AHCF-1C-S1		N				N			X		CNTMT FAN COOLING UNIT 1C Note 4
F1.40B	2	M-1239	AHCF-1D-S1		N				N			X		CNTMT FAN COOLING UNIT 1D Note 4
F1.40B	33	M-1707	APSI-1A-S1		Y	X			N			X		SAFETY INJECTION PUMP 1A Note 2 & 4
F1.40B	33	M-1707	APSI-1A-S2		Y			X	N			X		SAFETY INJECTION PUMP 1A Note 2 & 4
F1.40B	33	M-1707	APSI-1A-S3		Y		X		N			X		SAFETY INJECTION PUMP 1A Note 2 & 4
F1.40B	33	M-1707	APSI-1A-S4		Y			X	N			X		SAFETY INJECTION PUMP 1A Note 2 & 4
F1.40B	33	M-1707	APSI-1A-S5		Y	X			N			X		SAFETY INJECTION PUMP 1A Note 2 & 4
F1.40B	33	M-1707	APSI-1B-S1		N				N			X		SAFETY INJECTION PUMP 1B Note 2 & 4
F1.40B	33	M-1707	APSI-1B-S2		N				N			X		SAFETY INJECTION PUMP 1B Note 2 & 4
F1.40B	33	M-1707	APSI-1B-S3		N				N			X		SAFETY INJECTION PUMP 1B Note 2 & 4
F1.40B	33	M-1707	APSI-1B-S4		N				N			X		SAFETY INJECTION PUMP 1B Note 2 & 4

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**FOURTH INTERVAL ISI SCHEDULE**

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

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		
F1.40B	33	M-1707	APSI-1B-S5		N				N			X		SAFETY INJECTION PUMP 1B Note 4
F1.40B	25	M-1709	CRACET-1A-S1		Y		X		N			X		CONTROL ROOM AIR CONDITIONING EXPANSION TANK 1A Note 4
F1.40B	25	M-1709	CRACET-1B-S1		N				N			X		CONTROL ROOM AIR CONDITIONING EXPANSION TANK 1B Note 4
F1.40B	25	M-1709	CRAC-1A-S1		Y		X		N			X		CONTROL ROOM AIR CONDITIONING UNIT 1A COIL Note 3 & 4
F1.40B	25	M-1709	CRAC-1B-S1		N				N			X		CONTROL ROOM AIR CONDITIONING UNIT 1B COIL Note 3 & 4
F1.40C	05A	M-1206	SG-H1		N				N			X		STEAM GENERATOR 1B Note 4
F1.40C	05A	M-1206	SG-H2		Y	X			N			X		STEAM GENERATOR 1A Note 4
F1.40C	05A	M-1206	SG-H3		N				N			X		STEAM GENERATOR 1B Note 4
F1.40C	05A	M-1707	SG-H4		Y	X			N			X		STEAM GENERATOR 1A Note 4

**Category Notes:**

1. This support/hanger has a corresponding welded attachment that also appears in the table for examination category B-K.
2. This support/hanger has a corresponding welded attachment that also appears in the table for examination category C-C.
3. This support/hanger has a corresponding welded attachment that also appears in the table for examination category D-A.
4. 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 9.0**

### **Bibliography**

1. ASME Section XI 1974 Edition Through Summer 1975 Addenda
2. ASME Section XI 1980 Edition Through Winter 1981 Addenda
3. ASME Section XI, 1989 Edition
4. ASME Section XI, 1998 Edition 2000 Addenda
5. Code of Federal Regulation Title 10, Part 50
6. Kewaunee Nuclear Power Plant Final Safety Analysis Report and System Description
7. Kewaunee Nuclear Power Plant First 10-year ISI Plan
8. Kewaunee Nuclear Power Plant First 10-year Outage Reports
9. Kewaunee Nuclear Power Plant Integral Attachment Component Support Drawings
10. Kewaunee Nuclear Power Plant ISI Component Drawings
11. Kewaunee Nuclear Power Plant ISI Flow Diagrams
12. Kewaunee Nuclear Power Plant ISI Weld Map Isometrics
13. Kewaunee Nuclear Power Plant Piping Isometrics
14. Kewaunee Nuclear Power Plant Safety-related Equipment Drawings
15. Kewaunee Nuclear Power Plant Second 10-Year Outage Reports
16. Kewaunee Nuclear Power Plant Second 10-Year ISI Plan
17. Kewaunee Nuclear Power Plant Third 10-Year Outage Reports
18. Kewaunee Nuclear Power Plant Third 10-Year ISI Plan
19. Kewaunee Nuclear Power Plant System Descriptions
20. Kewaunee Nuclear Power Plant Technical Specification
21. Kewaunee Nuclear Power Plant Updated Safety Analysis Report (USAR)
22. Regulatory Guide 1.147, ISI Code Case Acceptability ASME Section XI Division 1, Rev. 13
23. Federal Register/ Vol.67, No.187/ Thursday, September 26, 2002/ Rules and Regulations