

**THIRD TEN-YEAR INTERVAL  
INSERVICE INSPECTION PROGRAM  
FOR  
COOPER NUCLEAR STATION  
REVISION 0**

NEBRASKA PUBLIC POWER DISTRICT

1.0

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2.0

REVISION SUMMARY SHEET

Section	Effective Page(s)	Revision	Date
1	Initial Issue	0	
2	Initial Issue	0	
3	Initial Issue	0	
4	Initial Issue	0	
5	Initial Issue	0	
6	Initial Issue	0	
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10	Initial Issue	0	
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17	Initial Issue	0	

### 3.0 INTRODUCTION AND PROGRAM DESCRIPTION

#### 3.1 Introduction

- 3.1.1 This Program outlines the requirements for the Non-Destructive Examination of Class 1, 2, and 3 pressure retaining components and their supports at Cooper Nuclear Station (CNS).
- 3.1.2 The Third Ten-Year Interval Inservice Inspection Program will become effective on January 1, 1996, subject to the completion of the Fall 1995 refueling outage, and will end on approximately December 31, 2005.
- 3.1.3 The key features of this Program are the Introduction and Program Description, Relief Requests, Technical Approach and Positions, and Summary Tables. The details of the Inservice Inspection Program are supported by other documents that are available at CNS. These documents include, but are not limited to, component detail drawings, piping and instrumentation diagrams, piping isometric drawings, procedures, calibration blocks, and other records required to execute the Inservice Inspection Program at CNS.

#### 3.2. Basis of Inservice Inspection Program

- 3.2.1 The commercial operation date for Cooper Nuclear Station is July 1, 1974. The first and second intervals were extended as allowed by IWA-2400(c). CNS will begin the third interval on January 1, 1996, subject to the completion of the Fall 1995 refueling outage (RFO-16).
- 3.2.2 The three inspection periods during the third inspection interval are as follows:
- |                |  |
|----------------|--|
| First Period:  | January 1, 1996 to April 30, 1999      |
| Second Period: | May 1, 1999 to August 31, 2002         |
| Third Period:  | September 1, 2002 to December 31, 2005 |
- 3.2.3 This Program was developed in accordance with the requirements of 10 CFR 50.55a and the 1989 Edition of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Subsections IWA, IWB, IWC, and IWD for Inspection Program B.
- 3.2.3.1 The ISI Program for Subsection IWF was developed in accordance with ASME Section XI Code Case N-491, which is approved for use in ISI Programs per USNRC Regulatory Guide 1.147, Revision 11. Inspection Program B of Table 2410-2 of Code Case N-491 will be employed.

- 3.2.3.2 The extent of examination of Code Class 1 pipe welds will be determined by the requirements of ASME Section XI, 1974 Edition with Addenda through the Summer 1975, Tables IWB-2500 and IWB-2600.
- 3.2.3.3 Inservice pressure testing for Class 1, 2 and 3 components will be performed in accordance with ASME Section XI Code Case N-498-1. This Code Case has not been generically approved for use in USNRC Regulatory Guide 1.147 but is included in Section 10 of this ISI Program as Relief Request No. PR-07.
- 3.2.3.4 An ISI Program per Subsections IWE and IWL is not included in this submittal. These subsections of Section XI are currently not invoked by 10CFR50.55a.
- 3.2.3.5 The Program for inservice testing of pumps and valves per Subsections IWP and IWV is not part of this ISI Program and will be issued as a separate submittal.
- 3.2.3.6 As allowed by 10CFR50.55a(c)(3) and USNRC Regulatory Guide 1.147, Revision 11, certain ASME Section XI Code Cases have been determined acceptable for application to ISI Programs. The following Code Cases are being adopted by CNS and incorporated in the 3rd interval ISI Program. The use of Code Cases not currently identified in Regulatory Guide 1.147 is addressed as relief requests in Sections 7 and 10.

**Case N-307-1** - Revised Ultrasonic Examination Volume for Class 1 Bolting, Table IWB-2500-1, Examination Category B-G-1, When Examinations Are Conducted From the Center Drilled Hole.

**Case N-435-1** - Alternative Examination Requirements for Vessels With Wall Thickness 2 Inches and Less.

**Case N-416** - Alternative Rules for Hydrostatic Testing of Repair or Replacement of Class 2 Piping.

**Case N-457** - Qualification Specification Notch Location for Ultrasonic Examination of Bolts and Studs.

**Case N-458** - Magnetic Particle Examination of Coated Materials.

**Case N-460** - Alternative Examination Coverage for Class 1 and 2 Welds.

**Case N-461** - Alternative Rules for Piping Calibration Block Thickness.

**Case N-463-1** - Evaluation Procedures and Acceptance Criteria for Flaws in Class 1 Ferritic Piping that Exceed the Acceptance Standards of IWB-3514.2.

**Case N-491** - Alternative Rules for the Examination of Class 1,2 and 3 and MC Components and Supports of Light Water Cooled Power Plants.

**Case N-496** - Helical-coil Threaded Inserts.

**Case N-498** - Alternative Rules for 10 Year Hydrostatic Pressure Testing for Class 1 and Class 2 Systems.

### 3.3. System Classification

3.3.1 Per IWA-1400(a) of the 1989 Edition of Section XI, it is the owner's responsibility to determine the appropriate code class for each component and to identify the system boundaries subject to inspection. IWA-1300 states that components identified for inspection and testing shall be included in the inservice inspection Program, and that the selection of components for the inservice inspection Program is subject to review by the regulatory and enforcement authorities having jurisdiction at the plant site. IWA-1320(a) states that the system group classification criteria of the regulatory authorities having jurisdiction at the power plant site governs the application of the rules of Section XI. IWA-1400(a), Footnote 2, states that classification criteria are specified in 10CFR50. This reference is to Footnote 9 of 10CFR50.55a which specifies that Regulatory Guide 1.26 and Section 3.2.2 of NUREG-0800 may be used for this purpose. Section 3.2.2 of NUREG-0800 allows the use of either the NRC Group Classification system of Regulatory Guide 1.26 or the ANS Safety Classification system (referring to the method described in ANSI/ANS-52.1-1983) which can be cross-referenced to Regulatory Guide 1.26.

The component classifications of the ASME Code (Class 1, 2, or 3) determine the rules and requirements for inspection and testing and define the Section XI examination boundaries. Because early vintage nuclear plants were designed and constructed before Section III of the ASME Boiler and Pressure Vessel Code was incorporated into 10CFR50.55a, the ASME Section XI Code classifications for ISI may differ from the original design classifications. Therefore, while the ASME Code classifications determine the rules for repairs and replacements and the component inspection requirements, all repairs and replacements are performed to meet, at a minimum, the specifications of the original design code.

Historically, the safety-related classification process and criteria have not been clearly defined. Various documents used in this process have alluded to such phrases as "safety-related" or "important to safety" but no complete, consistent guideline existed as to why some equipment is more important to nuclear safety than other equipment or what documents are applicable. As a result, various interpretations/inconsistencies have evolved in the use of the term "safety-related", often times confusing regulatory and other non-functional requirements into its applicability.

Other phrases widely used in codes, standards, and other documents have also been correctly and incorrectly interpreted to be synonymous to "safety-related". "Basic component" defined in 10CFR21 is considered equivalent to "safety-related". "Important to Safety" which was previously used as a synonym to "safety-related" is currently being discussed within the NRC and is officially undefined.

The Updated Safety Analysis Report (USAR) uses the term "safety" in a broader context than "safety-related". The USAR uses phrases such as "safety functions", "nuclear safety systems", "instruments required for safety" and others. The relationship of the term "safety-related" to those other commonly referred to terms such as "safety", "protection systems" etc. are not necessarily synonymous with the term "safety-related".

There also exists further confusion regarding the term "safety-related". This confusion results from the different uses and interpretations applied to this term. The term safety-related is typically used in the following ways:

- 3.3.1.1 From a design engineering standpoint, the term "safety-related" is used to identify items which are (1) part of the reactor coolant pressure boundary, (2) required to shut down the reactor and maintain it in a safe shutdown condition, or (3) required to prevent or mitigate the consequences of accidents which could result in potential off-site exposures comparable to 10CFR100.11 guidelines.
- 3.3.1.2 Typically, three methods of procurement are utilized, commonly referred to as: safety-related, commercial grade, and non-safety-related. A safety-related procurement refers to the purchase of an item under the provisions of 10CFR21 from a vendor with a quality assurance Program that meets the requirements of 10CFR50 Appendix B. A commercial grade procurement refers to an item which will be dedicated for safety-related use, but is not purchased to an approved 10CFR50 Appendix B Quality Assurance Program nor are 10CFR21 requirements imposed on the vendor. Once a commercial grade item is dedicated it becomes a basic component. A non-safety-related procurement refers to an item which does not have a safety-related function.



- 3.3.1.3 Also, selected items may be classified as safety-related even though their function is non-safety-related. This is done to institute greater controls over procurement, maintenance, or replacement of such items.
- 3.3.2 As a result, it is important to understand the context in which the term "safety-related" is used, and what is meant. For this document the term "safety-related" pertains to the function a system or component performs regardless of any other classification.
- 3.3.3 The NRC issued the construction permit for the Cooper Nuclear Station (CNS) in June 1968. The plant design was completed when the Nebraska Public Power District (NPPD) applied for an operating license for CNS and submitted the Final Safety Analysis Report (FSAR) for the facility to the NRC in March 1971. This license was issued by the NRC in January 1974. The United States of America Standards (USAS) used for the original design and construction of CNS were B31.1 (1967), Code for Power Piping, and B31.7 (February 1968 with Draft and Errata of June 1968), Code for Nuclear Power Piping. The "General Design Criteria for Nuclear Power Plant Construction Permits" was published for comment in the Federal Register in July 1967. The final version of these design criteria were not incorporated into the Code of Federal Regulations (10CFR50, Appendix A) until February 1971, approximately the same time that NPPD submitted its FSAR to the NRC. As discussed in the NRC Safety Evaluation Report dated February 14, 1973, the license for CNS is based, in part, on design and construction of the plant to USAS B31.1, USAS B31.7, and the intent of the Draft General Design Criteria published in July 1967.

The piping and pressure retaining components of all CNS systems were both functionally and seismically classified according to service and location prior to construction by Burns and Roe (the plant Engineer-Constructor). These design classifications are as follows:

- Class IN - Nuclear piping and in-line pressure parts whose loss or failure could cause, or increase the severity of, a nuclear incident.
- Class IIN - Nuclear piping and in-line pressure parts whose loss or failure could cause a hazard to plant personnel, but would represent no hazard to the public.
- Class IIIN - Nuclear piping and in-line pressure parts that normally would be Class IIN, except that the operating pressure does not exceed 150 psig and the operating temperature is below 212°F.
- Class IVP - Power piping and in-line pressure parts which are conventional steam and service piping and equipment pressure parts.
- Class IS - Seismic piping and in-line pressure parts whose failure would cause significant release of radioactivity or which are vital to a safe

shutdown of the plant and removal of decay and sensible heat.

- Class IIS - Seismic piping and in-line pressure parts which may be essential to the operation of the station, but which are not essential to a safe shutdown.

The current ASME Code component classifications did not exist at the time of CNS design and construction. The ASME Code Class 1, 2, and 3 designations were added and defined in more recent editions of the ASME Boiler and Pressure Vessel Code. The scope of earlier editions of the ASME Code was limited to systems and portions of systems that comprised the reactor coolant pressure boundary. Hence the unique wording of 10CFR50.55a(g)(1) for nuclear power facilities whose construction permit was issued prior to January 1, 1971:

"Components which are part of the reactor coolant pressure boundary and their supports must meet the requirements applicable to components which are classified as ASME Code Class 1. Other safety-related pressure vessels, piping, pumps and valves must meet the requirements applicable to components which are classified as ASME Code Class 2 or Class 3."

The initial CNS ISI Program was based on the 1970 Edition of Section XI. This Program was submitted as part of the original FSAR (Appendix J), which was accepted by the NRC. However, the inspection rules and requirements of the 1970 Edition of Section XI were minimal and have changed significantly since then. Federal regulations require that ISI programs be updated, to the extent practicable, to comply with the inspection and testing requirements of the edition and addenda of the ASME Code incorporated by reference in 10CFR50.55a one year prior to the start of each ten-year inspection interval.

During subsequent revisions of the ISI Program, other safety-related systems were added to the ISI Program and ASME Code Class designations were assigned to establish the examination boundaries and define the required inspections and tests for the associated components. Systems, or portions of systems, were considered safety-related if they were determined to mitigate the consequences of an accident based on the analyses contained in Section XIV of the USAR. Although the Burns and Roe design classifications do not directly correlate to ASME Code Class 1, 2, and 3, and NRC Quality Groups A, B, C, and D of Regulatory Guide 1.26, they were used as the basis for establishing the ASME Section XI examination boundaries. For the purposes of ISI, the CNS IN/IS safety-related components were designated ASME Section XI Code Class 1, the IIN/IS safety-related components were designated ASME Section XI Code Class 2, and the IIN/IS safety-related components were designated ASME Section XI Code Class 3. The CNS IVP systems, including both safety-related and nonsafety-related systems, were designated Non-Code Class.

Because CNS was designed and constructed prior to the issuance of Regulatory Guide 1.26 and NUREG-0800, these documents were not used to establish the original Section XI examination boundaries. NPPD has not formally committed

to the use of either Regulatory Guide 1.26 or NUREG-0800, Section 3.2.2. However, the CNS ISI Program for the third ten-year inspection interval uses these documents for guidance in determining the applicability of component inspections and the examination boundaries.

### 3.4. Contents of Inservice Inspection Program

The Inservice Inspection Program addresses the requirements for inservice inspection of components, system pressure testing, and augmented inspection. Although some sections of the Program are common, the specific requirements for components, system pressure testing, and augmented inspection are addressed separately. The applicability of each of the sections identified in this ISI Program is as follows:

#### 3.4.1 **Section 1 - Table of Contents**

Provides the organizational format for the Inservice Inspection Program.

#### 3.4.2 **Section 2 - Revision Summary Sheet**

Provides the revision status of the effective sections in the Inservice Inspection Program.

#### 3.4.3 **Section 3 - Introduction and Program Description**

Provides details on the background, scope, basis and contents of the Inservice Inspection Program, system classifications, and augmented inservice inspection requirements.

#### 3.4.4 **Section 4 - Application of Exemption Criteria**

Provides the basis for determining the Class 1, 2, and 3 exempted components from surface and volumetric examination requirements per IWB, IWC, and IWD-1200.

#### 3.4.5 **Sections 5 - Inservice Inspection Summary Table**

The CNS Inservice Inspection Summary Table provides the following information:

##### 3.4.5.1 Examination Category

Provides the examination category as identified in ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1. Only those examination categories applicable to CNS are identified.

##### 3.4.5.2 Item Number and Item Description

Provides the item number and description as defined in ASME Section XI,



Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1. Only those item numbers applicable to CNS are identified.

3.4.5.3 Number of Components

Provides the population of components potentially subject to examination. The number of components actually examined during the inspection interval will be based upon the Code requirements for the subject item number (e.g., 25% of Examination Category B-J, Item Number B9.11 components will be examined during the inspection interval).

3.4.5.4 Exam Requirements

Provides the examination method(s) required by ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1.

3.4.5.5 Technical Positions and Relief Requests

Provides a listing of technical positions and relief requests applicable to the nondestructive examinations, sorted by item number. If a technical position number is identified, see the corresponding technical position in Section 6. If a relief request number is identified, see the corresponding relief request in Section 7.

3.4.6 **Section 6 - Inservice Inspection Technical Approach and Position Index Summaries**

CNS has reviewed general licensing/regulatory requirements and industry practices to determine a practicable method of implementing the Code requirements. The technical positions contained in this section have been provided to clarify CNS's implementation of ASME Section XI requirements for inservice inspection.

3.4.7 **Section 7 - Inservice Inspection Relief Requests**

This section contains relief requests for impracticable nondestructive examinations in accordance with 10 CFR 50.55a(g)(5). If examination requirements are determined to be impracticable during the course of the interval, additional or modified relief requests will be submitted in accordance with 10 CFR 50.55a (g)(5).

### 3.4.8 Sections 8 - System Pressure Testing Summary Tables

The CNS System Pressure Testing Summary Tables provide the following information:

#### 3.4.8.1 Examination Category

Provides the examination category as identified in ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1. Only those examination categories applicable to CNS are identified.

#### 3.4.8.2 Item Number

Provides the item number as identified per the applicable Table of IWB, IWC, and IWD-2500-1.

#### 3.4.8.3 Test Type

Describes the required Code test that is being performed.

#### 3.4.8.4 Test Frequency

Provides for the frequency that a required Code pressure test is being performed. The tests are being performed either on a 40 month, 120 month, or refueling outage basis.

#### 3.4.8.5 Technical Positions and Relief Requests

Provides a listing of technical positions and relief requests applicable to the pressure test block. If a technical position number is identified, see the corresponding technical position in Section 9. If a relief request number is identified, see the corresponding relief request in Section 10.

### 3.4.9 Section 9 - System Pressure Testing Technical Approach and Position Index Summaries

When the requirements of ASME Section XI are not easily interpreted, CNS has reviewed general licensing/regulatory requirements and industry practice to determine a practicable method of implementing the Code requirement. The technical approach and position documents contained in this section have been provided to clarify CNS's implementation of ASME Section XI requirements for system pressure testing.

**3.4.10 Section 10 - System Pressure Testing Relief Requests**

This section contains relief requests for impracticable pressure tests in accordance with 10 CFR 50.55a(g)(5). If testing requirements are determined to be impracticable during the course of the interval, additional or modified relief requests will be submitted in accordance with 10 CFR 50.55a(g)(5).

**3.4.11 Section 11 - Augmented Inservice Inspection Program**

This section contains the proposed examination of components in accordance with regulatory requirements, the recommendations from GE SILs, or CNS management directives.

**3.4.12 Section 12 - List of Applicable Piping and Instrumentation Diagrams (P&IDs)**

Provides a listing of P&IDs corresponding to each system that contains components subject to examination under this Program.

**3.4.13 Section 13 - List of Applicable Piping Isometric Drawings**

Provides a listing of piping isometric drawings corresponding to each system that contains components subject to volumetric, surface, VT-1, or VT-3 examinations under this Program.

**3.4.14 Section 14 - Nondestructive Examination Procedure Listing**

This section contains the listing of nondestructive examination procedures in accordance with Code and regulatory requirements.

**3.4.15 Section 15 - Ultrasonic Calibration Blocks**

This section contains the listing of Ultrasonic calibration blocks for examination of components in accordance with regulatory requirements, the recommendations of GE SILs, or CNS management directives.

**3.4.16 Section 16 - Component Examination Summary Listing**

This section contains the tables and schedule for examination of components and component supports in accordance with the requirements of ASME Section XI.

**3.4.17 Section 17 - Index of Abbreviations**

This section contains the abbreviations used in the preceding tables.

4.0

APPLICATION OF EXEMPTION CRITERIA

4.1. Section XI Class 1 Exemptions:

4.1.1 Subparagraph IWB-1220(a) gives specific guidance for exempting components from the volumetric and surface examination requirements of IWB-2500 if they are: connected to the reactor coolant system (RCS); are part of the reactor coolant pressure boundary; and are of such a size and shape so that upon postulated rupture, the resulting flow of coolant from the RCS under normal plant operating conditions is within the capacity of makeup systems which are operable from on-site emergency power.

Cooper Nuclear Station had General Electric perform an analysis to determine the applicability of IWB-1220(a) and identify those systems and piping line sizes that could be exempted. This analysis was performed under Calculation Number GENE-637-05-1192.

The calculation identifies and provides that those portions of steam piping with an inside diameter of 2.64 inches, and water piping with an inside diameter of 1.34 inches may be exempted from the surface and volumetric examination requirements of Table IWB-2500-1. The systems credited in this calculation with providing normal makeup are the Reactor Core Isolation Cooling (RCIC) and Control Rod Drive (CRD) systems.

In determining the size of the liquid and steam lines excluded from surface and volumetric examination, liquid lines were defined as those which penetrate the reactor pressure vessel (RPV) below the normal water level, and steam lines as those which penetrate the RPV above the normal water level.

The reactor coolant makeup system consists of the following system(s):

System	Pump Flow Rate	Maximum Fluid Temp.	Emergency Power
CRD System	160 GPM	140° F	Yes, On-site
RCIC System	400 GPM	140° F	Yes, On-site

Water flow rates from a liquid line break are taken as 8000 lbs/sec/ft<sup>2</sup> at 1000 psi. Steam flow rates from a steam line are taken as 2000 lbs/sec/ft<sup>2</sup> at 1000 psi. Make-up water weighs 8.33 lbs per gallon at 70° F. On this basis, the exclusion diameters based on reactor coolant make-up system capacity are as follows:

$$(560\text{gpm})(1\text{ ft}^3/7.48\text{gal})(62.4\text{ lbm/ft}^3)(1\text{ min}/60\text{sec}) = 77.86\text{ lb/sec}$$

$$(77.86\text{ lb/sec})/(2000\text{Lb/sec-ft}^2) = 0.0389\text{ ft}^2\text{ for steam}$$

$$(77.86\text{ lb/sec})/(8000\text{Lb/sec-ft}^2) = 0.0097\text{ ft}^2\text{ for water}$$

Therefore, the exempt diameter for **steam is 0.22ft ID** and for **water is 0.11ft ID**. This equates to exempting NPS 2.5 for steam and NPS 1.5 for water systems.

- 4.1.2 Piping that is NPS 1 and smaller, and the components and connections in piping that are NPS 1 and smaller, are exempt from the volumetric and surface examination requirements of IWB-2500 per IWB-1220(b).
- 4.1.3 The supports connected to components which are exempt from examination under IWB-1220 are also exempt from the examination requirements of IWF-2500 and Table IWF-2500-1 per Code Case N-491, Paragraph -1230.
- 4.1.4 The integral attachments of supports connected to components which are exempt from examination under IWB-1220 are also exempt from the examination requirements of IWB-2500 and Table IWB-2500-1 per Code Case N-509, Paragraph 1.1(a).

#### 4.2. Section XI Class 2 Exemptions

##### 4.2.1 **Components Within Residual Heat Removal (RHR), Emergency Core Cooling (ECC), and Containment Heat Removal (CHR) Systems**

- 4.2.1.1 Vessels, piping, pumps, valves and other components that are NPS 4 and smaller are exempt from the volumetric and surface examination requirements of IWC-2500 per IWC-1222(a).
- 4.2.1.2 Component connections that are NPS 4 and smaller (including nozzles, socket fittings, and other connections) in vessels, piping, pumps, valves and other components of any size are exempt from the surface and volumetric examination requirements of IWC-2500 per IWC-1222(b).
- 4.2.1.3 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 operations.

- 4.2.1.4 The supports connected to components which are exempt from examination under IWC-1220 are also exempt from the examination requirements of IWF-2500 and Table IWF-2500-1 per Code Case N-491, Paragraph -1230.
- 4.2.1.4 The integral attachments of supports connected to components which are exempt from examination under IWC-1220 are also exempt from the examination requirements of IWC-2500 and Table IWC-2500-1 per Code Case N-509, Paragraph 1.1(a).
- 4.2.2 Components Within Systems (Or Portions of Systems) Other than RHR, ECC, and CHR Systems**
- 4.2.2.1 Vessels, piping, pumps, valves and other components that are NPS 4 and smaller are exempt from the volumetric and surface examination requirements of IWC-2500 per IWC-1222(a).
- 4.2.2.2 Component connections that are NPS 4 and smaller (including nozzles, socket fittings, and other connections) in vessels, piping, pumps, valves and other components of any size are exempt from the surface and volumetric examination requirements of IWC-2500 per IWC-1222(b).
- 4.2.2.3 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 operations.
- 4.2.2.4 Vessels, piping, pumps, valves and other components of any size in systems or portions of systems that operate (when system function is required) at a pressure  $\leq 275$  psig and at a temperature  $\leq 200^{\circ}\text{F}$  are exempt from the surface and volumetric examination requirements of IWC-2500 per IWC-1222(c).
- 4.2.2.5 The supports connected to components which are exempt from examination under IWC-1220 are also exempt from the examination requirements of IWF-2500 and Table IWF-2500-1 per Code Case N-491, Paragraph -1230.
- 4.2.2.6 The integral attachments of supports connected to components which are exempt from examination under IWC-1220 are also exempt from the examination requirements of IWC-2500 and Table IWC-2500-1 per Code Case N-509, Paragraph 1.1(a).



4.3. Section XI Class 3 Exemptions:

- 4.3.1 The integral attachments of supports and restraints to components that are NPS 4 and smaller within the system boundaries of Examination Categories D-A and D-B of Table IWD-2500-1 will be exempted from visual examination (VT-3).
- 4.3.2 The integral attachments of supports and restraints to components that exceed NPS 4 will be exempted from visual examination (VT-3) of Table IWD-2500-1 provided the components are located within systems (or portions of systems) whose function is not required in support of RHR, ECC, and CHR systems and the components operate at a pressure  $\leq 275$  psig and at a temperature  $\leq 200^{\circ}\text{F}$ .
- 4.3.3 The supports connected to components which are exempt from examination under IWD-1220 are also exempt from the examination requirements of IWF-2500 and Table IWF-2500-1 per Code Case N-491, Paragraph -1230.
- 4.3.4 The integral attachments of supports connected to components which are exempt from examination under IWD-1220 are also exempt from the examination requirements of IWD-2500 and Table IWD-2500-1 per Code Case N-509, Paragraph 1.1(a).

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INSERVICE INSPECTION SUMMARY TABLE

Examination Category	Item Number	Description	Number of Components	Exam Requirements	Technical Position or Relief Request
B-A	B1.11	Circumferential Shell Welds	4	Volumetric	CT-01, RI-06, RI-09, RI-11
	B1.12	Longitudinal Shell Welds	12	Volumetric	CT-01, RI-06, RI-09, RI-11
	B1.21	Circumferential Head Welds	3	Volumetric	CT-01, RI-06, RI-09, RI-11
	B1.22	Meridional Head Welds	22	Volumetric	CT-01, RI-06, RI-09, RI-11
	B1.30	Shell-to-Flange Weld	1	Volumetric	RI-09, RI-11
	B1.40	Head-to-Flange Weld	1	Volumetric & Surface	RI-09, RI-11
B-D	B3.90	Nozzle-to-Vessel Welds in Reactor Vessel	28	Volumetric	RI-09, RI-11
	B3.100	Nozzle Inside Radius Section in Reactor Vessel	28	Volumetric	RI-03, RI-09, RI-11
B-E	B4.11	Partial Penetration Vessel Nozzle Welds	1	Visual, VT-2	
	B4.12	Partial Penetration Control Rod Drive Nozzle Welds	137	Visual, VT-2	
	B4.13	Partial Penetration Instrumentation Nozzle Welds	49	Visual, VT-2	



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INSERVICE INSPECTION SUMMARY TABLE

Examination Category	Item Number	Description	Number of Components	Exam Requirements	Technical Position or Relief Request
B-F	B5.10	Dissimilar Metal Nozzle-to-Safe End Butt Welds NPS 4 or Larger	17	Volumetric & Surface	RI-02, RI-08, RI-09, RI-12
	B5.20	Dissimilar Metal Nozzle-to-Safe End Butt Welds Less than NPS 4	0	Surface	
	B5.130	Dissimilar Metal Butt Welds in Piping NPS 4 or Larger	5	Volumetric & Surface	RI-02, RI-08, RI-09, RI-12
	B5.140	Dissimilar Metal Butt Welds in Piping Less than NPS 4	1	Surface	
	B5.150	Dissimilar Metal Socket Welds in Piping	0	Surface	
B-G-1 <sup>1</sup>	B6.10	Reactor Vessel Closure Head Nuts	52	Surface	RI-16
	B6.20	Reactor Vessel Closure Studs, in Place	48	Volumetric	RI-09
	B6.30	Reactor Vessel Closure Studs, when Removed	4	Volumetric & Surface	RI-09
	B6.40	Threads in Reactor Vessel Flange	52	Volumetric	RI-02, RI-09
	B6.50	Reactor Vessel Closure Washers, Bushings	104	Visual, VT-1	
	B6.180	Bolts & Studs in Pumps	2 Sets	Volumetric	RI-09
	B6.190	Flange Surface, When Connection Disassembled, in Pumps	2 sets	Visual, VT-1	
	B6.200	Nuts, Bushings, & Washers in Pumps	2 Sets	Visual, VT-1	

Note:

1. For B-G-1 and B-G-2 bolting examination is limited to components selected for examination under Categories B-J, B-L-2 and B-M-2.

5.0

INSERVICE INSPECTION SUMMARY TABLE

Examination Category	Item Number	Description	Number of Components	Exam Requirements	Technical Position or Relief Request
B-G-2 <sup>1</sup>	B7.10	Bolts, Studs, & Nuts in Vessels	3 Sets	Visual, VT-1	
	B7.50	Bolts, Studs, & Nuts in Piping	13 Sets	Visual, VT-1	
	B7.70	Bolts, Studs, & Nuts in Valves	48 Sets	Visual, VT-1	
	B7.80	Bolts, Studs, & Nuts in CRD Housings	137 Sets	Visual, VT-1	
B-H	B8.10	Integrally Welded Attachments to Reactor Vessel	5	Volumetric or Surface	RI-07, RI-09
B-J	B9.11	Circumferential Welds in Piping NPS 4 or Larger	369	Volumetric & Surface	RI-02, RI-08, RI-09, RI-12
	B9.12	Longitudinal Welds in Piping NPS 4 or Larger	N/A Code Case 524	Volumetric & Surface	RI-02, RI-09, RI-12
	B9.21	Circumferential Welds in Piping Less than NPS 4	52	Surface	
	B9.31	Branch Pipe Connection Welds NPS 4 or Larger	16	Volumetric & Surface	RI-02, RI-08, RI-09
	B9.32	Branch Pipe Connection Welds Less than NPS 4	2	Surface	
	B9.40	Socket Welds	109	Surface	

Note:

1. For B-G-1 and B-G-2 bolting examination is limited to components selected for examination under Categories B-J, B-L-2 and B-M-2.

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INSERVICE INSPECTION SUMMARY TABLE

Examination Category	Item Number	Description	Number of Components	Exam Requirements	Technical Position or Relief Request
B-K-1 (Code Case 509)	B10.10	Integrally Welded Attachments to Pressure Vessels	0	Volumetric or Surface	RI-09,RI-14, RI-17
	B10.20	Integrally Welded Attachments to Piping	66	Volumetric or Surface	RI-09,RI-14, RI-17
	B10.30	Integrally Welded Attachments to Pumps	6	Volumetric or Surface	RI-09,RI-14, RI-17
	B10.40	Integrally Welded Attachments to Valves	0	Volumetric or Surface	RI-09, RI-14
B-L-2	B12.20	Pump Casings	2	Visual, VT-3	
B-M-2	B12.50	Valve Bodies, Exceeding NPS 4	50	Visual, VT-3	
B-N-1	B13.10	Vessel Interior	1	Visual, VT-3	
B-N-2	B13.20	Interior Attachments within Beltline Region in Reactor Vessel	All	Visual, VT-1	
	B13.30	Interior Attachments beyond Beltline Region in Reactor Vessel	All	Visual, VT-3	
	B13.40	Core Support Structure in Reactor Vessel	1	Visual, VT-3	
B-O	B14.10	Welds in CRD Housing, Peripheral CRDs	36	Volumetric or Surface	RI-09,RI-15
C-A	C1.10	Circumferential Shell Welds	8	Volumetric	RI-02, RI-05, RI-09, RI-11
	C1.20	Circumferential Head Welds	2	Volumetric	RI-02, RI-09, RI-11
	C1.30	Tubesheet-to-Shell Welds	0	Volumetric	RI-02, RI-09, RI-11

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INSERVICE INSPECTION SUMMARY TABLE

Examination Category	Item Number	Description	Number of Components	Exam Requirements	Technical Position or Relief Request
C-B	C2.21	Nozzle-to-Shell (or Head) Weld without Reinforcing Plates in Vessels > 1/2" Nominal Thickness	2	Volumetric & Surface	RI-02, RI-09, RI-11
	C2.22	Nozzle Inner Radius	2	Volumetric	RI-09, RI-11
	C2.31	Reinforcing Plate Welds to Nozzle & Vessel for Nozzles with Reinforcing Plates in Vessels > 1/2" Nominal Thickness	4	Surface	RI-11
	C2.33	Nozzle-to-Shell (or Head) Welds when Inside of Vessel is Inaccessible, for Vessels > 1/2" Nominal Thickness with Reinforcing Plates	2	Visual, VT-2	RI-11
C-C (Code Case 509)	C3.10	Integrally Welded Attachments to Pressure Vessels	2	Surface	RI-14
	C3.20	Integrally Welded Attachments to Piping	139	Surface	RI-14, RI-17
	C3.30	Integrally Welded Attachments to Pumps	6	Surface	RI-14, RI-17, RI-18
	C3.40	Integrally Welded Attachments to Valves	0	Surface	RI-14, RI-17
C-F-1 <sup>1</sup>	C5.11	Circumferential Welds in Austenitic Stainless Steel or High Alloy Piping $\geq 3/8"$ Nominal Wall Thickness for Piping > NPS 4	0	Volumetric & Surface	RI-02, RI-09
	C5.12	Longitudinal Welds in Piping $\geq 3/8"$ Nominal Wall Thickness for Piping > NPS 4	0	Volumetric & Surface	RI-02, RI-09, RI-12
	C5.41	Circumferential Welds in Austenitic Stainless Steel or High Alloy Pipe Branch Connections of Branch Piping > NPS 4 (Reference Table IWC-2500-1, Note 1)	0	Surface	

Note:

1. The number of components identified includes those welds in piping < 3/8" nominal wall thickness in accordance with Note 2 of Table IWC-2500-1, Categories C-F-1 and C-F-2.

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INSERVICE INSPECTION SUMMARY TABLE

Examination Category	Item Number	Description	Number of Components	Exam Requirements	Technical Position or Relief Request
C-F-2 <sup>1</sup>	C5.51	Circumferential Welds in Carbon or Low Alloy Steel Piping $\geq 3/8"$ Nominal Wall Thickness for Piping > NPS 4	966	Volumetric & Surface	RI-02, RI-09, RI-12
	C5.52	Longitudinal Welds in Carbon or Low Alloy Steel Piping $\geq 3/8"$ Nominal Wall Thickness for Piping > NPS 4	0	Volumetric & Surface	RI-02, RI-09, RI-12
	C5.81	Circumferential Welds in Carbon or Low Alloy Steel Pipe Branch Connections of Branch Piping > NPS 4 (Reference Table IWC-2500-1, Note 1)	5	Surface	
C-G <sup>2</sup>	C6.10	Pressure Retaining Welds in Pump Casings	0	Surface	
	C6.20	Pressure Retaining Welds in Valve Bodies	20	Surface	
D-A (Code Case 509)	D1.10	Integrally Welded Attachments to Pressure Vessels	24	Visual, VT-3	RI-14
	D1.20	Integrally Welded Attachments to Piping	114	Visual, VT-3	RI-14, RI-17
	D1.30	Integrally Welded Attachments to Pumps	12	Visual, VT-3	RI-14
	D1.40	Integrally Welded Attachments to Valves	0	Visual, VT-3	RI-14
F-A (Code Case 491)	F1.10	Class I Component Supports	170	Visual, VT-3	RI-13
	F1.20	Class II Component Supports	382	Visual, VT-3	RI-13
	F1.30	Class III Component Supports	413	Visual, VT 3	RI-13
	F1.40 <sup>3</sup>	Supports Other Than Piping Supports (Class 1, 2 and 3)	57	Visual, VT-3	RI-13

- Note:
1. The number of components identified includes those welds in piping < 3/8" nominal wall thickness in accordance with Note 2 of Table IWC-2500-1, Categories C-F-1 and C-F-2.
  2. In case of multiple pumps and valves of similar design, size, function, and service in a system, the examination of only one pump and one valve among each group of multiple pumps and valves is required.
  3. 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.

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**INSERVICE INSPECTION  
TECHNICAL APPROACH AND POSITION INDEX/SUMMARIES**

<b>Position</b>	<b>Rev.</b>	<b>Summary</b>
CT-01	0	Examination of Pressure Retaining Welds in the Reactor Vessel.
CT-02	0	Exemption of Piping, Valves, and Fittings NPS 1 Inch and Smaller, and Their Associated Supports from the Requirements of Article IWA-4000.
CT-03	0	Preparation of Inservice Inspection Summary Reports
CT-04	0	Components Exempt From Examination
CT-05	0	Weld Reference System



**TECHNICAL APPROACH AND POSITION NUMBER: CT-01**

**COMPONENT IDENTIFICATION**

Code Class: 1  
Reference: IWB-2500  
Table IWB-2500-1  
Examination Category: B-A  
Item Numbers: B1.11, B1.12, B1.21, B1.22  
Description: Examination of Pressure Retaining Welds in the Reactor Vessel

**CODE REQUIREMENT**

IWB-2500 states that components shall be examined and tested as specified in Table IWB-2500-1.

Table IWB-2500-1 requires a volumetric examination to be performed each inspection interval on all reactor vessel shell welds, and material weld repairs in the beltline region where the repair depth exceeds 10% nominal vessel wall thickness.

**POSITION**

Volumetric examination of several reactor vessel shell welds, including those in the beltline region, from the reactor vessel outer surface is precluded by the close proximity of the biological shield wall and obstruction by the vessel insulation.

The mirror type insulation installed on the reactor vessel consists of interlocking panels that were not designed to be removed at the weld locations. Furthermore, the annular dimensions between the shield wall and the insulation are not sufficient to allow direct access to personnel for insulation removal.

Volumetric examination of the majority of the reactor vessel shell welds and material weld repairs may be feasible from the inner surface of the reactor vessel, using very specialized examination equipment that has just recently been developed. The full extent of examination coverage that can be achieved utilizing this specialized equipment is not currently known. This is due to the various vessel internal interferences.

CNS is currently pursuing the development of a "Reactor Vessel (RPV) Examination Plan" that will provide a systematic approach to meeting the Section XI examination requirements for reactor vessel shell welds. The extent of reactor vessel weld examination coverage that can be achieved utilizing the specialized examination equipment will also be determined. This determination will be made based on a review of available vessel drawings and the results of a simplified in-vessel inspectability study being implemented.

**TECHNICAL APPROACH AND POSITION NUMBER: CT-01**

**POSITION** (Continued.)

Only those reactor vessel shell welds and material weld repairs that are accessible from the outer surface of the reactor vessel will be scheduled for examination prior to the completion of the RPV Examination Plan. Upon completion of the RPV Examination Plan, CNS will submit a relief request identifying the portions of the Reactor Vessel shell welds and material weld repairs that cannot be examined from either the outer or inner surface of the reactor vessel.

The RPV Examination Plan is currently projected to be completed by the end of the first inspection period of the third interval in accordance with 10CFR50.55a(g)(6)(A).



**TECHNICAL APPROACH AND POSITION NUMBER: CT-02**

**COMPONENT IDENTIFICATION**

Code Classes: 1, 2, and 3  
References: IWA-7400  
IWA-4000  
Examination Category: Not Applicable  
Item Number: Not Applicable  
Description: Exemption of Piping, Valves and Fittings NPS 1 and Smaller, and Their Associated Supports from the Requirements of Article IWA-4000.

**CODE REQUIREMENT**

IWA-7400 identifies items that are exempt from the requirements of Article IWA-7000 (Replacement). These items include piping, valves, and fittings NPS 1 and smaller, and their associated supports.

**POSITION**

Article IWA-4000 (Repair Procedures) does not specifically identify the items that are exempt from the requirements of the Article. As such, CNS will **not** exempt repairs of piping, valves, and fittings NPS 1 and smaller, and their associated supports from the requirements of Article IWA-4000.

IWA-4700 exempts welded repairs on the pressure retaining boundary of component connections, piping, and associated valves that are NPS 1 and smaller from hydrostatic testing. Also, there are no requirements in the 1989 Edition of ASME XI for hydrostatic testing of replacement pressure boundary components installed by mechanical connections. CNS will perform a leakage test at normal operating pressure for repairs and replacements of these components when practical.

**TECHNICAL APPROACH AND POSITION NUMBER: CT-03**

**COMPONENT IDENTIFICATION**

Code Classes: 1 and 2  
References: IWA-6220(c)  
Examination Category: Not Applicable  
Item Number: Not Applicable  
Description: Preparation of Inservice Inspection Summary Reports (Form NIS-1)

**CODE REQUIREMENT**

IWA-6220(c) states, "Inservice inspection summary reports shall be prepared at the completion of each inspection conducted during a refueling outage. Examinations, tests, replacements, and repairs conducted since the preceding summary report shall be included."

**POSITION**

The primary purpose of the inservice summary report is to document; 1) the examinations and tests performed as required by the Inspection Program, 2) the results of those examinations and tests, and 3) the repairs, replacements, and corrective measures taken in response to the results of those examinations and tests.

In addition to 1), 2), and 3) above, repairs and replacements that are a result of plant modifications, planned component changeouts, and routine maintenance are also required to be included on Form NIS-2 per IWA-4000 and IWA-7000, but have no relationship to repairs, replacements or corrective measures taken in response to the results of required Section XI inservice inspection, examinations, and tests.

CNS's position is that all Form NIS-2s which document repairs and replacements will be included in the Inservice Inspection Summary Report.

**TECHNICAL APPROACH AND POSITION NUMBER: CT-04**

**COMPONENT IDENTIFICATION**

Code Classes: 2 and 3  
References: IWC-1220  
IWD-1220  
Examination Category: Not Applicable  
Item Number: Not Applicable  
Description: Components Exempt from Examination

**CODE REQUIREMENT**

IWC-1220, Components Exempt from Examination and IWD-1220, Items Exempt from Examination detail the Class 2 and 3 components which are not required to be examined per Tables IWC-2500-1 and IWD-2500-1, respectively.

**POSITION**

When evaluating Class 2 and 3 components per IWC-1220 and IWD-1220, respectively, components exempt from examination, the phrase, "components that are NPS 4 and smaller" will be understood to mean that vessels, pumps, valves and other components with a cumulative inlet and/or outlet piping NPS 4 and less are exempt from the examinations of Tables IWC-2500-1 and IWD-2500-1.

This position is consistent with the exemption of piping NPS 4 and less because fluid loss due to failure of vessels, pumps, valves, and components connected by NPS 4 piping and smaller would not exceed the capacity of the NPS 4 piping.

This position is also supported by ASME Code Case N-408-2, Footnote 2, which states, "*In piping* is defined as having a cumulative inlet and a cumulative outlet pipe cross-sectional area neither of which exceeds the nominal OD cross-sectional area of the designated size."

As a note, Code Case N-408-2 is approved for use in Regulatory Guide 1.147, Revision 11.

**TECHNICAL APPROACH AND POSITION NUMBER: CT-05**

**COMPONENT IDENTIFICATION**

Code Classes: 1 and 2  
References: IWA-2600  
Examination Category: Not Applicable  
Item Number: Not Applicable  
Description: Weld Reference System

**CODE REQUIREMENT**

IWA-2610 states a reference system shall be established for all welds and areas subject to surface and volumetric examination.

Each such weld and area shall be located and identified by a system of reference points. The system shall permit identification of each weld, location of each weld centerline, and designation of regular intervals along the weld length.

**POSITION**

At the time of construction of CNS, neither datum reference markings nor a reference system were required by Code. Application of such physical markings to each and every item subject to surface and volumetric examination at an operating plant would require significant expenditure of resources and result in additional, unnecessary personnel radiation exposure. In many instances, limited or no physical access is available to permit such markings.

It is CNS's position to continue using the present weld identification method employed during the two previous 10 year inspection intervals. This is accomplished by procedurally describing datum or reference points such that subsequent relocation of the examination area can be repeatedly achieved.

During the course of performing examinations for the third inspection interval, in accordance with the requirements of the Inservice Inspection Program, weld reference points will be physically applied to welds where flaw indications are detected and determined to be relevant.

Where new welds are installed as a result of repair and replacement and require preservice inspection, the requirements of IWA-2600 will be met.

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**INSERVICE INSPECTION RELIEF REQUESTS**

Per the requirements of 10CFR50.55a(g)(5)(iii), if a licensee determines that conformance to certain Code requirements is impracticable for the facility the licensee shall notify the Commission and submit, as specified in 10CFR50.4, information to support the determination.

The 1989 Edition of Section XI Code contains provisions permitting alternative or substitute examinations, with evaluation and technical justification, to satisfy applicable Code requirements. These evaluations are to be prepared in accordance with Nonmandatory Appendix F. The intent of Appendix F, Article 3000 is to provide guidance for preparation of requests for relief from Code requirements where it has been determined that certain Code requirements cannot be met or are deemed impracticable. At CNS, Relief Requests will be prepared in accordance with Appendix F and submitted to the NRC per 10CFR50.55a.

The following pages contain relief requests written in accordance with 10CFR50.55a(a)(3) and (g)(5) when specific ASME Section XI requirements for inservice inspection are considered impracticable or pose an undue burden on the licensee. The relief requests contained are subject to change during the course of the ten year inspection interval as a result of changes in technology, plant design or as a result of installed modifications. If examinations or tests are determined to be impracticable, or result in hardship or unusual difficulty without a commensurate increase in the level of quality or safety, during the course of the interval, additional or modified relief requests will be submitted in accordance with 10CFR50.55(a)(3) and (g)(5).

The following Table summarizes each relief request and provides for sequential numbering to maintain continuity for the remainder of the inspection interval.



**INSERVICE INSPECTION RELIEF REQUESTS**

Relief Request	Rev.	Summary
RI-01	0	24" HPCI Turbine Exhaust 10" Branch Connection - Withdrawn
RI-02	0	Use of Existing Calibration Blocks for Ultrasonic Examination of Class 1 and 2 Components.
RI-03	0	Reactor Vessel Top Head Nozzle Inner Radius Examinations
RI-04	0	Intentionally Left Blank
RI-05	0	Inspection of Residual Heat Removal (RHR) Heat Exchanger Tubesheet-to-Shell Welds.
RI-06	0	Circumferential and Longitudinal Welds in the Reactor Pressure Vessel
RI-07	0	Inspection of the RPV Support Skirt to Reactor Vessel Bottom Head Weld.
RI-08	0	Expansion Criteria for Welds Governed by Generic Letter 88-01 and NUREG 0313, Rev. 2.
RI-09	0	Exemption from Appendix VII Ultrasonic Examination Personnel Qualification Requirements.
RI-10	0	Use of the 1989 Addenda of Section XI to Govern Repair Procedures (IWX-4000) Replacements (IWX-7000).
RI-11	0	Successive Examination Requirements for Class 1 and 2 vessels.
RI-12	0	Alternative Examination of Class 1 and 2 Piping Longitudinal Seam Welds.
RI-13	0	Examination and Testing of Class 1, 2, and 3 Snubbers
RI-14	0	Alternative Rules for the Selection and Examination of Class 1, 2, and 3 Integrally Welded Attachments
RI-15	0	Examination of Peripheral Control Rod Drive Housing Welds
RI-16	0	Use of the Examination Requirements, Examination Method, and Acceptance Standard of the 1989 Addenda of ASME Section XI for Reactor Vessel Closure Head Nuts.
RI-17	0	Integrally Welded Shear Lugs
RI-18	0	Integrally Welded Attachment to the RHR Pump Casings

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-01**

**COMPONENT IDENTIFICATION**

HPCI Turbine Exhaust Line Pressure Boundary - withdrawn in accordance with NRC letter dated September 20, 1995 (TAC No. M93037)

## INSERVICE INSPECTION RELIEF REQUESTS

### RELIEF REQUEST NUMBER: RI-02

#### COMPONENT IDENTIFICATION

Code Classes: 1 and 2  
References: IWA-2232  
Appendix I, I-2200  
Appendix III, III-3411  
Examination Categories: B-F, B-G-1, B-J, C-A, C-B, C-F-1, C-F-2  
Item Numbers: B5.10, B5.130, B6.40, B9.11, B9.12, B9.31, C1.10, C1.20, C1.30,  
C2.21, C5.11, C5.12, C5.51, C5.52  
Description: Use of Existing Calibration Blocks for Ultrasonic Examination of Class  
1 and 2 Components.  
Component Numbers: Various

#### CODE REQUIREMENT

IWA-2232 states that ultrasonic examination shall be conducted in accordance with Appendix I.

Appendix I, I-2200 states that ultrasonic examination of vessel welds less than 2 inches thick and all piping welds shall be conducted in accordance with Appendix III, as supplemented by Appendix I.

Appendix III, III-3411 outlines the material specification requirements for calibration blocks. It basically requires calibration blocks to be fabricated from the same material specification as the piping being joined by the weld. It also states that if material of the same specification is not available, material of similar chemical analysis, tensile properties, and metallurgical structure may be used.

#### BASIS FOR RELIEF

Several of the calibration blocks currently being used at CNS lack the documentation necessary to demonstrate compliance with the material specification requirements of Appendix III. This is because the documentation requirements existing at the time of their fabrication did not require traceability to the material's chemical or physical certifications. Consequently, the only documentation available for these existing calibration blocks is verification of the appropriate P-number grouping.

It would be impracticable to fabricate a new set of calibration blocks in order to satisfy the documentation requirements of the current Code. Existing records, which indicate the appropriate P-number grouping, provide adequate assurance that the blocks will establish the proper ultrasonic calibration and sensitivity.



## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-02

### **BASIS FOR RELIEF** (Continued)

Based on the above, CNS requests relief from the ASME Section XI, Appendix III requirements for calibration block material specifications, in order to allow the continued use of the existing calibration blocks.

### **PROPOSED ALTERNATE PROVISIONS**

All future calibration blocks will meet the material specification requirements of ASME Section XI, Appendix III and will be provided with the documentation necessary to demonstrate compliance with these requirements. Additionally, when using existing calibration blocks that lack the appropriate documentation, a comparison will be made between the attenuation of the calibration block and the material being examined.

### **APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-03

### COMPONENT IDENTIFICATION

Code Class: 1  
References: IWB-2500  
Table IWB-2500-1  
Examination Category: B-D  
Item Numbers: B3.100  
Description: Reactor Vessel Top Head Nozzle Inner Radius Examinations  
Component Numbers: Nozzle N6A, Head Spray; Nozzle N6B, Head Instrument Nozzle;  
Nozzle N7, Head Vent

### CODE REQUIREMENT

IWB-2500 states that components shall be examined and tested as specified in Table IWB-2500-1.

Table IWB-2500-1 requires a volumetric examination be performed on reactor vessel nozzle inside radius and the areas required in Figure IWB-2500-7.

### BASIS FOR RELIEF

The three nozzles specified in this request for relief are located in the reactor vessel closure head. The nozzles are of such size and geometric configuration that a volumetric examination, performed from the O.D. surface of the nozzle, will neither yield meaningful results nor provide for complete coverage of the required weld volume.

### PROPOSED ALTERNATE EXAMINATION

As an alternate examination, CNS will perform a surface examination of the subject nozzle inner radius sections in lieu of the required volumetric examination. Since the intent of the volumetric examination is to detect cracking at the inner surface of the nozzle radius section, a surface examination performed when the closure head is removed during a refueling outage, would provide more sensitive results and provide for complete coverage of the required area subject to examination. Relief from the volumetric examination requirements and performing a surface examination of the nozzle inner radius sections was granted during the second ten-year inspection interval in Relief Request No.3 of the CNS ISI Program.

### APPLICABLE TIME PERIOD

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-04**

**COMPONENT IDENTIFICATION**

Code Class: Intentionally Left Blank  
References:  
Examination Category:  
Item Number:  
Description:  
Component Numbers:

**CODE REQUIREMENT**

**BASIS FOR RELIEF**

**PROPOSED ALTERNATE EXAMINATION**

**APPLICABLE TIME PERIOD**

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-05

### COMPONENT IDENTIFICATION

Code Class: 2  
References: IWC-2500  
Table IWC-2500-1  
Examination Category: C-A  
Item Number: C1.30  
Description: Inspection of Residual Heat Removal (RHR) Heat Exchanger Tubesheet-to-Shell Welds.  
Component Numbers: RHR Heat Exchanger 1A Weld No. RHR-CA-3A  
RHR Heat Exchanger 1B Weld No. RHR-CA-3B

### CODE REQUIREMENT

IWC-2500 states that components shall be examined and tested as specified in Table IWC-2500-1.

Table IWC-2500-1 requires a volumetric examination to be performed on heat exchanger tubesheet-to-shell welds each inspection interval.

### BASIS FOR RELIEF

The RHR heat exchanger tubesheet-to-shell welds as shown on Figure RI-05.1 are designed with a geometry that provides a corner trap for ultrasonic signals and has limited accessibility. The geometric reflectors inherent in this design prevent a meaningful ultrasonic examination from being performed on these welds.

An investigation into the feasibility of performing ultrasonic examinations on the subject welds was conducted during the second ten-year interval of the Inservice Inspection Program for CNS. Various ultrasonic examination techniques tried during the investigation concluded that a meaningful ultrasonic examination can not be performed on this joint configuration. The investigation determined that the tubesheet-to-shell weld configuration was not accessible for performing either a volumetric or surface examination. As a result CNS applied for specific relief from the examination requirements of Table IWC-2500-1 which was granted by the NRC for the second inspection interval.

Based on the above, CNS requests relief from the ASME Section XI examination requirements for performing a volumetric examination of the RHR heat exchanger tubesheet-to-shell welds.

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-05**

**PROPOSED ALTERNATE EXAMINATION**

As an alternate examination, CNS will perform a visual examination, VT-1 of the applicable weld each inspection interval. Additionally, a visual examination, VT-2, at the required frequency specified by Table IWC-2500-1, Category C-H, will be performed on the shell side of the heat exchanger.

**APPLICABLE TIME PERIOD**

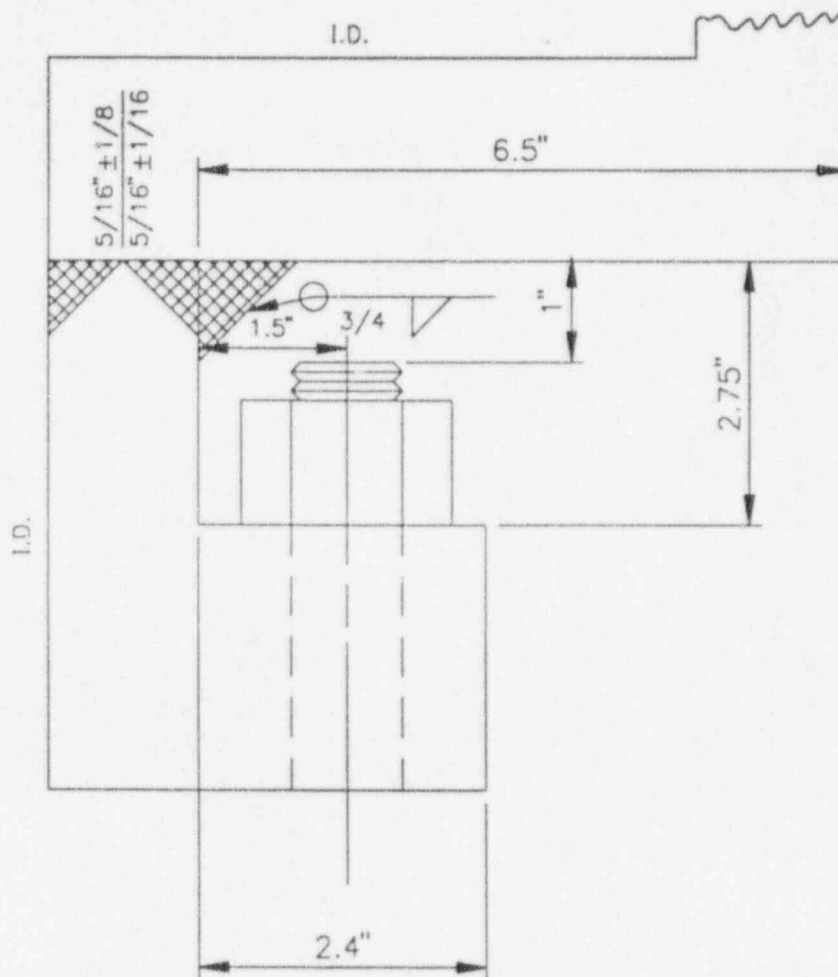
Relief is requested for the third ten-year interval of the Inservice Inspection program for CNS.

INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-05

FIGURE RI-05.1

RHR HEAT EXCHANGER TUBESHEET TO SHELL WELD DETAIL





## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-06

### COMPONENT IDENTIFICATION

Code Class: 1  
References: IWB-2500  
Table IWB-2500-1  
Examination Category: B-A  
Item Number: B1.11, B1.12, B1.21, B1.22  
Description: Inspection of Reactor Vessel Circumferential and Longitudinal Shell  
Welds and Lower Head Circumferential and Meridional Welds.  
Component Numbers: HMB-BB-1 HMB-BB-2 HMB-BB-3 HMB-BB-4 HMB-BB-5  
HMB-BB-6 VCB-BA-2 VLA-BA-1 VLA-BA-2 VLA-BA-3  
VLB-BA-1 VLB-BA-2 VLB-BA-3

### CODE REQUIREMENT

Table IWB-2500-1 and -2 requires a volumetric examination of all beltline region shell circumferential and longitudinal welds.

Table IWB-2500-3 requires a volumetric examination of accessible lengths of all lower head circumferential and meridional welds.

### BASIS FOR RELIEF:

The Cooper Nuclear Station construction permit was issued before the effective date of implementation for ASME Section XI and thus the plant was not designed to meet the requirements of inservice inspection; therefore, 100% compliance is not feasible or practicable.

Access to the reactor vessel beltline region from the exterior is not possible. The reactor vessel is insulated with permanent reflective insulation and surrounded by a concrete biological shield. The annular space between the inside diameter of the insulation and the outside diameter of the reactor vessel is a nominal 2 inches. There is no working space to remove the insulation panels from the vessel, which precludes both direct and remote examination of the outside surface.

The interior surface is clad and the vessel internals, shroud and jet pumps make an internal volumetric examination of these welds difficult. Parts of longitudinal seams VLA-BA-1, 2, and 3 however appear to be accessible from openings around the recirculation riser nozzles N2A, N2E, and N2H respectively. Again these seams are not 100% accessible. In order to scan the weld a minimum of 17 inches of surface area from the weld would be required. This surface area is only available for a few inches close to a nozzle.

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-06**

**PROPOSED ALTERNATE EXAMINATION**

As an alternative examination, CNS will develop and implement a "Reactor Vessel (RPV) Examination Plan" in accordance with 10CFR50.55a(g)(6)(A). Upon completion of the examination, this relief request will be revised as necessary to document the weld lengths accessible for future examination.

**APPLICABLE TIME PERIOD**

Relief is requested for the first period of the third ten-year interval of the Inservice Inspection program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-07

### COMPONENT IDENTIFICATION

Code Class: 1  
References: IWB-2500  
Table IWB-2500-1  
Figure IWB-2500-13  
Examination Category: B-II  
Item Number: B8.10  
Description: Inspection of Reactor Vessel Support Skirt to Reactor Vessel Bottom  
Head Weld.  
Component Numbers: HNC-C1-1, HNC-C1-2, HNC-C1-3

### CODE REQUIREMENT

IWB-2500 states that components shall be examined and tested as specified in Table IWB-2500-1.

Table IWB-2500-1 requires a surface examination to be performed on areas A-B and C-D of Figure IWB-2500-13.

### BASIS FOR RELIEF

The reactor vessel bottom head was constructed with a weld build-up around the circumference of the head that was designed as the attachment point for the reactor vessel support skirt (Figure RI-07.1). This weld build-up was machined and heat treated along with the reactor vessel.

The support skirt is attached to the weld build-up by means of a full penetration butt weld. As can be seen in Figure RI-07.2, the design of this weld is such that the surface examination requirements of Figure IWB-2500-13 (area C-D) can not be met due to lack of accessibility. Additionally, the configuration of the weld precludes the performance of a full coverage volumetric examination of volume A-B-C-D from one side (A-B) of the weld. However, a partial coverage volumetric examination of this volume can be performed from one side (A-B) of the weld. Based upon a review of the fabrication drawings, it is estimated that an ultrasonic examination can be performed on volume A-B-C-D, as shown on Figure RI-07.2. Performance of this partial coverage volumetric examination, coupled with a surface examination on the A-B side of the weld, will provide adequate assurance of the structural integrity of the weld.

Based on the above, CNS requests relief from the ASME Section XI, surface examination requirements of Figure IWB-2500-13.

Relief from the examination requirements of Section XI was granted for this weld during the second ten year inspection interval in the CNS ISI Program.

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-07**

**PROPOSED ALTERNATE EXAMINATION**

As an alternate examination, CNS will perform a surface examination on the accessible side of the subject weld (area A-B), and an ultrasonic examination of area A-B-C-D, as shown on Figure RI-07.2, each inspection interval.

**APPLICABLE TIME PERIOD**

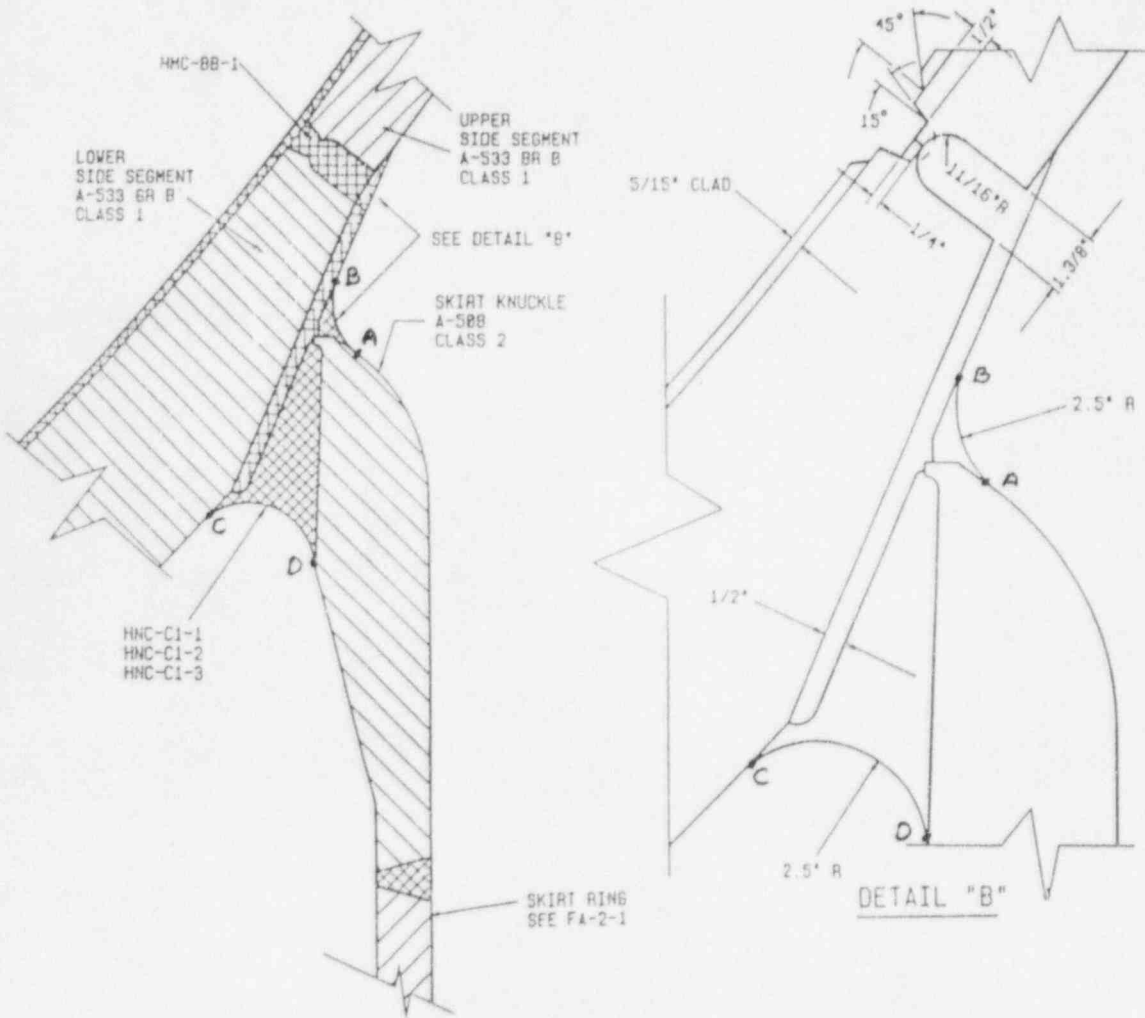
Relief is requested for the third ten-year interval of the Inservice Inspection program for CNS.

INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-07

FIGURE RI-07.1

REACTOR VESSEL BOTTOM HEAD WELD BUILD-UP

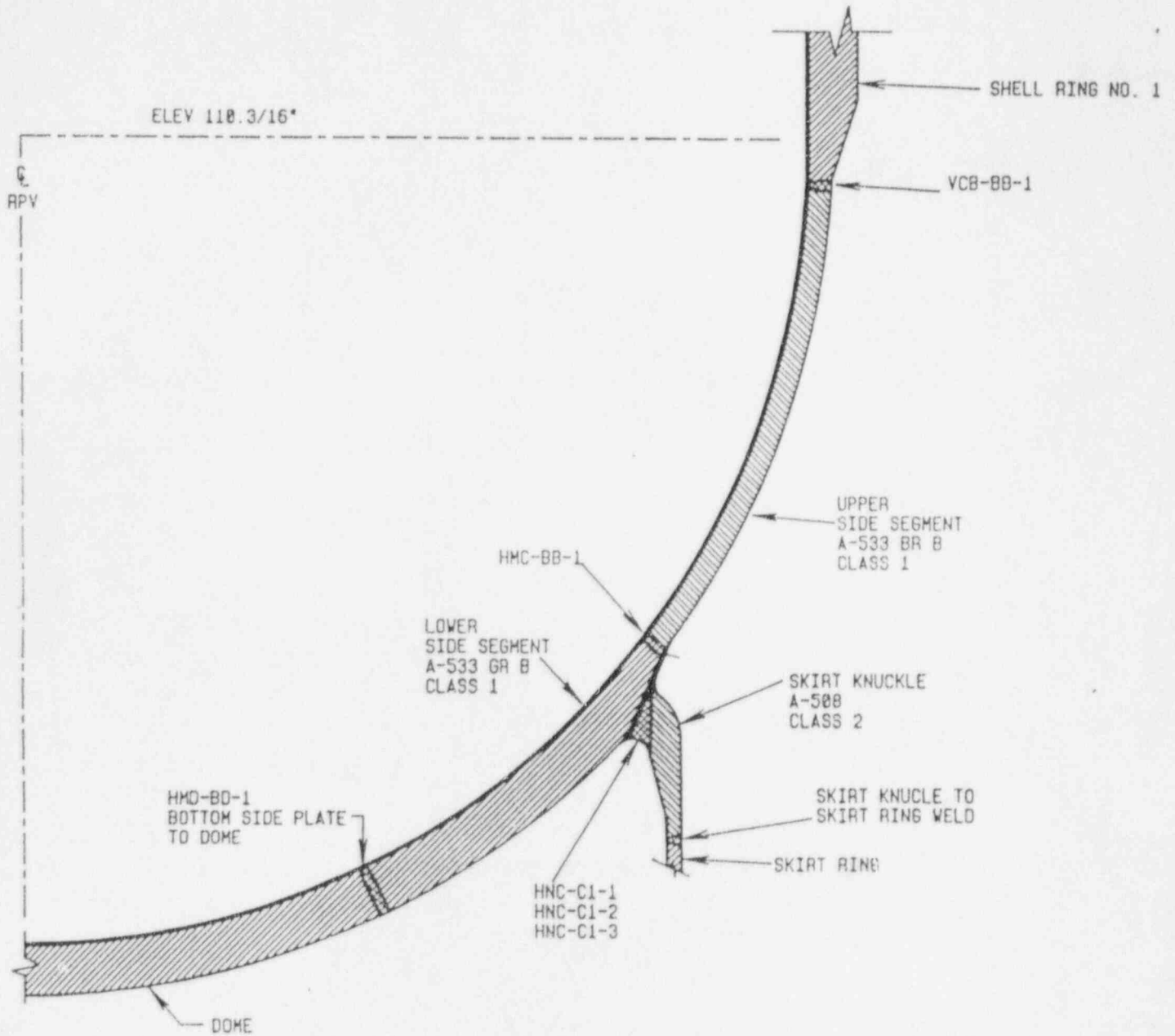


INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-07

FIGURE RI-07.2

REACTOR VESSEL SUPPORT SKIRT ATTACHMENT WELD





## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-08

### COMPONENT IDENTIFICATION

Code Classes: 1 and 2  
References: IWB-2430  
IWC-2430  
Examination Categories: B-F, B-J  
Item Numbers: B5.10, B5.130, B9.11, B9.31  
Description: Expansion Criteria for Welds Governed by Generic Letter 88-01 and NUREG-0313, Rev. 2.  
Component Numbers: All full penetration circumferential and branch pipe connection welds in austenitic stainless steel piping that is NPS 4 or larger and contains reactor coolant at a temperature greater than 200 degrees F during power operation.

### CODE REQUIREMENT

IWB-2430 outlines the additional examinations that must be performed when indications are revealed that exceed the acceptance standards of IWB-3000.

### BASIS FOR RELIEF

Each of the subject welds fall under the augmented inspection program required by Generic Letter 88-01, and NUREG-0313, Rev. 2. This program governs examination methods, examination frequency, and sample expansion. The sample expansion requirements of this program are designed such that additional examinations are limited to welds that have the same susceptibility to Intergranular Stress Corrosion Cracking (IGSCC) as the weld in which the flaw was found. This methodology ensures that welds at a high risk for cracking are examined during the same refueling outage, while not requiring expenditure of the Man-Rem and outage time associated with examining additional low risk welds.

In many instances, the examinations performed to meet the requirements of Generic Letter 88-01 are also used to meet the requirements of ASME Section XI. In these cases it is not practicable to apply the expansion criteria of both Generic Letter 88-01/NUREG-0313 and ASME Section XI when unacceptable IGSCC flaw indications are identified.

Based on the above, CNS requests relief from the ASME Section XI requirements for additional examinations when unacceptable flaw indications are identified in the subject welds.

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-08**

**PROPOSED ALTERNATE PROVISIONS**

CNS will perform sample expansions as required by Generic Letter 88-01 and NUREG-0313, Rev. 2 when unacceptable IGSCC flaw indications are identified in the subject welds.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-09

### COMPONENT IDENTIFICATION

Code Classes: 1 and 2  
References: IWA-2311(b)  
Appendix VII  
Examination Categories: B-A, B-D, B-F, B-G-1, B-H, B-J, C-A, C-B, C-F-1, C-F-2  
Item Numbers: B1.10 through B1.51  
B3.90, B3.100, B5.10, B5.130, B6.20, B6.30, B6.40, B6.180, B8.10,  
B9.11, B9.12, B9.31, C1.30, C2.21, C2.22, C5.11, C5.12, C5.51,  
C5.52  
Description: Exemption from Appendix VII Ultrasonic Examination Personnel  
Qualification Requirements.  
Component Numbers: All Class 1 and 2 components requiring ultrasonic examination.

### CODE REQUIREMENT

IWA-2311(b) requires the training, qualification, and certification of ultrasonic examination personnel to comply with the requirements of Appendix VII, in addition to the requirements of IWA-2300.

Appendix VII addresses requirements for the employer's written practice, qualification of ultrasonic examiners, qualification records, and the minimum content of initial training courses for the ultrasonic examination method.

### BASIS FOR RELIEF

Appendix VII was first introduced in the 1988 Addenda to Section XI. This Appendix represents a dramatic change from previous Code editions and current industry practices in the requirements for qualification of ultrasonic examination personnel. For instance, new training programs must be developed and taught by trained instructors, employer's written practices must be completely rewritten, examination question banks must be developed, and specimen banks of at least 15 specimens (with 5 containing actual or simulated flaws) must be developed and purchased.

Implementation of this Appendix will require a massive industry effort. Although the industry is currently working towards compliance with Appendix VII, full implementation has still not been achieved. In fact, since Appendix VII allows for the use of specimens prepared for ultrasonic performance demonstrations per Appendix VIII, many NDE vendors are developing these two programs simultaneously in order to avoid purchasing dual specimens.

Based on the above, CNS requests relief from the ASME Section XI, Appendix VII requirements for the qualification of nondestructive examination personnel for ultrasonic examination.

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-09**

**PROPOSED ALTERNATE PROVISIONS**

CNS will utilize ultrasonic examination personnel qualified in accordance with the requirements of IWA-2300, with the exception of IWA-2311(b). Additionally, personnel utilized to perform ultrasonic examinations on IGSCC susceptible welds will be qualified in accordance with the latest EPRI guidelines.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS, until such time as the industry is able to comply with the provisions of ASME Section XI, Appendix VII.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-10

### COMPONENT IDENTIFICATION

Code Classes: 1, 2, and 3  
References: IWA, IWB, IWC, IWD, and IWF-4000 (IWX-4000)  
IWA, IWB, IWC, IWD, and IWF-7000 (IWX-7000)  
Examination Category: Not Applicable  
Item Number: Not Applicable  
Description: Use of the 1989 Addenda of Section XI to Govern Repair Procedures (IWX-4000) and Replacements (IWX-7000)  
Component Numbers: All Class 1, 2, and 3 pressure retaining components and their supports.

### CODE REQUIREMENT

IWX-4000 provides the rules and requirements for repair of pressure retaining components and their supports, and for the attachment of replacements to the system by welding or brazing.

IWX-7000 provides the rules and requirements for the specification and construction of items to be used for replacement.

### BASIS FOR RELIEF

The 1989 Addenda to Section XI made several changes to Articles IWX-4000 and IWX-7000. Very few of these changes were technical in nature. Instead, the changes restructured some of the requirements, clarified others that were difficult to interpret, and eliminated redundant requirements. Of the actual technical changes made, these changes either add enhancements to the program, add requirements not applicable to CNS, or delete requirements for the use of Section III for installation of non-welded piping joints and allow the use of the original code of construction.

The following is a detailed summary of each of the changes made to IWX-4000 and IWX-7000 in the 1989 Addenda to Section XI.

IWA-4130: This section was restructured to differentiate between a repair program and a repair plan. The repair program is the document or set of documents that defines the managerial and administrative control for the completion of repairs. The repair plan is the document that identifies the essential requirements for completion of the repair. This section also includes additional items that must be identified in the repair plan. These items include:

1. The Code Edition of Section XI governing the repair.
2. The original construction code for the item being repaired.
3. The construction code applicable to the repair.
4. A description of the work to be performed.
5. Material requirements.

## INSERVICE INSPECTION RELIEF REQUESTS

### RELIEF REQUEST NUMBER: RI-10

#### BASIS FOR RELIEF (Continued)

- IWA-4322: This section was clarified to specify that material must be mechanically removed from thermally processed areas.
- IWA-4700: Seal welds were added to the items exempted from hydrostatic testing. Also, the statement identifying repairs not exempted from hydrostatic testing was deleted. There was no need for this statement since this section already identifies the only repairs that could be exempted.
- IWB-4300: This section on heat exchanger tube sleeving was added. However, since CNS has no Class 1 heat exchangers, this change has no effect on the program.
- IWA-7320: The title of this section was changed from "Welding" to "Installation". The section was changed to address individual requirements for installation by welding or brazing and installation by mechanical methods. Also, it now delineates specific requirements for pressure testing mechanical connections. Prior to the 1989 Addenda, the requirements for pressure testing mechanical connections were only inferred by IWA-5214.
- IWB-7100: The scope was changed from "installation of replacements" to "Class 1 system replacements".
- IWB-7300: The title of this section was changed from "Installation not Requiring Welding" to "Mechanical Joints and Connections".
- IWB-7320: This section (Bolted Connections) was deleted. This change allows the use of the original construction code for determining bolt size and torquing loads, in lieu of the methods specified in Section III, Appendix E.
- IWB-7400: This section (Installation Requiring Welding) was deleted. There was no need for this section since the same requirements are already identified in IWA-7320.
- IWB-7600: This section (Materials) was deleted. There was no need for this section since the same requirements are already identified in IWA-7200.
- IWC-7200: This number was changed to IWC-7100. Also, the section was changed to state that the rules of IWA-7000 apply. The only technical difference this change makes is that it allows the use of the original construction code for determining bolt size and torquing loads, in lieu of the methods specified in Section III, Appendix E. This is because the change eliminates the requirement to follow the rules of IWB-7320.



## INSERVICE INSPECTION RELIEF REQUESTS

### RELIEF REQUEST NUMBER: RI-10

#### **BASIS FOR RELIEF** (Continued)

- IWC-7300: This section (Non-welded Piping Joints) was deleted. This change allows non-welded piping joints to meet the requirements of the original construction code, in lieu of those specified in NC-3671.
- IWC-7600: This section (Materials) was deleted. There was no need for this section since the same requirements are already identified in IWA-7200.
- IWD-7200: This number was changed to IWD-7100. Also, the section was changed to state that the rules of IWA-7000 apply. The only technical difference this change makes is that it allows the use of the original construction code for determining bolt size and torquing loads, in lieu of the methods specified in Section III, Appendix E. This is because the change eliminates the requirement to follow the rules of IWB-7320.
- IWD-7300: This section (Non-welded Piping Joints) was deleted. This change allows non-welded piping joints to meet the requirements of the original construction code, in lieu of those specified in NC-3671.
- IWD-7600: This section (Materials) was deleted. There was no need for this section since the same requirements are already identified in IWA-7200.
- IWF-7000: The title of this section was changed from "Scope" to "General Requirements". Also, the section was changed to state that the rules of IWA-7000 apply.
- IWF-7300: This section (Installation not Requiring Welding), which was simply a title, was deleted.
- IWF-7310: This section (Mechanical Joints) was deleted. There was no need for this section since the same requirements are already identified in IWA-7200.
- IWF-7400: This section (Installation Requiring Welding) was deleted. There was no need for this section since the same requirements are already identified in IWA-7320.
- IWF-7600: This section (Materials) was deleted. There was no need for this section since the same requirements are already identified in IWA-7200.

The use of the aforementioned Edition and Addenda of Section XI will provide the basis for an enhanced Inservice Inspection Program.

Based on the above, CNS requests relief from the rules and requirements of the 1989 Edition of ASME Section XI, for Repair Procedures (IWX-4000) and Replacements (IWX-7000).

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-10**

**PROPOSED ALTERNATE PROVISIONS**

CNS will use the 1989 Edition of ASME Section XI, as amended by the 1989 Addenda, to govern Repair Procedures (IWX-4000) and Replacements (IWX-7000).

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-11

### COMPONENT IDENTIFICATION

Code Classes: 1 and 2  
References: IWB-2420  
IWC-2420  
Examination Categories: Various  
Item Numbers: Various  
Description: Successive Examinations of Class 1 and 2 Vessels

### CODE REQUIREMENT

IWB-2420 and IWC-2420 outline the successive examinations that must be performed when indications are revealed that exceed the acceptance standards of IWB-3000 and IWC-3000, respectively.

### BASIS FOR RELIEF

Relief is requested on the basis that the alternatives would provide an acceptable level of quality and safety.

Industry experience has shown that most vessel flaws located during inservice inspection volumetric examinations are not planar or crack like. They are embedded volumetric anomalies resulting from material manufacture or component fabrication, e.g., laminations, mid-plate segregates, slag, side-wall lack of fusion, etc. Similarly, most of these flaws are located mid-wall or in a neutral zone with regard to stresses. Analysis shows these types of flaws to be non-propagating or benign for growth considerations. The industry's ultrasonic examination capability for flaw identification is available and has been readily demonstrated. The expense and additional radiation exposure to perform out-of interval or unscheduled examinations of benign embedded fabrication flaws are extensive and do not offer any commensurate increase in safety with cost benefit.

### PROPOSED ALTERNATE PROVISIONS

As an alternative to IWB-2420 and IWC-2420, CNS will not perform successive examinations on vessel flaws which, through analysis, have been determined to originate from material manufacture or fabrication provided:

- a) The flaw is characterized as subsurface in accordance with IWA-3310(b);
- b) The NDE technique and evaluation which identified and characterized the flaw as originating from material manufacture or fabrication are documented in the flaw evaluation report; and

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-11**

**PROPOSED ALTERNATE PROVISIONS (Continued)**

- c) The flaw has been determined to be acceptable for continued service in accordance with IWB-3132.4, or IWC-3122.4, and demonstrated to have growth within acceptable limits until the next scheduled inspection, or until the end of the service life of the component.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-12

### COMPONENT IDENTIFICATION

Code Classes: 1 and 2  
Reference: IWB-2500  
IWC-2500  
Table IWB-2500-1  
Table IWC-2500-1  
Code Case N-408-2  
Examination Categories: B-F, B-J, C-F-1, C-F-2  
Item Numbers: B5.10, B5.130, B9.11, B9.12, C5.11, C5.12, C5.51, C5.52  
Description: Alternative Examination of Class 1 and 2 Piping Longitudinal Seam Welds.  
Component Numbers: Various

### CODE REQUIREMENT

Subarticle IWB-2500 of ASME Section XI states that Class 1 components shall be examined and tested as specified in Table IWB-2500-1. Table IWB-2500-1 requires a surface and volumetric examination be performed on longitudinal pipe welds on piping greater than or equal to NPS 4 and a surface examination only on longitudinal pipe welds less than NPS 4.

Subarticle IWC-2500 of ASME Section XI states that Class 2 components shall be examined and tested as specified in Table IWC-2500-1. Table IWC-2500-1 requires a surface and volumetric examination be performed on longitudinal pipe welds having a nominal pipe wall thickness greater than 1/2 inch. It also specifies and requires a surface examination only for those longitudinal pipe welds having a nominal pipe wall thickness of 1/2 inch and less and for those contained in pipe branch connections having a pipe diameter greater than 4" NPS.

Code Case N-408-2, "Alternative Rules for Examination of Class 2 Piping ; Section XI, Division 1", Section (d) states as an alternative to Table IWC-2500-1 the requirements of Table 2 of the Code Case may be used for welds in carbon steel or low alloy piping, Code Category C-F-2. Table 2 requires a surface and volumetric examination be performed on Class 2 longitudinal pipe welds where the nominal pipe wall thickness is greater than or equal to 3/8 inch for piping greater than NPS 4.

### BASIS FOR RELIEF

Specific relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety.



## **INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-12**

### **BASIS FOR RELIEF (Continued)**

The area of the longitudinal seam weld which is most susceptible to failure is that portion immediately adjacent to the circumferential weld. During the circumferential welding process, this area is most likely to undergo material changes, resulting in flaw development and potential failure. This critical area is included in the required volume of material examined during the volumetric scanning of the circumferential weld.

### **PROPOSED ALTERNATE PROVISIONS**

As an alternative to the Code required volumetric examination and/or surface examination of Class 1 and 2 longitudinal pipe welds, CNS will perform the examinations in accordance with ASME Section XI Code Case N-524, "Alternative Examination Requirements for Longitudinal Pipe Welds in Class 1 and 2 Piping ; Section XI, Division 1".

### **APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection program for CNS.



## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-13

### COMPONENT IDENTIFICATION

Code Class: 1, 2, and 3  
References: IWF-1220  
IWF-5000  
Examination Category: F-A  
Description: Snubbers  
Component Numbers: Applicable Safety-Related Class 1, 2, and 3 Snubbers

### CODE REQUIREMENT

IWF-1220 states that components shall be examined and tested as specified in IWF-5000.

Table IWF-5000 requires that Preservice and Inservice examinations and tests be performed in accordance with ASME/ANSI OM-1987, Part 4.

### BASIS FOR RELIEF

Specific relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety.

Currently, the CNS Technical Specifications include a comprehensive program for visual examination and functional testing of all safety-related hydraulic and mechanical snubbers, including all ASME Code Class designated 1, 2, and 3 snubbers.

A significant portion of the safety related snubbers at CNS are also Code Class. The overlap of the visual examination and testing programs per ASME Section XI and Technical Specifications for the Code Class snubbers presents an unnecessary redundancy.

The Technical Specification snubber visual examination program and the program required by Subsection IWF of ASME Section XI are similar in content. Both programs include parallel criteria for operability, schedule, and sample size.

The Technical Specification snubber testing program and the testing program required by Subsection IWF of ASME Section XI are also very similar in content. Both programs include parallel requirements for operability testing. Similar requirements for testing frequency, sample size, and additional sampling for failures are also included in both programs.

Regarding test frequency and sample size, CNS's Technical Specification Program calls for random testing of 10% of the total snubber population every 18 months during a shutdown. Due to the random Technical Specification sampling, 10% of the Code Class snubbers will be tested, as required by Subsection IWF of Section XI. Over a ten outage cycle, 100% of the total snubber population is tested.

## INSERVICE INSPECTION RELIEF REQUESTS

### RELIEF REQUEST NUMBER: RI-13

#### **BASIS FOR RELIEF (Continued)**

Regarding sample expansion for failures, CNS Technical Specification Snubber Program is similar to the requirements of Subsection IWF of Section XI such that for each snubber which does not meet the functional test criteria, an additional 10% of that type of snubber shall be functionally tested.

It is CNS's position that the snubber visual examination and testing programs of Technical Specification 3.6.H/4.6.H meet the intent of the program required by ASME Section XI, Subsection IWF. No commensurate increase in plant safety with cost benefit will be realized by imposing both inspection programs on the Code Class snubbers at CNS.

Based on the above, CNS requests relief from the ASME Section XI requirements for visual examination and functional testing of Code Class snubbers.

#### **PROPOSED ALTERNATIVES:**

CNS will perform visual examinations of Code Class snubbers in accordance with the latest approved revision of the Station Technical Specifications in lieu of the requirements of IWF-5000.

CNS will perform functional testing of Code Class snubbers in accordance with the latest approved revision of the Plant Technical Specifications in lieu of the requirements of IWF-5200 and IWF-5300. The testing results will be tracked and reported per Station Technical Specification requirements.

The examination of Code Class snubber integral attachments will be performed in accordance with IWB/IWC/IWD-2500.

#### **APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

### RELIEF REQUEST NUMBER: RI-14

#### COMPONENT IDENTIFICATION

Code Class: 1, 2, and 3  
References: Tables IWB, IWC and IWD-2500-1  
Examination Category: B-K-1, C-C, and D-A  
Item Numbers: B10.10, B10.20, B10.30, B10.40, C3.10, C3.20, C3.30, C3.40, D1.10, D1.20, D1.30, and D1.40  
Description: Alternative Rules For the Selection and Examination of Class 1, 2, and 3 Integrally Welded Attachments.  
Component Numbers: All Integrally Welded Attachments in Examination Categories B-K-1, C-C, D-A, and D-B.

#### CODE REQUIREMENT

Table IWB-2500-1, Category B-K-1 requires a volumetric or surface examination as applicable of integrally welded attachments exceeding 5/8" design thickness.

Table IWC 2500-1, Category C-C requires a surface examination of all integrally welded attachments exceeding 3/4" design thickness.

Table IWD 2500-1, Category D-A and D-B a surface examination of all integrally welded attachments corresponding to those component supports selected by IWF-2510(b).

#### BASIS FOR RELIEF

Specific relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety. Code Case N-509, "Alternative Rules for the Selection and Examination of Integrally Welded Attachments, Section XI, Division 1", provides an alternative to the Tables of IWB/C/D-2500-1 for integrally welded attachments. The alternative requires a surface examination of 10% of the integrally welded attachments associated with the component supports selected for examination under IWF-2510. In addition, an examination is required whenever component support member deformation is identified. This Code Case recognizes the results of over 20 years of inservice inspections and the considerable attention that component supports have received through NRC bulletins.

#### PROPOSED ALTERNATE POSITIONS

In lieu of performing the Code required examinations, CNS proposes to examine integrally welded attachments in accordance with Code Case N-509 requirements.

#### APPLICABLE TIME PERIOD

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-15

### COMPONENT IDENTIFICATION

Code Class: 1  
References: IWB-2500  
Table IWB-2500-1  
Examination Category: B-O  
Item Number: B14.10  
Description: Examination of Peripheral Control Rod Drive (CRD) Housing Welds  
Component Numbers: Applicable Control Rod Drive Housing Welds

### CODE REQUIREMENT

IWB-2500 states that components shall be examined and tested as specified in Table IWB-2500-1.

Table IWB-2500-1, Category B-O requires a surface examination to be performed on 10% of the peripheral CRD housing welds.

### BASIS FOR RELIEF

There are thirty six CRD housings on the periphery. Each housing has an upper and lower weld. A surface examination of 10% of these welds would require the welds in four housings to be examined. The upper CRD housing welds are located inside the reactor vessel skirt. The twelve inch diameter hole in the reactor vessel support skirt is too small to permit access for a surface examination. The lower CRD housing welds are partially accessible, however the adjacent CRD housings prevent surface examination of approximately 50% of the weld.

### PROPOSED ALTERNATE POSITIONS

In lieu of performing the Code required examinations, CNS proposes to examine 50% of eight peripheral CRD lower housing welds during the inspection interval and visually examine (VT-2) the remaining CRD housing welds (upper and lower) in conjunction with the Class 1 system leakage test after each refueling outage.

### APPLICABLE TIME PERIOD

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-16

### COMPONENT IDENTIFICATION

Code Class: 1  
References: IWB-2500  
Table IWB-2500-1  
Examination Category: B-G-1  
Item Number: B6.10  
Description: Use of the Examination Requirements, Examination Method, and Acceptance Standard of the 1989 Addenda of ASME Section XI for Reactor Vessel Closure Head Nuts.  
Component Numbers: All reactor vessel closure head nuts

### CODE REQUIREMENT

IWB-2500 states that components shall be examined and tested as specified in Table IWB-2500-1.

Table IWB-2500-1 requires a surface examination to be performed on reactor vessel closure head nuts.

### BASIS FOR RELIEF

Table IWB-2500-1 of the 1989 Edition of ASME Section XI requires a surface examination to be performed on the reactor vessel closure head nuts. However, Table IWB-2500-1 does not provide the corresponding "Examination Requirements/Figure Number" and "Acceptance Standard". These provisions were still in the course of preparation.

Provisions for the "Examination Requirements/Figure Number" and "Acceptance Standard" for the reactor vessel closure head nuts were later incorporated in the 1989 Addenda of ASME Section XI. This Addenda also changed the examination method to a VT-1 visual examination.

It would be impracticable to follow the incomplete examination requirements for the reactor vessel closure head nuts delineated in the 1989 Edition of ASME Section XI, when the 1989 Addenda has incorporated the complete examination requirements.

Based on the above, CNS requests relief from the requirements specified in Table IWB-2500-1 of the 1989 Edition of ASME Section XI for reactor vessel closure head nuts.

**INSERVICE INSPECTION RELIEF REQUESTS**

**RELIEF REQUEST NUMBER: RI-16**

**PROPOSED ALTERNATE POSITIONS**

As an alternate examination, CNS will perform a VT-1 visual examination of the surface of all reactor closure head nuts, utilizing the acceptance criteria of IWB-3517, as delineated in the 1989 Addenda to ASME Section XI.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.



## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-17

### COMPONENT IDENTIFICATION

Code Class: 1 and 2  
References: IWB and IWC-2500  
Tables IWB and IWC-2500-1  
Examination Category: B-K-1 and C-C  
Item Numbers: B10.10, B10.20, B10.30, B10.40, C3.10, C3.20, C3.30, C3.40  
Description: Integrally Welded Shear Lugs  
Component Numbers: FWB-BK1-8, FWC-BK1-8, MSA-BK1-6, PSA-BK1-19, RR-BK1-4A,  
RHB-BK1-16, RHA-CE1-2, RSA-CC-25, SDS-CE1-21

### CODE REQUIREMENT

IWB-2500 states that components shall be examined and tested as specified in Table IWB-2500-1.

Table IWB-2500-1, Category B-K-1 requires a volumetric or surface examination as applicable of integrally welded attachments exceeding 5/8" design thickness.

IWC-2500 states that components shall be examined and tested as specified in Table IWB-2500-1.

Table IWC 2500-1, Category C-C requires a surface examination of all integrally welded attachments exceeding 3/4" design thickness.

### BASIS FOR RELIEF

Specific relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety.

Certain of the integrally welded attachments on class 1 and 2 pipe supports are shear lugs adjacent to a pipe clamp or restraint. The shear lugs on horizontal piping runs prevent movement along the axis of the pipe. The shear lugs on vertical piping runs transfer load from the pipe to the support in the downward direction. Shear lugs are typically welded on the two sides orthogonal to the support by a groove plus a fillet weld as shown in Figure IWB-2500-15 or IWC-2500-5(a). Sometimes the shear lug is attached by a fillet all around as shown in Figure IWC-2500-5(b). In order to examine 100% of the surface for 1/2" on either side of the weld, the pipe clamp or restraint must be disassembled. The Code does not usually require a component to be disassembled solely for examination. Disassembly may require considerable time, the erection of an alternate support and, depending on the location, may result in significant exposure. Examining the accessible portions of the attachment weld without removing the clamp will cover approximately 80% of the required surface, will include the highest stressed regions of the attachment weld, and is sufficient to detect service induced flaws in the

**INSERVICE INSPECTION RELIEF REQUESTS**

attachment welds.

**RELIEF REQUEST NUMBER: RI-17**

**PROPOSED ALTERNATE POSITIONS**

In lieu of performing the Code required examinations, CNS proposes to examine integrally welded attachments in accordance with applicable Code requirements to the maximum extent practicable without removal of the clamp. The applicable NDE data record will describe in detail the extent of the limitation and will be available for review. If indications are detected adjacent to the intervening piping clamp, the clamp will be removed for further evaluate.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

## INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-18

### COMPONENT IDENTIFICATION

Code Class: 2  
References: IWC-2500  
Table IWC-2500-1  
Examination Category: C-C  
Item Numbers: C3.30  
Description: Integrally Welded Attachments to Pumps  
Component Numbers: Residual Heat Removal (RHR) Pumps 1A, 1B, 1C, and 1D

### CODE REQUIREMENT

IWC-2500 states that components shall be examined and tested as specified in Table IWB-2500-1.

Table IWC-2500-1 requires a surface examination be performed on pump integral attachment welds defined by the areas required in Figure IWC-2500-5.

### BASIS FOR RELIEF

Specific relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety.

Each RHR pump has an integrally welded attachment connecting the pump to the pump baseplate located on the underside of the pump as shown on Figure RI-18.1. This weld is completely inaccessible and examination is not possible.

### PROPOSED ALTERNATE EXAMINATION

As an alternate examination, CNS will perform a VT-2 visual examination of the applicable pump and baseplate in conjunction with the Class 2 system pressure test required by Category C-H.

### APPLICABLE TIME PERIOD

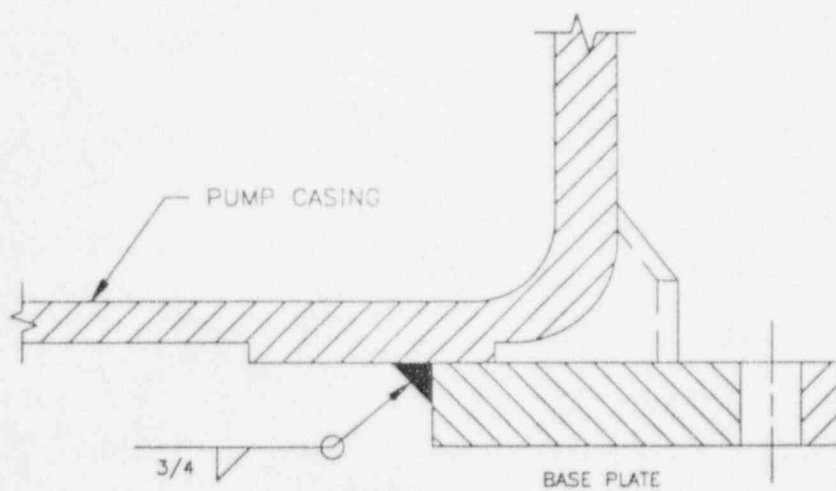
Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-18

FIGURE RI-18.1

RESIDUAL HEAT REMOVAL PUMP INTEGRAL ATTACHMENT



Program

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### PRESSURE TESTING

System Pressure tests shall be conducted in accordance with the rules of ASME Section XI to the maximum extent practicable. Where such impracticalities exist, relief has been requested and alternative test requirements have been proposed. Relief requests are outlined in Section 10. Pressure tests are implemented in accordance with CNS administrative procedures.

System pressure tests of Class 1, 2, and 3 systems will be performed as specified in the Pressure Test Summary Tables on the following pages.

System Pressure Testing Summary Table

System	Class	Exam Category	Item No.	Test Type	Freq /Mo	P&ID Sheet#	Relief Request	Technical Positions
NSSS (Leakage)	1	B-E B-P	B15.10 B15.50 B15.60 B15.70	IWB-5221	Refuel Outage	2026, 2027, 2038, 2039, 2040, 2041, 2042-1, 2043, 2044 2045-1, 2045-2	PR-01, PR-02, PR-03, PR-04	PT-04, PT-05
	2	C-H	C7.30 C7.70	IWC-5221				
NSSS (Hydro)	1	B-E  B-P	B4.10 B4.11 B4.12 B4.13 B15.11 B15.51 B15.61 B15.71	IWB-5222	120	2026, 2027, 2038, 2039, 2040, 2041, 2042-1, 2043, 2044 2045-1, 2045-2	PR-01 PR-03, PR-04, PR-07	PT-01, PT-04, PT-05
	2	C-H	C7.40 C7.80	IWC-5222				
CS LOOP A	2	C-H	C7.30 C7.40 C7.50 C7.60 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2045-1	PR-01, PR-03, PR-07	PT-01, PT-02, PT-03, PT-04, PT-05



System Pressure Testing Summary Table

System	Class	Exam Category	Item No.	Test Type	Freq /Mo	P&ID Sheet#	Relief Request	Technical Positions
CS LOOP B	2	C-H	C7.30 C7.40 C7.50 C7.60 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2045-1	PR-01, PR-03, PR-07	PT-01, PT-02, PT-03, PT-04, PT-05
HPCI	2	C-H	C7.30 C7.40 C7.50 C7.60 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2044	PR-01, PR-03, PR-07	PT-01, PT-02, PT-03, PT-04, PT-05
	3	D-A	D1.10	IWD-5223 IWD-5222				
REC	2 3	C-H D-A	C7.30 C7.40 D1.10 C7.70 C7.80	IWC-5221 IWC-5222 IWD-5222 IWD-5223	40/120	2031-1 2031-2 2036-1	PR-01, PR-03, PR-05, PR-07	PT-03, PT-04, PT-05
RCIC	2	C-H	C7.30 C7.40 C7.50 C7.60 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2041 2043	PR-01, PR-03, PR-07	PT-01, PT-02, PT-03, PT-04, PT-05

System Pressure Testing Summary Table

System	Class	Exam Category	Item No.	Test Type	Freq /Mo	P&ID Sheet#	Relief Request	Technical Positions
RHR LOOP A	2	C-H	C2.33 C7.10 C7.20 C7.30 C7.40 C7.50 C7.60 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2040	PR-01, PR-03, PR-07	PT-01, PT-02, PT-03, PT-04, PT-05
RHR LOOP B	2	C-H	C2.33 C7.10 C7.20 C7.30 C7.40 C7.50 C7.60 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2040	PR-01, PR-03, PR-07	PT-01, PT-02, PT-03, PT-04, PT-05
NBI	3	D-A	D1.10	IWD-5222 IWD-5223	40/120	2026, 2027, 2041	PR-01, PR-03, PR-07	PT-03, PT-04, PT-05
SW LOOP A	3	D-A	D1.10	IWD-5222 IWD-5223	40/120	2006-1, 2006-2, 2006-3, 2006-4, 2036-1, 2077	PR-01, PR-03, PR-06, PR-07	PT-03, PT-04, PT-05
SW LOOP B	3	D-A	D1.10	IWD-5222 IWD-5223	40/120	2006-1, 2006-2, 2006-3, 2006-4, 2036-1, 2077	PR-01, PR-03, PR-06, PR-07	PT-03, PT-04, PT-05
MSRV DISCHARGE	3	D-A	D1.10	IWD-5222 IWD-5223	40/120	2028	PR-08	PT-05

System Pressure Testing Summary Table

System	Class	Exam Category	Item No.	Test Type	Freq /Mo	P&ID Sheet#	Relief Request	Technical Positions
TIP	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2083	PR-05	PT-05
SERVICE AIR	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2010-3	PR-05	PT-05
H2O2	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2022	PR-05	PT-05
DEMIN WATER	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2027	PR-05	PT-05
DRAINS	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2028	PR-05	PT-05
REACTOR RECIRC.	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2027	PR-05	PT-05
INST AIR	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2010-2	PR-05	PT-05

System Pressure Testing Summary Table

System	Class	Exam Category	Item No.	Test Type	Freq /Mo	P&ID Sheet#	Relief Request	Technical Positions
PCC, NI & SBNI	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2022, 2084	PR-05	PT-05
RPV INST	2	C-H	C7.30 C7.40 C7.70 C7.80	IWC-5221 IWC-5222	40/120	2026	PR-05	PT-05

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SYSTEM PRESSURE TESTING  
TECHNICAL APPROACH AND POSITION INDEX/SUMMARIES

Position	Rev.	Summary
PT-01	0	Adoption of Code Case N-498-1 for Class 1 and 2 hydrostatic pressure testing.
PT-02	0	Hydrostatic and operational pressure testing of open ended piping.
PT-03	0	Test temperature for hydrostatic testing of systems containing ferritic steel components.
PT-04	0	Valve seats as pressurization boundaries.
PT-05	0	Leakage through mechanical connections.

**TECHNICAL APPROACH AND POSITION NUMBER: PT-01**

**COMPONENT IDENTIFICATION**

Code Classes: 1 and 2  
References: Table IWB-2500-1  
Table IWC-2500-1  
Examination Categories: B-E, B-P, C-H  
Description: Adoption of Code Case N-498 for Class 1 and 2 Hydrostatic Pressure Tests.

**CODE REQUIREMENT**

Table IWB-2500-1 and Table IWC-2500-1 require that an elevated pressure hydrostatic test be performed once each inspection interval.

**POSITION**

CNS will adopt the alternative rules for testing presented in Cases of ASME Boiler and Pressure Vessel Code, Code Case N-498, "Alternative Rules for 10-Year Hydrostatic Pressure Testing for Class 1 and 2 Systems, Section XI, Division 1".

Code Case N-498 responds to an inquiry for alternative rules for the hydrostatic testing required each inspection interval by ASME Section XI. This response states that, in lieu of a hydrostatic test, a test may be performed at nominal operating pressure provided that the appropriate hold times are maintained and the boundary subject to pressurization includes all Class 1 components (or Class 2 components in a system).

CNS will utilize the pressure associated with 100% rated reactor power (1005 psig) as the nominal operating pressure for all Class 1 components. This pressure will also be utilized for Class 2 systems, or portions of systems, that normally function or may be required to function at reactor vessel pressure. These systems are considered to have a nominal operating pressure less than or equal to vessel nominal operating pressure and include the following:

- Low Pressure Coolant Injection, High Pressure Coolant Injection and Core Spray Injection piping, up to the second outboard isolation valves.
- Control Rod Drive Piping.

For all other Class 2 piping the pressure attained during system functional testing (for systems not required to operate during normal plant operation) or normal system operation (for systems required to operate during normal plant operation) will be used as the nominal operating pressure.



**TECHNICAL APPROACH AND POSITION NUMBER: PT-01**

**POSITION** (Continued)

In-plant instrumentation will be utilized whenever possible to provide documentation of pressurization during an examination. If no system pressure instrumentation is available, flow instrumentation may be utilized to show that the line was experiencing normal flow (and therefore normal pressure) during the visual examination. If no pressure or flow instrumentation is available, a pressure gauge will be added to the system during the test to verify pressurization.

When a system (or portion of a system) is not pressurized during a system functional test, or when a system can not be run long enough to meet the appropriate hold time, then a separate hydrostatic test will be performed on that system. This hydrostatic test will be conducted at a pressure not less than the nominal operating pressure experienced by the subject piping.

**TECHNICAL APPROACH AND POSITION NUMBER: PT-02**

**COMPONENT IDENTIFICATION**

Code Classes: 2 and 3  
References: IWA-5244  
IWC-5222  
IWD-5223  
Examination Categories: C-H and D-A  
Description: Hydrostatic and Operational Pressure Testing of Open Ended Piping.

**CODE REQUIREMENT**

The referenced sections of ASME Section XI require that open-ended (or buried, non-redundant, non-isolable) piping be tested by demonstrating adequate flow in the line during system operation.

**POSITION**

Article IWA-5000 provides no guidance in setting acceptance criteria for what can be considered "adequate flow". In lieu of any formal guidance provided by the Code, CNS has established the following acceptance criteria:

- For opened ended lines on systems that require Inservice Testing (IST) of pumps, adherence to IST acceptance criteria is considered as reasonable proof of adequate flow through the lines.
- For pump minimum flow lines, assurance that the pump discharge pressure does not equal the maximum total dynamic head capacity of the pump upon pump startup is considered as reasonable proof of adequate flow through the minimum flow lines (note that the minimum flow lines are only utilized for short durations when starting the pump).
- For lines in which the open end is accessible to visual examination while the system is in operation, visual evidence of flow discharging the line is considered as reasonable proof of adequate flow through the open ended line.

**TECHNICAL APPROACH AND POSITION NUMBER: PT-02**

**POSITION** (Continued)

- For the open ended portion of the HPCI and RCIC turbine steam exhaust lines, adequate flow will be demonstrated by not exceeding normal steam exhaust line pressures during system functional testing.
- For the open ended portion of the HPCI and RCIC exhaust drain pot discharge lines to the Torus, adequate flow will be demonstrated by the absence of a continuous high level alarm on the exhaust line drain pot after the valve is opened.

This acceptance criteria will be utilized in order to meet the requirements of IWA-5244(c), IWC-5222(d) and IWD-5223(d).

Proof of adequate flow is all that is required for testing these open ended lines and that no further visual examination is necessary. This is consistent with the requirements for buried piping, which is not subject to visual examination.

**TECHNICAL APPROACH AND POSITION NUMBER: PT-03**

**COMPONENT IDENTIFICATION**

Code Classes: 2 and 3  
References: IWC-5230(b)  
IWD-5230(a)  
Examination Categories: C-H and D-A  
Description: Test Temperature for Hydrostatic Testing of Systems Containing Ferritic Steel Components.

**CODE REQUIREMENT**

The referenced sections of ASME Section XI require that the system test temperature, during a system hydrostatic test in systems constructed of ferritic steel components for which fracture toughness requirements were not specified nor required in the construction of the components, shall be determined by the owner.

**POSITION**

Fracture toughness requirements were not specified (or required) for Class 2 or 3 components when CNS was constructed. Since fracture toughness requirements were not specified, a minimum test requirement of 60 °F has been established for hydrostatic testing of systems containing ferritic steel components.

The purpose of using a minimum test temperature is to ensure that the system is not highly stressed when the temperature is at or below the nil-ductility transition temperature (NDTT) of the metal. At this temperature, fracture will initiate with essentially no prior plastic deformation, causing a sudden catastrophic failure.

The NDTT of a metal is sensitive to a variety of parameters including carbon content, presence of other alloys, grain size, grain orientation, and heat treatment. These factors combine to make the choice of an "average nil-ductility transition temperature" difficult. In general, the NDTT point for ferritic materials is well below 32 °F.

The minimum temperature requirement that will be used is justified by the following:

- The minimum operating temperature of the Service Water system is 40 °F and no catastrophic failure has ever occurred. Other low temperature systems are operated above this temperature.
- Piping systems are designed to withstand stresses due to internal pressure, dead weight, and thermal growth during system operations as well as various dynamic loads, including earthquake and hydrodynamic loads. During a hydrostatic test the only stresses that the system experiences are due to dead weight and a pressure of 1.10 to 1.25 times design. The stresses developed in a piping system during a hydrostatic test do not approach the allowable stresses for the piping.

**TECHNICAL APPROACH AND POSITION NUMBER: PT-03**

**POSITION** (Continued)

- The measures required to heat the piping system or the pressurizing medium are prohibitive when one considers the length of some piping runs and the corresponding volume of pressurization medium required. Setting a minimum temperature higher than 60 °F with no basis represents a hardship in terms of testing.

**TECHNICAL APPROACH AND POSITION NUMBER: PT-04**

**COMPONENT IDENTIFICATION**

Code Classes: 1, 2, and 3  
References: IWA-5221  
IWA-5222  
IWA-5223  
IWA-5224  
Examination Categories: B-P, C-H, and D-A  
Description: Valve Seats as Pressurization Boundaries.

**CODE REQUIREMENT**

ASME Section XI requires that the pressurization boundary for operational pressure testing extend to the components containing pressurized reactor coolant under the plant mode of normal reactor startup (IWA-5221), components pressurized during a system functional test (IWA-5222), and components pressurized during normal plant operation (IWA-5223).

Hydrostatic test boundaries (IWA-5224) shall be defined by system boundaries in which the components have the same code classifications and are designed to the same pressure rating.

**POSITION**

CNS's position is that regardless of the type of pressure test performed (i.e. Operational or Hydrostatic), the pressurization boundary extends up to the valve seat of the valve utilized for isolation. For example, in order to hydrostatically test the Class 1 components, the valve that provides the Class break would be utilized as the isolation point. In this case the true pressurization boundary, and class break, is actually at the valve seat.

Any requirement to test beyond the valve seat is dependent only on whether or not the piping on the other side of the valve seat is ISI Class 1, 2, or 3.

The extension of the pressurization boundary during an operational test would require an abnormal valve line-up. Extending the boundary for a hydrostatic test would require the overpressurization of low pressure piping at systems that have a high/low pressure interface (such as RHR and Core Spray).

In order to simplify preparation of the walkdown checklists, CNS will perform a VT-2 visual examination of the entire boundary valve body and bonnet (during pressurization up to the valve seat).



**TECHNICAL APPROACH AND POSITION NUMBER: PT-05**

**COMPONENT IDENTIFICATION**

Code Classes: 1, 2, and 3  
References: IWA-5221  
IWA-5222  
IWA-5223  
IWA-5224  
Examination Categories: B-P, C-H, and D-A  
Description: Leakage through mechanical connections.

**CODE REQUIREMENT**

ASME Section XI requires that the pressurization boundary for operational pressure testing extend to the components containing pressurized reactor coolant under the plant mode of normal reactor startup (IWA-5221), components pressurized during a system functional test (IWA-5222), and components pressurized during normal plant operation (IWA-5223).

Hydrostatic test boundaries (IWA-5224) shall be defined by system boundaries in which the components have the same code classifications and are designed to the same pressure rating.

**POSITION**

CNS's position is that leakage through mechanical connections such as valve packing or gaskets is not considered a failure of the pressure test provide the test pressure is maintained for the duration of the test. Leakage through mechanical connections will be noted and evaluated in accordance with plant administrative procedures. Excessive leakage will be repaired, however, a subsequent pressure test is not required.

Similarly, leakage past a valve seat is not considered a failure. If the valve is required to pass a seat leakage test, leakage in excess of the allowable limit will be evaluated and appropriate corrective action taken. A subsequent seat leakage test may be required, but another pressure test is not required.

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**SYSTEM PRESSURE TESTING RELIEF REQUESTS**

Relief Request	Rev.	Summary
PR-01	0	Alternate Testing for ISI Class 1, 2, and 3 repaired/replaced components.
PR-02	0	Definition of pressure retaining boundary for system leakage test.
PR-03	0	Alternate corrective measures for bolted connections.
PR-04	0	Exemption from pressure testing Reactor Vessel Head Flange Seal Leak Detection System.
PR-05	0	Alternate test for containment penetration piping.
PR-06	0	Alternate pressure testing for buried components.
PR-07	0	Pressure retaining components within each system boundary subject to hydrostatic pressure testing.
PR-08	0	Alternate Testing for MSR/V Discharge Piping.

**RELIEF REQUEST NUMBER: PR-01**

**COMPONENT IDENTIFICATION**

Code Classes: 1, 2, and 3  
References: IWA-4700(a)  
IWA-4700(b)  
IWA-5214  
Examination Categories: B-P, C-H, and D-A  
Item Numbers: B15.11, B15.51, B15.61, B15.71, C7.20, C7.40, C7.60, C7.80,  
and D1.10  
Description: Alternate Testing for ISI Class 1, 2 and 3 Repaired or Replaced  
Components.  
Component Numbers: All Class 1, 2, and 3 pressure retaining components subject to  
Hydrostatic Testing per IWA-4700.

**CODE REQUIREMENT**

IWA-4700(a) requires an elevated pressure hydrostatic test to be performed after welded repair or replacement of classed components, except those exempted by IWA-4700(b).

**BASIS FOR RELIEF**

Elevated pressure hydrostatic tests are difficult to perform and often represent a true hardship. Some of the difficulties associated with elevated pressure testing include the following:

- Hydrostatic testing often requires complicated or abnormal valve line-ups in order to properly vent, fill and isolate the component requiring testing.
- Relief valves with setpoints lower than the hydrostatic test pressure must be gagged or removed and blind flanged. This process requires the draining and refilling of the system.
- Valves that are not normally used for isolation (e.g., normally open pump discharge valves) are often required to provide pressure isolation for an elevated pressure hydrostatic test. These valves frequently require time consuming seat maintenance in order to allow for pressurization.
- The radiation exposure required to perform a hydrostatic pressure test is high (in comparison to operational pressure testing) due to the large amount of time required to prepare the volume for testing (i.e. installing relief valve gags, performing appropriate valve line-ups, etc).

**RELIEF REQUEST NUMBER: PR-01**

**BASIS FOR RELIEF** (Continued)

The difficulties encountered in performing a hydrostatic pressure test are prohibitive when weighed against the benefits. Industry experience, which is corroborated by CNS's experience, shows that most through wall leakage is detected during system operation as opposed to during elevated pressure tests such as ten-year system hydrostatic tests.

Little benefit is gained from the added challenge to the piping system provided by an elevated pressure hydrostatic test (when compared to an operational test), especially when one considers that the piping stress experienced during a hydrostatic test does not include the quite significant stresses affiliated with the thermal growth and dynamic loading associated with design basis events. As an industry, it has been historically documented that leakage will occur and be detected at nominal operating pressures of a system. Elevating pressure 10-25% has no meaningful impact.

Use of hydrostatic test deferrals, which are presently allowed per Code Case N-416 for Class 2 components, is not a satisfactory solution because the required test must be eventually performed, and it is the performance of the test itself that is burdensome.

These arguments are also supported by NRC endorsement of Code Case N-498, "Alternative Rules for 10 Year Hydrostatic Pressure Testing for Class 1 and 2 Systems, Section XI, Division 1". This relief request is a logical extension of that Code Case.

Based on the above, CNS requests relief from the ASME Section XI requirements for performing elevated pressure hydrostatic tests on Class 1, 2, and 3 repaired/replaced components.

**PROPOSED ALTERNATE PROVISIONS**

CNS proposes to perform pressure testing on Class 1, 2, and 3 repaired/replaced components in accordance with the requirements of ASME Section XI Code Case N-416-1. This Code Case offers an acceptable alternative to Section XI requirements. In addition to the NDE requirements of the Code Case, CNS will also perform a surface examination of the root pass layer of a repair or replacement weld on Class 3 components in accordance with the NDE requirements of ASME Section III.

With the pressures currently required by Section XI, elevated pressure hydrostatic tests do not offer a commensurate increase in safety with cost benefit and places undo burden upon a licensee to perform these tests.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

**RELIEF REQUEST NUMBER: PR-02**

**COMPONENT IDENTIFICATION**

Code Class: 1  
Reference: Table IWB-2500-1, Note 1  
Examination Category: B-P  
Item Number: B15.10  
Description: Definition of Pressure Retaining Boundary for System Leakage Test.  
Component Numbers: All components subject to pressurization during a system leakage test.

**CODE REQUIREMENT**

Table IWB-2500-1, Note 1 states that the pressure retaining boundary during the system leakage test shall correspond to the reactor coolant system boundary, with all valves in their normal position required for normal reactor operation startup. The VT-2 visual examination shall, however, extend to and include the second closed valve at the boundary extremity.

**BASIS FOR RELIEF**

It is impracticable to perform a system leakage test during actual reactor startup. The high dose rates associated with reactor operation, the temperature levels in the drywell, and the large amount of piping and components to be examined makes this examination a hardship. In lieu of a system leakage test during reactor startup a hydrostatic test is performed at the pressure associated with 100% rated reactor power.

Section XI states that the boundary for the system leakage test shall be the reactor coolant pressure boundary with all valves in the position required during reactor startup. It is impracticable to extend the boundary this far during pressure testing. This would require extensive valve line-ups in non-safety related (and non-code classed) systems such as Main Steam, Feedwater, and Reactor Water Cleanup. None of these systems are isolated from the reactor coolant pressure boundary during startup.

In addition to the extensive line-ups required to perform a system leakage test of this magnitude, special measures would be required to temporarily support steam lines due to the excess weight of the water.

In summary, it is unsafe to perform a VT-2 visual examination during actual reactor startup during reactor operation and it is impracticable to perform a system leakage test of the reactor coolant pressure boundary with all valves in the position required for normal reactor startup.

**RELIEF REQUEST NUMBER: PR-02**

**BASIS FOR RELIEF** (Continued)

Based on the above, CNS requests relief from the ASME Section XI requirements for performing a system leakage test using the boundaries stated in Note 1 of Table IWB-2500-1.

**PROPOSED ALTERNATE PROVISIONS**

A VT-2 visual examination will be performed during the system leakage test at a pressure not less than that associated with 100% rated reactor power. The pressurization boundaries for this test will extend, as a minimum, to the first normally closed valve. The VT-2 visual examination will extend to the Class 1 boundary.

In addition, a system hydrostatic test will be performed once per interval at a pressure not less than that associated with 100% rated reactor power. The pressurization boundary and the VT-2 visual examination for this test will extend to the Class 1 boundary.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.



**RELIEF REQUEST NUMBER: PK-03**

**COMPONENT IDENTIFICATION**

Code Classes: 1, 2, and 3  
References: IWA-5250  
Examination Categories: B-P, C-H, and D-A  
Item Numbers: B15.10 through B15.71, C7.10 through C7.80, and D1.10  
Description: Alternate corrective measures for bolted connections.  
Component Numbers: All Class 1, 2, and Class 3 pressure retaining components subject to system pressure testing.

**CODE REQUIREMENT**

IWA-5250(a)(2) requires; if leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion, and evaluated in accordance with IWA-3100.

**BASIS FOR RELIEF**

In the event of a bolted connection leak detected during the conduct of a system pressure test current ASME Section XI Code requirements specify that all bolting must be removed for the purpose of a VT-3 visual examination and evaluation. This would require placing the component or piping system out of service which could result in a plant shutdown, a delay of plant startup or, for continued operation, a reduction in plant safety. Additionally, removal of all bolting for examination serves no practicable purpose if the bolting is fabricated of a material which is not susceptible to corrosion due to contact with the leaking medium. The following proposed alternative provides an acceptable level of quality and safety equivalent to that provided by the applicable Code requirements.

**PROPOSED ALTERNATE PROVISIONS**

If leakage occurs at a bolted connection during the performance of a system pressure test, an engineering evaluation shall be performed to determine if the associated bolting is susceptible to corrosion which could result in further degradation and increased leakage. This evaluation shall address at a minimum:

- 1) type and location of leakage
- 2) historical leakage
- 3) bolting material and its resistance to corrosion by the leaking medium
- 4) visual evidence of corrosion
- 5) history of bolting material degradation due to corrosion in a similar environment

If the engineering evaluation indicates that the bolting material is not susceptible to corrosion, then bolt removal for visual examination and further evaluation shall not be required. However,

**RELIEF REQUEST NUMBER: PR-03**

**PROPOSED ALTERNATE PROVISIONS**

termination of leakage shall be addressed at the next available opportunity.

If it is determined by the engineering evaluation that a VT-3 examination is required, but the leakage is identified when the bolted connection is in service, an evaluation may be performed to justify deferral of bolt removal until the next time the affected component or applicable portion of the piping system is removed from service. However, the removal of the bolts for VT-3 visual examination and evaluation will not be deferred beyond the next refueling outage.

If the evaluation determines the need for a VT-3 visual examination of the bolting, one bolt closest to the source of leakage shall be removed, and in lieu of performing the Code required VT-3 visual examination the bolting will be VT-1 visually examined per IWA-2211(a) and evaluated in accordance IWB-3517.1. If the removed bolt has evidence of degradation, all remaining bolting shall be removed and VT-1 examined and evaluated accordingly. All examinations and evaluations shall be traceable to the VT-2 documentation originally detecting the leakage and applicable records will be maintained per IWA-6000.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

**RELIEF REQUEST NUMBER: PR-04**

**COMPONENT IDENTIFICATION**

Code Class: 1  
References: IWB-5210(a)(1)  
IWB-5210(a)(2)  
Table IWB-2500-1  
Examination Category: B-P  
Item Numbers: B15.50, B15.51  
Description: Exemption From Pressure Testing Reactor Vessel Head Flange Seal  
Leak Detection System.  
Component Numbers: Line No. 1-MS-152-1"

**CODE REQUIREMENTS**

IWB-5210(a)(1) requires that pressure retaining components following opening and closing within each system boundary be subjected to a system leakage test after pressurization to nominal operating pressure.

IWB-5210(a)(2) requires the pressure retaining components within each system boundary to be subjected to a system hydrostatic pressure test.

**BASIS FOR RELIEF**

The Reactor Vessel Head Flange Leak Detection Line is separated from the reactor pressure boundary by one passive membrane, a silver plated O-ring located on the vessel flange. A second O-ring is located on the opposite side of the tap in the vessel flange (See Figure PR-04.1). This line is required during plant operation in order to indicate failure of the inner flange seal O-ring. Failure of the O-ring would result in the annunciation of a High Level Alarm in the control room. Upon receipt of this alarm, control room operators would quantify the leakage rate from the O-ring and then isolate the leak detection line from the drywell sump. Failure of the inner O-ring is the only condition under which this line is pressurized.

The configuration of this system precludes hydrostatic testing while the vessel head is removed because the odd configuration of the vessel tap coupled with the high test pressure requirement (1000 psig minimum), prevents the tap in the flange from being temporarily plugged. Adequate testing cannot be performed when the head is installed because the seal prevents complete filling of the line, which has no available vent.

**RELIEF REQUEST NUMBER: PR-04**

**BASIS FOR RELIEF (continued.)**

Operational testing of this line is precluded because the line will only be pressurized in the event of a failure of the inner O-ring. It is impracticable to purposely fail the inner O-ring in order to perform a pressure test.

Based on the above, CNS requests relief from the ASME Section XI requirements for static and operational pressure testing of the Reactor Vessel Head Flange Seal Leak Detection System.

**PROPOSED ALTERNATE EXAMINATION**

A VT-2 visual examination will be performed on the line when the reactor cavity is flooded during a refueling outage. The hydrostatic head developed due to the water above the vessel flange during refueling outages will allow for the detection of any gross indications in the line. This examination will be performed with the frequency specified by table IWB-2500-1 for an IWB-5221 test (once each inspection period).

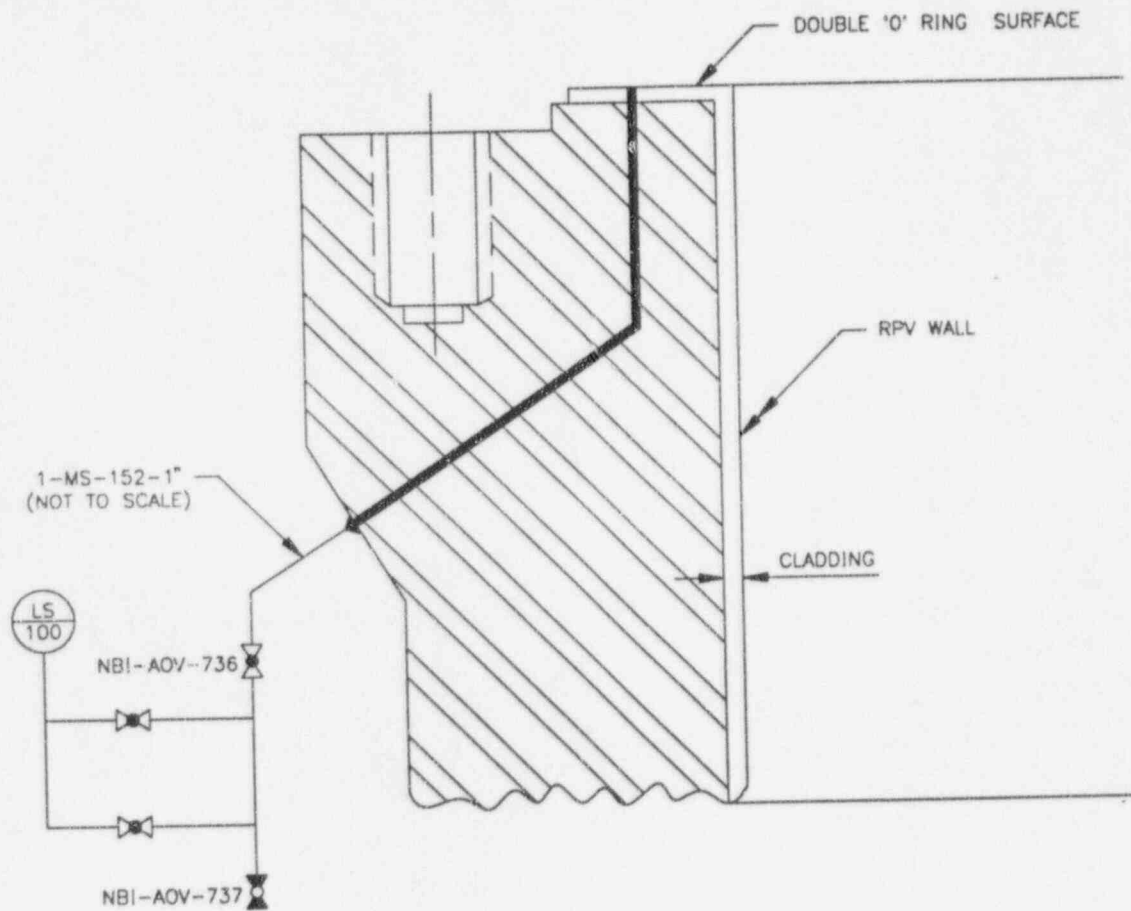
**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program.

RELIEF REQUEST NUMBER: PR-04

FIGURE PR-04.1

HEAD FLANGE SEAL LEAK DETECTION SCHEMATIC



**RELIEF REQUEST NUMBER: PR-05**

**COMPONENT IDENTIFICATION**

Code Classes: 2  
References: IWA-5000, IWC-5000  
IWA-5110, IWC-5210  
Examination Categories: C-H  
Item Numbers: C7.30 through C7.80  
Description: Alternate testing for containment penetration piping.  
Component Numbers: Class 2 pressure retaining components penetrating containment connected to nonsafety-related piping.

**CODE REQUIREMENT**

IWA-5210 requires the pressure retaining components within each system boundary to be subjected to a system pressure test.

IWC-5210(a) requires pressure retaining components to be tested at the frequency stated in, and visually examined by the methods specified in Table IWC-2500-1.

**BASIS FOR RELIEF**

The portion of piping that penetrates containment and the associated inboard and outboard containment isolation valves are required to be constructed in accordance with Class 1 or Class 2 design requirements. In instances where the piping penetration is for a nonsafety-related system, the sole function of the penetration piping and associated valves is to provide containment isolation and maintain containment integrity in the event of a failure of the attached nonsafety-related piping. In all cases during normal plant operation, the isolation valves associated with these penetrations are maintained in the locked closed position, are administratively closed (controlled procedurally), or they close automatically upon receipt of a containment isolation signal or on loss of flow. The integrity of these penetrations is verified by 10CFR50, Appendix J, leakage testing.

Additionally, Code Case N-522, "Pressure Testing of Containment Piping Section XI, Division 1," has determined that pressure testing of these containment penetrations per 10CFR50, Appendix J, is an acceptable alternative to the requirements of Table IWC-2500-1, Category C-H.

Performing system pressure tests each inspection period and a hydrostatic test each inspection interval per Section XI, Table IWC-2500-1, Category C-H, is redundant to Appendix J testing. Code pressure testing provides no commensurate increase in quality or safety with cost benefit. Pressure testing of piping in nonsafety-related systems penetrating containment pursuant to the requirements of 10CFR50, Appendix J, in lieu of Section XI pressure testing requirements provides an acceptable level of quality and safety.



**RELIEF REQUEST NUMBER: PR-05**

**PROPOSED ALTERNATE PROVISIONS**

As an alternative to Section XI pressure testing requirements for piping penetrating containment attached to a nonsafety-related system, CNS will adopt the provisions of ASME Section XI Code Case N-522.

Pressure testing of the below listed penetrations shall be performed in accordance with the requirements and frequency specified in 10CFR50, Appendix J, in lieu of the additional requirements specified in Table IWC-2500-1, Category C-H.

CLASS 2 PORTIONS OF SYSTEMS AT CONTAINMENT PENETRATIONS				
SYSTEM	DRAWING	PENETRATION #	CLASS	FUNCTION
INST AIR	2010-2	22, 30E, 30F, 33E, 33F	2	NNS
PCC, NI & SBNI	2022 2084	2, 25, 26, 45C, 51E, 51F, 203A, 203B, 205, 220	2	NNS
RPV INST	2026	40A, 40B, 40C, 40D, 47(All)	2	NNS
REACTOR RECIRC.	2027	29E, 209A, 209B, 209C, 209D, 213A, 213B, 215, 229A, 229B, 229C, 229D, 229E, 229F, 229G, 229H, 229J, 229K, 229M,	2	NNS
DRAINS	2028	18, 19, 43, 44	2	NNS
DEMIN. WATER	2029	20	2	NNS
H202	2022	36, 203A, 203B	2	NNS
REC	2031-1 2031-2	23, 24	2	NNS
SERVICE AIR	2010-3	21	2	NNS
TIP	2083	35A, 35B, 35C, 35D, 35E	2	NNS

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

**RELIEF REQUEST NUMBER: PR-06**

**COMPONENT IDENTIFICATION**

Code Classes: 3  
References: IWA-5244(b)  
Examination Categories: D-A  
Item Numbers: D1.10  
Description: Alternate Pressure Testing for Buried Components.  
Component Numbers: Buried Class 3 pressure retaining components subject to system pressure testing in the Service Water System.

**CODE REQUIREMENT**

IWA-5244(b) states that in redundant systems where the buried components are nonisolable, the visual examination VT-2 shall consist of a test which determines the change in flow between the ends of the buried pipe.

**BASIS FOR RELIEF**

For the buried portion of the service water critical supply headers, isolation valves are installed in this redundant system. Buried components in redundant systems that are isolable are not addressed in IWA-5244. However, leakage testing of the buried piping is impracticable because the isolation valves located in the service water building and the control building that isolate the buried piping are large butterfly valves which are not suitable for performing a pressure isolation function. Each critical header supplies two RHRSW booster pumps, one REC heat exchanger and one diesel generator. A butterfly isolation valve is installed in the main header in the service water building and in each of these branch supply lines in the control building. However, since these valves are not designed to be leak tight, these five butterfly valves would provide multiple leakage paths. Leakage testing of this buried piping and determining the rate of pressure loss would require extensive valve seat maintenance and would not provide conclusive test results.

Current Code rules allow determining a change in flow between the ends of the buried component (IWA-5244(a) and -5244(b)). Flow instrumentation is installed in the service water lines in the control building. However, no flow instrumentation is installed in the system upstream of the buried piping. Accurate flow measurements using temporary flow instrumentation (e.g., ultrasonic flow meters) are not possible due to insufficient runs of straight pipe between the pump discharge and the buried piping. Therefore, direct measurement of the change in flow between the ends of the buried piping is not practicable.

**RELIEF REQUEST NUMBER: PR-06**

**BASIS FOR RELIEF (Continued.)**

The installation of permanent flow instruments would require significant system modifications which would be burdensome. The cost of these modifications, when weighed against the benefits, are not justifiable. The following proposed alternative would provide reasonable assurance that any significant leakage from the buried piping will be detected.

**PROPOSED ALTERNATE PROVISIONS**

In lieu of performing a visual examination VT-2 in accordance with the requirements specified in IWA-5244, CNS shall utilize existing plant instrumentation for the determination of buried pipe integrity. Discharge pressure is indicated by pressure gauges provided at each individual pump (SW-PI-360 A,B,C,&D). Service water pumps A & C discharge to a common header, as do pumps B & D. Each header is provided with pressure indication prior to exiting the intake structure (SW-PI-383 A&B). When these headers resurface in the control building, pressure indication (SW-PI-384 A&B) and flow indication (SW-FI-385 A&B and SW-FI-364 A&B) are provided.

The integrity of the buried piping is verified during quarterly pump testing. Using the downstream flow instruments, flow rate is set at the fixed test reference value and documented in the test record. The pump discharge pressure is then measured and used to determine the head produced by the pump. Head and flow rate are interdependent variables which, together, define pump hydraulic performance. As the pump degrades, the developed head will decrease at the reference flow rate. However, due to the location of the flow rate instruments (downstream of the buried piping), a decrease in pump head during testing may also indicate side-stream leakage into the isolated non-critical header or through-wall leakage in the buried portion of the service water system piping. This is because the head developed by the pump decreases as flow rate increases. Significant through-wall leakage would be evident because the total flow rate would increase even though the downstream indicated flow rate is set at the reference value. Therefore, a satisfactory quarterly service water pump test also verifies the integrity of the buried system supply piping.

Should the pump test results fall in the required action range of the Code, then additional testing and evaluations will be performed to determine whether the unsatisfactory test results are due to side-stream leakage past butterfly isolation valves, degraded pump performance, or through-wall leakage.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

**RELIEF REQUEST NUMBER: PR-07**

**COMPONENT IDENTIFICATION**

Code Classes: 1, 2, and 3  
References: IWA-5000, IWB-5000,  
IWC-5000 and IWD-5000  
ASME Code Case N-498-1  
Examination Categories: B-P, C-H, and D-A  
Item Numbers: Various  
Description: All pressure retaining components within each system boundary to  
be subjected to a system hydrostatic pressure test.  
Component Numbers: Various

**CODE REQUIREMENT**

IWA-5211(d) requires the pressure retaining components within each system boundary to be subjected to a system hydrostatic pressure test.

**BASIS FOR RELIEF**

ASME Code Case N-498 currently provides an alternative for Class 1 and 2 system hydrostatic testing allowing use of a reduced pressure equal to system nominal operating pressure. Recently published Code Case N-498-1, while repeating these alternative pressure requirements for Class 1 and 2, also adopted and included rules for Class 3 systems. Also, Code Case N-498-1 clarified the intent of using installed plant instrumentation without the need for test gauging or imposing the requirements of IWA-5260 when performing these nominal operating pressure tests.

It is CNS's position that conducting system pressure tests on Class 1 and 2 systems consistent with the requirements of N-498-1, in conjunction with performing the applicable volumetric, surface, and visual examinations in accordance with the owners ISI Program, provides a level of quality and safety equivalent to, or greater than, that provided by the Code hydrostatic test pressure and instrumentation requirements.

CNS employs a very active erosion/corrosion monitoring and control program which periodically measures wall thickness in selected Class 3 piping and components. This program primarily focuses on those portions of piping which are most susceptible to erosion, microbiologically influenced corrosion (MIC) and other identified corrosion mechanisms which are inherent to the service water and like systems. The screening criteria for selection of piping and components to be chosen for "Thickness Examination" includes: (1) sections susceptible to wall thinning by erosion, (2) low flow sections and, (3) intermittent or no flow sections.

It is CNS's intention to select those portions of piping and components for examination most susceptible to erosion and corrosion thereby giving a conservative representation of overall pressure boundary integrity.

**RELIEF REQUEST NUMBER: PR-07**

**BASIS FOR RELIEF (Continued.)**

It is CNS's position that performing system pressure tests on Class 3 systems consistent with the requirements of N-498-1, together with augmented test programs (e.g. erosion/corrosion monitoring for piping determined to be most susceptible to erosion and corrosion), provides a level of quality and safety equivalent to, or greater than, that provided by the Code hydrostatic test pressure and instrumentation requirements.

**PROPOSED ALTERNATE PROVISIONS**

As an alternative to existing Section XI requirements, CNS will adopt the provisions of Code Case N-498-1.

In lieu of performing a hydrostatic pressure test at a pressure above nominal operating pressure or system pressure for which over pressure protection is required, as required by Table IWA-5210-1, Examination Categories B-P, C-H, D-A, D-B, and D-C, a system pressure test at nominal operating pressure and temperature shall be performed.

In lieu of instrumentation requirements specified in IWA-5260, existing plant instrumentation will be used per IWA-5212(b). Where gauging may be required and does not exist, the rules of IWA-5260 shall be used. For Class 3 Systems, CNS shall also continue to maintain and implement an erosion/corrosion monitoring program for piping determined to be most susceptible to erosion and corrosion, as previously described.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.



**RELIEF REQUEST NUMBER: PR-08**

**COMPONENT IDENTIFICATION**

Code Classes: 3  
References: IWA-5211, IWD-5222  
Examination Categories: D-A  
Item Numbers: D1.10  
Description: All pressure retaining components within each system boundary to be subjected to a system hydrostatic pressure test.  
Component Numbers: MSRV Discharge Piping

**CODE REQUIREMENT**

IWA-5211(d) requires the pressure retaining components within each system boundary to be subjected to a system hydrostatic pressure test.

IWD-5222(g) requires that for safety or relief valve piping which discharges into the suppression pool, a pneumatic test (at a pressure of 90% of the pipe submergence head of water) that demonstrates leakage integrity shall be performed in lieu of system hydrostatic test.

**BASIS FOR RELIEF**

These relief valves are currently actuated once each operating cycle commensurate with Reactor Vessel pressure  $\geq$  100 psig. Suppression Pool temperature and levels monitored during this test substantiate the integrity of the discharge piping by its ability to direct flow from the relief valve to the suppression pool.

The Code required 10 year pressure test of the discharge piping with a pneumatic test at a pressure of 90% of the pipe submergence head of water equates to an applied pressure of approximately 1.17 psig equivalent to the 3 feet of submerged piping.

This Code requirement has been removed from the 1994 Addenda of ASME Section XI 1992 Edition.

Current test parameters significantly exceed Code requirements in piping pressurization and frequency. Performance of the current Code required testing would not increase the margin of assurance for safety beyond current test parameters, and would only serve as a redundant inferior test requirement.



**RELIEF REQUEST NUMBER: PR-08**

**PROPOSED ALTERNATE PROVISIONS**

In lieu of performing a hydrostatic pressure test at a pressure of 90% of the pipe submergence head of water, as required by IWD-5222(g), CNS shall use existing plant surveillance tests of the operability of each Main Steam Relief Valve to demonstrate the integrity of the discharge piping.

**APPLICABLE TIME PERIOD**

Relief is requested for the third ten-year interval of the Inservice Inspection Program for CNS.

### 11.0 Augmented Inservice Inspection

Augmented Inservice Inspections (AISI) are not ASME Section XI Code requirements, but are 1) additional examination areas or 2) increased inspection frequencies, or combinations of both which are requested by the Nuclear Regulatory Commission, recommended in General Electric Company Service Information Letters, or added by management direction.

When examination components fall into the scheduled testing requirements of ISI and are also AISI requirements, then credit for both requirements may be taken by one examination (no double testing). The following types of Augmented Inservice Inspections are required at Cooper Nuclear Station. The TAB number corresponds to the tabbed pages that follow which contain information on the specific examination to be performed.

TAB	DESCRIPTION	REVISION DATE
11.1	Ultrasonic examination of the feedwater nozzle safe ends, bores, and inside blend radii, and visual inspection of the feedwater spargers per Table 2 and Section 4.3.2.4 of NUREG 0619. In lieu of the dye penetrant examination of feedwater nozzles per NUREG 0619, automated UT of the nozzles is performed.	July 95
11.2	Visual inspection of the Core Spray spargers and the Core Spray piping inside the RPV shall be conducted each refueling outage. (Reference: IE Bulletin No. 80-13.)	July 95
11.3	Ultrasonic examinations of the jet pump hold down beams. These examinations shall be performed once during the third ten year interval and may be deferred to the end of the interval. (Reference NUREG CR3052)	July 95
11.4	Ultrasonic examinations per Generic Letter (GL) 88-01 of BWR piping made of austenitic stainless steel. All accessible welds will be examined in accordance with CNS GL 88-01 commitments. Added requirements for weld crown conditioning for UT (future welds) per Generic Electric SIL No. 117R3.	July 95
11.5	Visual inspection of steam dryer channel welds during each inspection period (Reference General Electric SIL No. 474.)	July 95
11.6	Visual inspection of Jet Pump nozzles and mixer inlets each inspection period in conjunction with Jet Pump inspection. (Reference: General Electric SIL No. 465 S1.)	July 95

TAB	DESCRIPTION	REVISION DATE
11.7	Based on the results of previous examinations, an ultrasonic examination of the shroud support access hole covers will be performed once every five years, and a visual examination will be performed once each refueling outage. (Reference: General Electric SIL No. 462, Supplement 3)	July 95
11.8	Visual inspection of the Core Spray T-junction box welds inside the reactor vessel. (Reference: General Electric SIL No. 289, R1, S1)	July 95
11.9	Visual examination of the Reactor Recirculation (RR) pumps' shafts, pump covers, impeller/shaft attachment region (including bolts), and hydrostatic bearings (including baffle plate). (Reference: General Electric SIL No. 459 and RICSIL No. 038)	July 95
11.10	Visual examination of all accessible areas of the Intermediate Range Monitor (IRM) and Source Range Monitor (SRM) dry tubes the sixth refueling outage after replacement, and every third refueling outage thereafter. (Reference: General Electric SIL No. 409 R1)	July 95
11.11	Ultrasonic (UT) examination of all remaining old design creviced Inconel 600 Shroud Head Bolts (SHBs) each refueling outage. (Reference: General Electric SIL No. 433 S1)	July 95
11.12	Augmented Inservice Inspection (UT) requirements for the REC system required by CNS CR94-0485.	July 95
11.13	Visual (VT) examination of the Jet Pump Sensing Lines, Sensing Line Support Brackets and Adjusting Screws each inspection period in conjunction with scheduled ISI examinations. (Reference: General Electric SIL No. 420 and 574)	July 95
11.14	Visual examination (VT) of the Steam Separator, once per Inspection Interval as described by the CNS In vessel Visual Examination Procedure.	July 95
11.15	Ultrasonic Inspection (UT) of the Core Shroud per BWRVIP and GL 94-03. (Supersedes GE SIL No. 572 and RICSIL No. 68)	July 95
11.16	Inspection of Instrument Nozzle Safe Ends in conjunction with scheduled ISI examinations. (Reference: GE SIL No. 571)	July 95
11.17	Visual Inspection (VT) of the Top Guide. (Reference: GE SIL No. 554)	July 95
11.18	Visual Inspection (VT) of the Top Guide and Core Plate. (Reference: GE SIL No. 588 R1)	July 95

TAB	DESCRIPTION	REVISION DATE
11.19	Visual Inspection of Jet Pump Riser Brace (VT) each inspection period. (Reference: GE SIL No 551)	July 95
11.20	Visually inspect (VF-3) the Refueling Platform for structural integrity once every five years. (Reference: GE Recommendation)	July 95

11.1

**FEEDWATER NOZZLE EXAMINATIONS  
IN ACCORDANCE WITH U.S. NRC NUREG 0619**

- REFERENCES: 1. U.S. NRC NUREG 0619, BWR Feedwater Nozzle and Control Rod Drive Return Line Nozzle Cracking, published November, 1980.
2. Letter, G. R. Horn (NPPD) to U.S. NRC, dated January 22, 1991, subject: BWR Feedwater Nozzle Inspections, Cooper Nuclear Station.
  3. Letter, G. R. Horn (NPPD) to U.S. NRC, dated August 14, 1991, subject: BWR Feedwater Nozzle Inspections, Cooper Nuclear Station.
  4. Letter, P. W. O'Connor (U.S. NRC) to G. R. Horn (NPPD), dated October 2, 1991, subject: Review of NPPD Request Regarding Feedwater Nozzle Examination Methods.
  5. Letters, G. R. Horn (NPPD) to U.S. NRC, dated December 5 & 20, 1991, Fracture Mechanics Evaluation of Flaw Indication.
  6. Letter, USNRC to G. R. Horn, dated February 13, 1992, subject: Cooper Nuclear Station - Staff Acceptance of Fracture Mechanics Evaluation of Flaw Indications.

In 1980, as a result of previous commitment to Reference 1, CNS removed the existing stainless steel cladding from the reactor pressure vessel (RPV) feedwater nozzles and installed new triple sleeve/double piston ring seal feedwater spargers. Also at that time, CNS implemented the non-destructive examination requirements of NUREG 0619.

NUREG 0619, Table 2, requires a dye penetrant (PT) exam of the inner surfaces on one feedwater nozzle every nine refueling cycles. This would have required, as a minimum, removal of one feedwater sparger and a penetrant examination of that nozzle, as well as examinations of accessible portions of the remaining nozzles. Due to ALARA concerns and operational considerations, CNS proposed in Reference 2, to perform an automated ultrasonic examination of the feedwater nozzles in lieu of the specified dye penetrant examination. CNS also committed to implement automated feedwater sparger seal leakage and fatigue usage/crack growth monitoring. Furthermore, CNS committed in Reference 3 to qualify the automated UT examination techniques to be employed on a full-size BWR nozzle mockup with several narrow notches and at least one actual fatigue crack. The table below summarizes the NUREG 0619 required examinations proposed for CNS. The actual examination schedule may be adjusted depending on the number of startup/shutdown cycles since the last examination.

**FEEDWATER NOZZLE EXAMINATIONS  
 IN ACCORDANCE WITH U.S. NRC NUREG 0619**

REFUELING OUTAGE YEAR	EXAMINATION SCHEDULE FOR FW NOZZLES		
	PT	UT	VT
1997	NO	NO	NO
1998	NO	YES	NO
2000	NO	NO	YES-SPARGERS ONLY
2002	NO	YES	NO
2004	NO	NO	NO
2005	NO	YES	NO

The NRC in Reference 4, approved the CNS proposal to perform automated UT examination in lieu of PT examination of feedwater nozzles. CNS conducted an automated UT exam of the feedwater nozzles during the 1991 Refueling Outage using the General Electric Reactor Inspection System (GERIS) and the General Electric procedures listed below. The UT examination will be reperformed during the Fourth Inservice Inspection Interval.

- GE-UT-309, Rev. 0      Planar Flaw Sizing for Nozzle Inner Radius and Bore Regions (NDE Procedure Section Tab 24).
- GE-UT-402, Rev. 0      UT Alternative to NUREG 0619 Nozzle Radius and Bore PT Requirements (NDE Procedure Section Tab 31).



11.2

**CORE SPRAY SPARGER AND PIPING**

Visual examination (VT-1) of the Core Spray spargers and associated piping will be performed each refueling outage in accordance with NRC IEB 80-13.

11.3

### JET PUMP BEAM BEAMS

The CNS Jet Pump Beams were replaced with an improved design during the 1985 refueling outage. The original concern identified in NRC IEB 80-07 has been resolved. The beams will be visually examined each inspection period during the associated Jet Pump examination and ultrasonically examined once per interval in accordance with NUREG CR3052.

11.4

**INTERGRANULAR STRESS CORROSION CRACKING  
IN ACCORDANCE WITH U.S. NRC GENERIC LETTER 88-01**

- References:
1. NRC position on IGSCC in BWR austenitic stainless steel piping (Generic Letter 88-01).
  2. Letter, G. A. Trevors (NPPD) to U.S. NRC, dated October 9, 1990. Subject: Generic Letter 88-01, Cooper Nuclear Station.
  3. Letter, P. W. O'Connor to G. R. Horn (NPPD), dated May 24, 1991. Subject: Reactor Water Cleanup (RWCU) Pipe Weld Inspection.
  4. NRC position on IGSCC in BWR austenitic stainless steel piping (Generic Letter 88-01, Supplement 1).

As a result of previous commitments to Reference 1, CNS replaced the majority of the Category D Intergranular Stress Corrosion Cracking (IGSCC) susceptible piping and welds with Category A IGSCC resistant piping and welds during the 1990 Refueling Outage. The Category D piping and welds that were not replaced consists of the RWCU return piping from the regenerative heat exchanger outlet to the RWCU/RCIC attachment to the feedwater inlet line. In Reference 2, CNS proposed to revise its previous commitment to replace this piping and instead conduct continued inspection of this piping in accordance with the requirements of GL 88-01. The NRC approved this change, and future inspection requirements for RWCU piping weld inspections were documented in Reference 3.

The following pages document the CNS Augmented ISI requirements for all of the applicable RWCU piping welds in accordance with Reference 3. All Category G welds have been reclassified as Category D welds in accordance with GL 88-01. Also, weld RCA-BF-1 (CRD nozzle cap weld) has been reclassified as Category D and included in the attached program.

There are additional IGSCC Category A welds in Class 1 portions of the Reactor Recirculation, Core Spray, and RWCU systems. These welds are included in the CNS ASME Section XI ISI Program. These welds are also documented in the following pages in order to provide a complete list of welds subject to GL 88-01.

CNS will conform to the NRC staff position on reporting requirements as stated in GL 88-01. The NRC will be notified of any flaws identified that do not meet IWB-3500 criteria from Section XI of the Code for continued operation without evaluation, or a change found in the condition of welds previously known to be cracked. The NRC will be notified of any flaw evaluation required for continued operation and/or flaw repair plans.

**INTERGRANULAR STRESS CORROSION CRACKING  
IN ACCORDANCE WITH U.S. NRC GENERIC LETTER 88-01**

Category A welds in austenitic stainless steel piping at CNS have had the outside surface weld crowns conditioned (machined) to provide optimum surface condition for ultrasonic (UT) examination. This was done in accordance with General Electric Company recommendations which are now documented in GE Service Information Letter (SIL) No. 117, Revision 3. Future welds in austenitic stainless steel piping systems subject to Generic Letter 88-01 will be conditioned/machined for ultrasonic inspection in accordance with the recommendations of SIL No. 117, Revision 3.

AUGMENTED INSERVICE INSPECTION TAB: 5  
 GENERIC LETTER 88-01

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	UT45....	UT60....	PER RELREQ	REMARKS.....
CSA-BJ-4	CS-A	1	A	P-P	10"	.594"	P20	49	2502-1	6,26,18			RI-08
CSA-BJ-3*	CS-A	1	A	P-P	10"	.594"	P20	49	2502-1	6,26,18			RI-08 * FORMER PIPE WHIP EXAM
CSA-BF-4A	CS-A	1	A	P-E	10	0.631	P20/P2	4/49	CNS-CS-4	6,26		2	RI-08 ALSO REF: JELCO DWG 2502-1...
CSA-BF-1*	CS-A	1	A	SE-N	13.44	1.06	P20/RP	51/61/121	CNS-CS-4	28,29		3	RI-08 * FORMER PIPE WHIP EXAM * ( N5A NO2 90 DAZ ) GL 88-01 (PSI,UTO,F84) ALSO REF: JELCO DWG 2502-1...
CSA-BJ-2*	CS-A	1	A	P-SE	10"	.594"	P20	49	2502-1	6,26,18		3	RI-08 * FORMER PIPE WHIP EXAM
CSB-BF-1*	CS-B	1	A	SE-N	13.44	1.06	P20/RP	61/51	CNS-CS-3	28,29		1	RI-08 * FORMER PIPE WHIP EXAM, N5B (ALSO REF JELCO DWG 2502-1) (PSI,F84)
CSB-BF-4A	CS-B	1	A	P-E	10	0.631	P20/P2	4/49	CNS-CS-3	6,26		1	RI-08 ALSO REF JELCO DWG 2502-1
CSB-BJ-2*	CS-B	1	A	P-SE	10"	.594"	P20	49	2502-1	6,26,18		1	RI-08 * FORMER PIPE WHIP EXAM
CSB-BJ-3*	CS-B	1	A	P-P	10"	.594"	P20	49	2502-1	6,26,18		1	RI-08 * FORMER PIPE WHIP EXAM
CSB-BJ-4	CS-B	1	A	P-P	10"	.594"	P20	49	2502-1	6,26,18		2	RI-08
JPA-BF-1	JPI-A	1	A	SE-N	6	0.828	P20/RP	107/109	CE.232-241	28		2	RI-08 ( JPI-A ) GL 88-01 (PSI,UTO,F84,EDS # N-433) ALSO REF CB&I DWG 20. REFER TO SIL 455 REV. 1 FOR ADDITIONAL COVERAGE RECOMMENDATIONS; DUE TO INCONEL 182 FILLER MATERIAL AND BUTTERING
JPB-BF-1	JPI-B	1	A	SE-N	6	0.828	P20/RP	107/109	CE.232-241	28		3	RI-08 ( N8B NOZ ) GL 88-01 (PSI,UTO,F84,EDS # N-433) ALSO REF CB&I DWG 20. REFER TO SIL 455 REV. 1 FOR ADDITIONAL COVERAGE RECOMMENDATIONS; DUE TO INCONEL 182 FILLER MATERIAL AND BUTTERING
CWA-BJ-3	RR-A	1	A	P-P	6"	.432"	P20	48	2503-1	6,26			RI-08
RAD-BJ-5	RR-A	1	A	T-4W	30"	2.250"	P20	58	CNS-RR-37	6,26,18			RI-08
RAH-BJ-1	RR-A	1	A	4W-P	22"	1.125"	P20	54	CNS-RR-37	6,26,18			RI-08
RAH-BJ-2	RR-A	1	A	4W-P	22"	1.125"	P20	54	CNS-RR-37	6,26,18			RI-08
RAS-BJ-3	RR-A	1	A	P-T	28"	1.250"	P20	56	CNS-RR-37	6,26,18			RI-08
RAS-BJ-4	RR-A	1	A	T-P	28"	1.250"	P20	56	CNS-RR-37	6,26,18			RI-08
RAS-BJ-5	RR-A	1	A	F-VA	28"	1.250"	P20	56	CNS-RR-37	6,26,18			RI-08
RAS-BJ-6	RR-A	1	A	VA-P	28"	1.250"	P20	56	CNS-RR-37	6,26,18			RI-08
RAS-BJ-7	RR-A	1	A	P-E	28"	1.250"	P20	56	CNS-RR-37	6,26,18			RI-08
RAS-BJ-8	RR-A	1	A	E-PU	28"	1.250"	P20	56	CNS-RR-37	6,26,18			RI-08
RRF-BJ-2	RR-A	1	A	P-SE	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRF-BJ-3	RR-A	1	A	P-P	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08

PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	UT45....	UT60....	PER RELREQ	REMARKS.....
RRF-BJ-4	RR-A	1	A	P-P	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRF-BJ-5	RR-A	1	A	R-P	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRG-BJ-2	RR-A	1	A	P-SE	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRG-BJ-3	RR-A	1	A	T-P	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRJ-BJ-2	RR-A	1	A	P-SE	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRJ-BJ-3	RR-A	1	A	T-P	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRK-BJ-2	RR-A	1	A	P-SE	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRK-BJ-3	RR-A	1	A	P-P	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRK-BJ-4	RR-A	1	A	P-P	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RRK-BJ-5	RR-A	1	A	R-P	12"	.688"	P20	50	CNS-RR-37	6,26,18			RI-08
RAS-BJ-6A	RR-A	1	A	P-WOL	28"-4"		P20		CNS-RR-37	6,26,18			RI-08
RAS-BJ-6B	RR-A	1	A	WOL-F	4"		P20		CNS-RR-37	6,26,18			RI-08
RAS-BF-1	RR-A	1	A	N-SE	29	1.973	P20/RP	59/57	CNS-RR-37	28,29		1	RI-08 N1A
RAS-BJ-2	RR-A	1	A	SE-P	28"	1.250"	P20	56	CNS-RR-37	6,26,18		1	RI-08
RAS-BJ-9	RR-A	1	A	T-E	20"	1.031"	P20	53	CNS-RR-37	6,26,18		1	RI-08 ALSO REFERENCE JELCO DWG #2511-1...
RRH-BF-1	RR-A	1	A	SE-N	14	1.187	P20/RP	60/52	CNS-RR-37	28,29		1	RI-08 N2H
RRH-BJ-2	RR-A	1	A	P-SE	12"	.688"	P20	50	CNS-RR-37	6,26,18		1	RI-08
RAS-BF-12	RR-A	1	A	P-P	20	1.031	P20/P3	53/103	CNS-RR-37	6,26		1	RI-08 (TO RHR) 12" OF ADJ. LS RHA-BJ-3A (C.S.PEPIPE SIDE) ALSO REFERENCE JELCO DWG #2511-1...
RAS-BJ-11	RR-A	1	A	E-E	20"	1.031	P20	53	CNS-RR-37	6,26,18		1	RI-08 ALSO REFERENCE JELCO DWG #2511-1...
RAD-BJ-4	RR-A	1	A	P-T	28"	1.250"	P20	56	CNS-RR-37	6,26,18		2	RI-08
RRH-BJ-3	RR-A	1	A	R-P	12"	.688"	P20	50	CNS-RR-37	6,26,18		2	RI-08
RRJ-BF-1	RR-A	1	A	SE-N	14	1.187	P20/RP	60/52	CNS-RR-37	28,29		2	RI-08 N2J
RRK-BF-1	RR-A	1	A	SE-N	14	1.187	P20/RP	60/52	CNS-RR-37	28,29		2	RI-08 N2K
CWA-BJ-1*	RR-A	1	A	WOL-P	6"	.432"	P20	48	2503-1	6,26		2	RI-08 * FORMER PIPE WHIP EXAM * ALSO REFERENCE JELCO DWG #2511-1 AND NPPD DWG #CNS-RR-37...
RAS-BJ-10	RR-A	1	A	E-WOL	20"-6"	.432"	P20		CNS-RR-37	6,26,18		2	RI-08 ALSO REFERENCE JELCO DWG #2511-1 AND DWG #2503-1...
CWA-BJ-2	RR-A	1	A	P-P	6"	.432"	P20	48	2503-1	6,26		3	RI-08
CWA-BJ-4	RR-A	1	A	P-VA	6"	.432	P20	48	2503-1	6,26		3	RI-08
RAD-BF-7	RR-A	1	A	P-P	24	1.218	P20/P3	55/106	CNS-RR-37	6,26		3	RI-08 FROM RHR "A"... INCLUDE'S INTERSECTION OF ADJ. LS RAD-BJ-40A (C.S. PIPE SIDE)
RAD-BJ-1	RR-A	1	A	PU-P	28	1.250	P20	56	CNS-RR-37	6,26,18		3	RI-08
RAD-BJ-2	RR-A	1	A	P-VA	28	1.250	P20	56	CNS-RR-37	6,26,18		3	RI-08
RAD-BJ-3	RR-A	1	A	VA-P	28	1.250	P20	56	CNS-RR-37	6,26,18		3	RI-08
RAD-BJ-6	RR-A	1	A	P-T	24"	1.218"	P20	55	CNS-RR-37	6,26,18		3	RI-08 ALSO REFERENCE JELCO DWG #2512-1...



PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	UT45....	UT60....	PER RELREQ	REMARKS.....
RRF-BF-1	RR-A	1	A	SE-N	14	1.187	P20/RP	52/60/121	CNS-RR-37	28,29		3	RI-08 ( N2F NOZ 210 DAZ )
RRG-BF-1	RR-A	1	A	SE-N	14	1.187	P20/RP	52/60/121	CNS-RR-37	28,29		3	RI-08 ( N2G NOZ 240 DAZ )
RBD-BJ-1	RR-B	1	A	PU-P	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBD-BJ-2	RR-B	1	A	P-VA	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBD-BJ-3	RR-B	1	A	VA-P	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBD-BJ-4	RR-B	1	A	P-T	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBD-BJ-5	RR-B	1	A	T-4W	30"	2.250"	P20	58	CNS-RR-38	6,26,18			RI-08
RBH-BJ-1	RR-B	1	A	4W-P	22"	1.125"	P20	54	CNS-RR-38	6,26,18			RI-08
RBH-BJ-2	RR-B	1	A	4W-P	22"	1.125"	P20	54	CNS-RR-38	6,26,18			RI-08
RBS-BJ-2	RR-B	1	A	SE-P	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBS-BJ-3	RR-B	1	A	P-P	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBS-BJ-4	RR-B	1	A	P-P	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBS-BJ-5	RR-B	1	A	P-VA	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBS-BJ-6	RR-B	1	A	VA-P	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBS-BJ-7	RR-B	1	A	P-E	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RBS-BJ-8	RR-B	1	A	E-PU	28"	1.250"	P20	56	CNS-RR-38	6,26,18			RI-08
RAA-BJ-3	RR-B	1	A	P-P	12"	.688"	P20	50	CNS-RR-38	6,26,18			RI-08
RAA-BJ-4	RR-B	1	A	P-P	12"	.688"	P20	50	CNS-RR-38	6,26,18			RI-08
RAA-BJ-5	RR-B	1	A	R-P	12"	.688"	P20	50	CNS-RR-38	6,26,18			RI-08
RRB-BJ-3	RR-B	1	A	T-P	12"	.688"	P20	50	CNS-RR-38	6,26,18			RI-08
RRC-BJ-2	RR-B	1	A	P-SE	12"	.688"	P20	50	CNS-RR-38	6,26,18			RI-08
RRC-BJ-3	RR-B	1	A	R-P	12"	.688"	P20	50	CNS-RR-38	6,26,18			RI-08
RRD-BJ-3	RR-B	1	A	T-P	12"	.688"	P20	50	CNS-RR-38	6,26,18			RI-08
RBS-BJ-6B	RR-B	1	A	WOL-F	4"		P20		CNS-RR-38	6,26,18			RI-08
RRC-BF-1	RR-B	1	A	SE-N	14	1.187	P20/RP	60/52	CNS-RR-38	28,29		1	RI-08 N2C
RRE-BF-1	RR-B	1	A	SE-N	14	1.187	P20/RP	60/52	CNS-RR-38	28,29		1	RI-08 N2E
RRE-BJ-2	RR-B	1	A	P-SE	12"	.688"	P20	50	CNS-RR-38	6,26,18		1	RI-08
RBD-BF-7	RR-B	1	A	P-P	24	1.218	P20/P3	55/106	CNS-RR-38	6,26		2	RI-08 FROM RHR "B"... INCLUDE'S INTERSECTION OF ADJ. LS RRD-BJ-40A (C.S.PIPE SIDE)
RBD-BJ-6	RR-B	1	A	P-T	24"	1.218"	P20	55	CNS-RR-38	6,26,18		2	RI-08 ALSO REFERENCE JELCO DWG #2512-1...
RRE-BJ-3	RR-B	1	A	P-P	12"	.688"	P20	50	CNS-RR-38	6,26,18		2	RI-08
RRE-BJ-4	RR-B	1	A	P-P	12"	.688"	P20	50	CNS-RR-38	6,26,18		2	RI-08
RRE-BJ-5	RR-B	1	A	R-P	12"	.688"	P20	50	CNS-RR-38	6,26,18		2	RI-08
RBS-BF-1	RR-B	1	A	N-SE	29	1.973	P20/RP	57/59	CNS-RR-38	28,29		3	RI-08 N1B
RAA-BF-1	RR-B	1	A	SE-N	14	1.187	P20/RP	60/52	CNS-RR-38	28,29		3	RI-08 N2A
RAA-BJ-2	RR-B	1	A	P-SE	12"	.688"	P20	50	CNS-RR-38	6,26,18		3	RI-08
RRB-BF-1	RR-B	1	A	SE-N	14	1.187	P20/RP	60/52	CNS-RR-38	28,29		3	RI-08 N2B
RRB-BJ-2	RR-B	1	A	P-SE	12"	.688"	P20	50	CNS-RR-38	6,26,18		3	RI-08
RRD-BF-1	RR-B	1	A	SE-N	14	1.187	P20/RP	60/52	CNS-RR-38	28,29		3	RI-08 N2D
RRD-BJ-2	RR-B	1	A	P-SE	12"	.688"	P20	50	CNS-RR-38	6,26,18		3	RI-08
R9S-BJ-6A	RR-B	1	A	P-WOL	28"-4"		P20		CNS-RR-38	6,26,18		3	RI-08

PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	UT45.....	UT60.....	PER RELREQ	REMARKS.....
RWCU-63	RWCU	1	A	R-T	4"	.337"	316L	110	2605-2	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-64	RWCU	1	A	R-T	4"	.337"	316L	110	2605-2	26			RI-08 GL 88-01(GE-UT-102) (BASELINE S90)
RWCU-65	RWCU	1	A	T-P	4"	.337"	316L	110	2605-2	26			RI-08 GL 88-01 (GE-UT-012) (BASELINE S90)
RWCU-66	RWCU	1	A	P-P	4"	.337"	316L	110	2605-2	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-67	RWCU	1	A	P-P	4"	.337"	316L	110	2605-2	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-68	RWCU	1	A	P-P	4"	.337"	316L	110	2605-2	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-69	RWCU	1	A	P-P	4"	.337"	316L	110	2605-2	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-70	RWCU	1	A	P-P	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-71	RWCU	1	A	P-P	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-72	RWCU	1	A	P-E	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-73	RWCU	1	A	E-P	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-74	RWCU	1	A	P-T	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-75	RWCU	1	A	T-P	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-76	RWCU	1	A	P-N	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-77	RWCU	1	A	T-P	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-78	RWCU	1	A	P-E	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-79	RWCU	1	A	E-P	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-80	RWCU	1	A	P-E	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-81	RWCU	1	A	E-P	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-82	RWCU	1	A	P-V	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-83	RWCU	1	A	V-T	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-84	RWCU	1	A	T-P	4"	.337"	316L	110	2605-2A	26			RI-08 GL 88-01 (GE-UT-102) (BASELINE S90)

PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	UT45....	UT60....	PER RELREQ	REMARKS.....
RWCU-85	RWCU	1	A	P-E	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-86	RWCU	1	A	E-P	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-87	RWCU	1	A	P-N	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-88	RWCU	1	A	V-T	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-89	RWCU	1	A	P-V	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-90	RWCU	1	A	E-P	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-91	RWCU	1	A	P-E	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-92	RWCU	1	A	E-P	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-93	RWCU	1	A	N-E	4"	.337"	316L	110	2605-2A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-94	RWCU	1	A	T-P	4"	.337"	316L	110	2605-4A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
RWCU-95	RWCU	1	A	P-CAP	4"	.337"	316L	110	2605-4A	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-BJ-6	RWCU	1	A	P-P	6"	.432"	P20	48	2503-1	6,26		RI-08	
CWA-BJ-9	RWCU	1	A	P-E	6"	.432"	P20	48	2503-1	6,26		RI-08	
CWA-BJ-11	RWCU	1	A	P-FH	6"	.432"	P20	48	2503-1	6,26		RI-01	INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-14... ALSO REFERENCE NPPD DWG CNS-RWCU-3...
CWA-BJ-14	RWCU	1	A	P-P	6"	.432"	P20	48	2503-1	6,26		RI-08	
CWA-BJ-16	RWCU	1	A	P-V	6"	.432"	P20	48	2503-1	6,26		RI-08	(PSI F91) REPLACED RWCU-MO-18 VLV, THIS IS A NEW WELD
CWA-BJ-17	RWCU	1	A	P-V	6"	.432"	P20	48	2503-1	6,26		RI-08	(PSI F91) REPLACED RWCU-MO-15 VLV, THIS REPLACED WELD NO. CWA-BJ-7
CWA-BJ-18	RWCU	1	A	V-P	6"	.432"	P20	48	2503-1	6,26		RI-08	(PSI F91) REPLACED RWCU-MO-15 VLV, THIS REPLACED WELD NO. CWA-BJ-8
CWA-CF-46	RWCU	1	A	P-TEE	6"	.432"	316L	48	2605-4	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-47	RWCU	1	A	TEE-P	6"	.432"	316L	48	2605-4	26		RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)

PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	UT45....	UT60....	PER	RELREQ	REMARKS.....
CWA-CF-48	RWCU	1	A	P-E	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-50	RWCU	1	A	E-P	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-51	RWCU	1	A	P-E	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-52	RWCU	1	A	E-P	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-54	RWCU	1	A	P-E	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-56	RWCU	1	A	E-TEE	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-57	RWCU	1	A	T-R	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-58	RWCU	1	A	T-R	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (GE-UT-102) (BASELINE S90)
CWA-CF-59	RWCU	1	A	V-P	6"	.432"	316L	48	2605-4	26			RI-08	GL 88-01 (PSI F91) REPLACED RWCU-MO-18 VLV F91 OUTAGE, REPLACED WELD NO. CWA-CF-45, NOTE: AUG.GL 88-01(USE GE-UT-102 REV 2)
CWA-BJ-10	RWCU	1	A	E-P	6"	.432"	P20	48	2503-1	6,26		1	RI-08	
CWA-BJ-15	RWCU	1	A	FH-P	6"	.432"	P20	48	2503-1	6,26		2	RI-08	(PSI F91) REPLACED RWCU-MO-18 VLV, THIS REPLACED WELD NO. CWA-BJ-12
CWA-BJ-5	RWCU	1	A	VA-P	6"	.432"	P20	48	2503-1	6,26		3	RI-08	
		150	***											
RWCU-229		1	D	IN-SH					GE.141C7063				RI-08	
RWCU-230		1	D	IN-TS					GE.141C7064				RI-08	
RWCU-231		1	D	SH-IN					GE.141C7064				RI-08	
RWCU-232		1	D	SH-IN					GE.141C7065				RI-08	
RWCU-233		1	D	IN-TS					GE.141C7065				RI-08	
RWCU-234		1	D	TS-IN					GE.141C7064				RI-08	
RWCU-235		1	D	IN-TS					GE.141C7064				RI-08	
RWCU-236		1	D	TS-IN					GE.141C7063				RI-08	
RWCU-237		1	D	N-TS					GE.141C7063				RI-08	
RWCU-238		1	D	SH-N					GE.141C7063				RI-08	
RWCU-239		1	D	N-SH					GE.141C7065				RI-08	
RWCU-240		1	D	TS-N					GE.141C7065				RI-08	
RWCU-241		1	D	TSH-TS					GE.141C7063				RI-08	

PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	UT45....	UT60....	PER RELREQ	REMARKS.....
RWCU-242		1	D	TSH-SH					GE.141C7063				RI-08
RWCU-243		1	D	SH-HDS					GE.141C7063				RI-08
RWCU-244		1	D	TSH-TS					GE.141C7064				RI-08
RWCU-245		1	D	TSH-SH					GE.141C7064				RI-08
RWCU-246		1	D	SH-HDS					GE.141C7064				RI-08
RWCU-247		1	D	TSH-TS					GE.141C7065				RI-08
RWCU-248		1	D	TSH-SH					GE.141C7065				RI-08
RWCU-249		1	D	SH-HDS					GE.141C7065				RI-08
RCA-BF-1	CRD-R	1	D	N-C	5	160	P18/RP 20		CE.232-241	28,29		3	RI-08 ( N9 NOZ ) GL 88-01, CAP MAT. IS HT.GR.FE AND INCONEL 182 WITH INCONEL 82 WELD FILLER METAL...
RWCU-10	RWCU	1	D	N-P	4"	.337"	P-12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-11	RWCU	1	D	P-E	4"	.337"	P-12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-12	RWCU	1	D	E-P	4"	.337"	P-12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-13	RWCU	1	D	P-E	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102)
													REPAIRED S89, EXAMINED IN F91, RE-EXAMINE EVERY TWO (2) REFUELING OUTAGES
RWCU-14	RWCU	1	D	E-P	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-15	RWCU	1	D	P-P	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-16	RWCU	1	D	P-E	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-17	RWCU	1	D	E-P	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-18	RWCU	1	D	P-E	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-19	RWCU	1	D	E-P	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-20	RWCU	1	D	P-E	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-21	RWCU	1	D	E-P	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-22	RWCU	1	D	P-E	4"	.337"	P12 10		2605-3		26		RI-08 GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)

PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	UT45....	UT60....	PER RELREQ	REMARKS.....
RWCU-23	RWCU	1	D	E-P	4"	.337"	P12	10	2605-3	26		RI-08	GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-24	RWCU	1	D	P-P	4"	.337"	P12	10	2605-3	26		RI-08	GL 88-01 (GE-UT-102) (FOUND TO BE INACCESSIBLE S89)
RWCU-25	RWCU	1	D	P-P	4"	.337"	P12	10	2605-3	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-26	RWCU	1	D	P-E	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102) REPAIRED S89, EXAMINED IN F91, RE-EXAMINE EVERY TWO (2) REFUELING OUTAGES
RWCU-27	RWCU	1	D	E-P	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-28	RWCU	1	D	P-E	4"	.337"	P-12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-29	RWCU	1	D	E-P	4"	.337"	P-12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-30	RWCU	1	D	T-P	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-31	RWCU	1	D	P-E	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-32	RWCU	1	D	E-P	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-33	RWCU	1	D	P-E	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-34	RWCU	1	D	E-P	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-35	RWCU	1	D	P-E	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-36	RWCU	1	D	E-P	4"	.337"	P-12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-37	RWCU	1	D	P-E	4"	.337"	P-12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-38	RWCU	1	D	E-P	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-39	RWCU	1	D	P-E	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-40	RWCU	1	D	E-P	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-41	RWCU	1	D	P-E	4"	.337"	P-12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-42	RWCU	1	D	E-P	4"	.337"	P-12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-43	RWCU	1	D	P-P	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-44	RWCU	1	D	P-E	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-45	RWCU	1	D	E-P	4"	.337"	P-12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102) CHECK SUPPORT LIMITING EXAM
RWCU-46	RWCU	1	D	P-E	4"	.337"	P12	10	2605-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-49	RWCU	1	D	P-P	4"	.337"	P12-F	10	2513-1	26		RI-08	GL 88-01 (GE-UT-102)
RWCU-96	RWCU	1	D	P-V	4"	160	SS/CS	10	2513-1	28,29		RI-08	(BASELINE:593) BI-METALLIC, FORMERLY LISTED AS CAT: B-F CLASS ! ID.NO CWB-BF-8, SCAN LIMITED TO PIPE SIDE ONLY, USE LATEST GE-UT-102 PROC. FOR GL 88-01 EXAMS.(REF.ISO 2509-1)
RWCU-97	RWCU	1	D	V-P	4"	.337"	P12-F	10	2513-1	26		RI-08	GL 88-01 (GE-UT-102)



PIPE.....	SYSTEM..	CNT.	IGSCC	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	UT45....	UT60....	PER RELREQ	REMARKS.....
RWCU-98	RWCU	1	D	E-V	4"	.337"	P12	10	2605-1		26		RWCU-MO-68 VLV RPLMT S93, NO BASELINE, FORMERLY EXAMINED AS RWCU-48 RI-08 GL 88-01 (GE-UT-102) RWCU-MO-68 VLV RPLMT S93, NO BASELINE, FORMERLY EXAMINED AS RWCU-47
RWCU-201	RWCU	1	D	N-E	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-202	RWCU	1	D	E-P	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-203	RWCU	1	D	P-E	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-204	RWCU	1	D	E-E	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-205	RWCU	1	D	E-P	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-206	RWCU	1	D	P-E	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-207	RWCU	1	D	E-N	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-208	RWCU	1	D	N-E	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-209	RWCU	1	D	E-P	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-210	RWCU	1	D	P-E	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-211	RWCU	1	D	E-E	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-212	RWCU	1	D	E-P	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-213	RWCU	1	D	P-E	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-214	RWCU	1	D	E-N	4"	.337"	P12	10	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-215	RWCU	1	D	N-E	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-216	RWCU	1	D	E-P	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-217	RWCU	1	D	E-E	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-218	RWCU	1	D	E-E	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-219	RWCU	1	D	E-P	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-220	RWCU	1	D	P-E	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-221	RWCU	1	D	E-N	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-222	RWCU	1	D	N-E	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-223	RWCU	1	D	E-P	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-224	RWCU	1	D	P-E	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-225	RWCU	1	D	E-E	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-226	RWCU	1	D	E-P	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-227	RWCU	1	D	P-E	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-228	RWCU	1	D	E-N	6"	.432"	P12	11	GE.141C7090		26		RI-08 GL 88-01 (GE-UT-102)
RWCU-29A	RWCU	1	D	P-T	4"	.337"	P-12	10	2605-1		26		RI-08 GL 88-01 (GE-UT-102)

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11.5

### STEAM DRYER INSPECTIONS

A visual examination of the steam dryer channel welds will be performed each inspection period in accordance with GE SIL No. 474.

11.6

### JET PUMP NOZZLES AND MIXERS

A visual (VT-3) inspection of the Jet Pump nozzles and mixers for crud deposits will be performed during the Jet Pump visual examinations each inspection period in accordance with GE SIL No. 465 S1.

11.7            **RADIAL CRACKING IN SHROUD ACCESS HOLE COVERS**

- References:
1.     GE SIL No. 462, Supplement 3, dated June 8, 1992.
  2.     CNS Engineering Response to SIL No. 462, Supplement 3.
  3.     US NRC Information Notice 92-57, "Radial Cracking of Shroud Access Hole Cover Welds", dated August 11, 1992.

The two CNS Shroud Access Hole Covers (AHCs) received a visual (VT-1) and remote ultrasonic examination for detection of radial and circumferential cracking during the Spring 1993 Refueling Outage as recommended in Reference 1. The CNS response to the shroud AHC issue addresses all concerns identified in the Reference 3 notice. The shroud access hole cover welds will receive a visual examination (VT-1) each refueling outage. Based on the results of the 1993 examinations, the ultrasonic examinations will now be performed every five years, unless the results of the visual examinations indicate a flaw.

11.8

### CORE SPRAY T-BOX INSPECTION

GE SIL 289 Revision 1 Supplement 1 reported crack like indications in the T-box welds during the Core Spray sparger inspections required by IEB 80-13. CNS will include the accessible T-box welds in the visual (VT-1) examinations required by IEB 80-13.

11.9

### RECIRCULATION PUMP SHAFT & COVER

When the Reactor Recirculation (RR) pumps are disassembled for maintenance, a visual examination of the shaft, pump cover, and impeller to shaft attachment region (including bolts), and hydrostatic bearings (including baffle plate) for thermal fatigue cracking will be performed per GE SIL 459 and RICSIL 038.



11.10

### INCORE DRY TUBE CRACKS

CNS performed visual examinations of the SRM & IRM dry tubes during the 1989, 1990, and 1991 refueling outages in accordance with GE SIL No. 409 R1. As a result of indications detected during 1991, CNS replaced all dry tubes during the 1993 refueling outage. CNS will continue to visually examine the dry tubes during the sixth refueling outage after they were replaced (2005), and every three refueling outages thereafter.

11.11

### SHROUD HEAD BOLT CRACKS

General Electric Company Service Information Letter (SIL) No. 433, dated February 7, 1986, documents the discovery of cracked shroud head bolts (SHBs) at several domestic BWRs. The cracking mechanism was identified as crevice assisted Intergranular Stress Corrosion Cracking (IGSCC) and occurred on the Inconel 600 shaft of the SHB in a creviced region formed by a 304 stainless steel sleeve/ collar welded to the bolt shaft. SIL No. 433 recommended that all creviced, old design SHBs be ultrasonically inspected during the next refueling outage and all cracked SHBs be replaced with a new improved design SHB without the sleeve/collar crevice.

General Electric performed ultrasonic (UT) examination of the installed, old design SHBs at CNS during the 1986, 1988, 1989, 1990, 1991, and 1993 refueling outages. The following SHBs were found to be cracked and were subsequently replaced:

◦ 1986 Refueling Outage	SHB #31
◦ 1988 Refueling Outage	SHB #3, #25, #33, #34
◦ 1989 Refueling Outage	SHB #10, #11
◦ 1990 Refueling Outage	SHB #28
◦ 1991 Refueling Outage	SHB #2, #27, #35
◦ 1993 Refueling Outage	SHB # None

Total Replaced (As of End of 1993 Outage): 11 SHBs

Supplement 1 to SIL No. 433 reported cracking in a different location in an old design SHB. General Electric now recommends that the entire length of the SHB be examined. CNS will perform UT examination of the entire length of all installed, old design, creviced Inconel 600 SHBs each refueling outage until all the old design SHBs are replaced with the improved design non-creviced SHBs. General Electric UT examination procedure GE-UT-501 or equivalent will be employed for this examination.

11.12

## REACTOR EQUIPMENT COOLING

In July, 1994, a pin hole leak was detected in the REC system piping. Metallurgical analysis (GE report GENE E22-00103-01) determined that the cause was nitrate induced stress corrosion cracking. A program of inspections was initiated. 134 welds were ultrasonically examined, and 9 were found to have flaw indications. Crack initiation sites were primarily located behind weld backing rings.

CNS has therefore established an augmented program for inspection of the essential portions of the REC system piping butt welds 2-1/2 NPS and larger (reference "REC System Piping Integrity Verification", CR 94-0485). Using the guidance of EPRI NCIG-02, a sample of 64 welds will be ultrasonically examined each refueling cycle. If all welds examined are acceptable for continued service, no additional examinations are required. If one or more welds are unacceptable, then an additional sample of 50 welds will be examined. Additional unacceptable flaws could result in the selection of an additional sample of 50 welds, or in 100% examination of the system.

The rules of ASME XI will be used for the performance of these examinations and for the evaluation of indications.

**REC WELD EXAMINATION SCHEDULE**

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-1	WE	8"	BUTT WELD	2002-S
2848-1	WN	8"	BUTT WELD	1997-S
2848-2	W1	6"	BUTT WELD	2002-C
2848-2	W10	6"	BUTT WELD	2004-S
2848-2	W100	10"	BUTT WELD	1998-C
2848-2	W101	10"	BUTT WELD	2002-S
2848-2	W102	10"	BUTT WELD	2004-S
2848-2	W103	10"	BUTT WELD	2001-S
2848-2	W104	10"	BUTT WELD	2001-S
2848-2	W105	10"	BUTT WELD	1998-S
2848-2	W106	6"	BUTT WELD	1997-S
2848-2	W107	10"	BUTT WELD	1998-C
2848-2	W108	6"	BUTT WELD	1997-S
2848-2	W109	10"	BUTT WELD	1998-C
2848-2	W11	8"	BUTT WELD	2004-S
2848-2	W110	6"	BUTT WELD	1997-S
2848-2	W111	10"	BUTT WELD	2001-S
2848-2	W112	6"	BUTT WELD	2004-S
2848-2	W113	6"	BUTT WELD	1997-S
2848-2	W114	12"	BUTT WELD	1997-S
2848-2	W115	12"	BUTT WELD	1998-S
2848-2	W116	12"	BUTT WELD	1998-C
2848-2	W117	12"	BUTT WELD	1998-S
2848-2	W12	8"	BUTT WELD	2004-C
2848-2	W13	12"	BUTT WELD	2004-C
2848-2	W14	8"	BUTT WELD	1997-S
2848-2	W15	8"	BUTT WELD	1997-S
2848-2	W16	12"	BUTT WELD	1998-S
2848-2	W17	12"	BUTT WELD	2002-S
2848-2	W18	12"	BUTT WELD	1997-C
2848-2	W19	12"	BUTT WELD	1997-C

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-2	W2	8"	BUTT WELD	2004-S
2848-2	W20	12"	BUTT WELD	1997-C
2848-2	W21	12"	BUTT WELD	1997-C
2848-2	W22	12"	BUTT WELD	1997-C
2848-2	W23	12"	BUTT WELD	1998-S
2848-2	W24	12"	BUTT WELD	1998-S
2848-2	W25	12"	BUTT WELD	1998-S
2848-2	W26	12"	BUTT WELD	1997-C
2848-2	W27	12"	BUTT WELD	1998-S
2848-2	W28	12"	BUTT WELD	1997-S
2848-2	W29	12"	BUTT WELD	1998-S
2848-2	W3	8"	BUTT WELD	2004-C
2848-2	W30	12"	BUTT WELD	1997-S
2848-2	W31	16"	BUTT WELD	1997-C
2848-2	W32	12"	BUTT WELD	2001-S
2848-2	W33	12"	BUTT WELD	1998-C
2848-2	W34	12"	BUTT WELD	1998-C
2848-2	W35	12"	BUTT WELD	1998-C
2848-2	W36	12"	BUTT WELD	1998-C
2848-2	W37	12"	BUTT WELD	1998-S
2848-2	W38	12"	BUTT WELD	1998-S
2848-2	W39	12"	BUTT WELD	1998-C
2848-2	W4	6"	BUTT WELD	2002-C
2848-2	W40	12"	BUTT WELD	1998-C
2848-2	W41	12"	BUTT WELD	2002-S
2848-2	W42	12"	BUTT WELD	1998-C
2848-2	W43	12"	BUTT WELD	2004-S
2848-2	W44	16"	BUTT WELD	2004-S
2848-2	W45	12"	BUTT WELD	2004-C
2848-2	W46	12"	BUTT WELD	2004-S
2848-2	W47	12"	BUTT WELD	1998-S

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-2	W48	6"	BUTT WELD	1997-C
2848-2	W49	12"	BUTT WELD	1997-C
2848-2	W5	8"	BUTT WELD	2002-C
2848-2	W50	12"	BUTT WELD	1997-C
2848-2	W51	12"	BUTT WELD	1997-S
2848-2	W52	12"	BUTT WELD	2004-S
2848-2	W53	12"	BUTT WELD	1997-S
2848-2	W54	12"	BUTT WELD	1997-S
2848-2	W55	6"	BUTT WELD	1997-S
2848-2	W56	6"	BUTT WELD	2004-S
2848-2	W57	6"	BUTT WELD	2004-S
2848-2	W58	6"	BUTT WELD	1997-S
2848-2	W59	6"	BUTT WELD	1997-S
2848-2	W6	8"	BUTT WELD	2001-S
2848-2	W60	6"	BUTT WELD	2004-S
2848-2	W61	6"	BUTT WELD	1997-C
2848-2	W62	4"	BUTT WELD	1997-S
2848-2	W63	4"	BUTT WELD	1997-S
2848-2	W64	4"	BUTT WELD	1997-S
2848-2	W65	4"	BUTT WELD	1997-S
2848-2	W66	4"	BUTT WELD	2002-S
2848-2	W67	4"	BUTT WELD	2002-S
2848-2	W68	4"	BUTT WELD	2002-S
2848-2	W69	6"	BUTT WELD	2004-C
2848-2	W7	6"	BUTT WELD	1998-C
2848-2	W70	6"	BUTT WELD	2004-C
2848-2	W71	6"	BUTT WELD	2004-S
2848-2	W72	4"	BUTT WELD	1997-C
2848-2	W73	4"	BUTT WELD	1997-S
2848-2	W74	6"	BUTT WELD	1997-S
2848-2	W75	4"	BUTT WELD	2004-S



**REC WELD EXAMINATION SCHEDULE**

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-2	W76	12"	BUTT WELD	1997-C
2848-2	W77	6"	BUTT WELD	1997-S
2848-2	W78	12"	BUTT WELD	1997-C
2848-2	W79	12"	BUTT WELD	1998-S
2848-2	W8	8"	BUTT WELD	2002-C
2848-2	W80	12"	BUTT WELD	2002-C
2848-2	W81	10"	BUTT WELD	2001-S
2848-2	W82	12"	BUTT WELD	1998-C
2848-2	W83	12"	BUTT WELD	1998-C
2848-2	W84	12"	BUTT WELD	1998-C
2848-2	W85	12"	BUTT WELD	1998-C
2848-2	W86	10"	BUTT WELD	2002-C
2848-2	W87	12"	BUTT WELD	1997-C
2848-2	W88	12"	BUTT WELD	1997-C
2848-2	W89	12"	BUTT WELD	2002-C
2848-2	W9	8"	BUTT WELD	2001-S
2848-2	W90	10"	BUTT WELD	2002-C
2848-2	W91	12"	BUTT WELD	1998-S
2848-2	W92	12"	BUTT WELD	1998-S
2848-2	W93	12"	BUTT WELD	1998-C
2848-2	W94	12"	BUTT WELD	1998-C
2848-2	W95	12"	BUTT WELD	2004-C
2848-2	W96	10"	BUTT WELD	2004-S
2848-2	W97	10"	BUTT WELD	1998-C
2848-2	W98	10"	BUTT WELD	1998-C
2848-2	W99	10"	BUTT WELD	1998-C
2848-2	WA	8"	BUTT WELD	2002-C
2848-2	WAA	6"	BUTT WELD	1997-S
2848-2	WB	8"	BUTT WELD	1998-C
2848-2	WC	8"	BUTT WELD	2004-C
2848-2	WD	8"	BUTT WELD	2002-S

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-2	WE	8"	BUTT WELD	1998-C
2848-2	WF	8"	BUTT WELD	2004-S
2848-2	WG	8"	BUTT WELD	2001-S
2848-2	WH	8"	BUTT WELD	2001-S
2848-2	WI	8"	BUTT WELD	2002-C
2848-2	WJ	8"	BUTT WELD	2001-S
2848-2	WK	8"	BUTT WELD	2004-S
2848-2	WL	8"	BUTT WELD	2002-S
2848-2	WM	12"	BUTT WELD	1998-C
2848-2	WN	12"	BUTT WELD	1997-C
2848-2	WO	4"	BUTT WELD	1997-S
2848-2	WP	4"	BUTT WELD	1997-S
2848-2	WQ	4"	BUTT WELD	2002-C
2848-2	WR	4"	BUTT WELD	1997-S
2848-2	WS	6"	BUTT WELD	2002-S
2848-2	WT	4"	BUTT WELD	1997-S
2848-2	WU	6"	BUTT WELD	1997-S
2848-2	WV	6"	BUTT WELD	1997-C
2848-2	WW	12"	BUTT WELD	2002-S
2848-2	WX	6"	BUTT WELD	1997-S
2848-2	WY	6"	BUTT WELD	1997-S
2848-2	WZ	6"	BUTT WELD	1997-S
2848-7	W1	6"	BUTT WELD	2002-S
2848-7	W2	6"	BUTT WELD	1998-S
2848-7	W3	3"	BUTT WELD	2001-C
2848-7	WA	6"	BUTT WELD	2004-S
2848-7	WB	6"	BUTT WELD	2004-C
2848-7	WC	6"	BUTT WELD	2004-C
2848-7	WD	4"	BUTT WELD	2002-S
2848-7	WFA	6"	BUTT WELD	2002-S
2848-7	WFA	6"	BUTT WELD	2004-C

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-7	WFB	3"	BUTT WELD	2002-C
2848-8	W1	8"	BUTT WELD	1997-C
2848-8	W10	8"	BUTT WELD	1997-S
2848-8	W11	8"	BUTT WELD	1997-S
2848-8	W12	8"	BUTT WELD	1997-S
2848-8	W2	8"	BUTT WELD	1997-C
2848-8	W3	8"	BUTT WELD	1998-S
2848-8	W4	8"	BUTT WELD	1998-S
2848-8	W5	8"	BUTT WELD	1998-C
2848-8	W6	8"	BUTT WELD	1998-S
2848-8	W7	8"	BUTT WELD	1998-C
2848-8	W8	8"	BUTT WELD	1997-S
2848-8	W9	8"	BUTT WELD	1997-S
2848-8	WE	8"	BUTT WELD	2002-S
2848-8	WG	8"	BUTT WELD	1997-C
2848-8	WH	8"	BUTT WELD	1997-C
2848-8	WI	8"	BUTT WELD	2004-S
2848-8	WJ	8"	BUTT WELD	2002-C
2848-8	WK	8"	BUTT WELD	2002-C
2848-8	WL	8"	BUTT WELD	2004-S
2848-8	WM	8"	BUTT WELD	1997-C
2848-8	WN	10"	BUTT WELD	1997-S
2848-9	W1	4"	BUTT WELD	1997-S
2848-9	W10	4"	BUTT WELD	1997-S
2848-9	W11	4"	BUTT WELD	2002-S
2848-9	W12	4"	BUTT WELD	2004-S
2848-9	W13	4"	BUTT WELD	1997-S
2848-9	W14	4"	BUTT WELD	1997-S
2848-9	W15	4"	BUTT WELD	1997-S
2848-9	W16	4"	BUTT WELD	2204-S
2848-9	W17	4"	BUTT WELD	2004-S

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-9	W18	4"	BUTT WELD	1998-S
2848-9	W19	4"	BUTT WELD	2004-S
2848-9	W2	4"	BUTT WELD	2002-C
2848-9	W20	4"	BUTT WELD	1998-C
2848-9	W21	4"	BUTT WELD	1998-C
2848-9	W22	4"	BUTT WELD	1998-S
2848-9	W23	4"	BUTT WELD	2001-S
2848-9	W24	4"	BUTT WELD	2001-S
2848-9	W25	4"	BUTT WELD	2002-C
2848-9	W26	4"	BUTT WELD	1998-C
2848-9	W27	4"	BUTT WELD	2002-C
2848-9	W28	3"	BUTT WELD	2001-S
2848-9	W29	3"	BUTT WELD	2001-C
2848-9	W3	4"	BUTT WELD	1997-C
2848-9	W30	3"	BUTT WELD	2001-C
2848-9	W31	3"	BUTT WELD	2004-S
2848-9	W32	3"	BUTT WELD	1998-C
2848-9	W33	3"	BUTT WELD	1998-C
2848-9	W34	3"	BUTT WELD	1998-S
2848-9	W35	3"	BUTT WELD	1997-C
2848-9	W36	3"	BUTT WELD	2002-S
2848-9	W37	3"	BUTT WELD	1998-S
2848-9	W38	3"	BUTT WELD	1998-S
2848-9	W39	3"	SOCKET WELD	
2848-9	W4	4"	BUTT WELD	2005-S
2848-9	W40	3"	SOCKET WELD	
2848-9	W41	3"	BUTT WELD	1997-S
2848-9	W42	4"	BUTT WELD	1998-S
2848-9	W43	4"	BUTT WELD	1997-S
2848-9	W44	4"	BUTT WELD	1997-S
2848-9	W45	4"	BUTT WELD	1997-C

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-9	W46	4"	BUTT WELD	1997-S
2848-9	W47	4"	BUTT WELD	1997-S
2848-9	W48	4"	BUTT WELD	1997-S
2848-9	W49	4"	BUTT WELD	1997-S
2848-9	W5	4"	BUTT WELD	1997-C
2848-9	W50	4"	BUTT WELD	1997-S
2848-9	W51	4"	BUTT WELD	1997-S
2848-9	W52	4"	BUTT WELD	2002-C
2848-9	W53	4"	BUTT WELD	1997-S
2848-9	W54	4"	BUTT WELD	1997-C
2848-9	W55	4"	BUTT WELD	2004-S
2848-9	W56	4"	BUTT WELD	1998-S
2848-9	W57	4"	BUTT WELD	1998-C
2848-9	W58	4"	BUTT WELD	1998-C
2848-9	W59	4"	BUTT WELD	1998-C
2848-9	W6	4"	BUTT WELD	1997-C
2848-9	W60	4"	BUTT WELD	1998-S
2848-9	W61	4"	BUTT WELD	1998-C
2848-9	W62	4"	BUTT WELD	1998-C
2848-9	W63	4"	BUTT WELD	1998-S
2848-9	W64	4"	BUTT WELD	1998-S
2848-9	W65	4"	BUTT WELD	1998-C
2848-9	W66	3"	BUTT WELD	2001-S
2848-9	W67	3"	BUTT WELD	2001-C
2848-9	W68	3"	BUTT WELD	2001-C
2848-9	W69	3"	BUTT WELD	2002-S
2848-9	W7	4"	BUTT WELD	1997-S
2848-9	W70	3"	BUTT WELD	1998-C
2848-9	W71	3"	BUTT WELD	1998-C
2848-9	W72	3"	BUTT WELD	1998-C
2848-9	W73	3"	BUTT WELD	1998-S



REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-9	W74	3"	BUTT WELD	2002-S
2848-9	W75	3"	BUTT WELD	1998-C
2848-9	W76	3"	BUTT WELD	2001-C
2848-9	W77	3"	BUTT WELD	2001-S
2848-9	W78	3"	BUTT WELD	2001-S
2848-9	W79	3"	BUTT WELD	2002-C
2848-9	W8	4"	BUTT WELD	1997-S
2848-9	W80	3"	BUTT WELD	2002-C
2848-9	W81	3"	BUTT WELD	2002-C
2848-9	W82	3"	BUTT WELD	2001-C
2848-9	W83	3"	BUTT WELD	2001-S
2848-9	W84	1-1/2"	SOCKET WELD	
2848-9	W85	4"	BUTT WELD	1998-C
2848-9	W86	4"	BUTT WELD	1997-S
2848-9	W87	4"	BUTT WELD	1997-C
2848-9	W88	4"	BUTT WELD	1997-C
2848-9	W9	4"	BUTT WELD	2005-S
2848-9	WA	4"	BUTT WELD	2004-S
2848-9	WB	4"	BUTT WELD	1997-C
2848-9	WC	4"	BUTT WELD	1997-C
2848-9	WD	4"	BUTT WELD	1997-C
2848-9	WE	4"	BUTT WELD	2001-S
2848-9	WF	4"	BUTT WELD	2002-C
2848-9	WFE	4"	BUTT WELD	2002-C
2848-9	WG	3"	BUTT WELD	2002-C
2848-9	WH	3"	BUTT WELD	1998-S
2848-9	WI	3"	BUTT WELD	2002-S
2848-9	WJ	3"	BUTT WELD	1997-S
2848-9	WK	3"	BUTT WELD	2002-S
2848-9	WL	1 1/2"	SOCKET WELD	
2848-9	WM	1 1/2"	SOCKET WELD	



REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-9	WN	3"	BUTT WELD	2004-S
2848-9	WO	3"	BUTT WELD	2001-C
2848-9	WP	3"	BUTT WELD	2002-C
2848-9	WQ	3"	BUTT WELD	2002-C
2848-9	WR	3"	BUTT WELD	2002-C
2848-9	WS	4"	BUTT WELD	2002-C
2848-9	WT	4"	BUTT WELD	1998-C
2848-9	WU	4"	BUTT WELD	2001-C
2848-9	WV	4"	BUTT WELD	1997-S
2848-9	WW	4"	BUTT WELD	1997-C
2848-9	WX	4"	BUTT WELD	2002-S
2848-9	WY	4"	BUTT WELD	1998-S
2848-9	WZ	3"	BUTT WELD	2002-C
2848-14	W1	16"	BUTT WELD	1997-S
2848-14	W12	6"	BUTT WELD	2001-C
2848-14	W13	6"	BUTT WELD	2001-C
2848-14	W14	6"	BUTT WELD	2004-S
2848-14	W15	6"	BUTT WELD	2002-C
2848-14	W16	6"	BUTT WELD	1997-C
2848-14	W17	6"	BUTT WELD	2002-C
2848-14	W18	6"	BUTT WELD	2002-S
2848-14	W19	6"	BUTT WELD	2002-S
2848-14	W2	16"	BUTT WELD	2001-C
2848-14	W20	6"	BUTT WELD	2002-S
2848-14	W21	12"	BUTT WELD	2002-S
2848-14	W22	6"	BUTT WELD	1997-S
2848-14	W23	12"	BUTT WELD	2002-S
2848-14	W24	16"	BUTT WELD	2002-S
2848-14	W25	16"	BUTT WELD	1997-C
2848-14	W26	4"	BUTT WELD	2002-S

**REC WELD EXAMINATION SCHEDULE**

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-14	W27	4"	BUTT WELD	1997-C
2848-14	W28	4"	BUTT WELD	2004-S
2848-14	W29	4"	BUTT WELD	2004-S
2848-14	W3	12"	BUTT WELD	2002-C
2848-14	W30	4"	BUTT WELD	2004-S
2848-14	W31	4"	BUTT WELD	2004-S
2848-14	W32	4"	BUTT WELD	2005-S
2848-14	W33	4"	BUTT WELD	1997-S
2848-14	W34	4"	BUTT WELD	2002-S
2848-14	W35	4"	BUTT WELD	1997-C
2848-14	W36	4"	BUTT WELD	1998-C
2848-14	W37	4"	BUTT WELD	1998-C
2848-14	W38	4"	BUTT WELD	1997-S
2848-14	W39	4"	BUTT WELD	1997-S
2848-14	W40	4"	BUTT WELD	2005-S
2848-14	W41	4"	BUTT WELD	2002-S
2848-14	W42	4"	BUTT WELD	2005-S
2848-14	W43	12"	BUTT WELD	2002-S
2848-14	W44	8"	BUTT WELD	2002-S
2848-14	W45	12"	BUTT WELD	1997-S
2848-14	W46	12"	BUTT WELD	2002-S
2848-14	W47	12"	BUTT WELD	2002-C
2848-14	W48	12"	BUTT WELD	1997-S
2848-14	W49	12"	BUTT WELD	2002-C
2848-14	W5	6"	BUTT WELD	1998-C
2848-14	W53	12"	BUTT WELD	2002-C
2848-14	W55	12"	BUTT WELD	2005-S
2848-14	W56	12"	BUTT WELD	2004-S
2848-14	W57	12"	BUTT WELD	2004-S
2848-14	W58	12"	BUTT WELD	1997-C
2848-14	W59	12"	BUTT WELD	1997-C

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-14	W6	6"	BUTT WELD	2002-C
2848-14	W60	12"	BUTT WELD	1998-S
2848-14	W61	8"	BUTT WELD	2001-C
2848-14	W62	8"	BUTT WELD	2002-C
2848-14	W63	8"	BUTT WELD	2004-S
2848-14	W64	10"	BUTT WELD	2002-S
2848-14	W65	4"	BUTT WELD	1997-C
2848-14	W66	4"	BUTT WELD	1997-S
2848-14	W7	6"	BUTT WELD	1998-C
2848-14	W8		SOCKET WELD	
2848-14	W9	6"	BUTT WELD	1998-C
2848-14	WA	10"	BUTT WELD	2002-S
2848-14	WB	6"	BUTT WELD	1998-C
2848-14	WC	6"	BUTT WELD	2004-S
2848-14	WD	4"	BUTT WELD	2002-S
2848-14	WE	4"	BUTT WELD	1998-S
2848-14	WF	4"	BUTT WELD	2004-S
2848-14	WG	4"	BUTT WELD	2002-C
2848-14	WH	6"	BUTT WELD	1997-S
2848-14	WI	6"	BUTT WELD	2002-S
2848-15	W1	4"	BUTT WELD	1998-C
2848-15	W10	4"	BUTT WELD	2001-S
2848-15	W11	4"	BUTT WELD	2004-S
2848-15	W12	3"	BUTT WELD	2004-C
2848-15	W13	3"	BUTT WELD	1998-S
2848-15	W14	3"	BUTT WELD	2001-S
2848-15	W15	3"	BUTT WELD	2002-C
2848-15	W16	3"	BUTT WELD	2002-C
2848-15	W17	3"	BUTT WELD	2001-S
2848-15	W18	3"	BUTT WELD	1998-S
2848-15	W19	3"	BUTT WELD	2001-S

**REC WELD EXAMINATION SCHEDULE**

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-15	W2	4"	BUTT WELD	1998-C
2848-15	W20	3"	BUTT WELD	2004-S
2848-15	W21	3"	BUTT WELD	2004-C
2848-15	W22	3"	BUTT WELD	2004-C
2848-15	W23	4"	BUTT WELD	2001-S
2848-15	W24	4"	BUTT WELD	2002-C
2848-15	W25	4"	BUTT WELD	2002-C
2848-15	W26	4"	BUTT WELD	2001-S
2848-15	W27	4"	BUTT WELD	1998-C
2848-15	W28	4"	BUTT WELD	2001-S
2848-15	W29	4"	BUTT WELD	2001-C
2848-15	W3	4"	BUTT WELD	2002-C
2848-15	W30	4"	BUTT WELD	2001-S
2848-15	W31	4"	BUTT WELD	2001-S
2848-15	W32	4"	BUTT WELD	2004-S
2848-15	W33	4"	BUTT WELD	2004-C
2848-15	W34	4"	BUTT WELD	1997-C
2848-15	W35	3"	BUTT WELD	2002-C
2848-15	W36	3"	BUTT WELD	1997-S
2848-15	W37	3"	BUTT WELD	1997-S
2848-15	W4	4"	BUTT WELD	2004-C
2848-15	W5	4"	BUTT WELD	2004-C
2848-15	W6	4"	BUTT WELD	2001-S
2848-15	W7	4"	BUTT WELD	2001-S
2848-15	W8	4"	BUTT WELD	2001-S
2848-15	W9	4"	BUTT WELD	2001-S
2848-15	WA	4"	BUTT WELD	2004-S
2848-15	WB	4"	BUTT WELD	2001-S
2848-15	WC	3"	BUTT WELD	2004-C
2848-15	WF	4"	BUTT WELD	2002-S
2848-15	WFC	3"	BUTT WELD	2001-S

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-15	WG	3"	BUTT WELD	1997-S
2848-15	WJ	3"	BUTT WELD	1997-S
2848-15	WK	1 1/2"	BUTT WELD	
2848-15	WL	1 1/2"	BUTT WELD	
2848-15	WM	1 1/4"	BUTT WELD	
2848-16	W1	3"	BUTT WELD	2004-C
2848-16	W10	3"	BUTT WELD	1998-C
2848-16	W11	3"	BUTT WELD	2002-C
2848-16	W12	3"	BUTT WELD	2002-C
2848-16	W13	3"	BUTT WELD	2001-S
2848-16	W14	3"	BUTT WELD	2001-S
2848-16	W15	3"	BUTT WELD	2001-S
2848-16	W16	3"	BUTT WELD	2001-S
2848-16	W17	2 1/2"	BUTT WELD	1997-S
2848-16	W18	2 1/2"	BUTT WELD	1997-S
2848-16	W18	2 1/2"	BUTT WELD	1997-C
2848-16	W2	3"	BUTT WELD	2004-S
2848-16	W20	2 1/2"	BUTT WELD	1998-S
2848-16	W21	2 1/2"	BUTT WELD	1998-S
2848-16	W22	2 1/2"	BUTT WELD	1998-S
2848-16	W23	4"	BUTT WELD	1998-C
2848-16	W24	4"	BUTT WELD	1997-C
2848-16	W25	4"	BUTT WELD	2002-S
2848-16	W26	4"	BUTT WELD	2002-S
2848-16	W27	4"	BUTT WELD	2002-C
2848-16	W28	4"	BUTT WELD	2002-C
2848-16	W29	4"	BUTT WELD	1997-S
2848-16	W3	3"	BUTT WELD	2004-S
2848-16	W30	4"	BUTT WELD	2002-S
2848-16	W31	4"	BUTT WELD	1997-C
2848-16	W32	3"	BUTT WELD	2004-C



**REC WELD EXAMINATION SCHEDULE**

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-16	W33	3"	BUTT WELD	1997-C
2848-16	W34	3"	BUTT WELD	1998-S
2848-16	W35	3"	BUTT WELD	1998-S
2848-16	W36	4"	BUTT WELD	1997-S
2848-16	W3A	3"	BUTT WELD	2002-S
2848-16	W4	3"	BUTT WELD	2004-C
2848-16	W5	3"	BUTT WELD	1997-S
2848-16	W50	3"	BUTT WELD	2004-S
2848-16	W51	3"	BUTT WELD	1997-S
2848-16	W53	3"	BUTT WELD	2002-S
2848-16	W54	3"	BUTT WELD	2002-S
2848-16	W55	3"	BUTT WELD	2002-S
2848-16	W56	3"	BUTT WELD	2002-S
2848-16	W57	3"	BUTT WELD	2002-S
2848-16	W58	3"	BUTT WELD	1997-C
2848-16	W59	2 1/2"	BUTT WELD	1997-S
2848-16	W6	3"	BUTT WELD	1997-S
2848-16	W60	2 1/2"	BUTT WELD	1997-S
2848-16	W61	2 1/2"	BUTT WELD	1997-C
2848-16	W62	2 1/2"	BUTT WELD	1997-S
2848-16	W63	2 1/2"	BUTT WELD	1997-S
2848-16	W64	2 1/2"	BUTT WELD	1997-C
2848-16	W65	4"	BUTT WELD	2002-C
2848-16	W66	4"	BUTT WELD	2002-S
2848-16	W67	4"	BUTT WELD	2002-S
2848-16	W68	4"	BUTT WELD	2002-C
2848-16	W69	4"	BUTT WELD	1998-C
2848-16	W7	3"	BUTT WELD	1998-S
2848-16	W70	4"	BUTT WELD	1998-S
2848-16	W71	4"	BUTT WELD	2004-C
2848-16	W72	4"	BUTT WELD	2004-C



REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-16	W73	4"	BUTT WELD	2004-C
2848-16	W74	4"	BUTT WELD	2004-S
2848-16	W75	4"	BUTT WELD	1997-S
2848-16	W76	4"	BUTT WELD	1997-S
2848-16	W77	4"	BUTT WELD	1997-C
2848-16	W78	4"	BUTT WELD	1997-C
2848-16	W79	4"	BUTT WELD	2002-S
2848-16	W8	3"	BUTT WELD	1998-S
2848-16	W80	3"	BUTT WELD	1997-S
2848-16	W81	3"	BUTT WELD	1997-C
2848-16	W82	3"	BUTT WELD	1997-C
2848-16	W83	3"	BUTT WELD	1997-C
2848-16	W84	4"	BUTT WELD	1997-S
2848-16	W9	3"	BUTT WELD	2001-S
2848-16	WA	3"	BUTT WELD	1997-S
2848-16	WB	3"	BUTT WELD	2004-S
2848-16	WC	3"	BUTT WELD	2004-C
2848-16	WD	3"	BUTT WELD	2002-S
2848-16	WE	3"	BUTT WELD	1998-S
2848-16	WF	3"	BUTT WELD	2002-S
2848-16	WG	3"	BUTT WELD	1997-C
2848-16	WH	2 1/2"	BUTT WELD	1997-S
2848-16	WI	2 1/2"	BUTT WELD	2002-S
2848-16	WJ	2 1/2"	BUTT WELD	2002-S
2848-16	WK	2 1/2"	BUTT WELD	2002-S
2848-16	WL	2 1/2"	BUTT WELD	2002-S
2848-16	WM	2 1/2"	BUTT WELD	1998-S
2848-16	WN	2 1/2"	BUTT WELD	1997-C
2848-16	WO	4"	BUTT WELD	1997-S
2848-16	WP	4"	BUTT WELD	1997-S
2848-21	AJ	2 1/2"	BUTT WELD	2004-C

**REC WELD EXAMINATION SCHEDULE**

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-21	W1	2 1/2"	BUTT WELD	2002-S
2848-21	W10	2 1/2"	BUTT WELD	1998-S
2848-21	W2	2 1/2"	SOCKET WELD	
2848-21	W3	2 1/2"	BUTT WELD	2002-S
2848-21	W4	2 1/2"	BUTT WELD	1998-S
2848-21	W5	2 1/2"	BUTT WELD	2001-S
2848-21	W6	2 1/2"	BUTT WELD	2002-S
2848-21	W7	2 1/2"	BUTT WELD	2002-S
2848-21	W8	2 1/2"	BUTT WELD	1997-S
2848-21	W9	2 1/2"	BUTT WELD	1998-S
2848-21	WA	2 1/2"	BUTT WELD	1997-S
2848-21	WAA	2 1/2"	BUTT WELD	2004-S
2848-21	WAB	2 1/2"	BUTT WELD	1998-S
2848-21	WAJ	2 1/2"	BUTT WELD	2002-C
2848-21	WH	1 1/2"	SOCKET WELD	
2848-21	WI	2 1/2"	BUTT WELD	2002-S
2848-21	WJ	2 1/2"	BUTT WELD	2002-S
2848-22	W1	3"	BUTT WELD	2001-S
2848-22	W10	3"	BUTT WELD	1997-S
2848-22	W12	3"	BUTT WELD	2001-S
2848-22	W13	3"	BUTT WELD	2004-S
2848-22	W14	3"	BUTT WELD	2004-C
2848-22	W15	3"	BUTT WELD	2004-C
2848-22	W16	3"	BUTT WELD	2004-S
2848-22	W17	3"	BUTT WELD	1998-S
2848-22	W18	3"	BUTT WELD	2004-C
2848-22	W19	3"	BUTT WELD	1998-C
2848-22	W2	3"	BUTT WELD	2002-S
2848-22	W20	3"	BUTT WELD	2004-C
2848-22	W21	3"	BUTT WELD	2004-C
2848-22	W22	1 1/4"	SOCKET WELD	

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-22	W23	3"	BUTT WELD	2001-S
2848-22	W3	3"	BUTT WELD	2001-S
2848-22	W4	3"	BUTT WELD	2002-C
2848-22	W5	3"	BUTT WELD	2002-S
2848-22	W7	3"	BUTT WELD	1997-S
2848-22	W8	3"	BUTT WELD	2002-S
2848-22	W9	3"	BUTT WELD	1997-C
2848-22	WA	1 1/4"	SOCKET WELD	
2848-22	WB	3"	BUTT WELD	2004-C
2848-22	WE	3"	BUTT WELD	1998-C
2848-22	WF	1 1/4"	SOCKET WELD	
2848-22	WFA	3"	BUTT WELD	2001-S
2848-22	WG	1 1/4"	SOCKET WELD	
2848-22	WH	1 1/4"	SOCKET WELD	
2848-50	W1	4"	BUTT WELD	1997-S
2848-50	W2	4"	BUTT WELD	1997-S
2848-50	WA	4"	BUTT WELD	1997-S
2848-50	WB	4"	BUTT WELD	2002-C
2848-50	WF	4"	BUTT WELD	2004-C
2848-50	WFG	4"	BUTT WELD	1997-S
2848-50	WG	4"	BUTT WELD	2004-C
2848-50	WH	4"	BUTT WELD	2002-S
2848-50	WI	4"	BUTT WELD	2002-S
2848-50	WJ	4"	BUTT WELD	2004-C
2848-50	WK	4"	BUTT WELD	2004-S
2848-50	WL	4"	BUTT WELD	2004-C
2848-50	WM	4"	BUTT WELD	1997-S
2848-51	WAL	8"	BUTT WELD	1997-S
2848-51	WCB	8"	BUTT WELD	2001-C
2848-51	WCC	8"	BUTT WELD	2005-S
2848-51	WJA	8"	BUTT WELD	1997-S

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-51	WU	8"	BUTT WELD	1997-S
2848-51	WVV	8"	BUTT WELD	1997-S
2848-51	WW	8"	BUTT WELD	1997-S
2848-51	WX	8"	BUTT WELD	1997-S
2848-51	WY	8"	BUTT WELD	1997-S
2848-51	WZ	8"	BUTT WELD	1997-C
2848-54	W1	2 1/2"	BUTT WELD	2004-C
2848-54	W10	2 1/2"	SOCKET WELD	
2848-54	W11	2 1/2"	SOCKET WELD	
2848-54	W12	2 1/2"	BUTT WELD	2001-C
2848-54	W13	2 1/2"	BUTT WELD	2001-C
2848-54	W14	2 1/2"	SOCKET WELD	
2848-54	W15	2 1/2"	SOCKET WELD	
2848-54	W16	2 1/2"	BUTT WELD	2001-C
2848-54	W17	2 1/2"	BUTT WELD	2001-C
2848-54	W18	2 1/2"	SOCKET WELD	
2848-54	W19	2 1/2"	SOCKET WELD	
2848-54	W2	2 1/2"	BUTT WELD	2004-C
2848-54	W20	2 1/2"	BUTT WELD	2004-C
2848-54	W21	2 1/2"	BUTT WELD	2004-C
2848-54	W25	2 1/2"	BUTT WELD	2001-C
2848-54	W26	2 1/2"	BUTT WELD	2001-C
2848-54	W27	2 1/2"	BUTT WELD	1997-C
2848-54	W28	2 1/2"	BUTT WELD	1998-C
2848-54	W29	2 1/2"	BUTT WELD	1998-C
2848-54	W3	2 1/2"	BUTT WELD	2004-C
2848-54	W30	2 1/2"	BUTT WELD	2004-C
2848-54	W32	1"	SOCKET WELD	
2848-54	W33	1 1/2"	SOCKET WELD	
2848-54	W34	1 1/2"	SOCKET WELD	
2848-54	W4	2 1/2"	BUTT WELD	2002-C

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-54	W5	2 1/2"	BUTT WELD	2002-C
2848-54	W6	2 1/2"	BUTT WELD	1997-S
2848-54	W7	2 1/2"	BUTT WELD	1997-C
2848-54	W8	2 1/2"	BUTT WELD	2002-C
2848-54	W9	2 1/2"	BUTT WELD	2001-S
2848-54	WA	1"	SOCKET WELD	
2848-55	W1	3"	BUTT WELD	2004-C
2848-55	W10	3"	SOCKET WELD	
2848-55	W11	1 1/2"	SOCKET WELD	
2848-55	W12	1"	SOCKET WELD	
2848-55	W13	1"	BUTT WELD	
2848-55	W14	3"	BUTT WELD	2004-C
2848-55	W15	3"	SOCKET WELD	
2848-55	W16	3"	BUTT WELD	2004-C
2848-55	W17	3"	BUTT WELD	2001-S
2848-55	W18	3"	BUTT WELD	2001-S
2848-55	W19	3"	BUTT WELD	2001-S
2848-55	W2	3"	BUTT WELD	2004-C
2848-55	W20	3"	BUTT WELD	2001-S
2848-55	W21	3"	BUTT WELD	2001-C
2848-55	W22	3"	BUTT WELD	2001-C
2848-55	W23	3"	SOCKET WELD	
2848-55	W24	3"	SOCKET WELD	
2848-55	W25	3"	BUTT WELD	2004-C
2848-55	W26	3"	SOCKET WELD	
2848-55	W27	3"	BUTT WELD	2001-C
2848-55	W28	3"	BUTT WELD	2001-C
2848-55	W29	3"	BUTT WELD	2001-C
2848-55	W3	3"	BUTT WELD	2004-C
2848-55	W4	3"	BUTT WELD	1997-S
2848-55	W5	3"	BUTT WELD	1997-S



**REC WELD EXAMINATION SCHEDULE**

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-55	W6	3"	BUTT WELD	2001-C
2848-55	W7	3"	BUTT WELD	2001-C
2848-55	W8	3"	BUTT WELD	2001-C
2848-55	W9	3"	SOCKET WELD	
2848-56	W1	3"	BUTT WELD	1997-S
2848-56	W10	3"	BUTT WELD	2001-C
2848-56	W11	3"	SOCKET WELD	
2848-56	W12	3"	BUTT WELD	2001-C
2848-56	W13	3"	BUTT WELD	2004-C
2848-56	W14	3"	BUTT WELD	2004-C
2848-56	W15	3"	BUTT WELD	2004-C
2848-56	W16	3"	BUTT WELD	2004-C
2848-56	W17	3"	BUTT WELD	1998-C
2848-56	W18	3"	BUTT WELD	1997-C
2848-56	W19	3"	BUTT WELD	1997-S
2848-56	W2	3"	SOCKET WELD	
2848-56	W20	3"	BUTT WELD	2001-C
2848-56	W21	3"	BUTT WELD	2001-C
2848-56	W22	3"	SOCKET WELD	
2848-56	W23	3"	SOCKET WELD	
2848-56	W24	1"	SOCKET WELD	
2848-56	W25	3"	BUTT WELD	2001-C
2848-56	W26	3"	BUTT WELD	2001-C
2848-56	W27	3"	BUTT WELD	2001-C
2848-56	W28	3"	SOCKET WELD	
2848-56	W29	3"	BUTT WELD	2001-C
2848-56	W3	3"	BUTT WELD	1997-S
2848-56	W30	3"	BUTT WELD	2001-C
2848-56	W31	3"	BUTT WELD	2001-C
2848-56	W4	3"	SOCKET WELD	
2848-56	W5	3"	BUTT WELD	1997-S



REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-56	W6	3"	BUTT WELD	1997-C
2848-56	W7	3"	BUTT WELD	1997-C
2848-56	W8	3"	BUTT WELD	2001-C
2848-56	W9	3"	BUTT WELD	2001-C
2848-56	WA	1 1/4"	SOCKET WELD	
2848-57	W1	2 1/2"	BUTT WELD	1997-S
2848-57	W10	2 1/2"	SOCKET WELD	
2848-57	W11	2 1/2"	SOCKET WELD	
2848-57	W12	2 1/2"	BUTT WELD	2001-C
2848-57	W13	2 1/2"	BUTT WELD	2001-C
2848-57	W14	2 1/2"	BUTT WELD	2001-C
2848-57	W15	2 1/2"	SOCKET WELD	
2848-57	W16	2 1/2"	BUTT WELD	2001-C
2848-57	W17	2 1/2"	BUTT WELD	1998-C
2848-57	W18	2 1/2"	BUTT WELD	1998-C
2848-57	W19	2 1/2"	BUTT WELD	2001-C
2848-57	W2	2 1/2"	SOCKET WELD	
2848-57	W20	2 1/2"	BUTT WELD	2001-S
2848-57	W21	2 1/2"	BUTT WELD	2001-C
2848-57	W22	2 1/2"	BUTT WELD	2001-C
2848-57	W23	2 1/2"	SOCKET WELD	
2848-57	W24	2 1/2"	BUTT WELD	2001-C
2848-57	W25	2 1/2"	BUTT WELD	2001-C
2848-57	W26	2 1/2"	SOCKET WELD	
2848-57	W27	2 1/2"	BUTT WELD	2001-C
2848-57	W29	2 1/2"	BUTT WELD	2001-C
2848-57	W3	2 1/2"	BUTT WELD	1997-C
2848-57	W30	2 1/2"	BUTT WELD	1998-C
2848-57	W31	2 1/2"	BUTT WELD	1998-S
2848-57	W32	2 1/2"	BUTT WELD	1998-C
2848-57	W33	1 1/4"	SOCKET WELD	

REC WELD EXAMINATION SCHEDULE

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-57	W34	2 1/2"	BUTT WELD	1998-C
2848-57	W4	2 1/2"	BUTT WELD	1997-S
2848-57	W5	2 1/2"	BUTT WELD	1997-S
2848-57	W6	2 1/2"	BUTT WELD	2001-C
2848-57	W7	2 1/2"	BUTT WELD	2001-C
2848-57	W8	2 1/2"	SOCKET WELD	
2848-57	W9	2 1/2"	BUTT WELD	2001-C

Notes:       "-S" Indicates scheduled examination  
              "-C" Indicates contingent examination

11.13

### INSPECTION OF JET PUMP SENSING LINES

General Electric Company Service Information Letter (SIL) No. 420, dated March 28, 1985, documents the discovery of fatigue failures (cracking) of the Jet Pump sensing lines and sensing line support brackets in the reactor vessel of two domestic BWRs. SIL 420 recommends that the Jet Pump sensing lines and brackets receive a visual (VT) examination when convenient due to the effect of failures on Jet Pump flow surveillance and Technical Specification requirements. SIL No. 574 identified an additional concern with the adjusting screw tac welds and recommended that they also be visually examined.

CNS performs visual examination (VT-3) of the Jet Pump sensing lines, sensing line brackets, and adjusting screws during each inspection period in conjunction with scheduled ISI examinations. Requirements for this examination are included in the CNS In-vessel Visual Inspection Procedure VT-6 (Tab 19 of the NDE Procedures section).

11.14

### STEAM SEPARATOR

The Steam Separator shall be visually examined (VT-3) once per inspection interval in accordance with the CNS procedure for RPV internals, invessel visual examination. The examination shall include the:

1. General structural integrity of the separator
2. Condition of the lifting lugs and welds
3. Condition of outer peripheral (top and bottom) standpipes and welds
4. Condition of the shroud head bolts
5. Condition of the locking collar assembly for wear

The VT-3 examination of the shroud head bolts (items 4 & 5) will be carried out in conjunction with the augmented ultrasonic examination of the shroud head bolts.

11.15

**REACTOR CORE SHROUD**

- REFERENCES:
1. USNRC Generic Letter 94-03, dated July 25, 1994: Intergranular Stress Corrosion Cracking of Core Shrouds In Boiling Water Reactors.
  2. Letter dated August 26, 1994, G. R. Horn to USNRC: Response to Generic Letter 94-03 - Core Shroud Cracking.
  3. Letter dated July 14, 1994, G. R. Horn to USNRC: Core Shroud Inspection Plan.

In reference 2, CNS committed to perform an inspection of the Core Shroud during the 1995 refueling outage. CNS provided the core shroud inspection plan, flaw evaluation criteria, and repair plan in reference 3. The frequency and extent of future examinations of the Core Shroud have not been determined at this time.

11.16

### INSTRUMENT NOZZLE SAFE ENDS

Augmented supplemental volumetric examinations of the entire instrument nozzle safe end for nozzles N10, N11A/B, N12A/B, and N16A/B will be performed when flaws are detected during the scheduled surface examination in accordance with the ISI program. The surface examination will be extended to cover the entire nozzle safe end. These examinations are recommended in GE SIL No. 571.



11.17

### TOP GUIDE

A visual inspection of the Top Guide Beams of 50 cubicles was performed during the 1991 refueling outage in accordance with GE RICSIL No. 059. No visual indications of cracking were observed. SIL No. 554 did not report any additional cracking in the Top Guides and closed RICSIL 059. Although SIL 554 recommends inspection of additional top guide cubicles, it does not document any new cracking. CNS will continue to examine the Top Guide during the scheduled in vessel visual inspections (IVVI) required by the Code.

11.18

### TOP GUIDE & CORE PLATE

A visual examination of the members which provide the load path between the alignment pins, the Top Guide, and the Core Shroud will be performed during the in vessel visual examinations required by the Code as recommended by GE SIL No. 588 R1.

11.19

**JET PUMP RISER BRACE**

A visual inspection of the Jet Pump riser braces will be performed in conjunction with scheduled ISI examinations each inspection period per GE SIL 551.

11.20

**REFUELING PLATFORM**

A visual examination (VT-3) of the refueling platform structural integrity will be performed once every five years per GE recommendation (CNSS948614).

12.0 LIST OF APPLICABLE PIPING AND INSTRUMENTATION DIAGRAMS

BURNS & ROE DRAWING NUMBER	TITLE OF DIAGRAM
No. 2006, Sheet 1 of 5 No. 2006, Sheet 2 of 5 No. 2006, Sheet 3 of 5 No. 2006, Sheet 4 of 5 No. 2036, Sheet 1 of 2 No. 2077	Service Water System
No. 2022	Primary Containment Cooling & Nitrogen Inerting System
No. 2026	Reactor Vessel Instrumentation
No. 2027	Reactor Recirculation and Suppression Chamber Vent System
No. 2028	Reactor Building and Drywell Equipment Drain
No. 2030	Fuel Pool Cooling and Cleanup System
No. 2031, Sheet 1 of 2 No. 2031, Sheet 2 of 2	Reactor Building Closed Cooling Water System
No. 2032	High Conductivity Floor Drains
No. 2039	Control Rod Hydraulic
No. 2040	Residual Heat Removal
No. 2041	Main Steam - Reactor Building
No. 2042, Sheet 1 of 3	Reactor Water Cleanup
No. 2043	Reactor Core Isolation
No. 2044	High Pressure Coolant Injection
No. 2045, Sheet 1 of 2	Core Spray System
No. 2045, Sheet 2 of 2	Standby Liquid Control System
No. 2049	Condensate Supply
No. 2084	Standby Nitrogen Injection System

13.0

**LIST OF APPLICABLE PIPING ISOMETRIC DRAWINGS**

Burns and Roe P&ID No.	Applicable Isometric No.
Service Water System No. 2006, Sheet 1 of 5 No. 2006, Sheet 2 of 5	Jelco 2852-3 Jelco X2852-241 Jelco X2852-242
Service Water System No. 2006, Sheet 3 of 5	Jelco 2824-3 Jelco 2852-20, and 226
Service Water System No. 2006, Sheet 4 of 5	Jelco 2851-6 and 7 Jelco 2852-16, 18, 19, 53, and 223
Service Water System No. 2036, Sheet 1 of 2	Jelco 2852-5, 6, 7, 8, 9, 10, 22, 23, 50, 54, and 57 Jelco 2851-1 through 4
Service Water System No. 2077	Jelco 2852-24, 25, 26, 27, and 55 KVS-47-8 Jelco 2400-1, 3, 4, 6, and 7
Reactor Vessel Instrumentation No. 2026	Jelco X2506-204 Jelco X2507-204, 204A, 205, 206A, 207, 208, 218, 219, 220, 300, and 301
Reactor Recirculation and Suppression Chamber Vent System, No. 2027	CNS-RR-37 and 38 Impell ISO-RL-A and B CE Dwgs. 232-231, 239, 241-5, 242, 244, and 249 GE Dwgs. BA-3, BN-3, and BH-4 Yarway Dwgs. 021-043112 and 021- 102726
Reactor Building and Drywell Equipment Drain System, No. 2028	Jelco X2512-200 Jelco 2628-1 through 6
Reactor Building Closed Cooling Water System, No. 2031, Sheet 1 of 2	Jelco 2048-1 and 8
Reactor Building Closed Cooling Water System, No. 2031, Sheet 2 of 2	Jelco 2848-2, 7, 9, 14, 15, 16, 21, 22, 50, 51, 54, 55, 56, and 57 Jelco X2848-200 through 206
Control Rod Drive Hydraulic System No. 2039	RC Dwg CP-009 S&W Dwg 13095.19-EP-1A-2



Burns and Roe P&ID No.	Applicable Isometric No.
Residual Heat Removal System No. 2040	Jelco 2510-1, 3, and 4 Jelco 2511-1 Jelco 2512-1 Jelco 2624-1, 2, 3A, 3B, 3C, 4, 5, and 7 Jelco 2625-1 through 4 Jelco 2626-1, 2, 3, 4, and 6 SWECO Dwg H-82454
Main Steam System-Reactor Building No. 2041	GE Dwg 731E611, Sheet 4 of 8 Jelco 2506-1 through 3 Jelco X2506-201 Jelco 2601-2 and 3 Jelco 2614-2 Jelco 2629-2 and 50
Reactor Water Cleanup System No. 2042, Sheet 1 of 3	Jelco 2503-1 Jelco X2503-200
Reactor Core Isolation Cooling and Reactor Feed Systems, No. 2043	Jelco 2509-1 Jelco 2614-1 Jelco 2619-1 Jelco 2621-1 and 2 Jelco 2623-1 Jelco 2715-5
High Pressure Coolant Injection and Reactor Feed Systems, No. 2044	Jelco 2509-1 and 2 Jelco 2601-1 Jelco 2611-4 through 6 Jelco 2612-2 Jelco 2614-3 Jelco 2623-2 and 3 Jelco X2623-207 Jelco 2710-1 and 2 Jelco 2716-1
Core Spray System No. 2045, Sheet 1 of 2	Jelco 2501-1 Jelco 2502-1 Jelco 2602-1 and 2 Jelco 2603-1 through 4
Standby Liquid Control System No. 2045, Sheet 2 of 2	Jelco X2504--200 and 201

**14.0 NONDESTRUCTIVE EXAMINATION PROCEDURE LISTING**

The following nondestructive examination (NDE) procedures are used by the CNS ISI Program. The numbers listed in the VT, PT, MT, UT0, UT45, and UT60 columns of the component listing pages in the ISI Program correspond to the Index Number of the NDE procedure listed below that may be used for that examination. Where there is more than one procedure referenced for a specific examination, the option exists to use only one of the listed procedures. All NDE procedures listed below are on file at CNS. The most current revision of a referenced procedure approved by the CNS Station Operations Review Committee (SORC) will be used. CNS reserves the option to use other procedures than those listed provided they meet Code requirements and are approved by SORC and the Authorized Nuclear Inservice Inspector (ANII).

<b>INDEX NO.</b>	<b>PROCEDURE NUMBER</b>	<b>PROCEDURE TITLE</b>
1	GE-UT-300	Procedure for Manual Examination of Reactor Vessel Assembly Welds
2	GE-UT-308	Procedure for Manual Ultrasonic Examination of the RPV Flange Ligaments
3	GE-UT-303	Procedure for Manual Ultrasonic Examination of Nozzle Inner Radius Greater Than 10" Diameter
4	MIUSK-W812	Ultrasonic Examination of Support Skirt to Reactor Pressure Vessel Welds
5	MIUB-W812	Procedure for the Ultrasonic Examination of Pressure Retaining Bolting Two Inches or Greater in Diameter
6	GE-UT-106	Procedure for Ultrasonic Examination of Pressure Retaining Welds in Ferritic and Austenitic Piping and Components
7	GE-PT-100	Procedure for Color Contrast Liquid Penetrant Examination
8	IV1-W812	Procedure for VT-1 Visual Examination
9	IV2-W812	Procedure for VT-2 Visual Examination
10	GE-VT-100	Procedure for VT-3 Visual Examination
11	VT-CNS-104VO	Procedure for VT-4 Visual Examination
12	MIUB-NXI2	UT of Non-ASME Bolts and Studs
13	GE-UT-305	Procedure for Manual Ultrasonic Examination of Nozzle Inner Radius and Bore Regions on Small Bore Nozzles

INDEX NO.	PROCEDURE NUMBER	PROCEDURE TITLE
14	GE-PT-101	Procedure for Liquid Penetrant Examination of Nozzle Inner Radius and Bore Areas
15	GE-MT-101	Procedure for Wet Fluorescent Magnetic Particle Examination
16	GE-MT-100	Procedure for Magnetic Particle Examination
17	GE-UT-205	Procedure for Automated Ultrasonic Examination of Pressure Retaining Welds in Ferritic and Austenitic Piping Components
18	GE-UT-208	Procedure for Automated Ultrasonic Examination of Similar and Dissimilar Piping Welds for IGSCC
19	VT-06	Procedure for Cooper Nuclear Station Reactor Pressure Vessel Internal In-vessel Visual Inspection (IVVI)
20	GE-UT-600	Procedure for Ultrasonic Thickness Measurements of Nuclear Components
21	GE-UT-601	Procedure for Ultrasonic Thickness Measurements for Erosion/Corrosion
22	GE-UT-301	Procedure for Manual Ultrasonic Examination of Pressure Retaining Vessel Welds Less Than Two Inches in Thickness
23	GE-UT-307	Procedure for Ultrasonic Examination of RPV Closure Studs
24	GE-UT-309	Planer Flaw Sizing for Nozzle Inner Radius and Bore Regions
25	GE-UT-310	Verification of Feedwater Sparger Secondary Thermal Sleeve Location
26	GE-UT-102	Procedure for Manual Ultrasonic Examination of Similar and Dissimilar Piping Welds for IGSCC
27	GE-UT-104	Procedure for Manual Ultrasonic Planer Flaw Sizing
28	GE-UT-105	Procedure for Manual Ultrasonic Examination of Dissimilar Metal Nozzle-to-Safe End Welds
29	GE-UT-209	Procedure for Automated Ultrasonic Examination of Dissimilar Metal Nozzle-to-Safe End Welds
30	GE-UT-400	Procedure for Remote Ultrasonic Examination of RPV Welds

INDEX NO.	PROCEDURE NUMBER	PROCEDURE TITLE
31	GE-UT-402	UT Alternative to NUREG 0619 Nozzle Radius and Bore PT Requirement
32	GE-UT-501	Procedure for Remote, Ultrasonic Examination of Shroud Head Hold-Down Bolting
33	TP-508-1477	Procedure for the Ultrasonic Inspection of Bell Housing-Type Recirculation Pump Shafts
34	C-IVCI-01	Cooper In vessel Clearance Verification Procedure
35	246-GP-48	Procedure for Control Rod Blade Inspection
36	GE-ADM-1001	Procedure for Performing Linearity Checks on Ultrasonic Instruments
37	GE-ADM-1002	Procedure for Review Process and Analysis of Recorded Indications
38	GE-ADM-1003	Procedure for Operational Guidelines with "Smart UT" System
39	GE-ADM-1005	Procedure for Zero Reference and Data Recording for Non-Destructive Examination
40	GE-ADM-1006	Procedure for Compliance with U.S. NRC Regulatory Guide 1.150
41	CUT-1.1	UT Demonstration Showing Acoustically Similar Material Characteristics
42	TP-527-1509	Automated Ultrasonic Procedure for the Evaluation of Manually Detected Ultrasonic Indications in RPV Closure Studs
43	GE-NE-508-0492	Electrical Discharge Machining Procedure
44	GE-UT-500	Procedure for Ultrasonic Examination of Jet Pump Beams in Boiling Water Reactors (BWR 4/5/6)
45	GE-ADM-1010	RPV Component Vacuum Instructions
46	GE-ADM-1011	RPV Hydrolazing Instructions
47	GE-UT-211	Procedure for Automated Ultrasonic Examination of Shroud Supports Access Hole Cover Plates with SMART 2000

### 15.0 Ultrasonic Calibration Blocks

Ultrasonic calibration blocks listed on the following pages are used in performing examinations required by both the Inservice Inspection (ISI) and Augmented Inservice Inspection (AISI) Programs. They have been designed and procured in accordance with applicable Code and regulatory requirements, and GE recommendations, to the extent practical (reference relief request RI-02).



CALIBRIATION BLOCKS

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

STD NO.	CNSNO...	SIZE..	SCH...	TKNS.....	SCHED	MAT'L.....	ID.STAMP.....	HT.NO.....	DRAWING.NO.....	RELREQ	REMARKS.....
1	19172	3		160	0.438	J P1	CNS-GE-3-120-C	N32750	GEC-1006		RI-02
2	19173	4		160	0.531	J P1	CNS-GE-4-140-C	L45042	GEC-1007		RI-02
3	19174	6		160	0.719	J P1	CNS-GE-6-160-C	N55590	GEC-1008		RI-02
4	19175	10		120	0.844	H P1	CNS-GE-10-120-C	N54958	GEC-1009		RI-02
5	19176	12		160	1.312	J P1	CNS-GE-12-140-C	86A309	GEC-1010		RI-02
6	19177	14		160	1.406	J P1	CNS-GE-14-160-C	52918	GEC-1011		RI-02
7	19178	16		160	1.594	J P1	CNS-GE-16-160-C	21077	GEC-1012		RI-02
8	19179	20		NA	1.500	NA ---	CNS-GE-20-C	M52851	GEC-1013		RI-02 A-515.GR.7
9	19180	3		80	0.300	F P12	CNS-GE-3-80-SS	M6445	GEC-1014		RI-02
10	19181	4		80	0.377	F P12	CNS-GE-4-80-SS	80359	GEC-1015		RI-02
11	19182	6		80	0.432	F P12	CNS-GE-6-80-SS	47779	GEC-1016		RI-02
12	19183	10		80	0.594	F P15	CNS-GE-10-80-SS	651345	GEC-1017		RI-02
13	19184	12		80	0.688	F P14	CNS-GE-12-80-SS	DXR8155	GEC-1018		RI-02
14	19185	20		NA	1.500	NA P12	CNS-GE-20-80-SS	316086-1A	GEC-1019		RI-02 FLAT BLOCK
15	19186	RPV		NA	4.000	NA ---	CNS.CAL.STD.NO.15	C-2274-1	GEC-1020		RI-02 SA-533.GR.8
16	19187	RPV		NA	7.100	NA ---	CNS.CAL.STD.NO.16	C-2274-1	GEC-1021		RI-02 SA-533.GR.8
17	19188	6		160	0.719	J P12	CNS-GE-6-160-SS	M2857	GEC-1002		RI-02
18	19189	4		160	0.531	J P12	CNS-GE-4-160-SS	M2951	GEC-1001		RI-02
19	19190	16		80	0.750	NA P1	CNS-GE-16-75-CS	L64209	GEC-1003		RI-02
20	19191	6		160	0.700	J RPV1/P18	CRD.CAP	15342/NX8608	GEC-1022		RI-02 WELDED.STANDARD.CARBON.STEEL/I NCONEL
21	19192	D6.35		NA	L48.875	NA S1	CNS.CAL.STD.NO.21	44709	GEC-1004		RI-02 SA-540.GR.B24.RPV.CLOSURE.STUD
22	19193	NA		NA	.000	NA ---	CNS.CAL.STD.NO.22	DB4528	GEC-1023		RI-02 NOZZLE INNER.RADIUS.ZONE.1.&.2 .TRANSFER.BLOCK A-285.GR.C
23	19194	D2.75		NA	L18.750	N/A S1	CNS.CAL.STD.NO.23	44709	GEC-1005		RI-02 SA-540.GR.B24.REACTOR.RECIRC.B OLT
24	19195	NA		NA	7.150	NA ---	CNS.CAL.STD.NO.24	DB4528	GEC-1030		RI-02 N1.NIR.ZONE.3 A-285.GR.C
25	19196	NA		NA	4.031	NA ---	CNS.CAL.STD.NO.25	DB4528	GEC-1059		RI-02 N2.NIR.ZONE.3 A-285.GR.C
26	19197	NA		NA	7.000	NA ---	CNS.CAL.STD.NO.26	DB4528	GEC-1060		RI-02 N3.NIR.ZONE.3 A-285.GR.C
27	19198	NA		NA	5.515	NA ---	CNS.CAL.STD.NO.27	DB4528	GEC-1061		RI-02 N4.NIR.ZONE.3 A-285.GR.C
28	19199	NA		NA	5.000	NA ---	CNS.CAL.STD.NO.28	DB4528	GEC-1062		RI-02 N5.NIR.ZONE.3 A-285.GR.C
29	19200	NA		NA	0.625	NA ---	CNS.CAL.STD.NO.29	DB4528	GEC-1063		RI-02 N8.NIR.ZONE.3 A-285.GR.C
30	19201	NA		NA	3.000	NA ---	CNS.CAL.STD.NO.30	DB4528	GEC-1064		RI-02 N9.NIR.ZONE.3 A-285.GR.C
31	19202	4		160	0.531	J P12	CNS.CAL.STD.NO.31	M2951	GEC-1024		RI-02 TP304
32	19203	5		160	0.625	J P17	CNS.CAL.STD.NO.32	386576	GEC-1024		RI-02 TP304
33	19204	10		140	1.000	I P17	CNS.CAL.STD.NO.33	9709	GEC-1024		RI-02 TP304
34	19205	12		60	0.562	E P17	CNS.CAL.STD.NO.34	27647	GEC-1024		RI-02 TP304
35	19206	22		80	1.277	F P17	CNS.CAL.STD.NO.35	3E4745	GEC-1024		RI-02 TP304
36	19207	24		60	0.968	E P17	CNS.CAL.STD.NO.36	817104	GEC-1024		RI-02 TP304
37	19208	24		80	1.218	F P17	CNS.CAL.STD.NO.37	3E4745	GEC-1024		RI-02 TP304
38	19209	28		NA	1.138	NA P17	CNS.CAL.STD.NO.38	3E4745	GEC-1024		RI-02 TP304
39	19210	20		80	1.031	F P17	CNS.CAL.STD.NO.39	3E4140	GEC-1024		RI-02 TP304
40	19211	46		NA	0.750	NA P1	CNS.CAL.STD.NO.40	J31386	GEL-1050A		RI-02 FLAT BLOCK
41	NA*	12		120	1.000	NA S.S	11-12-09	78158	-----		RI-02 * LASALLE.BLOCK-BORROWED *



CALIBRIATION BLOCKS

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

STD NO.	CNSNO...	SIZE..	SCH...	TKNS.....	SCHED	MAT'L.....	ID.STAMP.....	HT.NO.....	DRAWING.NO.....	RELREQ	REMARKS.....
42	19212	8	80	0.500	F	P1	CNS.CAL.STD.NO.42	N98260	GEC-1065	RI-02	SA-106.GR.B CRD-SDV
43	19213	8	80	0.500	F	P2	CNS.CAL.STD.NO.43	A22256	GEC-1065	RI-02	SA-333.GR.6 CRD-SDV
44	19214	NA	NA	0.998	NA	S.S	07-16-83	-----	-----	RI-02	DELTA.W.SIZING,FLAT.IGSCC.INDI CATIONS
45	19234	NA	NA	0.600	NA	S.S	07-16-83	-----	-----	RI-02	DELTA.W.SIZINGH,FLAT.IGSCC.IND ICATIONS
46	19215	NA	NA	0.445	NA	S.S	07-16-83	-----	-----	RI-02	DELTA.W.SIZING,FLAT.IGSCC.INDI CATIONS
47	NA*	10		0.900	NA	S.S	DWG.TS-D-1076			RI-02	* OVERLAY.CLAD.BLOCK *
48	19216	6	80	0.432	F	P20	CNS-48-6-80-SS	D411303	CP-1079/1.OF.4	RI-02	RWCU
49	19217	10	80	0.593	F	P20	CNS-49-10-80-SS	D460703	CP-1079/2.OF.4	RI-02	CORE SPRAY
50	19218	12	80	0.687	F	P20	CNS-50-12-80-SS	D431604	CP-1079/2.OF.4	RI-02	RECIRC. RISERS
51	19219	13	NA	1.125	NA	P20	CNS-51-13-1.125-SS	D421504	CP-1079/2.OF.4	RI-02	(FROM 28") CORE SPRAY SE TO NOZ
52	19220	14	140	1.280	I	P20	CNS-52-14-140-SS	D421504	CP-1079/2.OF.4	RI-02	(FROM 28") RECIRC RISER SE TO NOZ
53	19221	20	80	1.030	F	P20	CNS-53-20-80-SS	D421504	CP-1079/3.OF.4	RI-02	(FROM 28") RHR SUCT. RECIRC. A LOOP
54	19222	22	80	1.125	F	P20	CNS-54-22-80-SS	D421504	CP-1079/3.OF.4	RI-02	(FROM 28") RECIRC HEADER TO CROSS
55	19223	24	80	1.218	F	P20	CNS-55-24-80-SS	D421504	CP-1079/3.OF.4	RI-02	(FROM 28") RHR DISCHARGE/RTN A & B LOOPS
56	19224	28	NA	1.250	NA	P20	CNS-56-28-1.25-SS	D421504	CP-1079/4.OF.4	RI-02	RECIRC SUCT
57	19225	29	NA	1.935	NA	P20	CNS-57-29-1.935-SS	P33761	CP-1079/4.OF.4	RI-02	RECIRC SUCT NOZ TO SE
58	19226	30	NA	2.250	NA	P20	CNS-58-30-2.25-SS	P33761	CP-1079/4.OF.4	RI-02	RECIRC RHR TEE TO CROSS
59	19227	29	NA	1.620	NA	RPV3	CNS-59-29-1.620-CS	60575	CP-1080/3.OF.3	RI-02	RECIRC SUCT NOZ TO SE
60	19228	14	NA	0.772	NA	RPV3	CNS-60-14-.972-CS	127308	CP-1080/2.OF.3	RI-02	RECIRC OUTLET SE TO NOZ
61	19229	13	NA	0.844	NA	RPV2	CNS-61-13-.844-CS	6X11375	CP-1080/1.OF.3	RI-02	CORE SPRAY SE-NOZ
62	FUTURE	4	160	0.531		F22					
63	FUTURE	4	160	0.531		P2					
64	FUTURE	4	80	0.337		F19					
65	FUTURE	4	80	0.337		P14					
66	FUTURE	6	120	0.532		P14					
67	FUTURE	6	120	0.562		F22					
68	FUTURE	6	120	0.562		P2					
69	FUTURE	6	120	0.562		P6					
70	FUTURE	6	120	0.562		P9					
71	FUTURE	8	80	0.500		F19					
72	24952	8	EH	0.875	DBLE	P2	CNS-72-8-.875	N87641	CP-1094/2.OF.3	RI-02	
73	20964	8	100	0.593	G	P1	CNS-73-8-100-CS	21285	CP-1087/3.OF.5	RI-02	SEE DRWG CP-1087/1.OF.5 FOR NOTES
74	FUTURE	8	100	0.593		F1					
75	20966	8	120	0.718	H	P1	CNS-75-8-120-CS	21285	CP-1087/3.OF.5	RI-02	SEE DRWG CP-1087/1.OF.5 FOR NOTES

CALIBRIATION BLOCKS

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

STD NO.	CNSNO...	SIZE..	SCH...	TKWS.....	SCHED	MAT'L.....	ID.STAMP.....	HT.NO.....	DRAWING.NO.....	RELREQ	REMARKS.....
76	FUTURE	8		120		F1					
77	24953	10		100	G	P1	CNS-77-10-.719	44581	CP-1094/2.OF.3		RI-02 ACOUSTIC EQV1. OF F1
78	20965	10		100	G	P1	CNS-78-10-100-CS	L80291	CP-1087/3.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
79	24956	10		100	G	P2	CNS-79-10-.631	51075	CP-1-94/2.OF.3		RI-02
80	FUTURE	10		80		F1					
81	FUTURE	10				F1					HPCI PUMP
82	FUTURE	12		60		F1					
83	24594	12		120	H	P2	CNS-83-12-1.00	7L049	CP-1094/1.OF.3		RI-02
84	FUTURE	12		120		F22					
85	20967	12		160	J	P2	CNS-85-12-160-CS	52339	CP-1087/5.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
86	FUTURE	12		160		F22					
87	FUTURE	12		100		P1					
88	FUTURE	12		100		F1					
89	20974	14		100	G	P1	CNS-89-14-100-CS	W06199	CP-1087/3.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
90	FUTURE	14		100		F1					
91	FUTURE	14		120		P1					
92	FUTURE	14		140		F22					
93	FUTURE	16		80		P2					
94	FUTURE										
95	FUTURE	18		80		P2					
96	20963	18		100	G	P1	CNS-96-18-100-CS	202	CP-1087/2.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
97	20962	18		160	J	P1	CNS-97-18-160-CS	651695	CP-1087/2.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
98	FUTURE	18		140		F22					
99	FUTURE	18		140		P2					
100	20973	18		120	H	P1	CNS-100-18-120-CS	C3590	CP-1087/2.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
101	20972	18		40	D	P1	CNS-101-18-40-CS	02.511	CP-1087/4.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
102	20971	20		40	D	P1	CNS-102-20-40-CS	651314	CP-1087/4.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
103	20970	20		80	F	P1	CNS-103-20-80-CS	953042	CP-1087/1.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
104	20969	24		30	C	P1	CNS-104-24-30-CS	541702	CP-1087/4.OF.5		RI-02 SEE DRWG CP-1087/1.OF.5 FOR NOTES
105	FUTURE	20		80		P12					
106	20968	24		80	F	P1	CNS-106-24-80-CS	652031	CP-1087/1.OF.5		RI-02 ORIG P3 MATERIAL IS OBSOLETE, P1 IS SUBSTITUTE
107	19230	5.5		NA	NA	F27	CNS-107-5.5-.812-SS	DCN	CP-1082		RI-02 JET PUMP INST. SAFE END
108	19231	9		NA	NA	F27	CNS-108-9-1.575-SS	165038	CP-1083		RI-02 RHR-RWCJ ELBOWLET

CALIBRATION BLOCKS

COOPER NUCLEAR STATION  
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STD NO.	CNSNO...	SIZE..	SCH...	TKNS.....	SCHED	MAT'L.....	ID.STAMP .....	HT.NO.....	DRAWING.NO.....	RELREQ	REMARKS.....
109	19232	5.5	NA	0.625	NA	RPV1	CNS-109-5.5-.625-CS	Q2Q133NQT	CP-1084	RI-02	JET PUMP INST. NOZ
110	19233	4	80	0.337	F	F27	CNS-110-4-80-SS	DCN	CP-1085	RI-02	RECIRC SYSTEM DECON FLANGE
111	NA*	14	NA	1.160	NA	C/S/I	GE-61	BXZ/CPA	-----	RI-02	* GE SUPPLIED * (TRI-METAL) FOR (N2) SAFE END TO NOZ EXAMS *
112	NA*	28	NA	1.310	NA	C/S/I	INC-BUT-002	1G4866	-----	RI-02	* GE SUPPLIED * (TRI-METAL) FOR (N1) NOZ TO SAFE END EXAMS *
113	24998	24	NA	1.063	NA	P2	CNS-113-24-1.063	L25740	CP-1094/3.OF.3	RI-02	ACCOUST EQV. OF F22
114	24997	24	NA	1.063	NA	P3	CNS-114-24-1.063	KSSI	CP-1094/3.OF.3	RI-02	
115	24999	24	NA	1.593	NA	P3	CNS-115-24-1.593	KSSI	CP-1094/3.OF.3	RI-02	
116	28036	D6.25	NA	148.875	NA	S1	CNS.CAL.STD.NO.116	14677	SK-JR10-5	RI-02	RPV STUD CAL. BLK. FOR HTR. HOLE UT EXAM
117	NA*	NA	NA	2.598	NA	INC	TAPBA9-004	-----	103E1508	RI-02	* GE SUPPLIED * FOR ACCESS HOLE COVER EXAM (INCONEL-600), ALSO STAMPED: H-GE 2.5 CIRC.008 AHC *
118	NA*	NA	NA	2.0175	NA	INC	TAPBA9-005	-----	103E1508	RI-02	* GE SUPPLIED * FOR ACCESS HOLE COVER (INCONEL-600), ALSO STAMPED: GE 2.0 AXIAL AHC *
119	NA*	NA	NA	NA	NA	INC	42	58C3XS	921D4621-HI	RI-02	* GE SUPPLIED * FOR JET PUMP BEAM (INCONEL-750) *
120	NA*	NA	NA	13.000	NA	INC	12D4724	NX5561	12D4724	RI-02	* GE SUPPLIED * FOR SHROUD HEAD BOLT EXAM (INCONEL-600), ALSO STAMPED: GR NO.1 *
121	NA*	12	NA	1.300	NA	INC	GEINC182SENOZNO.001	-----	-----	RI-02	* GE SUPPLIED * FOR (N2) SAFE END TO NOZ FOR GL 88-01 EXAMS *
122	32422	3	STD	.216		P1	CNS-122-3-.216-CS	L42671	CNS-REC-29	RI-02	REC UT
123	32423	2.5	STD	0.203		P1	CNS-123-2.5-.203-CS	N07998	CNS-REC-36	RI-02	REC UT
124	32424	12.0	80	0.688		P1	CNS-124-12-.688-CS	30417	CNS-REC-34	RI-02	REC UT, FLAT PLATE
125	32425	24	STD	.375			CNS-125-24-.375-CS	802J33020	SKE-PC-206	RI-02	PNC UT
126	32637	6	STD	0.280		P1	CNS-126-6-.280-CS	405060	CNS-REC-27	RI-02	REC UT

16.0

COMPONENT EXAMINATION SUMMARY LISTING

All components and component supports potentially subject to inservice NDE examination under the 1989 Edition of Section XI are contained in the following Tables.

The tables identify those components and component supports selected for examination during the third inspection interval and provides a schedule by period, for the applicable required examination to be performed. The components and component supports selected are those anticipated to be examined during the third interval; however, other components and component supports may be substituted based on access, ALARA considerations, scheduled maintenance, or proposed modifications. The total number of components and component supports for each Code Category and item number by system are provided in the tables.

Where regulatory requirements or specific CNS commitments impose additional examinations or use NDE techniques exceeding Code requirements, these augmented requirements are shown in the tables. The examination date will be used to satisfy both Code and augmented requirements, e.g., GL 88-01, NUREG 0619, GL 94-03, etc.

There are three tables divided by Code Class and sorted by; Code Category/Item No., System, Unique Mark No., Configuration, Scheduled Period, and required NDE examination method. The fourth table identifies the component supports required to be examined.

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	MT..	UT0..	UT45....	UT60....	PER	RELREQ	REMARKS.....
VCB-BB-1	NB	1	B1.11	VE-C	218	3.2/7.2	RPV 1 16		GE.BN-3		1	1	1	2		NOT ACCESSIBLE
VCB-BB-3	NB	1	B1.11	VE-C	218	6.2	RPV 1 16		GE.BN-3		1	1	1	2		NOT ACCESSIBLE
VCB-BA-2	NB	1	B1.11	VE-C	218	7.2/6.2	RPV 1 16		GE.BN-3		1	1	1	3	RI-06	RI-06 * NOT ACCESSIBLE... BELTLINE REGION WELD...
VCB-BB-4	NB	1	B1.11	VE-C	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3		
		4	***													
VLA-BA-1	NB	1	B1.12	VE-LS	218	7.2	RPV 1 16		GE.BN-3		1	1	1	3	RI-06	RI-06 * NOT ACCESSIBLE... BELTLINE REGION WELD...
VLA-BA-2	NB	1	B1.12	VE-LS	218	7.2	RPV 1 16		GE.BN-3		1	1	1	3	RI-06	RI-06 * NOT ACCESSIBLE... BELTLINE REGION WELD...
VLA-BA-3	NB	1	B1.12	VE-LS	218	7.2	RPV 1 16		GE.BN-3		1	1	1	3	RI-06	RI-06 * NOT ACCESSIBLE... BELTLINE REGION WELD...
VLB-BA-1	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3	RI-06	RI-06 * NOT ACCESSIBLE... BELTLINE REGION WELD...
VLB-BA-2	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3	RI-06	RI-06 * NOT ACCESSIBLE... BELTLINE REGION WELD...
VLB-BA-3	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3	RI-06	RI-06 * NOT ACCESSIBLE... BELTLINE REGION WELD...
VLC-BB-1	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3		PARTIALLY ACCESSIBLE
VLC-BB-2	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3		PARTIALLY ACCESSIBLE
VLC-BB-3	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3		PARTIALLY ACCESSIBLE
VLD-BB-1	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3		PARTIALLY ACCESSIBLE
VLD-BB-2	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3		PARTIALLY ACCESSIBLE
VLD-BB-3	NB	1	B1.12	VE-LS	218	6.2	RPV 1 16		GE.BN-3		1	1	1	3		PARTIALLY ACCESSIBLE
		12	***													
HMD-BB-1	NB	1	B1.21	BHD-C	218	7.1	RPV 1 16		GE.BA-3,BA-4		1	1	1	*		* NOT ACCESSIBLE...
HMC-BB-1	NB	1	B1.21	BHD-C	218	3.5	RPV 1 15		GE.BA-3,BA-4		1	1	1	2		0 TO 360 DAZ...
HMD-BB-2	NB	1	B1.21	THD-C	218	3.2	RPV 1 15		GE.BA-3,BA-4		1	1	1	3		0 TO 360 DAZ
		3	***													
HME-BB-1	NB	1	B1.22	THD-M	218	3.2	RPV 1 15		GE.BA-3,BA-4		1	1	1	1		
HME-BB-2	NB	1	B1.22	THD-M	218	3.2	RPV 1 15		GE.BA-3,BA-4		1	1	1	1		
HMA-BB-1	NB	1	B1.22	BHD-M	218	3.5	RPV 1 15		GE.BA-3,BA-4		1	1	1	2		
HMA-BB-2	NB	1	B1.22	BHD-M	218	3.5	RPV 1 15		GE.BA-3,BA-4		1	1	1	2		
HMA-BB-3	NB	1	B1.22	BHD-M	218	3.5	RPV 1 15		GE.BA-3,BA-4		1	1	1	2		
HMA-BB-4	NB	1	B1.22	BHD-M	218	3.5	RPV 1 15		GE.BA-3,BA-4		1	1	1	2		
HMA-BB-5	NB	1	B1.22	BHD-M	218	3.5	RPV 1 15		GE.BA-3,BA-4			1	1	2		
HMA-BB-6	NB	1	B1.22	BHD-M	218	3.5	RPV 1 15		GE.BA-3,BA-4			1	1	2		
HMA-BB-7	NB	1	B1.22	BHD-M	218	3.5	RPV 1 15		GE.BA-3,BA-4		1	1	1	2		

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	MT..	UT0..	UT45....	UT60....	PER	RELREQ	REMARKS.....
HMA-BB-8	NB	1	B1.22	BHD-M	218	3.5	RPV 1	15	GE.BA-3,BA-4		1	1	1	2		
HMB-BB-1	NB	1	B1.22	BHD-M	218	7.1	RPV 1	16	GE.BA-3,BA-4		1	1	1	2		RI-06 RI-06 ** PARTIALLY ACCESSIBLE
HMB-BB-2	NB	1	B1.22	BHD-M	218	7.1	RPV 1	16	GE.BA-3,BA-4		1	1	1	2		RI-06 RI-06 ** PARTIALLY ACCESSIBLE
HMB-BB-3	NB	1	B1.22	BHD-M	218	7.1	RPV 1	16	GE.BA-3,BA-4		1	1	1	2		RI-06 RI-06 ** PARTIALLY ACCESSIBLE
HMB-BB-4	NB	1	B1.22	BHD-M	218	7.1	RPV 1	16	GE.BA-3,BA-4		1	1	1	2		RI-06 RI-06 ** PARTIALLY ACCESSIBLE
HMB-BB-5	NB	1	B1.22	BHD-M	218	7.1	RPV 1	16	GE.BA-3,BA-4		1	1	1	2		RI-06 RI-06 ** PARTIALLY ACCESSIBLE
HMB-BB-6	NB	1	B1.22	BHD-M	218	7.1	RPV 1	16	GE.BA-3,BA-4		1	1	1	2		RI-06 RI-06 ** PARTIALLY ACCESSIBLE
HME-BB-3	NB	1	B1.22	THD-M	218	3.2	RPV 1	15	GE.BA-3,BA-4		1	1	1	2		
HME-BB-4	NB	1	B1.22	THD-M	218	3.2	RPV 1	15	GE.BA-3,BA-4		1	1	1	2		
HME-BB-5	NB	1	B1.22	THD-M	218	3.2	RPV 1	15	GE.BA-3,BA-4		1	1	1	2		
HME-BB-6	NB	1	B1.22	THD-M	218	3.2	RPV 1	15	GE.BA-3,BA-4		1	1	1	2		
HME-BB-7	NB	1	B1.22	THD-M	218	3.2	RPV 1	15	GE.BA-3,BA-4		1	1	1	3		
HME-BB-8	NB	1	B1.22	THD-M	218	3.2	RPV 1	15	GE.BA-3,BA-4		1	1	1	3		
		22	***													
VCB-BC5-1	NB	1	B1.30	VE-F	218	6.2	RPV 1	16	GE.BN-3		1	1	1	1		7 TO 127 DAZ...
VCB-BC5-2	NB	1	B1.30	VE-F	218	6.2	RPV 1	16	GE.BN-3		1	1	1	2		127 TO 248 DAZ...
VCB-BC5-3	NB	1	B1.30	VE-F	218	6.2	RPV 1	16	GE.BN-3		1	1	1	3		248 TO 7 DAZ...
		3	***													
VCB-BC6-1	NB	1	B1.40	THD-F	218	3.2	RPV 1	15	GE.BA-3,BA-4	16	1	1	1	1		0 TO 120 DAZ...
VCB-BC6-2	NB	1	B1.40	THD-F	218	3.2	RPV 1	15	GE.BA-3,BA-4	16	1	1	1	2		120 TO 240 DAZ...
VCB-BC6-3	NB	1	B1.40	THD-F	218	3.2	RPV 1	15	GE.BA-3,BA-4	16	1	1	1	3		240 TO 360 DAZ...
		3	***													
***		47														



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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	UT0..	UT45....	UT60....	PER RELREQ	REMARKS.....
NVIR-BD-N7	NB	1	B3.100	NIR	6	---	RPV 1	N/A	CE.232-244	14	13			1	RI-03 (RI-03 RELIEF REQUEST) N7 NOZ, RPV TP. HD, CENTER OF TP.HD
NVIR-BD-N1A	NB	1	B3.100	NIR	28	---	RPV 1	22,24	CE.232-231			3		1	CA - COMPOUND ANGLE
NVIR-BD-N2C	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		1	CA - COMPOUND ANGLE
NVIR-BD-N2F	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		1	CA - COMPOUND ANGLE
NVIR-BD-N2G	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		1	CA - COMPOUND ANGLE
NVIR-BD-N2H	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		1	CA - COMPOUND ANGLE
NVIR-BD-N3A	NB	1	B3.100	NIR	24	---	RPV 1	22,26	GE.731E611			3		1	CA - COMPOUND ANGLE
NVIR-BD-N4B	NB	1	B3.100	NIR	14	---	RPV 1	22,27	CE.232-231	14		3		1	CA - COMPOUND ANGLE, UT IN LIEU OF PT (NUREG 0619)
NVIR-BD-N4D	NB	1	B3.100	NIR	14	---	RPV 1	22,27	CE.232-231	14		3		1	CA - COMPOUND ANGLE, UT IN LIEU OF PT (NUREG 0619)
NVIR-BD-N2E	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		2	CA - COMPOUND ANGLE
NVIR-BD-N2J	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		2	CA - COMPOUND ANGLE
NVIR-BD-N2K	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		2	CA - COMPOUND ANGLE
NVIR-BD-N3B	NB	1	B3.100	NIR	24	---	RPV 1	22,26	GE.731E611			3		2	CA - COMPOUND ANGLE
NVIR-BD-N3D	NB	1	B3.100	NIR	24	---	RPV 1	22,26	GE.731E611			3		2	CA - COMPOUND ANGLE
NVIR-BD-N4A	NB	1	B3.100	NIR	14	---	RPV 1	22,27	CE.232-231	14		3		2	CA - COMPOUND ANGLE, UT IN LIEU OF PT (NUREG 0619)
NVIR-BD-N5A	NB	1	B3.100	NIR	10	---	RPV 1	22,28	CE.232-231			3		2	CA - COMPOUND ANGLE
NVIR-BD-N6B	NB	1	B3.100	NIR	6	---	RPV 1	N/A	CE.232-244	14		13		2	RI-03 (RI-03 RELIEF REQUEST) N6B NOZ, RPV TP.HD 180 DAZ
NVIR-BD-N9	NB	1	B3.100	NIR	5	---	RPV 1	16	CE.232-242			13		3	( N9 NOZ ) ALSO REF: GE DWG BA-2 AND BN-3, LOC DW 962' 146 DAZ, EXAM LIMITED DUE TO PROXIMITY RPV INSULATION SUPPORT RING
NVIR-BD-N1B	NB	1	B3.100	NIR	28	---	RPV 1	22,24	CE.232-231			3		3	CA - COMPOUND ANGLE
NVIR-BD-N2A	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		3	CA - COMPOUND ANGLE
NVIR-BD-N2B	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		3	CA - COMPOUND ANGLE
NVIR-BD-N2D	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		3	CA - COMPOUND ANGLE
NVIR-BD-N3C	NB	1	B3.100	NIR	24	---	RPV 1	22,26	GE.731E611			3		3	CA - COMPOUND ANGLE
NVIR-BD-N4C	NB	1	B3.100	NIR	14	---	RPV 1	22,27	CE.232-231	14		3		3	CA - COMPOUND ANGLE, UT IN LIEU OF PT (NUREG 0619)
NVIR-BD-N5B	NB	1	B3.100	NIR	10	---	RPV 1	22,28	CE.232-231			3		3	CA - COMPOUND ANGLE
NVIR-BD-N6A	NB	1	B3.100	NIR	6	---	RPV 1	N/A	CE.232-244	14		13		3	RI-03 (RI-03 RELIEF REQUEST) N6A NOZ, RPV TP.HD 0 DAZ,

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	UT0..	UT45....	UT60....	PER RELREQ	REMARKS.....
NVIR-BD-NBA	NBI	1	B3.100	NIR	5	---	RPV 1	22,29	CE.232-241			13		2	ALSO REF: GE DWG BA-3 AND BA-4
NVIR-BD-NBB	NBI	1	B3.100	NIR	5	---	RPV 1	16	CE.232-241			13		3	CA - COMPOUND ANGLE (LOC. DW. 928' 105 DAZ) CA - COMPOUND ANGLE ( NBB NOZ ) LOC. DW 928' 285 DAZ, ALSO REF: GE DWG BA-2 AND BN-3
		28	***												
NVE-BD-N7	NB	1	B3.90	N-VE	6	3.2	RPV 1	15	CE.232-244		1	1	1	1	( N7 NOZ ) RPV TP.HD, CENTER OF TP.HD
NVE-BD-N1A	NB	1	B3.90	N-VE	28	7.2	RPV 1	16	CE.232-231		1	1	1	1	
NVE-BD-N2C	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	1	
NVE-BD-N2F	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	1	
NVE-BD-N2G	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	1	
NVE-BD-N2H	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	1	
NVE-BD-N3A	NB	1	B3.90	N-VE	24	6.2	RPV 1	16	GE.731E611		1	1	1	1	
NVE-BD-N4B	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	CE.232-231		30	30	30	1	
NVE-BD-N4D	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	CE.232-231		30	30	30	1	
NVE-BD-N2E	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	2	
NVE-BD-N2J	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	2	
NVE-BD-N2K	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	2	
NVE-BD-N3B	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	GE.731E611		1	1	1	2	
NVE-BD-N3D	NB	1	B3.90	N-VE	24	6.2	RPV 1	16	GE.731E611		1	1	1	2	
NVE-BD-N4A	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	CE.232-231		30	30	30	2	
NVE-BD-N5A	NB	1	B3.90	N-VE	10	6.2	RPV 1	16	CE.232-231		1	1	1	2	( N5A NOZ ) LOC. DW. 962' 90 DAZ
NVE-BD-N6B	NB	1	B3.90	N-VE	6	3.2	RPV 1	15	CE.232-244		1	1	1	2	( N6B NOZ ) RPV TP.HD 180 DAZ
NVE-BD-N9	NB	1	B3.90	N-VE	5	6.2	RPV 1	16	CE.232-242		1	1	1	3	( N9 NOZ ) ALSO REF: GE DWG BA-2 AND BN-3, LOC DW 962' 146 DAZ, EXAM LIMITED DUE TO PROXIMITY OF RPV INSULATION SUPPORT RING AND THE N4A NOZZLE
NVE-BD-N1B	NB	1	B3.90	N-VE	28	7.2	RPV 1	16	CE.232-231		1	1	1	3	
NVE-BD-N2A	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	3	
NVE-BD-N2B	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	3	
NVE-BD-N2D	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231		1	1	1	3	
NVE-BD-N3C	NB	1	B3.90	N-VE	24	6.2	RPV 1	16	GE.731E611		1	1	1	3	
NVE-BD-N4C	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	CE.232-231		30	30	30	3	
NVE-BD-N5B	NB	1	B3.90	N-VE	10	6.2	RPV 1	16	CE.232-231		1	1	1	3	( N5A NOZ ) LOC. DW. 962'

IWB-2500-1 CAT: B-D

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: G  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	UT0..	UT45....	UT60....	PER RELREQ	REMARKS.....
NVE-BD-N6A	NB	1	B3.90	N-VE	6	3.2	RPV 1 15		CE.232-244		1	1	1	3	270 DAZ ( N6A NOZ ) RPV TP.HD 0 DAZ, ALSO REF: GE DWG BA-3 AND BA-4
NVE-BD-NBA	NBI	1	B3.90	N-VE	5	7.2	RPV 1 16		CE.232-241		1	1	1	2	( NBA NOZ ) LOC. DW. 928' 105 DAZ
NVE-BD-NBB	NBI	1	B3.90	N-VE	5	7.2	RPV 1 16		CE.232-241		1	1	1	3	( NBB NOZ ) LOC. DW. 928' 285 DAZ, ALSO REF: GE DWG BA-2 AND BN-3

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	ISO.....	VT.....	PER	REMARKS.....
NVE-BE-N10	SLC	1	B4.11	CE.232-242	6.3.10.28	3	
		1	***				
CRD 02-23	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 02-31	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 02-35	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 06-15	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 06-19	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 06-27	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 06-35	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 06-39	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 10-07	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 10-11	CRC	1	B4.12	GE.197R576	6.3.10.28		
CRD 10-19	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 10-23	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 10-27	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 10-31	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 10-35	CRD	1	B4.12	GE.197576	6.3.10.28		
CRD 10-43	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 10-47	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-07	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-11	CRC	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-15	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-19	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-23	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-31	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-35	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-43	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 14-47	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-03	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-11	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-15	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-23	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-27	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-31	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-39	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-43	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 18-51	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 22-03	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 22-07	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 22-15	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 22-19	CRD	1	B4.12	GE.197R576	6.3.10.28		
CRD 22-23	CRD	1	B4.12	GE.197R576	6.3.10.28		

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	ISO.....	VT.....	PER REMARKS.....
CRD 22-27	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 22-31	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 22-35	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 22-39	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 22-47	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 22-51	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 26-07	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 26-11	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 26-19	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 26-23	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 26-31	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 26-35	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 26-43	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 26-47	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-03	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-07	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-15	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-19	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-23	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-27	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-31	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-35	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-39	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-47	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 30-51	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-07	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-11	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-15	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-23	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-27	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-31	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-39	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-43	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-47	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 34-51	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 38-11	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 38-15	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 38-19	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 38-23	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 38-31	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 38-35	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 38-39	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 38-43	CRD	1	B4.12	GE.197R576		6.3.10.28
CRD 42-07	CRD	1	B4.12	GE.197R576		6.3.10.28

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	ISO.....	VT.....	PER REMARKS.....
CRD 42-19	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 42-23	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 42-27	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 42-31	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 42-35	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 42-43	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 42-47	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 46-11	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 46-15	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 46-19	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 46-27	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 46-35	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 46-39	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 50-19	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 50-23	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 50-27	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 50-31	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 50-35	CRD	1	B4.12	GE.197R576	6.3.10.28	
CRD 02-19	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 02-27	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 06-11	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 06-23	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 06-31	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 06-43	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 10-15	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 10-39	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 14-27	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 14-39	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 18-07	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 18-19	CRD	1	B4.12	GE.197R576	6.3.10.28	1
CRD 18-35	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 18-47	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 22-11	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 22-43	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 26-03	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 26-15	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 26-27	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 26-39	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 26-51	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 30-11	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 30-43	CRD	1	B4.12	GE.197R576	6.3.10.28	2
CRD 34-03	CRD	1	B4.12	GE.197R576	6.3.10.28	3
CRD 34-19	CRD	1	B4.12	GE.197R576	6.3.10.28	3
CRD 34-35	CRD	1	B4.12	GE.197R576	6.3.10.28	3



PIPE..... SYSTEM.. CNT. ITEM.NO. ISO..... VT..... PER REMARKS.....

CRD 38-07	CRD	1	B4.12	GE.197R576	6.3.10.28	3	
CRD 38-27	CRD	1	B4.12	GE.197R576	6.3.10.28	3	
CRD 38-47	CRD	1	B4.12	GE.197R576	6.3.10.28	3	
CRD 42-11	CRD	1	B4.12	GE.197R576	6.3.10.28	3	
CRD 42-15	CRD	1	B4.12	GE.197R576	6.3.10.28	3	
CRD 42-39	CRD	1	B4.12	GE.197R576	6.3.10.28	3	
CRD 46-23	CRD	1	B4.12	GE.197R576	6.3.10.28	3	
CRD 46-31	CRD	1	B4.12	GE.197R576	6.3.10.28	3	
CRD 46-43	CRD	1	B4.12	GE.197R576	6.3.10.28	3	

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NVE-BE-N11B	NBI	1	B4.13	CE.232-242	6.3.10.28		
NVE-BE-N16A	NBI	1	B4.13	CE.232-242	6.3.10.28		
NVE-BE-N16B	NBI	1	B4.13	CE.232-242	6.3.10.28		
NVE-BE-N11A	NBI	1	B4.13	CE.232-242	6.3.10.28	2	
NVE-BE-N12A	NBI	1	B4.13	CE.232-242	6.3.10.28	3	( N12A NOZ ) 40DAZ
NVE-BE-N12B	NBI	1	B4.13	CE.232-242	6.3.10.28	3	( N12B NOZ ) 225 DAZ
INCORE 12-13	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 12-21	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 12-29	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 12-37	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 12-41	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 12-45	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 20-13	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 20-17	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 20-21	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 20-25	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 20-29	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 20-33	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 20-37	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 28-13	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 28-21	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 28-25	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 28-29	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 28-33	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 28-37	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 28-41	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 36-13	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 36-21	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 36-25	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 36-29	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 36-37	NMS	1	B4.13	GE.197R576	6.3.10.28		
INCORE 36-41	NMS	1	B4.13	GE.197R576	6.3.10.28		

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	ISO.....	VT.....	PER REMARKS.....
INCORE 36-45	NMS	1	B4.13	GE.197R576	6.3.10.28	
INCORE 44-13	NMS	1	B4.13	GE.197R576	6.3.10.28	
INCORE 44-21	NMS	1	B4.13	GE.197R576	6.3.10.28	
INCORE 44-29	NMS	1	B4.13	GE.197R576	6.3.10.28	
INCORE 44-37	NMS	1	B4.13	GE.197R576	6.3.10.28	
INCORE 44-45	NMS	1	B4.13	GE.197R576	6.3.10.28	
INCORE 04-21	NMS	1	B4.13	GE.197R576	6.3.10.28	1
INCORE 04-29	NMS	1	B4.13	GE.197R576	6.3.10.28	1
INCORE 36-09	NMS	1	B4.13	GE.197R576	6.3.10.28	1
INCORE 04-37	NMS	1	B4.13	GE.197R576	6.3.10.28	2
INCORE 12-09	NMS	1	B4.13	GE.197R576	6.3.10.28	2
INCORE 12-33	NMS	1	B4.13	GE.197R576	6.3.10.28	2
INCORE 20-05	NMS	1	B4.13	GE.197R576	6.3.10.28	2
INCORE 20-45	NMS	1	B4.13	GE.197R576	6.3.10.28	3
INCORE 28-05	NMS	1	B4.13	GE.197R576	6.3.10.28	3
INCORE 28-45	NMS	1	B4.13	GE.197R576	6.3.10.28	3
INCORE 36-05	NMS	1	B4.13	GE.197R576	6.3.10.28	3

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IWB-2500-1 CAT: B-F

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	UTO..	UT45....	UT60....	PER	REMARKS.....
PCA-BF-1	CRD-R	1	B5.10	N-C	5	160	P18/RP 20		CE.232-241	7		28,29		3	( N9 NOZ ) GL 88-01, CAP MAT. IS NI.GR.FE AND INCONEL 182 WITH INCONEL 82 WELD FILLER METAL...
CSA-BF-1*	CS-A	1	B5.10	SE-N	13.44"	1.06	P20/RP 51/61/121		CNS-CS-4	7		28,29		3	* FORMER PIPE WHIP EXAM * ( N5A NOZ 90 DAZ ) GL 88-01 (PSI,UTO,F84) ALSO REF: JELCO DWG 2502-1...
CSB-BF-1*	CS-B	1	B5.10	SE-N	13.44"	1.06	P20/RP 61/51		CNS-CS-3	7		28,29		1	* FORMER PIPE WHIP EXAM, N5B* (ALSO REF JELCO DWG 2502-1) (PSI,F84)
JPA-BF-1	JPI-A	1	B5.10	SE-N	6"	0.828	P20/RP 107/109		CE.232-241	7		28		2	( JPI-A ) GL 88-01 (PSI,UTO,F84,EDS # N-433) ALSO REF CB&I DWG 20. REFER TO SIL 455 REV. 1 FOR ADDITIONAL COVERAGE RECOMMENDATIONS; DUE TO INCONEL 182 FILLER MATERIAL AND BUTTERING
JPB-BF-1	JPI-B	1	B5.10	SE-N	6"	0.828	P20/RP 107/109		CE.232 241	7		28		3	( N8B NOZ ) GL 88-01 (PSI,UTO,F84,EDS # N-433) ALSO REF CB&I DWG 20. REFER TO SIL 455 REV. 1 FOR ADDITIONAL COVERAGE RECOMMENDATIONS; DUE TO INCONEL 182 FILLER MATERIAL AND BUTTERING
RAS-BF-1	RR-A	1	B5.10	N-SE	29"	1.973	P20/RP 59/57		CNS-RR-37	7		28,29		1	N1A
RRH-BF-1	RR-A	1	B5.10	SE-N	14"	1.187	P20/RP 60/52		CNS-RR-37	7		28,29		1	N2H
RRJ-BF-1	RR-A	1	B5.10	SE-N	14"	1.187	P20/RP 60/52		CNS-RR-37	7		28,29		2	N2J
RRK-BF-1	RR-A	1	B5.10	SE-N	14"	1.187	P20/RP 60/52		CNS-RR-37	7		28,29		2	N2K
RRF-BF-1	RR-A	1	B5.10	SE-N	14"	1.187	P20/RP 52/60/121		CNS-RR-37	7		28,29		3	( N2F NOZ 210 DAZ )
RRG-BF-1	RR-A	1	B5.10	SE-N	14"	1.187	P20/RP 52/60/121		CNS-RR-37	7		28,29		3	( N2G NOZ 240 DAZ )
RRC-BF-1	RR-B	1	B5.10	SE-N	14"	1.187	P20/RP 60/52		CNS-RR-38	7		28,29		1	N2C
RRE-BF-1	RR-B	1	B5.10	SE-N	14"	1.187	P20/RP 60/52		CNS-RR-38	7		28,29		1	N2E
RBS-BF-1	RR-B	1	B5.10	N-SE	29"	1.973	P20/RP 57/59		CNS-RR-38	7		28,29		3	N1B
RRA-BF-1	RR-B	1	B5.10	SE-N	14"	1.187	P20/RP 60/52		CNS-RR-38	7		28,29		3	N2A
RRB-BF-1	RR-B	1	B5.10	SE-N	14"	1.187	P20/RP 60/52		CNS-RR-38	7		28,29		3	N2B
RRD-BF-1	RR-B	1	B5.10	SE-N	14"	1.187	P20/RP 60/52		CNS-RR-38	7		28,29		3	N2D
		17	***												
CSA-BF-4A	CS-A	1	B5.130	P-E	10"	0.631	P20/P2 4/49		CNS-CS-4	7		6,26		2	ALSO REF: JELCO DWG 2502-1...

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COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	UTO..	UT45....	UT60....	PER	REMARKS.....
CSB-BF-4A	CS-B	1	B5.130	P-E	10"	0.631	P20/P2 4/49		CNS-CS-3	7		6,26		1	ALSO REF JELCO DWG 2502-1 (TO RHR) 12" OF ADJ. LS RHA-BJ-3A (C.S.PIPE SIDE) FROM RHR "A"... INCLUDE'S INTERSECTION OF ADJ. LS FAD-BJ-40A (C.S. PIPE SIDE)
RAS-BF-12	RR-A	1	B5.130	P-P	20"	1.031	P20/P3 53/103		CNS-RR-37	7		6,26		1	
RAD-BF-7	RR-A	1	B5.130	P-P	24"	1.218	P20/P3 55/106		CNS-RR-37	7		6,26		3	
RBD-BF-7	RR-B	1	B5.130	P-P	24"	1.218	P20/P3 55/106		CNS-RR-38	7		6,26		2	
		5	***												
RVD-BF-14	NBD	1	B5.140	P-P	2"		CS-SS N/A		X2512-200	7				3	REMOVE SUPPORT RRH-20 TO ACCESS WELD FOR EXAMINATION
		1	***												
***		23													

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	MAT...	WB1.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
PRB-BG1-1	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-2	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-3	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-4	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-5	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-6	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-7	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-8	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-9	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-10	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-11	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-12	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-13	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-14	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-15	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-16	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-17	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-18	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-19	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-20	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-21	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-22	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-23	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-24	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-25	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-26	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-27	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-28	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-29	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-30	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-31	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-32	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-33	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-34	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-35	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-36	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-37	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-38	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-39	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-40	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-41	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-42	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-43	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-44	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	MAT...	WB1.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
PRB-BG1-45	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-46	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-47	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-48	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-49	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-50	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-51	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
PRB-BG1-52	NB	1	B6.10	NT	8X7	S1	---	CE.232-239			3	MAY BE DEFERRED
		52	***									
RRP-1A-BG1	RR-A	1	B6.180	BLT	2.5X10	SS	23	CNS-RR-37		5	2	MAY BE DEFERRED ... REC.RECIRC.PMP.1A-BLT
RRP-1B-BG1	RR-B	1	B6.180	BLT	2.5X10	SS	23	CNS-RR-38		5		MAY BE DEFERRED... REC.RECIRC.PMP.1B-BLT
		2	***									
RRPC-1A-BG1	RR-A	1	B6.190	PP-COV	---	SS	---	CNS-RR-37	8		2	MAY BE DEFERRED... REC.RECIRC.PMP.1A-COVER, INSPECT WHEN DISASSEMBLED FOR MAINTENANCE: FLANGE AREA OF COVER AND PUMP CASING (INCLUDE 1" ANNULAR AREA OF FLANGE AROUND STUDS)
RRPC-1B-BG1	RR-B	1	B6.190	PP-COV	---	SS	---	CNS-RR-38	8			MAY BE DEFERRED... REC.RECIRC.PMP.1B-COVER, INSPECT WHEN DISASSEMBLED FOR MAINTENANCE: FLANGE AREA OF COVER AND PUMP CASING (INCLUDE 1" ANNULAR AREA OF FLANGE AROUND STUDS)
		2	***									
PRA-BG1-1	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	1	MAY BE DEFERRED... MT ONLY WHEN REMOVED
PRA-BG1-2	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	1	MAY BE DEFERRED... MT ONLY WHEN REMOVED
PRA-BG1-3	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	1	MAY BE DEFERRED... MT ONLY WHEN REMOVED
PRA-BG1-4	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	1	MAY BE DEFERRED... MT



COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	MAT...	W81.CAL...	ISO.....	VT..	.....	UTO..	PER	REMARKS.....
PRA-BG1-5	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-6	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-7	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-8	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-9	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-10	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-11	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-12	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-13	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-14	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-15	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-16	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-17	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-18	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-19	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-20	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-21	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-22	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-23	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-24	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-25	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-26	NB	1	B6.20	ST	6X48	S1	21	CE.232-239			5	1	ONLY WHEN REMOVED MAY BE DEFERRED... MT

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	MAT...	WB1.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
PRA-BG1-27	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-28	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-29	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-30	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-31	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-32	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-33	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-34	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-35	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-36	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-37	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-42	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-43	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-44	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-45	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-46	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-47	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-48	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRD... MT
PRA-BG1-49	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-50	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-51	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT
PRA-BG1-52	NB	1	B6.20	ST	6X48	S1	21	CE.232-239		5	2	ONLY WHEN REMOVED MAY BE DEFERRED... MT

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	MAT...	WB1.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
		48	***									ONLY WHEN REMOVED
RRPN-1A-BG1	RR-A	1	B6.200	NUT	2.5"	SS	---	CNS-RR-37	8	2		MAY BE DEFERRED... REC.RECIRC.PMP.1A-NUTS
RRPW-1A-BG1	RR-A	1	B6.200	WASHERS	2.5"	SS	---	CNS-RR-37	3	2		MAY BE DEFERRED... REC.RECIRC.PMP.1A-WASHERS
RRPN-1B-BG1	RR-B	1	B6.200	NUT	2.5"	SS		CNS-RR-38	8			MAY BE DEFERRED... REC.RECIRC.PMP.1B-NUTS
RRPW-1B-BG1	RR-B	1	B6.200	WASHERS	2.5"	SS		CNS-RR-38	8			MAY BE DEFERRED... REC.RECIRC.PMP.1B-WASHERS
		4	***									
PRA-BG1-38	NB	1	B6.30	ST	6X48	S1	21	CE.232-239		5	2	MAY BE DEFERRED... MT ONLY WHEN REMOVED, (REMOVED FOR FUEL TRANSFER CHUTE)
PRA-BG1-39	NB	1	B6.30	ST	6X48	S1	21	CE.232-239		5	2	MAY BE DEFERRED... MT ONLY WHEN REMOVED, (REMOVED FOR FUEL TRANSFER CHUTE)
PRA-BG1-40	NB	1	B6.30	ST	6X48	S1	21	CE.232-239		5	2	MAY BE DEFERRED... MT ONLY WHEN REMOVED, (REMOVED FOR FUEL TRANSFER CHUTE)
PRA-BG1-41	NB	1	B6.30	ST	6X48	S1	21	CE.232-239		5	2	MAY BE DEFERRED... MT ONLY WHEN REMOVED, (REMOVED FOR FUEL TRANSFER CHUTE)
		4	***									
PRE-BG1-1	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-2	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-3	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-4	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-5	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-6	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-7	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-8	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-9	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-10	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	MAT...	W81.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
PRE-BG1-11	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-12	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-13	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-14	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-15	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-16	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-17	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-18	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-19	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-20	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-21	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-22	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-23	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-24	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-25	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-26	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	1	MAY BE DEFERRED
PRE-BG1-27	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-28	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-29	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-30	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-31	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-32	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-33	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-34	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-35	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-36	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-37	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-38	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-39	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-40	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-41	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-42	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-43	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-44	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-45	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-46	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-47	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-48	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-49	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-50	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-51	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED
PRE-BG1-52	NB	1	B6.40	LIG	6	RPV1	16	CE.232-239		2	2	MAY BE DEFERRED

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	MAT...	WB1.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
PRD-BG1-1	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-2	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-3	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-4	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-5	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-6	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-7	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-8	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-9	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-10	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-11	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-12	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-13	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-14	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-15	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-16	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED,F91)
PRD-BG1-17	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-18	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-19	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-20	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-21	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD REMOVED:F91)
PRD-BG1-22	NB	1	B6.50	BU	6	---	CE.232-239		8	1		MAY BE DEFERRED (STUD

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	MAT...	WB1.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
PRD-BG1-23	NB	1	B6.50	BU	6	---	CE.232-239		8		1	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-24	NB	1	B6.50	BU	6	---	CE.232-239		8		1	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-25	NB	1	B6.50	BU	6	---	CE.232-239		8		1	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-26	NB	1	B6.50	BU	6	---	CE.232-239		8		1	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-27	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-28	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-29	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-30	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-31	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-32	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-33	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-34	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-35	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-36	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-37	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-38	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-39	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-40	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-41	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-42	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-43	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-44	NB	1	B6.50	BU	6	---	CE.232-239		8		2	REMOVED:F91 MAY BE DEFERRED (STUD



COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	MAT...	WT.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
PRD-BG1-45	NB	1	B6.50	BU	6	---		CE.232-239	8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-46	NB	1	B6.50	BU	6	---		CE.232-239	8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-47	NB	1	B6.50	BU	6	---		CE.232-239	8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-48	NB	1	B6.50	BU	6	---		CE.232-239	8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-49	NB	1	B6.50	BU	6	---		CE.232-239	8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-50	NB	1	B6.50	BU	6	---		CE.232-239	8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-51	NB	1	B6.50	BU	6	---		CE.232-239	8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRD-BG1-52	NB	1	B6.50	BU	6	---		CE.232-239	8		2	REMOVED:F91 MAY BE DEFERRED (STUD
PRC-BG1-1	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-2	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-3	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-4	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-5	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-6	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-7	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-8	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-9	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-10	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-11	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-12	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-13	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-14	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-15	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-16	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-17	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-18	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-19	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-20	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-21	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-22	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-23	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-24	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-25	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-26	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED
PRC-BG1-27	NB	1	B6.50	WA	6	---		CE.232-239	8		3	MAY BE DEFERRED

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	MAT...	WB1.CAL...	ISO.....	VT.....	UTO..	PER	REMARKS.....
PRC-BG1-28	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-29	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-30	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-31	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-32	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-33	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-34	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-35	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-36	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-37	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-38	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-39	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-40	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-41	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-42	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-43	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-44	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-45	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-46	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-47	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-48	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-49	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-50	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-51	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED
PRC-BG1-52	NB	1	B6.50	WA	6		---	CE.232-239	8	3		MAY BE DEFERRED

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COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
N7-BG2	NB	1	87.10		FLG-BLT 6			CE.232-244	8	1	N7 NOZ, RPV TP.HD.
N6A-BG2	NB	1	87.10		FLG-BLT 6			CE.232-244	8	2	FORMERLY RHD-BG2-2, N6A NOZ, RPV TP.HD. 0 DEG.AZ.
N6B-BG2	NB	1	87.10		FLG-BLT 6			CE.232-244	8	2	N6B NOZ, RPV TP.HD. 180 DEG.AZ., EXAMINED DURING ISI REVIEW SUMMER 1992...
		3	***								
MSA-BG2-17	MS-A	1	87.50		FL-BLT			GE731E611	8	3	SV # MS-RV-70A...
MSA-BG2-22	MS-A	1	87.50		FL-BLT			GE731E611	8	3	SRV # MS-RV-71A...
MSA-BG2-27	MS-A	1	87.50		FL-BLT			GE731E611	8	3	SRV # MS-RV-71B...
MSB-BG2-16	MS-B	1	87.50		FLG-BLT			GE731E611	8	1	SRV # MS-RV-71C...
MSB-BG2-21	MS-B	1	87.50		FLG-BLT			GE731E611	8	1	SRV # MS-RV-71D...
MSC-BG2-19	MS-C	1	87.50		FLG-BLT			GE731E611	8	1	SRV # MS-RV-71E...
MSC-BG2-24	MS-C	1	87.50		FLG-BLT			GE731E611	8	1	SRV # MS-RV-71F...
MSD-BG2-17	MS-D	1	87.50		FLG-BLT			GE731E611	8	3	SV # MS-RV-70C...
MSD-BG2-22	MS-D	1	87.50		FLG-BLT			GE731E611	8	3	SV # MS-RV-70B...
MSD-BG2-27	MS-D	1	87.50		FLG-BLT			GE731E611	8	3	SRV # MS-RV-71G...
MSD-BG2-31	MS-D	1	87.50		FLG-BLT			GE731E611	8	3	SRV # MS-RV-71H...
RRF-BG2-A	RR-A	1	87.50		FLG-BLT 4		SS	CNS-RR-37	8	1	DECON FLANGE...
RRF-BG2-B	RR-B	1	87.50		FLG-BLT 4		SS	CNS-RR-38	8	2	DECON FLANGE...
		13	***								
CS-14A	CS-A	1	87.70	A	V-BLT			2501-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
CS-MO-12A	CS-A	1	87.70	A	V-BLT			2501-1	8	3	EXAMINE ONLY ONE SET OF BLT PER GROUP...
CS-14B	CS-B	1	87.70	A	V-BLT			2501-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
CS-MO-12B	CS-B	1	87.70	A	V-BLT			2501-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
CS-CV-18CV	CS-A	1	87.70	B	V-BLT	10	CS	2501-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... FORMERLY CS-AO-13A...
CS-CV-19CV	CS-B	1	87.70	B	V-BLT	10	CS	2501-1	8	2	EXAMINE ONLY ONE SET OF BLT PER GROUP... FORMERLY CS-AO-13B...
RWCU-MO-15	RWCU	1	87.70	C	V-BLT			2503-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... REPLACED VLV F91...
RWCU-MO-18	RWCU	1	87.70	C	V-BLT			2503-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... REPLACED VLV F91...

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFIG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
RWCU-V-10	RWCU	1	B7.70	C	V-BLT	N/A		2503-1	8	3	EXAMINE ONLY ONE SET OF BLT PER GROUP...
RF-16-CV	FW-A	1	B7.70	D	V-BLT			2509-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... EXAM REQUIRED ON HINGE PIN COVER BOLTS ONLY ! NO EXAM REQUIRED ON PRESSURE SEAL BONNET BOLTS...
RF-15-CV	FW-A	1	B7.70	D	V-BLT		CS	2509-1	8	3	EXAMINE ONLY ONE SET OF BLT PER GROUP... EXAM REQUIRED ON HINGE PIN COVER BOLTS ONLY! NO EXAM REQUIRED ON PRESSURE SEAL BONNET BOLTS...
RF-13-CV	FW-B	1	B7.70	D	V-BLT			2509-2	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... EXAM REQUIRED ON HINGE PIN COVER BOLTS ONLY ! NO EXAM REQUIRED ON PRESSURE SEAL BONNET BOLTS...
RF-14-CV	FW-B	1	B7.70	D	V-BLT			2509-2	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... EXAM REQUIRED ON HINGE PIN COVER BOLTS ONLY ! NO EXAM REQUIRED ON PRESSURE SEAL BONNET BOLTS...
RF-11	FW-A	1	B7.70	E	V-BLT			2509-1	8		EXAMINE ONLY ONE SET OF BOLTING PER GROUP...
RF-13	FW-B	1	B7.70	E	V-BLT			2509-2	8	1	EXAMINE ONLY ONE SET OF BLT PER GROUP...
MS-RV-70A	MS-A	1	B7.70	F	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SV, SN#-BL2463, IS IN PLACE AT THIS LOCATION, 01/1995...
MS-RV-70B	MS-D	1	B7.70	F	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SV, SN#-BL2462, IS IN PLACE AT THIS LOCATION, 01/1995...
MS-RV-70C	MS-D	1	B7.70	F	V-BLT			GE731E611	8	2	EXAMINE ONLY ONE SET OF BLT PER GROUP... SV, SN#-BL2461, IS IN PLACE AT THIS LOCATION, 01/1995...

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFIG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
MS-RV-71A	MS-A	1	B7.70	G	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 379 REMOVED AND REINSTALLED IN 1994)... EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 380 REMOVED AND REINSTALLED IN 1994)... EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... SEC.XI CREDIT S90... (SN 383 REPLACED BY SN 385 IN 1994)...
MS-RV-71B	MS-A	1	B7.70	G	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 380 REMOVED AND REINSTALLED IN 1994)... EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 380 REMOVED AND REINSTALLED IN 1994)... EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... SEC.XI CREDIT S90... (SN 383 REPLACED BY SN 385 IN 1994)...
MS-RV-71C	MS-B	1	B7.70	G	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 380 REMOVED AND REINSTALLED IN 1994)... EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... SEC.XI CREDIT S90... (SN 383 REPLACED BY SN 385 IN 1994)...
MS-RV-71D	MS-B	1	B7.70	G	V-BLT			GE731E611	8	2	EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 387 REMOVED AND REINSTALLED IN 1994)... EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 386 REPLACED BY SN 377 IN 1994, PSI PERFORMED)...
MS-RV-71E	MS-C	1	B7.70	G	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 386 REPLACED BY SN 377 IN 1994, PSI PERFORMED)...
MS-RV-71F	MS-C	1	B7.70	G	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (PSI:S93)... (SN 381 REMOVED AND REINSTALLED IN 1994)...
MS-RV-71G	MS-D	1	B7.70	G	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (PSI:S93, 8 BLT, 4 STUDS, 12 NUTS )... (SN 382 REPLACED BY SN 376 IN 1994, PSI PERFORMED)...
MS-RV-71H	MS-D	1	B7.70	G	V-BLT			GE731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... SRV PILOT VALVE BOLTING... (SN 385 REPLACED BY SN 378 IN 1994, PSI

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
MS-AO-80A	MS-A	1	B7.70	H	V-BLT			GE731E611	8		PERFORMED)...
MS-AO-86A	MS-A	1	B7.70	H	V-BLT			2506-4	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
MS-AO-80B	MS-B	1	B7.70	H	V-BLT			GE.731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
MS-AO-86B	MS-B	1	B7.70	H	V-BLT			2506-4	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
MS-AO-86C	MS-C	1	B7.70	H	V-BLT			2506-4	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
MS-AO-80C	MS-C	1	B7.70	H	V-BLT			GE.731E611	8	1	EXAMINE ONLY ONE SET OF BLT PER GROUP...
MS-AO-80C	MS-D	1	B7.70	H	V-BLT			GE.731E611	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
MS-AO-86D	MS-D	1	B7.70	H	V-BLT			2506-4	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
HPCI-CV-29CV	HPCI	1	B7.70	J	V-BLT	14	CS	2509-2	8	2	EXAMINE ONLY ONE SET OF BLT PER GROUP... FORMERLY HPCI-AO-18...
RHR-MO-17	RHR	1	B7.70	K	V-BLT			2510-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
RHR-MO-18	RHR-G	1	B7.70	K	V-BLT	20		2510-1	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
RHR-V-88	RHR-B	1	B7.70	K	V-BLT	20	CS	2510-1	8	1	EXAMINE ONLY ONE SET OF BLT PER GROUP... FORMERLY RHR-MO-88...
RHR-V-81A	RHR-A	1	B7.70	L	V-BLT	24	CS	2510-4	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... FORMERLY RHR-MO-81A...
RHR-MO-25A	RHR-A	1	B7.70	L	V-BLT			2510-4	8	1	EXAMINE ONLY ONE SET OF BLT PER GROUP...
RHR-V-81B	RHR-B	1	B7.70	L	V-BLT	24	CS	2510-3	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... FORMERLY RHR-MO-81B...
RHR-MO-25B	RHR-B	1	B7.70	L	V-BLT		CS	2510-3	8		EXAMINE ONLY ONE SET OF BLT PER GROUP... ANGLE VALVE RM...
RHR-CV-26CV	RHR-A	1	B7.70	M	V-BLT	24	CS	2510-4	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
RHR-CV-27CV	RHR-B	1	B7.70	M	V-BLT	24	CS	2510-3	8	3	EXAMINE ONLY ONE SET OF BLT PER GROUP...
RR-MO-43A	RR-A	1	B7.70	Q	V-BLT			CNS-RR-37	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
RR-MO-53A	RR-A	1	B7.70	Q	V-BLT			CNS-RR-37	8	3	EXAMINE ONLY ONE SET OF



PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFIG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
RR-MO-43B	RR-B	1	B7.70	Q	V-BLT		SS	CNS-RR-38	8		BLT PER GROUP... EXAMINE ONLY ONE SET OF BLT PER GROUP... DW, BASEMENT...
RR-MO-53B	RR-S	1	B7.70	Q	V-BLT			CNS-RR-38	8		EXAMINE ONLY ONE SET OF BLT PER GROUP...
		48	***								
CRD-BG2-02-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-02-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-02-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-02-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-02-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-11	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-15	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-39	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-06-43	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-07	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-11	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-15	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	{PSI:F91} *EXAMINE WHEN DISASSEMBLED

COOPER NUCLEAR STATION  
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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
CRD-BG2-10-23	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-27	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-31	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-35	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-39	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) * EXAMINE WHEN DISASSEMBLED *
CRD-BG2-10-43	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-10-47	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-14-07	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-14-11	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) * EXAMINE WHEN DISASSEMBLED *
CRD-BG2-14-15	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) * EXAMINE WHEN DISASSEMBLED *
CRD-BG2-14-19	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-14-23	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-14-27	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-14-31	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-14-35	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-14-39	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) * EXAMINE WHEN DISASSEMBLED *
CRD-BG2-14-43	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-14-47	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-03	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) * EXAMINE WHEN DISASSEMBLED *
CRD-BG2-18-07	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-11	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-15	CRD	1	B7.80	BLT-8	1X5.5				8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
CRD-BG2-18-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	DISASSEMBLED (PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-39	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-43	CRD	1	B7.80		BLT-8	1X5.5			8	*	*EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-47	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-18-51	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-03	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-07	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-11	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DIASSEMBLED
CRD-BG2-22-15	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-39	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-43	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN

COOPER NUCLEAR STATION  
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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	FIG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
CRD-BG2-22-47	CRD	1	B7.80		BLT-8	1X5.5			8	*	DISASSEMBLED (PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-22-51	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-03	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-07	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-11	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINW WHEN DISASSEMBLED
CRD-BG2-26-15	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-39	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-43	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-47	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-26-51	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-03	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-07	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-11	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-15	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
CRD-BG2-30-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	DISASSEMBLED (PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-39	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-43	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-47	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-30-51	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-03	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-07	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-11	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-15	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) * EXAMINE WHEN DISASSEMBLED *
CRD-BG2-34-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-39	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-43	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) DISASSEMBLED

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
CRD-BG2-34-47	CRD	1	87.80		BLT-8	1X5.5			8	*	*EXAMINE WHEN DISASSEMBLED
CRD-BG2-34-51	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-07	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-11	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:F91) * EXAMINE WHEN DISASSEMBLED *
CRD-BG2-38-15	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-19	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-23	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-27	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-31	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-35	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-39	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-43	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-38-47	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-07	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-11	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-15	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-19	CRD	1	87.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED



COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	CFIG...	SIZE..	MAT...	ISO.....	VT.....	PER	REMARKS.....
CRD-BG2-42-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-39	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-43	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-42-47	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-11	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-15	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-39	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-46-43	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-50-19	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-50-23	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-50-27	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED
CRD-BG2-50-31	CRD	1	B7.80		BLT-8	1X5.5			8	*	(PSI:F91) *EXAMINE WHEN DISASSEMBLED

IWB-2500-1 CAT: B-G-2

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE..... SYSTEM.. CNT. ITEM.NO. GRP CFG... SIZE.. MAT... ISO..... VT..... PER REMARKS.....

CRD-BG2-50-35	CRD	1	B7.80		BLT-8	1X5.5			8	*	DISASSEMBLED (PSI:S93, ESC 92-163) *EXAMINE WHEN DISASSEMBLED
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COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER RELREQ	REMARKS.....
HNC-C1-1	NB	1	88.10	VE-SK	218	6.8	RPV 1	16	GE.BA-3	7	16	4	4	4	1	RI-07 EITHER MT OR UT, RPV SUPPORT SKIRT 920'ELV, 0 TO 120 DAZ.
RPV-BH-1	NB	1	88.10	VE-SS	218		RPV 1	N/A	CE.232-249	7	16				1	RPV-STB-1A... RPV STAB. BRACKET 962'ELV. 45 DEG.AZ.
RPV-BH-4	NB	1	88.10	VE-SS	218		RPV 1	N/A	CE.232-249	7	16				1	RPV-STB-4A... RPV STAB. BRACKET 962'ELV. 315 DEG.AZ.
HNC-C1-2	NB	1	88.10	VE-SK	218	6.8	RPV 1	16	GE.BA-3	7	16	4	4	4	2	RI-07 EITHER MT OR UT, RPV SUPPORT SKIRT 920' ELV, 120 TO 240 DAZ.
RPV-BH-2	NB	1	88.10	VE-SS	218		RPV 1	N/A	CE.232-249	7	16				2	RPV-STB-2A... RPV STAB. BRACKET 962'ELV. 135 DEG.AZ.
HNC-C1-3	NB	1	88.10	VE-SK	218	6.8	RPV 1	16	GE.BA-3	7	16	4	4	4	3	RI-07 EITHER MT OR UT, RPV SUPPORT SKIRT 920'ELV, 240 TO 360 DAZ
RPV-BH-3	NB	1	88.10	VE-SS	218		RPV 1	N/A	CE.232-249	7	16				3	RPV-STB-3A... RPV STAB. BRACKET 962'ELV. 225 DEG.AZ.
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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
CSA-BJ-4	CS-A	1	B9.11	P-P	10"	.594"	P20	49	2502-1	7		6	6,26,18			
CSA-BJ-14	CS-A	1	B9.11	VA-P	10"	.719"	P2	79	2502-1	7	16	6	6			
CSA-BJ-15	CS-A	1	B9.11	E-VA	10"	.719"	P2	79	2501-1	7	16	6	6			
CSA-BJ-16	CS-A	1	B9.11	P-E	10"	.719"	P2	79	2501-1	7	16	6	6			
CSA-BJ-19	CS-A	1	B9.11	VA-P	10"	.719"	P2	79	2501-1	7	16	6	6			
CSA-BJ-21	CS-A	1	B9.11	P-VA	10"	.719"	P2	79	2501-1	7	16	6	6			
CSA-BJ-22	CS-A	1	B9.11	E-P	10"	.719"	P2	79	2501-1	7	16	6	6			
CSA-BJ-23	CS-A	1	B9.11	P-E	10"	.719"	P2	79	2501-1	7	16	6	6			
CSA-BJ-25	CS-A	1	B9.11	FH-P	10"	.719"	P2	79	2501-1	7	16	6	6			INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-16A...
CSA-BJ-28	CS-A	1	B9.11	E-P	10"	.719"	P2	79	2501-1	7	16	6	6			
CSA-BJ-29	CS-A	1	B9.11	VA-E	10"	.719"	P2	79	2501-1	7	16	6	6			
CSA-BJ-3*	CS-A	1	B9.11	P-P	10"	.594"	P20	49	2502-1	7		6	6,26,18			* FORMER PIPE WHIP EXAM
CSA-BJ-2*	CS-A	1	B9.11	P-SE	10"	.594"	P20	49	2502-1	7		6	6,26,18		3	* FORMER PIPE WHIP EXAM
CSA-BJ-26	CS-A	1	B9.11	P-FH	10"	.719"	P2	79	2501-1	7	16	6	6			3
CSB-BJ-13	CS-B	1	B9.11	VA-P	10"	.719"	P2	79	2502-1	7	16	6	6			
CSB-BJ-14	CS-B	1	B9.11	E-VA	10"	.719"	P2	79	2501-1	7	16	6	6			
CSB-BJ-15	CS-B	1	B9.11	P-E	10"	.719"	P2	79	2501-1	7	16	6	6			
CSB-BJ-21	CS-B	1	B9.11	P-VA	10"	.719"	P2	79	2501-1	7	16	6	6			
CSB-BJ-22	CS-B	1	B9.11	E-P	10"	.719"	P2	79	2501-1	7	16	6	6			
CSB-BJ-23	CS-B	1	B9.11	P-E	10"	.719"	P2	79	2501-1	7	16	6	6			
CSB-BJ-25	CS-B	1	B9.11	FH-P	10"	.719"	P2	79	2501-1	7	16	6	6			INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-16B...
CSB-BJ-28	CS-B	1	B9.11	E-P	10"	.719"	P2	79	2501-1	7	16	6	6			
CSB-BJ-29	CS-B	1	B9.11	VA-E	10"	.719"	P2	79	2501-1	7	16	6	6			
CSB-BJ-2*	CS-B	1	B9.11	P-SE	10"	.594"	P20	49	2502-1	7		6	6,26,18			1 * FORMER PIPE WHIP EXAM
CSB-BJ-3*	CS-B	1	B9.11	P-P	10"	.594"	P20	49	2502-1	7		6	6,26,18			1 * FORMER PIPE WHIP EXAM
CSB-BJ-4	CS-B	1	B9.11	P-P	10"	.594"	P20	49	2502-1	7		6	6,26,18			2
CSB-BJ-18	CS-B	1	B9.11	VA-P	10"	.719"	P2	79	2501-1	7	16	6	6			2
CSB-BJ-26	CS-B	1	B9.11	P-FH	10"	.719"	P2	79	2501-1	7	16	6	6			2
		28	***													
CSA-BJ-33	CS-A	1	B9.40	P-E	2"		P1		X2501-201	7	16					
CSA-BJ-34	CS-A	1	B9.40	E-RI	2"		P1		X2501-201	7	16					
CSA-BJ-36	CS-A	1	B9.40	P-E	2"		P1		X2501-201	7	16					
CSA-BJ-37	CS-A	1	B9.40	E-RI	2"		P1		X2501-201	7	16					
CSA-BJ-32	CS-A	1	B9.40	VA-P	2"		P1		X2501-201	7	16					3
CSA-BJ-35	CS-A	1	B9.40	VA-P	2"		P1		X2501-201	7	16					3
CSB-BJ-33	CS-B	1	B9.40	P-E	2"		P1		X2501-201	7	16					
CSB-BJ-34	CS-B	1	B9.40	E-P	2"		P1		X2501-201	7	16					
CSB-BJ-36	CS-B	1	B9.40	P-E	2"		P1		X2501-201	7	16					

IWB-2500-1 CAT: B-J  
CORE SPRAY SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER REMARKS.....
CSB-BJ-37	CS-B	1	B9.40	E-P	2"		P1		X2501-201	7	16				
CSB-BJ-38	CS-B	1	B9.40	P-COU	2"		P1		X2501-201	7	16				
CSB-BJ-39	CS-B	1	B9.40	COU-RI	2"		P1		X2501-201	7	16				
CSB-BJ-40	CS-B	1	B9.40	P-COU	2"		P1		X2501-201	7	16				
CSB-BJ-41	CS-B	1	B9.40	COU-RI	2"		P1		X2501-201	7	16				
CSB-BJ-32	CS-B	1	B9.40	VA-P	2"		P1		X2501-201	7	16				2
CSB-BJ-35	CS-B	1	B9.40	VA-P	2"		P1		X2501-201	7	16				2

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IWB-2500-1 CAT: B-J  
FEEDWATER SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
CWB-BJ-1	FW-A	1	B9.11	T-P	4"	.531	P2	2	2509-1	7	16	6	6			
CWB-BJ-2	FW-A	1	B9.11	E-P	4"	.531	P2	2	2509-1	7	16	6	6			
CWB-BJ-3	FW-A	1	B9.11	P-E	4"	.531	P2	2	2509-1	7	16	6	6			
CWB-BJ-5	FW-A	1	B9.11	E-P	4"	.531	P2	2	2509-1	7	16	6	6			
FWA-BJ-8	FW-A	1	B9.11	E-P	12"	1.125	P2	85	2509-1	7	16	6	6			
FWA-BJ-9	FW-A	1	B9.11	E-E	12"	1.125	F22	85	2509-1	7	16	6	6			
FWB-BJ-5	FW-A	1	B9.11	P-P	12"	1.125	P2	85	2509-1	7	16	6	6			
FWB-BJ-6	FW-A	1	B9.11	E-P	12"	1.125	P2	85	2509-1	7	16	6	6			
FWB-BJ-7	FW-A	1	B9.11	P-E	12"	1.125	P2	85	2509-1	7	16	6	6			
FWB-BJ-9	FW-A	1	B9.11	E-P	12"	1.125	P2	85	2509-1	7	16	6	6			
RWA-BJ-1	FW-A	1	B9.11	P-WOL	8"	.531	P2		2509-1	7	16	6	6			
RWA-BJ-2	FW-A	1	B9.11	E-P	4"	.531	P2	2	2509-1	7	16		6			
RWA-BJ-3	FW-A	1	B9.11	P-E	4"	.531	P2	2	2509-1	7	16		6			
RWA-BJ-4	FW-A	1	B9.11	E-P	4"	.531	P2	2	2509-1	7	16		6			
RWA-BJ-5	FW-A	1	B9.11	P-E	4"	.531	P2	2	2509-1	7	16	6	6			
RWA-BJ-7	FW-A	1	B9.11	P-T	4"	.531	P2	2	2509-1	7	16	6	6			
RWA-BJ-9	FW-A	1	B9.11	E-P	4"	.531	P2	2	2509-1	7	16	6	6			
CWB-BJ-27	FW-A	1	B9.11	VA-E	4"	.531	F22	2	2509-1		16		6			(PSI:S93) RWCU-15-CV VALVE... FORMERLY WELD ID.NO CWB-BJ-7...
FWA-BJ-14	FW-A	1	B9.11	P-P	12"	1.125	P2	85	2509-1		16		6			
FWA-BJ-17	FW-A	1	B9.11	RED-P	12"	1.125	P2	85	2509-1	7	16	6	6			
FWA-BJ-22	FW-A	1	B9.11	P-VA	18"	1.562	P2	97	2509-1	7	16	6	6			
FWA-BJ-26	FW-A	1	B9.11	E-P	18"	1.562	P2	97	2509-1	7	16	6	6			
FWA-BJ-27	FW-A	1	B9.11	P-E	18"	1.562	P2	97	2509-1	7	16	6	6			
FWA-BJ-29	FW-A	1	B9.11	E-P	18"	1.562	P2	97	2509-1	7	16	6	6			
FWA-BJ-31	FW-A	1	B9.11	VA-E	18"	1.562	F22	97	2509-1	7	16	6	6			
FWA-BJ-33	FW-A	1	B9.11	P-VA	18"	1.562	F22	97	2509-1	7	16	6	6			
FWA-BJ-35	FW-A	1	B9.11	FH-P	18"	1.562	P2	97	2509-1	7	16	6	6			INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-9A...
FWA-BJ-37	FW-A	1	B9.11	P-FH	18"	1.562	P2	97	2509-1	7	16	6	6			
FWB-BJ-10	FW-A	1	B9.11	R-E	12"	1.125	F22	85	2509-1	7	16	6	6			
RWA-BJ-10	FW-A	1	B9.11	P-E	4"	.531	P2	2	2509-1	7	16	6	6			
FWA-BJ-20*	FW-A	1	B9.11	VA-T	18"	1.562	F22	97	2509-1		16		6			* FORMER PIPE WHIP EXAM
FWA-BJ-25*	FW-A	1	B9.11	P-E	18"	1.562	P2	97	2509-1	7	16		6			* FORMER PIPE WHIP EXAM *
RWA-BJ-101	FW-A	1	B9.11	P-P	8"-4"	.906"	P2		2509-1	7	16	6	6			REMOVE PIPE CLAMP ON SUPPORT RFH-70A TO ACCESS WELD FOR EXAMINATION 8" PIPE WITH I.D. SWAGED TO MEET O.D. OF 4" PIPE...
RWA-BJ-6	FW-A	1	B9.11	T-P	4"	.531	P2	2	2509-1	7	16		6		1	
RWA-BJ-8	FW-A	1	B9.11	P-P	4"	.531	P2	2	2509-1	7	16		6		1	



IWB-2500-1 CAT: B-J  
FEEDWATER SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
FWB-BJ-1*	FW-A	1	B9.11	P-SE	12"	1.125	P2	85	2509-1	7	16		6		1	* FORMER PIPE WHIP EXAM *
RWA-BJ-12	FW-A	1	B9.11	VA-P	4"	.531	P2	2	2509-1	7	16		6		1	
FWB-BJ-111	FW-A	1	B9.11	SE-N	13.94"	1.002"	P2	89	2509-1		16		6		1	NUREG 0619
CWB-BJ-4	FW-A	1	B9.11	P-P	4"	.531	P2	2	2509-1	7	16		6		2	
FWA-BJ-1*	FW-A	1	B9.11	P-SE	12"	1.125	P2	97	2509-1	7	16		6		2	* FORMER PIPE WHIP EXAM *
FWA-BJ-10*	FW-A	1	B9.11	E-P	12"	1.125	P2	85	2509-1		16		6		2	* FORMER PIPE WHIP EXAM
FWA-BJ-111	FW-A	1	B9.11	SE-N	13.94"	1.002"	P2	89	2509-1		16		6		2	NUREG 0619
FWA-BJ-23*	FW-A	1	B9.11	E-P	18"	1.562	P2	97	2509-1		16		6		2	* FORMER PIPE WHIP EXAM
FWA-BJ-2	FW-A	1	B9.11	E-P	12"	1.125	P2	85	2509-1	7	16		6		3	
FWA-BJ-3	FW-A	1	B9.11	P-E	12"	1.125	P2	85	2509-1	7	16		6		3	
FWA-BJ-5	FW-A	1	B9.11	E-P	12"	1.125	P2	85	2509-1	7	16		6		3	
FWA-BJ-6	FW-A	1	B9.11	P-E	12"	1.125	P2	85	2509-1	7	16		6		3	
FWB-BJ-2	FW-A	1	B9.11	E-P	12"	1.125	P2	85	2509-1	7	16		6		3	
FWB-BJ-3	FW-A	1	B9.11	P-E	12"	1.125	P2	85	2509-1	7	16		6		3	
FWA-BJ-44	FW-A	1	B9.11	VA-P	18"	1.562	P2	97	2509-1	7	16		6		3	
FWA-BJ-19*	FW-A	1	B9.11	T-RED	18"	1.125	F22	97	2509-1	7	16		6		3	* FORMER PIPE WHIP EXAM
FWC-BJ-2	FW-B	1	B9.11	E-P	12"	1.125	P2	85	2509-2	7	16	6	6			
FWC-BJ-3	FW-B	1	B9.11	P-E	12"	1.125	P2	85	2509-2	7	16		6			
FWC-BJ-5	FW-B	1	B9.11	P-P	12"	1.125	P2	85	2509-2	7	16	6	6			
FWC-BJ-6	FW-B	1	B9.11	E-P	12"	1.125	P2	85	2509-2	7	16	6	6			
FWC-BJ-7	FW-B	1	B9.11	P-E	12"	1.125	P2	85	2509-2	7	16	6	6			
FWC-BJ-9	FW-B	1	B9.11	E-P	12"	1.125	P2	85	2509-2	7	16	6	6			
FWD-BJ-2	FW-B	1	B9.11	E-P	12"	1.125	P2	85	2509-2	7	16		6			
FWD-BJ-3	FW-B	1	B9.11	P-E	12"	1.125	P2	85	2509-2	7	16		6			
FWD-BJ-5	FW-B	1	B9.11	E-P	12"	1.125	P2	85	2509-2	7	16	6	6			
FWD-BJ-6	FW-B	1	B9.11	P-E	12"	1.125	P2	85	2509-2	7	16	6	6			
FWD-BJ-8	FW-B	1	B9.11	E-P	12"	1.125	P2	85	2509-2	7	16	6	6			
PWA-BJ-1	FW-B	1	B9.11	E-T	14"	1.250	F22	6	2509-2	7	16	6	6			
PWA-BJ-2	FW-B	1	B9.11	E-E	14"	1.250	F22	6	2509-2	7	16	6	6			
PWA-BJ-3	FW-B	1	B9.11	P-E	14"	1.250	F22	6	2509-2	7	16	6	6			
PWA-BJ-4	FW-B	1	B9.11	VA-P	14"	1.250	P2	6	2509-2	7	16	6	6			
FWD-BJ-10	FW-B	1	B9.11	P-E	12"	1.125	P2	85	2509-2	7	16	6	6			
FWD-BJ-14	FW-B	1	B9.11	P-P	12"	1.125	P2	85	2509-2	7	16	6	6			
FWD-BJ-17	FW-B	1	B9.11	RED-P	12"	1.125	P2	85	2509-2	7	16	6	6			
FWD-BJ-20	FW-B	1	B9.11	P-VA	18"	1.562	P2	85	2509-2	7	16	6	6			
FWD-BJ-27	FW-B	1	B9.11	P-E	18"	1.562	F22	97	2509-2	7	16	6	6			
FWD-BJ-29	FW-B	1	B9.11	E-P	18"	1.562	F22	97	2509-2	7	16	6	6			
FWD-BJ-30	FW-B	1	B9.11	VA-E	18"	1.562	F22	97	2509-2	7	16	6	6			
FWD-BJ-31	FW-B	1	B9.11	P-VA	18"	1.562	P2	97	2509-2	7	16	6	6			
FWD-BJ-34	FW-B	1	B9.11	FH-P	18"	1.562	P2	97	2509-2	7	16	6	6			
																INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-9B...
FWD-BJ-36	FW-B	1	B9.11	T-FH	18"	1.562	P2	97	2509-2	7	16	6	6			
FWD-BJ-38	FW-B	1	B9.11	VA-T	18"	1.562	F22	97	2509-2	7	16	6	6			

IWB-2500-1 CAT: B-J  
 FEEDWATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
FWD-BJ-19*	FW-B	1	B9.11	VA-T	18"	1.562	F22	97	2509-2	7	16		6			* FORMER PIPE WHIP EXAM
FWD-BJ-1*	FW-B	1	B9.11	P-SE	12"	1.125	P2	85	2509-2	7	16		6		1	* FORMER PIPE WHIP EXAM *
FWD-BJ-25	FW-B	1	B9.11	E-P	18"	1.562	P2	97	2509-2	7	16		6		1	
FWD-BJ-111	FW-B	1	B9.11	SE-N	13.94"	1.002"	P2	89	2509-2		16		6		1	NUREG 0619
FWD-BJ-24*	FW-B	1	B9.11	P-E	18"	1.562	P2	97	2509-2	7	16		6		1	* FORMER PIPE WHIP EXAM
FWC-BJ-1*	FW-B	1	B9.11	P-SE	12"	1.125	P2	85	2509-2	7	16		6		2	* FORMER PIPE WHIP EXAM *
FWC-BJ-111	FW-B	1	B9.11	SE-N	13.94"	1.002"	P2	89	2509-2		16		6		2	NUREG 0619
FWD-BJ-18*	FW-B	1	B9.11	T-RED	18"	1.562	F22	97	2509-2		16		6		2	* FORMER PIPE WHIP EXAM
FWD-BJ-23*	FW-B	1	B9.11	E-P	18"	1.562	P2	97	2509-2		16		6		2	* FORMER PIPE WHIP EXAM
FWC-BJ-10	FW-B	1	B9.11	RT-E	12"	1.125	F22	85	2509-2	7	16		6		3	
FWD-BJ-9*	FW-B	1	B9.11	E-E	12"	1.125	F22	85	2509-2	7	16		6		3	* FORMER PIPE WHIP EXAM
		88	***													
FWA-BJ-81	FW-A	1	B9.31	WOL-P	18"-8"	1.562	P2	97	2509-1	7	16	6	6		3	
		1	***													
***		89														

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
PSA-BJ-3	MS	1	B9.11	P-E	10"	.719	P1	78	2506-1	7	16	6	6			
PSA-BJ-4	MS	1	B9.11	E-P	10"	.719	P1	78	2506-1	7	16	6	6			
PSA-BJ-8	MS	1	B9.11	P-E	10"	.719"	P1	78	2506-1	7	16	6	6			
PSA-BJ-9	MS	1	B9.11	E-P	10"	.719"	P1	78	2506-1	7	16	6	6			
PSA-BJ-11	MS	1	B9.11	P-P	10"	.719"	P1	78	2506-1	7	16	6	6			
PSA-BJ-12	MS	1	B9.11	P-E	10"	.719"	P1	78	2506-1	7	16	6	6			
PSA-BJ-15	MS	1	B9.11	E-VA	10"	.719"	F1	77	2506-1	7	16	6	6			
PSA-BJ-16	MS	1	B9.11	VA-P	10"	.719"	P1	78	2506-1	7	16	6	6			
PSA-BJ-20	MS	1	B9.11	P-E	10"	.719"	P1	78	2506-1	7	16	6	6			
PSA-BJ-21	MS	1	B9.11	E-P	10"	.719"	F1	78	2506-1	7	16	6	6			
PSA-BJ-22	MS	1	B9.11	P-FH	10"	.719"	F1	77	2506-1	7	16	6	6			INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-11...
PSA-BJ-24	MS	1	B9.11	FH-VA	10"	.719"	F1	77	2506-1	7	16	6	6			
PSA-BJ-1	MS	1	B9.11	WOL-E	10"	.719"	F1	77	2506-1		16		6			
PSA-BJ-2	MS	1	B9.11	E-P	10"	.719"	P1	78	2506-1		16		6			
PSA-BJ-17*	MS	1	B9.11	P-E	10"	.719"	P1	78	2506-1	7	16		6			
PSA-BJ-18*	MS	1	B9.11	E-P	10"	.719"	P1	78	2506-1	7	16		6			
MSA-BJ-7	MS-A	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			2 3 3 * FORMER PIPE WHIP EXAM * FORMER PIPE WHIP EXAM INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-5A AND MSA-BJ-7A
MSA-BJ-10	MS-A	1	B9.11	E-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-7A, MSA-BJ-10A(IA), AND MSA-BJ-10B(OA)
MSA-BJ-12	MS-A	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-10A(IA), MSA-BJ-10B(OA), AND MSA-BJ-12A
MSA-BJ-15	MS-A	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSA-BJ-16	MS-A	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSA-BJ-20	MS-A	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSA-BJ-21	MS-A	1	B9.11	P-F	6"	.719"	P1	106	GE731E611-4	7	16	6	6			
MSA-BJ-23	MS-A	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-12A AND MSA-BJ-23A
MSA-BJ-25	MS-A	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSA-BJ-26	MS-A	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSA-BJ-29	MS-A	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-23A, MSA-BJ-29A(IA), AND MSA-BJ-29B(OA)
MSA-BJ-30	MS-A	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-29A(IA)

IWB-2500-1 CAT: B-J  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
																AND MSA-BJ-29B(OA)
MSA-BJ-38	MS-A	1	B9.11	P-VA	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			
MSA-BJ-42	MS-A	1	B9.11	VA-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			
MSA-BJ-43	MS-A	1	B9.11	P-FH	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-7A...
MSA-BJ-46	MS-A	1	B9.11	FH-P	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSA-BJ-48	MS-A	1	B9.11	P-VA	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSA-BJ-35*	MS-A	1	B9.11	P-E	24	1.219	P3	106	GE731E611-4	7	16		6		1	* FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-35A(1A) AND MSA-BJ-35B(OA)... MSH-167, HA-3...
MSA-BJ-36*	MS-A	1	B9.11	E-P	24	1.219	P3	106	GE731E611-4	7	16		6		1	* FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-35A(1A) AND MSA-BJ-35B(OA)... MSH-167, HA-3...
MSA-BJ-2	MS-A	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4		16		6		2	INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-1A, MSA-BJ-2A(1A), AND MSA-BJ-2B(OA). TOTAL LENGTH OF LS MAS-BJ-1A IS 6.5" !!
MSA-BJ-3	MS-A	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4		16		6		2	INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-2A(1A), MSA-BJ-2B(OA), AND MSA-BJ-3A
MSA-BJ-4	MS-A	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4		16		6		2	INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-3A AND MSA-BJ-4A
MSA-BJ-5	MS-A	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4		16		6		2	INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-4A AND MSA-BJ-5A
MSA-BJ-1*	MS-A	1	B9.11	SE-P	24"	1.219"	P3	106	GE731E611-4		16		6		2	* FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSA-BJ-1A, TOTAL LENGTH OF LS IS 6.5"...
MSA-BJ-111	MS-A	1	B9.11	N-SE	24	1.593	P3	115	GE731E611-4		16		6		2	
MSB-BJ-4	MS-B	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16		6			INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-3A AND

IWB-2500-1 CAT: B-J  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
MSB-BJ-6	MS-B	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			MSB-BJ-4A INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-6A, MSB-BJ-8A(IA), AND MSB-BJ-8B(OA)
MSB-BJ-8	MS-B	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-6A, MSB-BJ-8A(IA), AND MSB-BJ-8B(OA)
MSB-BJ-10	MS-B	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-8A(IA), MSB-BJ-8B(OA), AND MSB-BJ-10A
MSB-BJ-14	MS-B	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSB-BJ-15	MS-B	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSB-BJ-19	MS-B	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSB-BJ-20	MS-B	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSB-BJ-22	MS-B	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-10A, MSB-BJ-22A(IA), AND MSB-BJ-22B(OA)
MSB-BJ-23	MS-B	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-22A(IA) AND MSB-BJ-22B(OA)
MSB-BJ-30	MS-B	1	B9.11	E-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. MSB-BJ-29A(IA), MSB-BJ-29B(OA), MSB-BJ-30A(IA), AND MSB-BJ-30B(OA)
MSB-BJ-31	MS-B	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-30A(IA), MSB-BJ-30B(OA), MSB-BJ-31A(IA), AND MSB-BJ-31B(OA)
MSB-BJ-34	MS-B	1	B9.11	P-VA	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			
MSB-BJ-38	MS-B	1	B9.11	VA-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			
MSB-BJ-39	MS-B	1	B9.11	P-FH	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-7B...
MSB-BJ-43	MS-B	1	B9.11	P-P	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSB-BJ-44	MS-B	1	B9.11	P-VA	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSB-BJ-111	MS-B	1	B9.11	N-SE	24"	1.593"	P3	115	GE731E611-4	7	16	6	6		1	
MSB-BJ-28*	MS-B	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16		6		1	* FORMER PIPE WHIP EXAM... INCLUDE'S

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
MSB-BJ-29*	MS-B	1	B9.11	E-E	24	1.219	P3	106	GE731E611-4	7	16	6			1	INTERSECTION OF ADJ. LS MSB-BJ-28A(IA) AND MSB-BJ-28B(OA) HB-3, MSH-168 * FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-28A(IA), MSB-BJ-28B(OA), MSB-BJ-29A(IA), AND MSB-BJ-29B(OA) HB-3,MSH-168
MSB-BJ-1*	MS-B	1	B9.11	SE-P	24"	1.219"	P3	106	GE731E611-4	7	16	6			2	* FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-1A...
MSB-BJ-42	MS-B	1	B9.11	FH-P	24"	1.219"	P1	106	GE731E611-4	7	16	6	6		2	
MSB-BJ-2	MS-B	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6		3	INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-2A (IA), MSB-BJ-2B (OA), AND MSB-BJ-1A
MSB-BJ-3	MS-B	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6			3	INCLUDE'S INTERSECTION OF ADJ. LS MSB-BJ-2A (IA), MSB-BJ-2B (OA), AND MSB-BJ-3A
MSC-BJ-5	MS-C	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-3A AND MSC-BJ-5A
MSC-BJ-7	MS-C	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-5A AND MSC-BJ-7A
MSC-BJ-11	MS-C	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-7A, MSC-BJ-11A(IA), AND MSC-BJ-11B(OA)
MSC-BJ-13	MS-C	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-11A(IA), MSC-BJ-11B(OA), AND MSC-BJ-13A
MSC-BJ-17	MS-C	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSC-BJ-18	MS-C	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSC-BJ-22	MS-C	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSC-BJ-23	MS-C	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSC-BJ-26	MS-C	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF



PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
MSC-BJ-27	MS-C	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			LS MSC-BJ-13A, MSC-BJ-26A(IA), AND MSC-BJ-26B(OA) INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-26A(IA) AND MSC-BJ-26B(OA)
MSC-BJ-33	MS-C	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-32A(IA), MSC-BJ-32B(OA), AND MSC-BJ-33
MSC-BJ-34	MS-C	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-33A, MSC-BJ-34A(IA) AND MSC-BJ-34B(OA)
MSC-BJ-38	MS-C	1	B9.11	P-VA	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-35A...
MSC-BJ-42	MS-C	1	B9.11	VA-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			
MSC-BJ-43	MS-C	1	B9.11	P-FH	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-7C...
MSC-BJ-46	MS-C	1	B9.11	FH-P	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSC-BJ-47	MS-C	1	B9.11	P-P	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSC-BJ-48	MS-C	1	B9.11	P-VA	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSC-BJ-32	MS-C	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			1 INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-32A(IA) AND MSC-BJ-32B(OA), HC-3, MSH-169
MSC-BJ-35*	MS-C	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16		6			1 * FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-34A(IA), MSC-BJ-34B (OA), AND MSC-BJ-35A) HC-3, MSH-169
MSC-BJ-2	MS-C	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16		6			3 INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-1A, MSC-BJ-2A (IA), AND MSC-BJ-2B (OA)
MSC-BJ-1*	MS-C	1	B9.11	SE-P	24"	1.219"	P3	106	GE731E611-4	7	16		6			3 * FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-1A
MSC-BJ-3*	MS-C	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16		6			3 * FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS

IWB-2500-1 CAT: B-J  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
MSC-BJ-111	MS-C	1	B9.11	N-SE	24"	1.593"	P3	115	GE731E611-4		16	6	6			3 MSC-BJ-2A (1A), MSC-BJ-2B (OA), AND MSC-BJ-3A
MSD-BJ-2	MS-D	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6		INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-1A, MSD-BJ-2A(1A), AND MSD-BJ-2B(OA)	
MSD-BJ-3	MS-D	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-2A(1A), MSD-BJ-2B(OA), AND MSD-BJ-3A
MSD-BJ-4	MS-D	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-3A AND MSD-BJ-4A
MSD-BJ-5	MS-D	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-4A AND MSD-BJ-5A
MSD-BJ-7	MS-D	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-5A AND MSD-BJ-7A
MSD-BJ-10	MS-D	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF LS MSD-BJ-7A, MSD-BJ-10A(1A), AND MSD-BJ-10B(OA)
MSD-BJ-12	MS-D	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-10A(1A), MSD-BJ-10B(OA), AND MSD-BJ-12A
MSD-BJ-15	MS-D	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSD-BJ-16	MS-D	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSD-BJ-20	MS-D	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSD-BJ-21	MS-D	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSD-BJ-23	MS-D	1	B9.11	P-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-12A AND MSD-BJ-23A
MSD-BJ-25	MS-D	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSD-BJ-26	MS-D	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSD-BJ-29	MS-D	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSD-BJ-30	MS-D	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			
MSD-BJ-33	MS-D	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-23A, MSD-BJ-33A(1A), AND MSD-BJ-33B(OA)
MSD-BJ-34	MS-D	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			INCLUDE'S INTERSECTION OF

IWB-2500-1 CAT: B-J  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM RE#: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
																ADJ. LS MSD-BJ-33A(IA) AND MSD-BJ-33B(OA)
MSD-BJ-42	MS-D	1	B9.11	P-VA	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			
MSD-BJ-46	MS-D	1	B9.11	VA-P	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			
MSD-BJ-47	MS-C	1	B9.11	P-FH	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			INACCESSIBLE, INSIDE OF CONTAINMENT PENETRATION X-7D...
MSD-BJ-51	MS-D	1	B9.11	P-P	24"	1.219"	P1	106	GE731E611-4	7	16		6			
MSD-BJ-52	MS-D	1	B9.11	P-VA	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSD-BJ-39*	MS-D	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16		6			1 * * FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-39A(IA) AND MSD-BJ-39B(OA)
MSD-BJ-40*	MS-D	1	B9.11	E-P	24"	1.219"	P3	106	GE731E611-4	7	16		6			1 * * FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-39A(IA) AND MSD-BJ-39B(OA)... HD-2, MSH-170...
MSD-BJ-1*	MS-D	1	B9.11	SE-P	24"	1.219"	P3	106	GE731E611-4		16		6			2 * * FORMER PIPE WHIP EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-1A, TOTAL LENGTH OF LS IS 6.5"...
MSD-BJ-111	MS-D	1	B9.11	N-SE	24"	1.593"	P3	115	GE731E611-4	7	16	6	6			2
MSD-BJ-50	MS-D	1	B9.11	FH-P	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			3
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RSA-BJ-2	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-3	MS	1	B9.21	P-E	3"	.438"	P1		2506-2	7	16					
RSA-BJ-4	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-5	MS	1	B9.21	P-E	3"	.438"	P1		2506-2	7	16					
RSA-BJ-6	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-9	MS	1	B9.21	P-E	3"	.438"	P1		2506-2	7	16					
RSA-BJ-10	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-11	MS	1	B9.21	P-E	3"	.438"	P1		2506-2	7	16					
RSA-BJ-12	MS	1	B9.21	E-VA	3"	.438"	F1		2506-2	7	16					
RSA-BJ-13	MS	1	B9.21	VA-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-16	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-17	MS	1	B9.21	P-E	3"	.438"	P1		2506-2	7	16					
RSA-BJ-18	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-19	MS	1	B9.21	P-E	3"	.438"	P1		2506-2	7	16					

IWB-2500-1 CAT: B-J  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RSA-BJ-20	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-13A	MS	1	B9.21	P-FH	3"	.438"	P1		2506-2	7	16					INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-10...
RSA-BJ-1	MS	1	B9.21	WOL-E	3"	.438"	P1	N/A	2506-2	7	16					1
RSA-BJ-7*	MS	1	B9.21	P-E	3"	.438"	P1	N/A	2506-2		16					1 * FORMER PIPE WHIP EXAM
RSA-BJ-8*	MS	1	B9.21	E-P	3"	.438"	P1	N/A	2506-2		16					2 * FORMER PIPE WHIP EXAM
RSA-BJ-14	MS	1	B9.21	FH-P	3"	.438"	P1		2506-2	7	16					3
RSA-BJ-15	MS	1	B9.21	P-E	3"	.438"	P1	N/A	2506-2	7	16					3
RSA-BJ-21	MS	1	B9.21	P-VA	3"	.438"	P1		2506-2	7	16					3 *
MSDR-BJ-1	MSDR	1	B9.21	CAP-P	3"	160	P1		2506-3	7	16					
MSDR-BJ-3	MSDR	1	B9.21	V-P	3"	.438"	P1		2506-3	7	16					
MSDR-BJ-5	MSDR	1	B9.21	P-P	3"	.438"	P1		2506-3	7	16					MS-MO-74
MSDR-BJ-71	MSDR	1	B9.21	P-FH	3"	.438"	P1		2506-3	7	16					INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-8...
MSDR-BJ-72	MSDR	1	B9.21	P-VA	3"	.438"	P1	N/A	2506-3	7	16					PSI PERFORMED 12/15/1994... NEW WELD DUE TO DC 94-029...
MSDR-BJ-2	MSDR	1	B9.21	P-V	3"	.438"	P1		2506-3	7	16					2 MS-MO-74
MSDR-BJ-4	MSDR	1	B9.21	FH-P	3"	.438"	P1		2506-3	7	16					2
		29	***													
MSA-BJ-14	MS-A	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSA-BJ-19	MS-A	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSA-BJ-24	MS-A	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSB-BJ-13	MS-B	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSB-BJ-18	MS-B	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			2
MSC-BJ-21	MS-C	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSC-BJ-16	MS-C	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			2
MSC-BJ-8*	MS-C	1	B9.31	P-SWL	24-10	1.531	P3	106	GE731E611-4	7	16		6			3 * FORMER PIPE WHIP EXAM...
MSD-BJ-14	MS-D	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSD-BJ-19	MS-D	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSD-BJ-24	MS-D	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
MSD-BJ-28	MS-D	1	B9.31	P-SWL	24"-6"	1.219"	P1	106	GE731E611-4	7	16	6	6			
		12	***													
MSC-BJ-25*	MS-C	1	B9.32	P-WOL	24"-3"	1.219"	P1	106	GE731E611-4		16					2 * FORMER PIPE WHIP EXAM...
		1	***													

IWB-2500-1 CAT: B-J  
MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE..... SYSTEM.. CNT. ITEM.NO. CFIG... SIZE.. TKNS..... MAT... W81.CAL... ISO..... PT.. MT.. UT0.. UT45.... UT60.... PER REMARKS.....

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RHD-BJ-1	NB	1	B9.11	F-N	6"	120	F22		CE.232-244	7	16	6	6			N6A TOP-HD (0 DAZ)
NB-BJ-N6B	NB	1	B9.11	N-F	6"	120	F22		CE.232-244	7	16	6	6			N6B TOP-HD (180 DAZ)
NB-BJ-N7	NB	1	B9.11	F-N	4"	120	F22		CE.232-244	7	16	6	6		2	N7 TOP-HD
		3	***													
RVD-BJ-15	NBD	1	B9.21	P-E	2"	.218"	SS	N/A	X2512-200	7						REMOVE SUPPORT RRH-20 TO ACCESS WELD FOR EXAMINATION
RVD-BJ-17	NBD	1	B9.21	P-E	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-19	NBD	1	B9.21	P-T	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-20	NBD	1	B9.21	T-P	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-21	NBD	1	B9.21	P-E	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-22	NBD	1	B9.21	E-P	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-27	NBD	1	B9.21	P-E	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-28	NBD	1	B9.21	E-P	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-26	NBD	1	B9.21	T-P	2"	.218"	SS	N/A	X2512-200	7						1
RVD-BJ-16	NBD	1	B9.21	E-P	2"	.218"	SS	N/A	X2512-200	7						3
RVD-BJ-18	NBD	1	B9.21	E-P	2"	.218"	SS	N/A	X2512-200	7						3
RVI-BJ-11A2	NBI	1	B9.21	SE-P	2"	.218"	P12	N/A	X2507-219	7						( N-11A NOZ ) ALSO REF: CE DWG 232-242...
RVI-BJ-11B1	NBI	1	B9.21	N-SE	2"	.218"	P12	N/A	X2507-218	7						( N-11B NOZ ) ALSO REF: CE DWG 232-242
RVI-BJ-11B2	NBI	1	B9.21	SE-P	2"	.218"	P12	N/A	X2507-218	7						( N-11B NOZ ) ALSO REF: CE DWG 232-242
RVI-BJ-16A2	NBI	1	B9.21	SE-P	2"	.218"	P12	N/A	X2507-219	7						( N-16A NOZ ) ALSO RFE: CE DWG 232-242
RVI-BJ-16B1	NBI	1	B9.21	N-SE	2"	.218"	P12	N/A	X2507-218	7						( N-16B NOZ ) ALSO REF: CE DWG 232-242
RVI-BJ-16B2	NBI	1	B9.21	SE-P	2"	.218"	P12	N/A	X2507-218	7						( N-16B NOZ ) ALSO RFE: CE DWG 232-242
RVI-BJ-11A1	NBI	1	B9.21	N-SE	2"	.218"	P12	N/A	X2507-219	7					2	( N-11A NOZ ) ALSO REF: CE DWG 232-242...
RVI-BJ-16A1	NBI	1	B9.21	N-SE	2"	.218"	P12	N/A	X2507-219	7					2	( N-16A NOZ ) ALSO REF: CE DWG 232-242
		19	***													
RVD-BJ-8	NBD	1	B9.40	P-E	2"	.218"	CS	N/A	X2512-200		16					
RVD-BJ-9	NBD	1	B9.40	E-P	2"	.218"	CS	N/A	X2512-200		16					
RVD-BJ-10	NBD	1	B9.40	P-E	2"	.218"	CS	N/A	X2512-200		16					
RVD-BJ-11	NBD	1	B9.40	E-P	2"	.218"	CS	N/A	X2512-200		16					
RVD-BJ-12	NBD	1	B9.40	P-E	2"	.218"	CS	N/A	X2512-200		16					
RVD-BJ-13	NBD	1	B9.40	E-P	2"	.218"	CS	N/A	X2512-200		16					



IWB-2500-1 CAT: B-J  
 NUCLEAR BOILER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV:0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RVD-BJ-24	NBD	1	B9.40	V-P	2"	.218"	SS	N/A	X2512-200							
RVD-BJ-29	NBD	1	B9.40	P-T	2"	.218"	SS	N/A	X2512-200							
RVD-BJ-30	NBD	1	B9.40	T-R	2"	.218"	SS	N/A	X2512-200							
RVD-BJ-23	NBD	1	B9.40	P-V	2"	.218"	SS	N/A	X2512-200							
RVD-BJ-25	NBD	1	B9.40	P-V	2"	.218"	SS	N/A	X2512-200							1
RVD-BJ-31	NBD	1	B9.40	T-P	2"	.218"	SS	N/A	X2512-200							1
RVD-BJ-32	NBD	1	B9.40	P-V	2"	.218"	SS	N/A	X2512-200							1
RVI-BJ-11A3	NBI	1	B9.40	P-R	1.5"	.200"	P12	N/A	X2507-219							
RVI-BJ-16A3	NBI	1	B9.40	P-COU	2"	.218"	P12	N/A	X2507-219							( N-11A NOZ )
RVI-BJ-16A4	NBI	1	B9.40	COU-R	2"x1.5	.218"	F-304	N/A	X2507-219							
RVI-BJ-16A6	NBI	1	B9.40	P-E	1.5"	.200"	P12	N/A	X2507-219							
RVI-BJ-16A7	NBI	1	B9.40	E-P	1.5"	.200"	P12	N/A	X2507-219							
RVI-BJ-16A8	NBI	1	B9.40	P-T	1.5"	.200"	P12	N/A	X2507-219							OFF 2A TEMP. EQUAL. COL., ALSO REF: YARWAY DWG 021-043112
RVI-BJ-16B3	NBI	1	B9.40	P-COU	2"	.218"	P12	N/A	X2507-218							
RVI-BJ-16B4	NBI	1	B9.40	COU-R	2"x1.5	.218"	P12	N/A	X2507-218							
RVI-BJ-16B6	NBI	1	B9.40	P-E	1.5"	.200"	P12	N/A	X2507-218							
RVI-BJ-16B7	NBI	1	B9.40	E-P	1.5"	.200"	P12	N/A	X2507-218							
RVI-BJ-16B8	NBI	1	B9.40	P-T	1.5"	.200"	P12	N/A	X2507-218							OFF 2B TEMP. EQUAL. COL., ALSO REF: YARWAY DWG 021-043112
RVI-BJ-11B3	NBI	1	B9.40	P-R	2"x1"	.218"	P12	N/A	X2507-218							3
RVI-BJ-16A5	NBI	1	B9.40	I-P	1.5"	.200"	P12	N/A	X2507-219							3
RVI-BJ-16B5	NBI	1	B9.40	I-P	1.5"	.200"	P12	N/A	X2507-218							3
		27	***													
		49	***													

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKMS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RHA-BJ-8	RHR	1	B9.11	P-E	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-7A,PHA-BJ-8A(IA),A ND RHA-BJ-8B(OA)
RHA-BJ-9	RHR	1	B9.11	E-P	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-8A(IA),RHA-BJ-8B(O A),AND RHA-BJ-9A
RHA-BJ-15	RHR	1	B9.11	P-E	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-14A, RHA-BJ-15A(IA),AND RHA-BJ-15B(OA)
RHA-BJ-16	RHR	1	B9.11	E-E	20"	1.063"	F22	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-15A(IA),RHA-BJ-15B (OA),RHA-BJ-16A(IA),AND RHA-BJ-16B(OA)
RHA-BJ-17	RHR	1	B9.11	E-P	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-16A(IA),RHA-BJ-16B (OA),AND RHA-BJ-17A
RHA-BJ-18	RHR	1	B9.11	P-E	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-17A,RHA-BJ-18A(IA) ,AND RHA-BJ-18B(OA)
RHA-BJ-19	RHR	1	B9.11	E-P	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-18A(IA),RHA-BJ-18B (OA),AND RHA-BJ-19A
RHA-BJ-22	RHR	1	B9.11	P-E	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-19A,RHA-BJ-22A(IA) ,AND RHA-BJ-22B(OA)
RHA-BJ-23	RHR	1	B9.11	E-P	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-22A(IA),RHA-BJ-22B (OA),AND RHA-BJ-23A
RHA-BJ-25	RHR	1	B9.11	P-VA	20"	1.063"	P3	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-23A
RHA-BJ-27	RHR	1	B9.11	VA-E	20"	1.063"	F22	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-27A(IA),AND RHA-BJ-27B(OA)
RHA-BJ-28	RHR	1	B9.11	E-E	20"	1.063"	F22	103	2510-1	7	16	6	6			INCLUDE'S INTERSECTION OF

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RHA-BJ-30	RHR	1	B9.11	E-P	20"	1.063"	F22	103	2510-1		7	16	6	6		ADJ. LS RHA-BJ-27A(IA),RHA-BJ-27B (OA),RHA-BJ-28A(IA),AND RHA-BJ-28B(OA) INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-28A(IA),RHA-BJ-28B (OA),AND RHA-BJ-30B
RHA-BJ-31	RHR	1	B9.11	FH-VA	20"	1.063"	F22	103	2510-1		7	16	6	6		
RHA-BJ-30A	RHR	1	B9.11	P-FH	20"	1.063"	F22	103	2510-1		7	16	6	6		* INACCESSIBLE, INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-30B
RHA-BJ-6	RHR	1	B9.11	VA-E	20"	1.063"	F22	103	2510-1			16		6	1	INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-6A(IA),AND RHA-BJ-6B(OA)
RHA-BJ-7	RHR	1	B9.11	E-P	20"	1.063"	P3	103	2510-1			16		6	1	INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-6A(IA),RHA-BJ-6B(O A),AND RHA-BJ-7A
RHA-BJ-11	RHR	1	B9.11	P-E	20"	1.063"	P3	103	2510-1		7	16	6	6	3	INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-9A, RHA-BJ-11A(IA), AND RHA-BJ-11B(OA)
RHA-BJ-12*	RHR	1	B9.11	E-P	20"	1.063"	P3	103	2510-1		7	16		6	3	* FORMER PIPE WHIP EXAM, INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-11A(IA),RHA-BJ-11B (OA),AND RHA-BJ-12A
RHA-BJ-14*	RHR	1	B9.11	P-P	20"	1.063"	P3	103	2510-1		7	16		6	3	* FORMER PIPE WHIP EXAM * INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-12A AND RHA-BJ-14A
RHB-BJ-8	RHR-A	1	B9.11	E-P	24"	1.063"	P3	114	2510-4		7	16		6		INCLUDE'S INTERSECTION OF ADJ. LS RHB-BJ-7A(IA),RHB-BJ-7B(O A),AND RHB-BJ-8A... CIRC WELD EXAM LIMITED DUE TO LOCATION OF SHEAR LUGS...
RHB-BJ-10	RHR-A	1	B9.11	E-P	24"	1.063"	P3	114	2510-4		7	16	6	6		ON ISO AS RHR (INCLUDE'S INTERSECTION OF ADJ. LS RHB-BJ-8A,RHB-BJ-10A(IA), AND RHB-BJ-10B(OA)
RHB-BJ-20	RHR-A	1	B9.11	E-P	24"	1.063"	P3	114	2510-4		7	16	6	6		INCLUDE'S INTERSECTION OF ADJ. LS

1WB-2500-1 CAT: B-J  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: G  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....	
RHB-BJ-21	RHR-A	1	B9.11	P-E	24"	1.063"	P3	114	2510-4	7	16	6	6			RHB-BJ-18A,RHB-BJ-20A(1A) ,AND RHB-BJ-20B(OA) INCLUDE'S INTERSECTION OF ADJ. LS	
RHB-BJ-22	RHR-A	1	B9.11	VA-P	24"	1.063"	P3	114	2510-4	7	16	6	6			RHB-BJ-20A(1A),RHB-BJ-20B (OA),AND RHB-BJ-21A INCLUDE'S INTERSECTION OF ADJ. LS RHB-BJ-21A	
RHB-BJ-25	RHR-A	1	B9.11	E-VA	24"	1.063"	F22	113	2510-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHB-BJ-25A(1A) AND RHB-BJ-25B(OA)	
RHB-BJ-26	RHR-A	1	B9.11	P-E	24"	1.063"	P3	114	2510-4	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHB-BJ-25A(1A),RHB-BJ-25B (OA),AND RHB-BJ-26A INCLUDE'S INTERSECTION OF ADJ. LS	
RHB-BJ-27	RHR-A	1	B9.11	E-P	24"	1.063"	P3	114	2510-4	7	16	6	6			RHB-BJ-26A,RHB-BJ-27A(1A) ,AND RHB-BJ-27B(OA) INCLUDE'S INTERSECTION OF ADJ. LS	
RHB-BJ-28	RHR-A	1	B9.11	P-E	24"	1.063"	F22	113	2510-4	7	16	6	6			RHB-BJ-27A(1A),RHB-BJ-27B (OA),AND RHB-BJ-28B	
RHB-BJ-29	RHR-A	1	B9.11	VA-FH	24"	1.063"	F22	113	2510-4	7	16	6	6				
RHB-BJ-17*	RHR-A	1	B9.11	P-P	24"	1.063"	P3	114	2510-4	7	16	6	6			* FORMER PIPE WHIP EXAM (ON ISO AS RMB) INCLUDE'S INTERSECTION OF ADJ. LS RHB-BJ-11A AND RHB-BJ-17A, CIR WELD LIMITED DUE TO LOCATION OF SHEAR LUGS INACCESSABLE, INSIDE CONTAINMENT PENETRATION X-13A... INCLUDE'S INTERSECTION OF ADJ. LS RHB-BJ-28B	
RHB-BJ-28A	RHR-A	1	B9.11	P-FH	24"	1.063"	F22	113	2510-4	7	16	6	6			1	RHB-BJ-10A(1A),RHB-BJ-10B (OA),AND RHB-BJ-11A
RHB-BJ-11	RHR-A	1	B9.11	P-E	24"	1.063"	P3	114	2510-4	7	16	6	6				* FORMER PIPE WHIP EXAM, INCLUDE'S INTERSECTION OF ADJ. LS. RHB-BJ-17A AND RHB-BJ-18A
RHB-BJ-18*	RHR-A	1	B9.11	P-P	24"	1.063"	P3	114	2510-4	7	16	6	6			1	

IWB-2500-1 CAT: B-J  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RHB-BJ-1	RHR-A	1	B9.11	E-V	24"	1.063"	F22	113	2510-4	7	16	6			3	INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-1A(IA) AND RHA-BJ-1B(OA)
RHB-BJ-2	RHR-A	1	B9.11	P-E	24"	1.063"	P3	114	2510-4	7	16	6			3	INCLUDE'S INTERSECTION OF ADJ. LS RHB-BJ-1A(IA),RHB-BJ-1B(O A),AND RHB-BJ-2A
RHB-BJ-7	RHR-A	1	B9.11	E-P	24"	1.063"	P3	114	2510-4	7	16	6	6		3	INCLUDES'S INTERSECTION OF ADJ. LS RHB-BJ-2A, RHB-BJ-7A(IA), AND RHB-BJ-7B(OA)
RHC-BJ-6	RHR-B	1	B9.11	E-P	24"	1.063"	P3	114	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-2A,RHC-BJ-6A(IA),A ND RHC-BJ-6B(OA)
RHC-BJ-7	RHR-B	1	B9.11	P-E	24"	1.063"	P3	114	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-6A(IA),RHC-BJ-6B(O A),AND RHC-BJ-7A
RHC-BJ-8	RHR-B	1	B9.11	E-P	24"	1.063"	P3	114	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-7A,RHC-BJ-8A(IA),A ND RHC-BJ-8B(OA)
RHC-BJ-9	RHR-B	1	B9.11	P-E	24"	1.063"	P3	114	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-8A(IA),RHC-BJ-8B(O A),AND RHC-BJ-9A
RHC-BJ-12	RHR-B	1	B9.11	P-E	24"	1.063"	P3	114	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS 10A(IA),RHC-BJ-10B(OA),AN D RHC-BJ-12A
RHC-BJ-17	RHR-B	1	B9.11	E-P	24"	1.063"	P3	114	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-15A,RHC-BJ-17A(IA) ,AND RHC-BJ-17B(OA)
RHC-BJ-18	RHR-B	1	B9.11	P-E	24"	1.063"	P3	114	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-17A(IA),RHC-BJ-17B (OA),AND RHC-BJ-18A
RHC-BJ-19	RHR-B	1	B9.11	VA-P	24"	1.063"	P3	114	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-18A
RHC-BJ-22	RHR-B	1	B9.11	E-VA	24"	1.063"	F22	113	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-22A(IA) AND RHC-BJ-22B(OA)

IWB-2500-1 CAT: B-J  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RHC-BJ-23	RHR-B	1	B9.11	P-E	24"	1.063"	F22	113	2510-3	7	16	6	6			INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-22A(1A),RHC-BJ-22B (0A),AND RHC-BJ-23A INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-13B... INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-23A
RHC-BJ-24	RHR-B	1	B9.11	FH-P	24"	1.063"	F22	113	2510-3	7	16	6	6			
RHC-BJ-25	RHR-B	1	B9.11	VA-FH	24"	1.063"	F22	113	2510-3	7	16	6	6			
RHC-BJ-1	RHR-B	1	B9.11	E-VA	24"	1.063"	F22	113	2510-3		16		6		2	INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-1A(1A) AND RHC-BJ-1B(0A)
RHC-BJ-2	RHR-B	1	B9.11	P-E	24"	1.063"	P3	114	2510-3		16		6		2	INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-1A(1A),RHC-BJ-1B(O A),AND RHC-BJ-2A
RHC-BJ-10*	RHR-B	1	B9.11	E-P	24"	1.063"	P3	114	2510-3		16		6		2	* FORMER PIPE WHIP EXAM, INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-9A,RHC-BJ-10A(1A), AND RHC-BJ-10B(0A)
RHC-BJ-15*	RHR-B	1	B9.11	P-P	24"	1.063"	P3	114	2510-3		16		6		2	* FORMER PIPE WHIP EXAM, INCLUDE'S INTERSECTION OF ADJ. LS RHC-BJ-12A AND RHC-BJ-15A

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
CWA-BJ-3	RR-A	1	B9.11	P-P	6"	.432"	P20	48	2503-1	7	6	6,26				
RAD-BJ-5	RR-A	1	B9.11	T-4W	30"	2.250"	P20	58	CNS-RR-37	7	6	6,26,18				
RAH-BJ-1	RR-A	1	B9.11	4W-P	22"	1.125"	P20	54	CNS-RR-37	7	6	6,26,18				
RAH-BJ-2	RR-A	1	B9.11	4W-P	22"	1.125"	P20	54	CNS-RR-37	7	6	6,26,18				
RAS-BJ-3	RR-A	1	B9.11	P-T	28"	1.250"	P20	56	CNS-RR-37	7	6	6,26,18				
RAS-BJ-4	RR-A	1	B9.11	T-P	28"	1.250"	P20	56	CNS-RR-37	7	6	6,26,18				
RAS-BJ-5	RR-A	1	B9.11	P-VA	28"	1.250"	P20	56	CNS-RR-37	7	6	6,26,18				
RAS-BJ-6	RR-A	1	B9.11	VA-P	28"	1.250"	P20	56	CNS-RR-37	7	6	6,26,18				
RAS-BJ-7	RR-A	1	B9.11	P-E	28"	1.250"	P20	56	CNS-RR-37	7	6	6,26,18				
RAS-BJ-8	RR-A	1	B9.11	E-PU	28"	1.250"	P20	56	CNS-RR-37	7	6	6,26,18				
RRF-BJ-2	RR-A	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRF-BJ-3	RR-A	1	B9.11	P-P	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRF-BJ-4	RR-A	1	B9.11	P-P	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRF-BJ-5	RR-A	1	B9.11	R-P	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRG-BJ-2	RR-A	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRG-BJ-3	RR-A	1	B9.11	T-P	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRJ-BJ-2	RR-A	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRJ-BJ-3	RR-A	1	B9.11	T-P	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRK-BJ-2	RR-A	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRK-BJ-3	RR-A	1	B9.11	P-P	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRK-BJ-4	RR-A	1	B9.11	P-P	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RRK-BJ-5	RR-A	1	B9.11	R-P	12"	.688"	P20	50	CNS-RR-37	7	6	6,26,18				
RAS-BJ-13	RR-A	1	B9.11	P-V	20"	1.031"	P3	103	CNS-RR-37	7		6,26,18				INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-3A... ALSO REFERENCE JELCO DWG #2511-1...
RAS-BJ-6B	RR-A	1	B9.11	WOL-F	4"		P20		CNS-RR-37	7	6	6,26,18				
RAS-BJ-2	RR-A	1	B9.11	SE-P	28"	1.250"	P20	56	CNS-RR-37	7		6,26,18			1	
RAS-BJ-9	RR-A	1	B9.11	T-E	20"	1.031"	P20	53	CNS-RR-37	7	6	6,26,18			1	ALSO REFERENCE JELCO DWG #2511-1...
RRH-BJ-2	RR-A	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-37	7		6,26,18			1	
RAS-BJ-11	RR-A	1	B9.11	E-E	20"	1.031	P20	53	CNS-RR-37	7		6,26,18			1	ALSO REFERENCE JELCO DWG #2511-1...
RAD-BJ-4	RR-A	1	B9.11	P-T	28"	1.250"	P20	56	CNS-RR-37	7		6,26,18			2	
RRH-BJ-3	RR-A	1	B9.11	R-P	12"	.688"	P20	50	CNS-RR-37	7		6,26,18			2	
CWA-BJ-1*	RR-A	1	B9.11	WOL-P	6"	.432"	P20	48	2503-1	7	6	6,26			2	* FORMER PIPE WHIP EXAM * ALSO REFERENCE JELCO DWG #2511-1 AND NPPD DWG #CNS-RR-37...
CWA-BJ-2	RR-A	1	B9.11	P-P	6"	.432"	P20	48	2503-1	7		6,26			3	
CWA-BJ-4	RR-A	1	B9.11	P-VA	6"	.432	P20	48	2503-1	7	6	6,26			3	
RAD-BJ-1	RR-A	1	B9.11	PU-P	28	1.250	P20	56	CNS-RR-37	7		6,26,18			3	
RAD-BJ-2	RR-A	1	B9.11	P-VA	28	1.250	P20	56	CNS-RR-37	7		6,26,18			3	
RAD-BJ-3	RR-A	1	B9.11	VA-F	28	1.250	P20	56	CNS-RR-37	7		6,26,18			3	

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RAD-BJ-6	RR-A	1	B9.11	P-T	24"	1.218"	P20	55	CNS-RR-37	7		6	6,26,18		3	ALSO REFERENCE JELCO DWG #2512-1...
RAD-BJ-40	RR-A	1	B9.11	VA-P	24"	1.218"	P3	106	2512-1		16	6			3	SEE NCR 89-071 (INCLUDE'S INTERSECTION OF ADJ. LS RAD-BJ-40A)...
RBD-BJ-1	RR-B	1	B9.11	PU-P	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBD-BJ-2	RR-B	1	B9.11	P-VA	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBD-BJ-3	RR-B	1	B9.11	VA-P	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBD-BJ-4	RR-B	1	B9.11	P-T	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBD-BJ-5	RR-B	1	B9.11	T-4W	30"	2.250"	P20	58	CNS-RR-38	7		6	6,26,18			
RBH-BJ-1	RR-B	1	B9.11	4W-P	22"	1.125"	P20	54	CNS-RR-38	7		6	6,26,18			
RBH-BJ-2	RR-B	1	B9.11	4W-P	22"	1.125"	P20	54	CNS-RR-38	7		6	6,26,18			
RBS-BJ-2	RR-B	1	B9.11	SE-P	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBS-BJ-3	RR-B	1	B9.11	P-P	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBS-BJ-4	RR-B	1	B9.11	P-P	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBS-BJ-5	RR-B	1	B9.11	P-VA	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBS-BJ-6	RR-B	1	B9.11	VA-P	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBS-BJ-7	RR-B	1	B9.11	P-E	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RBS-BJ-8	RR-B	1	B9.11	E-PU	28"	1.250"	P20	56	CNS-RR-38	7		6	6,26,18			
RRA-BJ-3	RR-B	1	B9.11	P-P	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18			
RRA-BJ-4	RR-B	1	B9.11	P-P	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18			
RRA-BJ-5	RR-B	1	B9.11	R-P	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18			
RRB-BJ-3	RR-B	1	B9.11	T-P	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18			
RRC-BJ-2	RR-B	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18			
RRC-BJ-3	RR-B	1	B9.11	R-P	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18			
RRD-BJ-3	RR-B	1	B9.11	T-P	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18			
RBD-BJ-40	RR-B	1	B9.11	VA-P	24"	1.218"	P-3	106	2512-1	7	16	6				SEE NCR 89-071 (INCLUDE'S INTERSECTION OF ADJ. LS RBD-BJ-40A)
RRE-BJ-6B	RR-B	1	B9.11	WOL-F	4"		P20		CNS-RR-38	7		6	6,26,18			
RBD-BJ-FW3	RR-B	1	B9.11	V.BON-P	2"	.218"	P-12	N/A	CNS-RR-38	7						(PSI F91)(ON VLV # RR-MO-53B) FORMERLY FW-3
RRE-BJ-2	RR-B	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-38	7			6,26,18		1	
RBD-BJ-6	RR-B	1	B9.11	P-T	24"	1.218"	P20	55	CNS-RR-38	7		6	6,26,18		2	ALSO REFERENCE JELCO DWG #2512-1...
RRE-BJ-3	RR-B	1	B9.11	P-P	12"	.688"	P20	50	CNS-RR-38	7			6,26,18		2	
RRE-BJ-4	RR-B	1	B9.11	P-F	12"	.688"	P20	50	CNS-RR-38	7			6,26,18		2	
RRE-BJ-5	RR-B	1	B9.11	R-P	12"	.688"	P20	50	CNS-RR-38	7			6,26,18		2	
RRA-BJ-2	RR-B	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18		3	
RRB-BJ-2	RR-B	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18		3	
RRD-BJ-2	RR-B	1	B9.11	P-SE	12"	.688"	P20	50	CNS-RR-38	7		6	6,26,18		3	

IWB-2500-1 CAT: B-J  
 REACTOR RECIRCULATION SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RAS-BJ-6A	RR-A	1	B9.31	P-WOL	28"-4"		P20		CNS-RR-37	7	6	6,26,18				
RAS-BJ-10	RR-A	1	B9.31	E-WOL	20"-6"	.432"	P20		CNS-RR-37	7	6	6,26,18			2	ALSO REFERENCE JELCO DWG #2511-1 AND DWG #2503-1...
RBS-BJ-6A	RR-B	1	B9.31	P-WOL	28"-4"		P20		CNS-RR-38	7	6	6,26,18			3	
		3	***													
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IWB-2500-1 CAT: B-J  
 REACTOR WATER CLEANUP SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKHS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
CWA-BJ-6	RWCU	1	B9.11	P-P	6"	.432"	P20	48	2503-1	7		6	6,26			
CWA-BJ-9	RWCU	1	B9.11	P-E	6"	.432"	P20	48	2503-1	7		6	6,26			
CWA-BJ-11	RWCU	1	B9.11	P-FH	6"	.432"	P20	48	2503-1	7		6	6,26			INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-14... ALSO REFERENCE NPPD DWG CNS-RWCU-3...
CWA-BJ-14	RWCU	1	B9.11	P-P	6"	.432"	P20	48	2503-1	7			6,26			
CWA-BJ-16	RWCU	1	B9.11	P-V	6"	.432"	P20	48	2503-1	7		6	6,26			(PSI F91) REPLACED RWCU-MO-18 VLV, THIS IS A NEW WELD
CWA-BJ-17	RWCU	1	B9.11	P-V	6"	.432"	P20	48	2503-1	7			6,26			(PSI F91) REPLACED RWCU-MO-15 VLV, THIS REPLACED WELD NO. CWA-BJ-7
CWA-BJ-18	RWCU	1	B9.11	V-P	6"	.432"	P20	48	2503-1	7			6,26			(PSI F91) REPLACED RWCU-MO-15 VLV, THIS REPLACED WELD NO. CWA-BJ-8
CWA-BJ-10	RWCU	1	B9.11	E-P	6"	.432"	P20	48	2503-1	7			6,26		1	
CWA-BJ-15	RWCU	1	B9.11	FH-P	6"	.432"	P20	48	2503-1	7			6,26		2	(PSI F91) REPLACED RWCU-MO-18 VLV, THIS REPLACED WELD NO. CWA-BJ-12
CWA-BJ-5	RWCU	1	B9.11	VA-P	6"	.432"	P20	48	2503-1	7		6	6,26		3	
		10	***													
CWA-BJ-45	RWCU	1	B9.32	COU-P	2"-6"		SS	N/A	2503-1	7					3	
		1	***													
CWA-BJ-31	RWCU	1	B9.40	P-E	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-32	RWCU	1	B9.40	E-P	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-33	RWCU	1	B9.40	P-E	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-34	RWCU	1	B9.40	E-P	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-37	RWCU	1	B9.40	P-P	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-38	RWCU	1	B9.40	P-E	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-39	RWCU	1	B9.40	E-P	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-40	RWCU	1	B9.40	P-E	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-41	RWCU	1	B9.40	E-P	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-42	RWCU	1	B9.40	P-E	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-43	RWCU	1	B9.40	E-P	2"	.218"	SS	N/A	X2503-200	7						
CWA-BJ-30	RWCU	1	B9.40	V-P	2"	.218"	SS	N/A	X2503-200	7						2
CWA-BJ-35	RWCU	1	B9.40	P-E	2"	.218"	SS	N/A	X2503-200	7						2

IWB-2500-1 CAT: B-J  
REACTOR WATER CLEANUP SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
CWA-BJ-36	RWCU	1	B9.40	E-P	2"	.218"	SS	N/A	X2503-200		7				2	
CWA-BJ-44	RWCU	1	B9.40	P-COU	2"	.218"	SS	N/A	X2503-200		7				3	

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKMS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
SLC-BJ-2	SLC	1	B9.21	T-SE	2"	.218"	P14	N/A	X2504-200	7						
SLC-BJ-26	SLC	1	B9.21	FH-P	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-1	SLC	1	B9.21	N-SE	2"	.218"	P14	N/A	X2504-200	7						
SLC-BJ-27	SLC	1	B9.21	P-FH	1.5"	.200"	P14	N/A	X2504-201	7						INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-42... ALSO REFERENCE JELCO DWG PT-2-B...
		4	***													3 3
SLC-BJ-3	SLC	1	B9.40	T-RED	2"-1"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-4	SLC	1	B9.40	RED-T	2"-1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-6	SLC	1	B9.40	T-P	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-7	SLC	1	B9.40	T-RED	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-10	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-11	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-12	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-13	SLC	1	B9.40	COU-P	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-14	SLC	1	B9.40	P-COU	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-15	SLC	1	B9.40	V-P	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-18	SLC	1	B9.40	T-RED	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-19	SLC	1	B9.40	P-T	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-20	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-21	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-22	SLC	1	B9.40	V-P	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-25	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-29	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-30	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-31	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-32	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-33	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-34	SLC	1	B9.40	COU-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-35	SLC	1	B9.40	P-COU	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-36	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-39	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-40	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-41	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-42	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-43	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-46	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-47	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-48	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-49	SLC	1	B9.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-50	SLC	1	B9.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						



IWB-2500-1 CAT: B-J  
 STANBY LIQUID CONTROL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTD..	UT45....	UT60....	PER	REMARKS.....
SLC-BJ-51	SLC	1	89.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-52	SLC	1	89.40	T-P	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-53	SLC	1	89.40	T-RED	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-54	SLC	1	89.40	P-T	1.5"	.200"	P14	N/A	X2504-201	7						
SLC-BJ-8	SLC	1	89.40	P-T	1.5"	.200"	P14	N/A	X2504-200	7						
SLC-BJ-9	SLC	1	89.40	E-P	1.5"	.200"	P14	N/A	X2504-200	7						1
SLC-BJ-16	SLC	1	89.40	P-V	1.5"	.200"	P14	N/A	X2504-200	7						1
SLC-BJ-17	SLC	1	89.40	T-P	1.5"	.200"	P14	N/A	X2504-200	7						1
SLC-BJ-37	SLC	1	89.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						2
SLC-BJ-38	SLC	1	89.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						2
SLC-BJ-44	SLC	1	89.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						2
SLC-BJ-45	SLC	1	89.40	P-E	1.5"	.200"	P14	N/A	X2504-201	7						2
SLC-BJ-5	SLC	1	89.40	P-RED	1.5"	.200"	P14	N/A	X2504-200	7						3
SLC-BJ-23	SLC	1	89.40	P-V	1.5"	.200"	P14	N/A	X2504-200	7						3
SLC-BJ-24	SLC	1	89.40	E-P	1.5"	.200"	P14	N/A	X2504-200	7						3
SLC-BJ-28	SLC	1	89.40	E-P	1.5"	.200"	P14	N/A	X2504-201	7						3
SLC-BJ-55	SLC	1	89.40	V-P	1.5"	.200"	P14	N/A	X2504-201	7						3

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CODE CASE N-509  
 IWB-2500-1 CAT: B-K-1  
 FEEDWATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT....	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....	
CWB-BK1-6	FW-A	1	B10.20	STW	2	TYP-A	CS	2509-1	7	16		RFH-74...	
FWA-BK1-4	FW-A	1	B10.20	HSL			CS	2509-1	7	16	RI-17	RFH-72... (LUGS) MUST REMOVE PIPE CLAMP ON SUPPORT RFH-72 TO ACCESS COMPLETE EXAM AREA	
FWA-BK1-7	FW-A	1	B10.20	SSL			CS	2509-1	7	16	RI-17	RFS-17...	
FWB-BK1-4	FW-A	1	B10.20	SSL			CS	2509-1	7	16	RI-17	RFS-14...	
FWA-BK1-12	FW-A	1	B10.20	SSL			CS	2509-1	7	16	RI-17	RFS-18,RFS-19... (12 LUGS)	
FWA-BK1-16	FW-A	1	B10.20	SSL			CS	2509-1	7	16	RI-17	RFS-15... (LUGS)	
FWA-BK1-28	FW-A	1	B10.20	HSL			CS	2509-1	7	16	RI-17	RFH-69...	
FWA-BK1-36	FW-A	1	B10.20	SP-FH			CS	2509-1	7	16		RFH-68A... PLATE, ATTACHMENT WELDED TO CONT PEN X-9A, EXAM LIMITED DUE TO CONFIGURATION OF CONT PEN X-9A AND ATTACHMENT, RELIEF REQUEST REQUIRED	
FWA-BK1-80	FW-A	1	B10.20	SSL			CS	2509-1	7	16	RI-17	RFS-16... MUST REMOVE PIPE CLAMP TO ACCESS COMPLETE EXAM AREA, PIPE CLAMP WELDED TOGETHER	
FWB-BK1-8	FW-A	1	B10.20	HSL			CS	2509-1	7	16	1	RI-17	RFH-73...
FWC-BK1-4	FW-B	1	B10.20	HSL			CS	2509-2	7	16		RI-17	RFH-66... (LUGS)
FWD-BK1-4	FW-B	1	B10.20	HSL			CS	2509-2	7	16		RI-17	RFH-65... (LUGS)
FWD-BK1-7	FW-B	1	B10.20	HSL			CS	2509-2	7	16		RI-17	RFS-10... (LUGS)
FWD-BK1-12	FW-B	1	B10.20	SSL			CS	2509-2	7	16		RI-17	RFS-8,RFS-9... (12 LUGS)
FWD-BK1-26	FW-B	1	B10.20	HSL			CS	2509-2	7	16		RI-17	RFH-62... LUGS WELDED TO PIPE CLAMP ON SUPPORT RFH-62
FWB-BK1-35	FW-B	1	B10.20	SP-FH			CS	2509-2	7	16			RFH-62A... PLATE, ATTACHMENT WELDED TO CONT PEN X-9B, EXAM LIMITED DUE TO CONFIGURATION OF CONT PEN X9B AND ATTACHMENT, RELIEF REQUEST REQUIRED
FWC-BK1-8	FW-B	1	B10.20	SSL			CS	2509-2	7	16	2	RI-17	RFS-13...
			17	***									
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CODE CASE N-509  
 IWB-2500-1 CAT: B-K-1  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER	RELREQ	REMARKS.....
PSA-BK1-23	MS	1	B10.20	SP-FH			CS	2506-1	7	16			MSH-134A... PLATE, ATTACHMENT WELDED TO CONT PEN X-11
RSA-BK1-22	MS	1	B10.20	IPS				2506-2	7	16			MSH-149A...
RSA-BK1-23	MS	1	B10.20	STN			CS	2506-2	7	16			MSH-150...
PSA-BK1-19	MS	1	B10.20	HSL			CS	2506-1	7	16	1	RI-17	MSH-134...
MSA-BK1-11	MS-A	1	B10.20	SP			CS	GE731E611-4	7	16			MS-SSA3...
MSA-BK1-13	MS-A	1	B10.20	SP			CS	GE731E611-4	7	16			MS-SSA2...
MSA-BK1-18	MS-A	1	B10.20	LUGS			CS	GE731E611-4	7	16		RI-17	MS-HA2...
MSA-BK1-28	MS-A	1	B10.20	LUGS			CS	GE731E611-4	7	16		RI-17	HA-3...
MSA-BK1-44	MS-A	1	B10.20	SP-FH			CS	GE731E611-4	7	16			MSH-167... ATTACHMENT WELDED TO CONT PEN X-7A, EXAM LIMITED DUE TO CONFIGURATION OF CONT PEN X-7A AND ATTACHMENT, RELIEF REQUEST REQUIRED
MSA-BK1-GA1	MS-A	1	B10.20	HSL			CS	GE731E671	7	16		RI-17	MS-GA1...
MSA-BK1-6	MS-A	1	B10.20	HSL			CS	GE731E611-4	7	16	3	RI-17	MS-HA1...
MSB-BK1-5	MS-B	1	B10.20	HSL			CS	GE731E611-4	7	16		RI-17	MS-HB1... (LUGS)
MSB-BK1-11	MS-B	1	B10.20	SP			CS	GE731E611-4	7	16			MS-SSB3...
MSB-BK1-12	MS-B	1	B10.20	SP			CS	GE731E611-4	7	16			MS-SSB2...
MSB-BK1-17	MS-B	1	B10.20	LUGS			CS	GE731E611-4	7	16		RI-17	MS-HB2...
MSB-BK1-40	MS-B	1	B10.20	SP-FH			CS	GE731E611-4	7	16			MSH-168... ATTACHMENT WELDED TO CONT PEN X-7B, EXAM LIMITED DUE TO CONFIGURATION OF CONT PEN X-7B AND ATTACHMENT, RELIEF REQUEST REQUIRED
MSB-BK1-GB1	MS-B	1	B10.20	HSL			CS	GE731E671	7	16		RI-17	MS-GB1...
MSB-BK1-32	MS-B	1	B10.20	LUGS			CS	GE731E611-4	7	16	2	RI-17	MS-HB3...
MSC-BK1-6	MS-C	1	B10.20	HSL			CS	GE731E611-4	7	16		RI-17	MS-HC1... (LUGS)
MSC-BK1-12	MS-C	1	B10.20	SP			CS	GE731E611-4	7	16			MS-SSC3...
MSC-BK1-14	MS-C	1	B10.20	SP			CS	GE731E611-4	7	16			MS-SSC2...
MSC-BK1-15	MS-C	1	B10.20	LUGS			CS	GE731E611-4	7	16		RI-17	MS-HC2...
MSC-BK1-20	MS-C	1	B10.20	LUGS			CS	GE731E611-4	7	16		RI-17	MS-HC3...
MSC-BK1-23	MS-C	1	B10.20	SP			CS	GE731E611-4	7	16			MSH-169... ATTACHMENT WELDED TO CONT PEN X-7C, EXAM LIMITED DUE TO CONFIGURATION OF CONT PEN X-7C AND ATTACHMENT, RELIEF REQUEST REQUIRED
MSC-BK1-GC1	MS-C	1	B10.20	HSL			CS	GE731E671	7	16		RI-17	MS-GC1...
MSD-BK1-6	MS-D	1	B10.20	HSL			CS	GE731E611-4	7	16		RI-17	MS-HD1... (LUGS) MUST REMOVE PIPE CLAMP ON

CODE CASE N-509  
 IWB-2500-1 CAT: B-K-1  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE..... SYSTEM.. CNT. ITEM.NO. CFG... SIZE.. TKNS..... MAT... ISO..... PT.. MT.. PER RELREQ REMARKS.....

PIPE	SYSTEM	CNT.	ITEM.NO.	CFG	SIZE	TKNS	MAT	ISO	PT	MT	PER RELREQ	REMARKS	
MSD-BK1-11	MS-D	1	B10.20	SP			CS	GE731E611-4	7	16		SUPPORT MS-HD1 TO ACCESS COMPLETE EXAM AREA	
MSD-BK1-13	MS-D	1	B10.20	SP			CS	GE731E611-4	7	16		MS-SSD3...	
MSD-BK1-18	MS-D	1	B10.20	LUGS			CS	GE731E611-4	7	16		MS-SSD2...	
MSD-BK1-48	MS-D	1	B10.20	SP-FH			CS	GE731E611-4	7	16	RI-17	MS-HD2... MSH-170... ATTACHMENT WELDED TO CONT PEN X-7D, EXAM LIMITRD DUE TO CONFIGURATION OF CONT PEN X-7D AND ATTACHMENT, RELIEF REQUEST REQUIRED	
MSD-BK1-GD1	MS-D	1	B10.20	HSL			CS	GE731E671	7	16	RI-17	MS-GD1...	
MSD-BK1-32	MS-D	1	B10.20	LUGS			CS	GE731E611-4	7	16	3	RI-17	MS-HD3...
MSDR-BK1-4A	MSDR	1	B10.20	STN	3	.438	P1	2506-3	7	16		MSH-152...	

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CODE CASE N-509  
 IWB-2500-1 CAT: B-K-1  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....
RHA-BK1-20	RHR	1	B10.20	HSL			CS	2510-1	7	16		RI-17 RHH-34... (LUGS)
RHA-BK1-24	RHR	1	B10.20	HSL			CS	2510-1	7	16		RI-17 RHS-69... (LUGS)
RHA-BK1-80	RHR	1	B10.20	HSL			CS	2510-1	7	16		RI-17 RHH-33... (LUGS)
RHA-BK1-81	RHR	1	B10.20	STN			CS	2510-1	7	16		RHS-70...
RHB-BK1-9	RHR-A	1	B10.20	SSL			CS	2510-4	7	16		RI-17 RHS-8... (LUGS)
RHB-BK1-80	RHR-A	1	B10.20	IPS	24		CS	2410-4	7	16		RHH-121...
RHB-BK1-81	RHR-A	1	B10.20	IPS	24		CS	2410-4	7	16		RHH-123...
RHB-BK1-16	RHR-A	1	B10.20	SSL			CS	2510-4	7	16	3	RI-17 RHS-6... (LUGS)
RHC-BK1-13	RHR-B	1	B10.20	SSL			CS	2510-3	7	16		RI-17 RHS-15... (LUGS)
RHC-BK1-80	RHR-B	1	B10.20	SSL			CS	2510-3	7	16		RI-17 RHS-18 AND RHS-19... (LUGS)
RHC-BK1-81	RHR-B	1	B10.20	SSL			CS	2510-3	7	16		RI-17 RHS-13... (LUGS)
RHC-BK1-24	RHR-B	1	B10.20	STN			CS	2510-3	7	16	1	RHH-70...

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CODE CASE N-509  
 IWB-2500-1 CAT: B-K-1  
 REACTOR RECIRCULATION SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....
RR-BK1-4A	RR-A	1	B10.20	HSL			SS	ISO-RL-A	7	2	RI-17	RR LOOP-A... LUGS FOR SUPPORT RR-H1-A...
RR-BK1-4B	RR-B	1	B10.20	HSL			SS	ISO-RL-B	7		RI-17	RR-H2-B... (LUGS) RR LOOP-B...
		2	***									
RR-BK1-1A	RR-A	1	B10.30	LUG			SS	731E225	7			RR PMP-A... ATTACHMENT LUG FOR SUPPORTS RR-SS1-A AND RR-H5-A...
RR-BK1-2A	RR-A	1	B10.30	LUG			SS	731E225	7			RR PMP-A... ATTACHMENT LUG FOR SUPPORTS RR-SS2-A AND RR-H7-A...
RR-BK1-3A	RR-A	1	B10.30	LUG			SS	731E225	7			RR PMP-A... ATTACHMENT LUG FOR SUPPORTS RR-SS5-A AND RR-H6-A...
RR-BK1-1B	RR-B	1	B10.30	LUG			SS	731E225	7	3		RR PMP-B... ATTACHMENT LUG FOR SUPPORTS RR-SS1-B AND RR-H5-B...
RR-BK1-2B	RR-B	1	B10.30	LUG			SS	731E225	7	3		RR PMP-B... ATTACHMENT LUG FOR SUPPORTS RR-SS2-B AND RR-H7-B...
RR-BK1-3B	RR-B	1	B10.30	LUG			SS	731E225	7	3		RR PMP-1B... ATTACHMENT LUG FOR SUPPORTS RR-SS5-B AND RR-H6-B...
		6	***									
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CODE CASE N-509  
 IWG-2500-1 CAT: B-K-1  
 REACTOR WATER CLEANUP SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....
CWA-BK1-24	RWCU	1	B10.20	HSL	6		SS	2503-1	7			
CWA-BK1-29	RWCU	1	B10.20	SP-FH	6		SS	2503-1	7	1		RI-17 CUH-49... CUH-50... SUP. WELDED TO CONT. PEN....
		2										
		2										

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IWB-2500-1 CAT: B-L-2

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	ISO.....	VT.....	PER	REMARKS.....
RRP-1A-BL2	RECIRC A	1	B12.20	ISO-RL-A		10	* * EXAMINE WHEN DISASSEMBLED FOR MAINTENANCE * SEE GE SIL NO. 459 RE: PUMP SHAFT CRACKING
RRP-1B-BL2	RECIRC B	1	B12.20	ISO-RL-B		10	* * EXAMINE WHEN DISASSEMBLED FOR MAINTENANCE * SEE GE SIL NO. 459 RE: PUMP SHAFT CRACKING
		2	***				
***		2					

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	SIZE..	DESIGN	MANUFACTURER...	MANF.METHOD	ISO.....	VT.....	PER	REMARKS.....
CS-14A-BM2	CORE SPR	1	B12.50	A	10"	GATE	ANCHOR	CAST CS	2501-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
CS-14B-BM2	CORE SPR	1	B12.50	A	10"	GATE	ANCHOR	CAST CS	2501-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
CS-MO-12A-BM2	CORE SPR	1	B12.50	A	10"	GATE	ANCHOR	CAST CS	2501-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
CS-MO-12B-BM2	CORE SPR	1	B12.50	A	10"	GATE	ANCHOR	CAST CS	2501-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
CS-CV-18CV-BM2	CORE SPR	1	B12.50	B	10"	CHECK	ATWOOD MOORRILL	CAST CS	2501-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * FORMERLY CS-AO-13A-BM2 *
CS-CV-19CV-BM2	CORE SPR	1	B12.50	B	10"	CHECK	ATWOOD MORRILL	CAST CS	2501-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * FORMERLY CS-AO-13B-BM2 *
RF-11-BM2	FW-A	1	B12.50	E	18"	GATE	ANCHOR	CAST CS	2509-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RF-15-CV-BM2	FW-A	1	B12.50	D	18"	CHECK	ANCHOR	CAST CS	2509-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RF-16-CV-BM2	FW-A	1	B12.50	D	18"	CHECK	ANCHOR	CAST CS	2509-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RF-13-BM2	FW-B	1	B12.50	E	18"	GATE	ANCHOR	CAST CS	2509-2	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RF-13-CV-BM2	FW-B	1	B12.50	D	18"	CHECK	ANCHOR	CAST CS	2509-2	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RF-14-CV-BM2	FW-B	1	B12.50	D	18"	CHECK	ANCHOR	CAST CS	2509-2	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
HPCI-MO-15-BM2	HPCI	1	B12.50	I	10"	GATE	ANCHOR	CAST CS	2506-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
HPCI-MO-16-BM2	HPCI	1	B12.50	I	10"	GATE	ANCHOR	CAST CS	2506-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	SIZE..	DESIGN	MANUFACTURER...	MANF.METHOD	ISO.....	VT.....	PER	REMARKS.....
HPCI-CV-29CV-BM2	HPCI	1	B12.50	J	14"	CHECK	ATWOOD MORRILL	CAST CS	2509-2	10	*	FORMERLY HPCI-AO-18-BM2 * EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-AO-80A-BM2	MAIN STE	1	B12.50	H	24"	GLOBE	ROCKWELL	CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-AO-80B-BM2	MAIN STE	1	B12.50	H	24"	GLOBE	ROCKWELL	CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-AO-80C-BM2	MAIN STE	1	B12.50	H	24"	GLOBE	ROCKWELL	CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-AO-80D-BM2	MAIN STE	1	B12.50	H	24"	GLOBE	ROCKWELL	CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-AO-86A-BM2	MAIN STE	1	B12.50	H	24"	GLOBE	ROCKWELL	CAST CS	2506-4	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-AO-86B-BM2	MAIN STE	1	B12.50	H	24"	GLOBE	ROCKWELL	CAST CS	2506-4	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-AO-86C-BM2	MAIN STE	1	B12.50	H	24"	GLOBE	ROCKWELL	CAST CS	2506-4	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-AO-86D-BM2	MAIN STE	1	B12.50	H	24"	GLOBE	ROCKWELL	CAST CS	2506-4	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
MS-RV-70A-BM2	MAIN STE	1	B12.50	F	6"	SAFETY	CROSBY	CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * SV, SN#-2463, IS IN PLACE AT THIS LOCATION, 01/1995...
MS-RV-70C-BM2	MAIN STE	1	B12.50	F	6"	SAFETY	CROSBY	CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * SV, SN#-BL2461, IS IN PLACE AT THIS LOCATION, 01/1995...
MS-RV-71A-BM2	MAIN STE	1	B12.50	G	6"	RELIEF	TARGET ROCK	CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * (SN 379 REMOVED AND REINSTALLED IN 1994)

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	SIZE..	DESIGN	MANUFACTURER...	MANF.METHOD	ISO.....	VT.....	PER	REMARKS.....
MS-RV-71B-BM2	MAIN STE	1	B12.50	G	6"	RELIEF TARGET ROCK		CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * (SN 380 REMOVED AND REINSTALLED IN 1994)...
MS-RV-71C-BM2	MAIN STE	1	B12.50	G	6"	RELIEF TARGET ROCK		CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * (SN 383 REPLACED WITH SN 385 IN 1994)
MS-RV-71D-BM2	MAIN STE	1	B12.50	G	6"	RELIEF TARGET ROCK		CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * (SN 387 REMOVED AND REINSTALLED IN 1994)
MS-RV-71E-BM2	MAIN STE	1	B12.50	G	6"	RELIEF TARGET ROCK		CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * (SN 386 REPLACED WITH 377 IN 1994, PSI PERFORMED)...
MS-RV-71F-BM2	MAIN STE	1	B12.50	G	6"	RELIEF TARGET ROCK		CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * (SN 381 REMOVED AND REINSTALLED IN 1994)
MS-RV-71G-BM2	MAIN STE	1	B12.50	G	6"	RELIEF TARGET ROCK		CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * (SN 382 REPLACED WITH SN 376 IN 1994, PSI PERFORMED)...
MS-RV-71H-BM2	MAIN STE	1	B12.50	G	6"	RELIEF TARGET ROCK		CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * (SN 385 REPLACED WITH SN 378 IN 1994, PSI PERFORMED)...
MS-RV-70B-BM2	MS-D	1	B12.50	F	6"	SAFETY CROSBY		CAST CS	GE731E611	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * SV, SN#-2462, IS IN PLACE AT THIS LOCATION, 01/1995...
RHR-CV-26CV-BM2	RHR-A	1	B12.50	M	24"	CHECK ATWOOD MORRILL		CAST CS	2510-4	10	*	FORMERLY RHR-AO-68A-BM2 * EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	SIZE..	DESIGN	MANUFACTURER...	MANF.METHOD	ISO.....	VT.....	PER	REMARKS.....
RHR-CV-27CV-BM2	RHR-B	1	B12.50	M	24"	CHECK	ATWOOD MORRILL	CAST CS	2510-3	10	*	FOR MAINTENANCE * FORMERLY RHR-AG-68B-BM2 * EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RHR-V-81A-BM2	RHR-LOOP	1	B12.50	L	24"	GATE	ANCHOR	CAST CS	2510-4	10	*	FORMERLY RHR-MO-81A-BM2 * EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RHR-V-81B-BM2	RHR-LOOP	1	B12.50	L	24"	GATE	ANCHOR	CAST CS	2510-3	10	*	FORMERLY RHR-MO-81B-BM2 * EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RHR-MO-25A-BM2	RHR-LOOP	1	B12.50	L	24"	GATE	ANCHOR	CAST CS	2510-4	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RHR-MO-25B-BM2	RHR-LOOP	1	B12.50	L	24"	GATE	ANCHOR	CAST CS	2510-3	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RHR-V-88-BM2	RHR-SDC	1	B12.50	K	20"	GATE	ANCHOR	CAST CS	2510-1	10	*	FORMERLY RHR-MO-88-BM2 * EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RHR-MO-17-BM2	RHR-SDC	1	B12.50	K	20"	GATE	ANCHOR	CAST CS	2510-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RHR-MO-18-BM2	RHR-SDC	1	B12.50	K	20"	GATE	ANCHOR	CAST CS	2510-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RR-MO-43A-BM2	RR-A	1	B12.50	Q	28"	GATE	ANCHOR	CAST SS		10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RR-MO-53A-BM2	RR-A	1	B12.50	Q	28"	GATE	ANCHOR	CAST SS		10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RR-MO-43B-BM2	RR-B	1	B12.50	Q	28"	GATE	ANCHOR	CAST SS		10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RR-MO-53B-BM2	RR-B	1	B12.50	Q	28"	GATE	ANCHOR	CAST SS		10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RWCU-10-BM2	RWCU	1	B12.50	C	6"	GATE	ANCHOR	CAST CS	2503-1	10	*	* EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *



IWB-2500-1 CAT: B-M-2

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	GRP	SIZE..	DESIGN	MANUFACTURER...	MANF.METHOD	ISO.....	VT.....	PER	REMARKS.....
RWCU-MO-15-BM2	RWCU	1	B12.50	C	6"	GATE	ANCHOR	CAST CS	2503-1	10	*	(PSI F91) VALVE REPLACED F91 * EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE *
RWCU-MO-18-BM2	RWCU	1	B12.50	C	6"	GATE	ANCHOR	CAST CS	2503-1	10	*	(PSI F91) VLAVE REPLACED IN F91 * EXAMINE ONE VALVE PER GROUP WHEN DISASSEMBLED FOR MAINTENANCE * *
		50	***									
***		50										

Category B-N-1 and B-N-2  
RPV INTERNALS EXAMINATION REQUIREMENTS

COMPONENT	CATEGORY	METHOD	FREQUENCY	REMARKS
Jet Pumps	B-N-1	VT-3	Each Period	
Jet Pump Nozzle & Mixer	AUG	VT-3	Each Period	SIL 465
Jet Pump Sensing Lines and Support Brackets	AUG	VT-3	Each Period	SIL 420, 574
Jet Pump Riser Attachments, 1-10	B-N-2	VT-1	Each Interval	RICSIL 045, SIL 551
Jet Pump Riser Attachments, 11-20	B-N-2	VT-1	Each Interval	RICSIL 045, SIL 551
Jet Pump Beams	AUG	UT	Each Interval	NUREG CR/3052
Surveillance Specimen Holders	B-N-1	VT-3	Each Period	
Surveillance Specimen Holder #1 Bracket	B-N-2	VT-1	Each Interval	
Surveillance Specimen Holder #2 Bracket	B-N-2	VT-1	Each Interval	
Surveillance Specimen Holder #3 Bracket	B-N-2	VT-1	Each Interval	
Vessel Interior Wall	B-N-1	VT-3	Each Period	Accessible Areas
Vessel Head Interior	B-N-1	VT-3	Each Period	
Steam Dryer Support Lugs	B-N-2	VT-3	Each Interval	
Steam Dryer Hold Down Lugs	B-N-2	VT-3	Each Interval	
Steam Dryer & Drain Channel	AUG	VT-3	Each Period	SIL 474

**RPV INTERNALS EXAMINATION REQUIREMENTS**

COMPONENT	CATEGORY	METHOD	FREQUENCY	REMARKS
Steam Separator	AUG	VT-3	Each Interval	
CS Sparger and Piping	B-N-1	VT-1	Each Outage	IEB 80-13
CS Piping Brackets	B-N-2	VT-3	Each Interval	
CS Tee Junction	AUG	VT-1	Each Outage	SIL 289 R1, S1
FW Sparger	B-N-1	VT-3	Each Period	NUREG-0619
FW Sparger Brackets	B-N-2	VT-3	Each Interval	
Guide Rods	B-N-1	VT-3	Each Period	
Guide Rod Brackets	B-N-2	VT-3	Each Interval	
Core Shroud	B-N-2	UT/VT-1	Each Interval	GL 94-03
Old Style Shroud Head Bolts	AUG	UT	Each Outage	SIL 433
Lower Shroud	B-N-2	VT-3	Each Interval	As Accessible
Support Plates, 0-120	B-N-2	VT-3	Each Interval	8 Plates
Support Plate Attachments, 0-120	B-N-2	VT-1	Each Interval	7 Attachments
Support Plates, 120-240	B-N-2	VT-3	Each Interval	7 Plates
Support Plate Attachments, 120-240	B-N-2	VT-1	Each Interval	8 Attachments
Support Plates, 240-360	B-N-2	VT-3	Each Interval	7 Plates

**RPV INTERNALS EXAMINATION REQUIREMENTS**

COMPONENT	CATEGORY	METHOD	FREQUENCY	REMARKS
Support Plate Attachments, 240-360	B-N-2	VT-1	Each Interval	7 Attachments
Access Hole Covers	AUG	VT-1	Each Outage	SIL 462 R1, S1, S3
Access Hole Covers	AUG	UT	Every 5 Years	SIL 462 R1, S1, S3
SRMs, IRMs, LPRMs	AUG	VT-3	Each Interval	SIL 409 R1
ICM Housing & Stub Tubes	B-N-2	VT-3	Each Interval	As Accessible
SLC Pipe Penetration	B-N-2	VT-3	Each Interval	As Accessible
RPV Bottom Head Drain Nozzle	B-N-2	VT-3	Each Interval	As Accessible
Top Guide & Hardware	B-N-2	VT-3	Each Interval	SIL 588 R1
Core Plate & Hardware	B-N-2	VT-3	Each Interval	As Accessible, SIL 588
Fuel Support Castings	B-N-2	VT-3	Each Interval	As Accessible
CRD Housing & Stub Tubes	B-N-2	VT-3	Each Interval	As Accessible
CRD Guide Tubes & Housing	B-N-2	VT-3	Each Interval	As Accessible

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-02-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-02-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-02-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-02-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-02-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-02-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-02-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-11-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-11-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-15-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-15-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-27-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER	RELREQ	REMARKS.....
CRD-06-39-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-43-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-06-43-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-07-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-07-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-11-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-11-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-15-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-15-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-27-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-39-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-43-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5



COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-10-43-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-47-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-10-47-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-07-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-07-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-11-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-11-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-15-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-15-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-27-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-39-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-43-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO. ....	PT..	PER RELREQ	REMARKS.....
CRD-14-43-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-47-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-14-47-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-03-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-03-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-07-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-07-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-11-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-11-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-15-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-15-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-27-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG... SIZE..	TKNS.....	MAT... ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-18-39-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-43-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-43-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-47-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-47-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-51-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-18-51-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-03-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-03-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-07-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-07-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-11-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-11-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-15-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-15-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-19-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-19-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-23-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-23-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-27-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-27-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-31-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-22-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-39-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-43-1	.RD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-43-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-47-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-47-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-51-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-03-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-07-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-07-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-11-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-11-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-15-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-15-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-27-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
 INSERVICE INSPECT ON PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-26-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	FI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	AS	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-39-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-43-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-43-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-47-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-47-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-07-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-07-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-11-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-11-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-15-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-15-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-27-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG... SIZE..	TKNS.....	MAT... ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-30-27-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-31-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-31-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-35-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-35-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-39-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-39-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-43-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-43-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-47-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-47-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-51-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-51-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-03-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-03-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-07-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-07-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-11-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-11-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-15-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-15-2	CRD	1	B14.10	HOU-HOU		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-19-1	CRD	1	B14.10	HOU-F		304SS GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5



COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-34-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-27-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-39-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-43-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-43-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-47-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-47-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-51-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-34-51-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-07-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-07-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-11-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-11-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-15-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-38-15-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-27-1	CRD	1	B14.10	HOU-			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-39-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-43-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-43-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-47-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-38-47-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-07-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-07-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-11-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-11-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-15-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG... SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-42-15-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-19-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-19-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-23-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-23-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-27-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-27-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-31-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-31-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-35-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-35-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-39-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-39-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-43-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-43-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-47-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-42-47-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-11-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-11-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-15-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-15-2	CRD	1	B14.10	HOU-HOU		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-19-1	CRD	1	B14.10	HOU-F		304SS	GE.197R576	7	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER RELREQ	REMARKS.....
CRD-46-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-23-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-27-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-39-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-39-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-43-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-46-43-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-19-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-19-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-23-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-31-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-31-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-35-1	CRD	1	B14.10	HOU-F			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-35-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7		RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-02-27-1	CRD	1	B14.10	HOU-F	6.00"	.503"	304SS	GE.197R576	7	2	RI-15 ALSO REF: GE DWG BN-14-1 AND BE-5, 270 DAZ UNDERVESSEL
CRD-02-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	2	RI-15 ALSO REF: GE DWG BN-14-1

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	PER	RELREQ	REMARKS.....
												AND BE-5, ACCESS THROUGH SUPPORT SKIRT DOOR AT 180 DAZ LIMITED, RELIEF REQUEST REQUIRED
CRD-02-31-1	CRD	1	B14.10	HOU-F	6.00"	.503"	304SS	GE.197R576	7	2	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-22-51-1	CRD	1	B14.10	HOU-F	6.00"	.503"	304SS	GE.197R576	7	2	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-26-51-1	CRD	1	B14.10	HOU-F	6.00"	.503"	304SS	GE.197R576	7	2	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5, 0 DAZ
CRD-26-51-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	2	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5, ACCESS THROUGH SUPPORT SKIRT DOOR AT 0 DAZ IS LIMITED, RELIEF REQUEST REQUIRED
CRD-26-03-1	CRD	1	B14.10	HOU-F	6.00"	.503"	304SS	GE.197R576	7	3	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-30-03-1	CRD	1	B14.10	HOU-F	6.00"	.503"	304SS	GE.197R576	7	3	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5, 180 DAZ
CRD-30-03-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	3	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5, ACCESS THROUGH SUPPORT SKIRT DOOR AT 270 DAZ IS LIMITED, RELIEF REQUEST REQUIRED
CRD-50-23-1	CRD	1	B14.10	HOU-F	6.00"	.503"	304SS	GE.197R576	7	3	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-27-1	CRD	1	B14.10	HOU-F	6.00"	.503"	304SS	GE.197R576	7	3	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5
CRD-50-27-2	CRD	1	B14.10	HOU-HOU			304SS	GE.197R576	7	3	RI-15	ALSO REF: GE DWG BN-14-1 AND BE-5

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	PER	REMARKS.....
RHR-CA-2B	RHR-A	1	C1.10	SH-DRET	46 D*	.75	P3		SWECO.M-82454			22	22		RHR HX-B, * 46.75"-DIAMETER, 147"-CIRCUMFERENCE (CONFIG WAS VE-DR)
RHR-CA-2A	RHR-A	1	C1.10	SH-DRET	46 D*	.75	P3	40	SWECO.M-82454			22	22	2	RHR HX-A, * 46.75"-DIAMETER, 147"-CIRCUMFERENCE (CONFIG WAS VE-DR)
RHR-CA-4A	RHR-A	1	C1.10	DRET-DR	62 D*	.75	P3	40/106	SWECO.M-82454			22	22	2	RHR HX-A, *62"-DIAMETER, 195"-CIRCUMFERENCE (CONFIG WAS TS-SH)
RHR-CA-3A	RHR-A	1	C1.10	DREB-SF	46 D*	1-1.75	P3	106	SWECO.M-82454			22	22	3	RELIEF REQUEST RI-05... RHR HX-A, * 46.75"-DIAMETER, 147"-CIRCUMFERENCE (CONFIG WAS VE-DR, FORMERLY EXAMINED AS RHR-CA-5A, RE-EVALUATE AND RE-EXAMINE F95... RHR HX-A, * 62"-DIAMETER 195"-CIRCUMFERENCE (CONFIG WAS TS-VE)... FORMERLY EXAMINED AS "RHR-CA-3A"...
RHR-CA-5A	RHR-A	1	C1.10	DR-DREB	62 D*	.75	P3	40/106	SWECO.M-82454			22	22	3	RELIEF REQUEST RI-05... RHR HX-B, * 46.75"-DIAMETER, 147"-CIRCUMFERENCE (CONFIG WAS VE-DR)
RHR-CA-3B	RHR-B	1	C1.10	DREB-SF	46 D*	.75	P3		SWECO.M-82454			22	22		RHR HX-B, * 62"-DIAMETER, 195"-CIRCUMFERENCE (CONFIG WAS TS-SH)
RHR-CA-4B	RHR-B	1	C1.10	DRET-DR	62 D*	.75	P3		SWECO.M-82454			22	22		RHR HX-B, * 62"-DIAMETER 195"-CIRCUMFERENCE (CONFIG WAS TS-VE)...
RHR-CA-5B	RHR-B	1	C1.10	DR-DREB	62 D*	.75	P3		SWECO.M-82454			22	22		RHR HX-B, * 62"-DIAMETER 195"-CIRCUMFERENCE (CONFIG WAS TS-VE)...
		8	***												
RHR-CA-1A	RHR-A	1	C1.20	THD-SH	46 D*	.75	P3	40	SWECO.M-82454			22	22	1	RHR HX-A, * 46.75"-DIAMETER, 147"-CIRCUMFERENCE (CONFIG WAS VE-THD)
RHR-CA-1B	RHR-B	1	C1.20	THD-SH	46 D*	.75	P3		SWECO.M-82454			22	22		RHR HX-B, * 46.75"-DIAMETER,



IWC-2500-1 CAT: C-A

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE..... SYSTEM.. CNT. ITEM.NO. CFIG... SIZE.. TKWS..... MAT... W81.CAL... ISO..... PT.. MY.. UT0.. UT45.... PER REMARKS.....

147"-CIRCUMFERENCE (CNFIG  
WAS VE-THD)

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COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	PER	REMARKS.....
RHR-CB-1A	RHR-A	1	C2.21	THD-N	20	1.063	P1	103	SWECO.M-82454	7	16	22	22	2	RHR-A HX
RHR-CB-1B	RHR-B	1	C2.21	THD-N	20	1.063	P1	103	SWECO.M-82454	7	16	22	22		RHR-B HX
		2	***												
RHR-IR-1A	RHR-A	1	C2.22	THD-NIR	20	1.063	P1		SWECO.M-82454			6	6	2	RHR-A HX, NOZZLE INNER RADIUS
RHR-IR-1B	RHR-B	1	C2.22	THD-NIR	20	1.063	P1		SWECO.M-82454			6	6		RHR-B HX, NOZZLE INNER RADIUS
		2	***												
RHR-CB-3A	RHR-A	1	C2.31	N-RP	20		P1	N.A	SWECO.M-82454	7	16			3	RHR-A HX, ON RHR-CB-2 NOZZLE...
RHR-CB-4A	RHR-A	1	C2.31	RP-DR	20		P1	N/A	SWECO.M-82454	7	16			3	RHR-A HX, ON RHR-CB-2 NOZZLE...
RHR-CB-3B	RHR-B	1	C2.31	N-RP	20		P1		SWECO.M-82454	7	16				RHR-B HX, ON RHR-CB-2 NOZZLE
RHR-CB-4B	RHR-B	1	C2.31	RP-DR	20		P1		SWECO.M-82454	7	16				RHR-B HX, ON RHR-CB-2 NOZZLE
		4	***												
RHR-CB-2A	RHR-A	1	C2.33	DR-N	20	.75	P1		SWECO.M-82454	7	16			1	RHR-A HX, UNDER REINFORCING PLATE... WHEN VESSEL IS NOT ACCESSIBLE FROM THE INSIDE, PERFORM A VT-2 EXAMINATION OF THE TELLTALE HOLE LOCATED IN THE REINFORCEMENT PLATE ON VESSEL OD...
RHR-CB-2B	RHR-B	1	C2.33	DR-N	20	1.063	P1		SWECO.M-82454	7	16				RHR-B HX, UNDER REINFORCING PLATE
		2	***												
***		10													

CODE CASE N-509  
 IWC-2500-1 CAT: C-C  
 CORE SPRAY SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....
CSA-CC-10	CS-A	1	C3.20	STN	16	.375	P1	2603-1	7	16		CSS-13...
CSA-CC-1A	CS-A	1	C3.20	PC-P	16	.844	P2	CB&I-69		16		CSA-X-227A... TORUS PENETRATION X-227A, SUPPLY CS 'B' PMP SUCTION...
CSA-CC-38	CS-A	1	C3.20	HSL	12"	.375	P1	2602-2	7	16	RI-17	CSH-18A, LUGS WELDED TO PIPE CLAMP
CSA-CC-89	CS-A	1	C3.20	IPS	12		CS	2602-2		16		CSS-16...
CSA-CC-90	CS-A	1	C3.20	IPS	12		CS	2602-2		16		CSH-17A...
CSA-CC-91	CS-A	1	C3.20	IPS	12		CS	2602-2		16		CSH-19A...
CSA-CC-6	CS-A	1	C3.20	PLATE	16	.375	P1	2603-1	7	16	1	CSH-4...
CSB-CC-4	CS-B	1	C3.20	PLATE	16	.375	P1	2603-2	7	16		CSH-1...
CSB-CC-9	CS-B	1	C3.20	PLATE	16	.375	P1	2603-2	7	16		CSH-2...
CSB-CC-1A	CS-B	1	C3.20	PC-P	16	.844	P2	CB&I-69		16		CSB-X-227B... TORUS PENETRATION X-227B, SUPPLY CS 'B' PMP SUCTION...
CSB-CC-32	CS-B	1	C3.20	PLATE	12	STD	P1	2602-1	7	16		CSH-7...
CSB-CC-51	CS-B	1	C3.20	IPS	12	STD	P1	2602-1	7	16		CSH-10...
CSB-CC-57	CS-B	1	C3.20	E-LUG	12	STD	F1	2602-1	7	16		CSH-11...
CSB-CC-102	CS-B	1	C3.20	IPS	12		CS	2602-1	7	16		CSH-9A...
CSB-CC-WR2	CS-B	1	C3.20	PLATE	16	.375	P1	KE-110.01		16	RI-17	CSB-WR-2, OFF TORUS PEN X-227B, ALSO SEE JELCO DWG 2603-2
CSB-CC-10	CS-B	1	C3.20	STN	16	.375	P1	2603-2	7	16	2	CSS-14A...
		16	***									
CS-PA-A1	CS-A	1	C3.30	SP-PU			CS	2602-2	7	16		CS-PA-S1... ALL ATTACHMENT WELDS ON CORE SPRAY PMP-A, BYRON JACKSON DWG 2C-4836
CS-PB-A1	CS-B	1	C3.30	SP-PU			CS	2602-1	7	16	3	CS-PB-S1... ALL ATTACHMENT WELDS ON CORE SPRAY PMP-B, BYRON JACKSON DWG 2C-4836
		2	***									
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CODE CASE N-509  
 IWC-2500-1 CAT: C-C  
 HPCI SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS...
HPIS-CC-4	HPCI	1	C3.20	PLATE	16	.375	P1	2611-6	7	16		HPH-8...
HPIS-CC-6	HPCI	1	C3.20	STN	16	.375	P1	2611-6	7	16		NPH-9...
HPID-CC-16	HPCI	1	C3.20	STN	10	.938	CS	2609-1	7	16		HPH-7...
HPID-CC-70	HPCI	1	C3.20	HSL			CS	2623-3	7	16	RI-17	RFH-53... MUST REMOVE PIPE CLAMP TO ACCESS COMPLETE EXAM AREA, HSK SHOWS LUGS WELDED TO PIPE CLAMP
HPID-CC-76	HPCI	1	C3.20	PLATE			CS	2623-2	7	16		RFH-41...
HPID-CC-77	HPCI	1	C3.20	PLATE			CS	2623-2	7	16		RFH-45A...
HPID-CC-78	HPCI	1	C3.20	PLATE			CS	2623-3	7	16		RFH-59...
HPID-CC-79	HPCI	1	C3.20	IPS			CS	2623-3	7	16		RFH-54...
HPID-CC-80	HPCI	1	C3.20	IPS			CS	2623-3	7	16		RFH-55...
HPIS-CC-11	HPCI	1	C3.20	STN	16	.375	P1	2611-6	7	16		HPH-10...
HPIS-CC-1A	HPCI	1	C3.20	P-PC	16	.844	P2	CB&I-69		16		HPIS-X-226... TORUS PENETRATION X-226, SUPPLY HPCI PMP SUCTION...
HPID-CC-5	HPCI	1	C3.20	STN	10	.938	CS	2609-1	7	16	1	HPH-6...
HPIS-CC-22	HPCI	1	C3.20	PLATE	16	.375	P1	2611-6	7	16	2	HPH-11...

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CODE CASE N-509  
 IWC-2500-1 CAT: C-C  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER	RELREQ	REMARKS.....
PSA-CE1-2	MS	1	C3.20	IPS			CS	2629-1	7	16			MSH-101A...
PSA-CE1-4	MS	1	C3.20	IPS				2629-1		16			MSH-97...
PSA-CE1-5	MS	1	C3.20					2629-1	7	16			MSH-95A...
PSA-CE1-6	MS	1	C3.20		N/A		N/A	2629-1	7	16			MSS-7...
RAS-CE1-4	MS	1	C3.20	E-L	N/A		N/A	2629-1	7	16			MSH-114...
RAS-CE1-5	MS	1	C3.20	PLATE	N/A		CS	2629-1	7	16			MSH-99...
RBS-CE1-2	MS	1	C3.20	HSL	N/A		CS	2629-1	7	16		RI-17	MSH-103A
RSA-CC-26	MS	1	C3.20	STN	4	TYP-C	P1	2614-1	7	16			MSS-6...
HPEX-CC-14	MS	1	C3.20	P-H	20	.375	P1	2614-3	7	16			MSH-154A...
HPEX-CC-17	MS	1	C3.20	STN	20	.375	P1	2614-3	7	16			MSH-155A...
HPEX-CC-32	MS	1	C3.20	STN	16	.375	P1	2614-3	7	16			MSS-4...
HPEX-CC-59	MS	1	C3.20	STN			CS	2614-3	7	16			MSH-118...
PSA-CE1-1	MS	1	C3.20	STN			CS	2629-1	7	16	1		MSH-109...
RSA-CC-25	MS	1	C3.20	HSL	8"	40	P1	2614-1	7	16	2	RI-17	MSH-121...

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CODE CASE N-509  
 IWC-2500-1 CAT: C-C  
 NITROGEN PURGE AND VENT SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....
PNC-CE1-1	PNC	1	C3.20					RCO-755-2	7	16		PVH-110...
PNC-CE1-2	PNC	1	C3.20					RCO-755-1	7	16		PVH-104A...
PNC-CE1-3	PNC	1	C3.20	P-H			N/A	RCO-755-2	7	16		PVS-2B&R...
PNC-CE1-4	PNC	1	C3.20					RCO-755-2	7	16		PVH-109...
PNC-CE1-6	PNC	1	C3.20					RCO-755-3	7	16		PVS-3B&R...
PNC-CE1-7	PNC	1	C3.20	P-H				RCO-755-1	7	16		PVH-105...
PNC-CE1-5	PNC	1	C3.20	P-H				RCO-755-2	7	16	2	PVH-108...
		7	***									
***		7										



CODE CASE N-509  
IWC-2500-1 CAT: C-C  
RCIC SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREG	REMARKS.....
RWA-CC-13	RCIC	1	C3.20	P-PC	6	1.25	P2	CB&I-69		16		RWA-X-224... X-224 TORUS PEN
RWA-CC-36	RCIC	1	C3.20	STN	6	.280	P1	2621-1	7	16		RCH-5...
RWA-CC-69	RCIC	1	C3.20	IPS			CS	2621-2	7	16		RCH-33...
RWA-CC-70	RCIC	1	C3.20	PLATE			CS	2621-2	7	16		RCS-15...
RWA-CC-71	RCIC	1	C3.20	IPS			CS	2621-1	7	16		RCH-3A...
RWA-CC-52A	RCIC	1	C3.20	E-L	6	.280	F1	2621-1	7	16	2	RCH-6...
		6	***									
***		6										

CODE CASE N-509  
 IWC-2500-1 CAT: C-C  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.Nº.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....	
RHR-CC-2A	RHR-A	1	C3.10	SP-VE	46		CS	SWECO.M-82454	7	16	2	RHHX-1A1,1A2,1A3,1A4...	
RHR-CC-2B	RHR-B	1	C3.10	SP-VE	46		CS	SWECO.M-82454	7	16		RHHX-1B1,1B2,1B3,1B4...	
		2	***										
RAW-CE1-3	RHR	1	C3.20		N/A		N/A	2625-1	7	16		RHH-7...	
RAW-CE1-4	RHR	1	C3.20		N/A		N/A	2625-1	7	16		RHS-80...	
RAW-CE1-5	RHR	1	C3.20	HSL	20"		CS	2625-1	7	16	RI-17	RHS-76...	
RBW-CE1-2	RHR	1	C3.20	STN	N/A		CS	2625-4	7	16		RHH-12...	
RHA-CE1-1	RHR	1	C3.20		N/A		N/A	2625-3	7	16		RHH-53...	
RHA-CE1-2	RHR	1	C3.20	SSL	H/A		CS	2625-1	7	16	1	RI-17	RHS-78...
SW-CC-6	RHR-A	1	C3.20	IPS			CS	2624-3A	7	16		RHH-60...	
RPC-CC-6	RHR-A	1	C3.20	STN	20	.375	P1	2626-1	7	16		RHH-6...FORMALLY RPA-CC-6 IN II 2-IP 3 * DCN CHANGED ID.NO REF NCR 91-088 *	
RAS-CE1-1	RHR-A	1	C3.20	E-L			CS	2614-2	7	16		MSH-141...	
RAW-CC-92	RHR-A	1	C3.20	STN			CS	2624-3A	7	16		RHS-58...	
RAW-CE1-1	RHR-A	1	C3.20	IPS	N/A		N/A	2625-2	7	16		RHS-63...	
RAW-CE1-2	RHR-A	1	C3.20	STN	N/A		CS	2625-2	7	16		RHS-62...	
RAW-CE1-7	RHR-A	1	C3.20	STN	4	TYP-C	CS	2625-1	7	16		RHS-81...	
RAW-CE1-9	RHR-A	1	C3.20	HSL			CS	2624-2	7	16	RI-17	RHH-95...	
RHB-CC-22	RHR-A	1	C3.20	STN	20	30	P1	2624-1	7	16		RHH-26...	
RHB-CC-26	RHR-A	1	C3.20	P-H	20	30	P1	2624-1	7	16		RHH-24A...	
RHB-CC-37	RHR-A	1	C3.20	P-H	24	30	P1	2624-2	7	16		RHH-93B...	
RHB-CC-44	RHR-A	1	C3.20	E-L	24	30	F1	2624-2	7	16		RHH-89...	
RHB-CC-49	RHR-A	1	C3.20	STN	24	30	P1	2624-2	7	16		RHS-24... SEC.XI CREDIT F91...	
RHB-CC-51	RHR-A	1	C3.20	STN	24	30	F1	2624-2	7	16		RHS-22...	
RHB-CC-56	RHR-A	1	C3.20	STN	24	30	F1	2624-2	7	16		RHH-91...	
RHB-CC-59	RHR-A	1	C3.20	STN	24	30	F1	2624-2	7	16		RHS-21...	
RHB-CC-62	RHR-A	1	C3.20	SSL			CS	2624-1			RI-17	RHS-27AB&R...	
RHB-CC-63	RHR-A	1	C3.20	IPS			CS	2624-1	7	16		RHH-25A...	
RHB-CC-64	RHR-A	1	C3.20	IPS			CS	2624-1	7	16		RHH-24...	
RHB-CC-65	RHR-A	1	C3.20	STN			CS	2624-2	7	16		RHS-20...	
RHB-CC-66	RHR-A	1	C3.20	PLATE			CS	2624-2	7	16		RHH-93...	
RHB-CC-67	RHR-A	1	C3.20	IPS			CS	2624-2	7	16		RHH-88...	
RHB-CE1-1	RHR-A	1	C3.20	HSL			CS	2624-1	7	16	RI-17	RHH-27...	
RHB-CE1-3	RHR-A	1	C3.20	E-L			CS	2624-1	7	16		RHH-30...	
RHB-CE1-4	RHR-A	1	C3.20	IPS	N/A		N/A	2624-1	7	16		RHS-50...	
RHG-CC-18	RHR-A	1	C3.20	E-H	10	.365	F1	2624-2	7	16		RHH-99...	
RPA-CC-16	RHR-A	1	C3.20	T-H	20	.375	F1	2625-2	7	16		RHH-1...	
RPA-CC-1A	RHR-A	1	C3.20	P-PC	20	1.7/16	P2	CB&I-69		16		RPA-X-225A... X-225A TORUS PEN, SUPPLY, RHR	

CODE CASE N-509  
 IWC-2500-1 CAT: C-C  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....
RPA-CC-20	KHR-A	1	C3.20	E-SP	16	40	F1	2624-1	7	16		'A' PMP SUCTION...
RPC-CC-1A	RHR-A	1	C3.20	P-PC	20	1.7/16	P2	CB&I-69		16		RHH-21...
												RPC-X-225B... X-225B
												TORUS PEN, SUPPLY, RHR
RAW-CE1-14	RHR-A	1	C3.20		N/A		N/A	2624-3A	7	16		'C' PMP SUCTION...
RAW-CE1-15	RHR-A	1	C3.20		N/A		N/A	2624-3A	7	16		RHS-57...
RPC-CC-20A	RHR-A	1	C3.20	PLATE	N/A	N/A	F1/F1	2624-1	7	16		RHH-61...
RPC-CC-24A	RHR-A	1	C3.20	E-H	16	40	F1	2624-1	7	16		RHH-23...
RAW-CE1-12	RHR-A	1	C3.20	LUG			CS	2624-3A	7	16	1	RHS-55...
RPA-CC-9	RHR-A	1	C3.20	STN	20	.375	P1	2626-1	7	16	2	RHH-59...
												RHH-2... FORMERLY
												EXAMINED AS RPC-CC-9 *
												DCN NO. C93-0385 2/93 TO
												CHANGE WELD ID.NO REF NCR
												91-088 *
RHB-CC-53	RHR-A	1	C3.20	E-L	24	30	F1	2624-2	7	16	3	RHH-90...
RHB-CE1-2	RHR-A	1	C3.20	E-L	16		CS	2624-1	7	16	3	RHH-28...
RPC-CC-10	RHR-A	1	C3.20	STN	20	.375	P1	2626-1	7	16	3	RHH-5... FORMERLY
												EXAMINED AS RPA-CC-10 IN
												INT 2, PER 2 * DCN NO.
												C93-0385 2/93 TO CHANGE
												WELD ID.NO REF NCR 91-088
												*
RHE-CC-3	RHR-B	1	C3.20	E-SP	10	.365	F1	2624-7	7	16		RHH-140...
RPB-CC-6	RHR-B	1	C3.20	P-H	20	.375	P1	2626-2	7	16		RHH-19...
RPB-CC-7	RHR-B	1	C3.20	HSL	20"	.375	P1	2626-2	7	16		RI-17 RHH-18A...
RBS-CE1-1	RHR-B	1	C3.20	E-L			CS	2614-2	7	16		MSH-139...
RCT-CC-27	RHR-B	1	C3.20	IPS			CS	2624-3B	7	16		RHH-62...
RCT-CE1-1	RHR-B	1	C3.20	SAD	N/A		N/A	2624-3A	7	16		RHH-57...
RCT-CE1-2	RHR-B	1	C3.20	P-H	N/A		N/A	2624-3A	7	16		RHH-54...
RCT-CE1-4	RHR-B	1	C3.20	HSL			CS	2624-3B	7	16		RI-17 RHH-50...
RHC-CC-32	RHR-B	1	C3.20	E-L	20	30	F1	2624-3B	7	16		RHH-48...
RHC-CC-36	RHR-B	1	C3.20	P-H				2624-3B	7	16		RHH-47...
RHC-CC-41	RHR-B	1	C3.20	P-H	24	30	P1	2624-5	7	16		RHH-64...
RHC-CC-51	RHR-B	1	C3.20	E-SB	24	30	F1	2624-5	7	16		RHS-30...
RHC-CC-52	RHR-B	1	C3.20	E-L	24	30	F1	2624-5	7	16		RHH-68...
RHC-CC-61	RHR-B	1	C3.20	IPS			CS	2624-3B	7	16		RHH-118A...
RHC-CC-62	RHR-B	1	C3.20	IPS			CS	2624-3B	7	16		RHH-47A...
RHC-CC-63	RHR-B	1	C3.20	PLATE			CS	2624-5	7	16		RHH-64B...
RHC-CE1-1	RHR-B	1	C3.20	IPS	N/A		N/A	2624-3B	7	16		RHH-44A...
RHC-CE1-2	RHR-B	1	C3.20	E-L	N/A		N/A	2624-3B	7	16		RHH-43...
RHD-CE1-1	RHR-B	1	C3.20	E-L			CS	2624-6	7	16		RHH-139...
RHD-CE1-3	RHR-B	1	C3.20	HSL	N/A		CS	2624-6	7	16		RI-17 RHH-136...
RHD-CE1-6	RHR-B	1	C3.20	STN				2624-6				RHH-133...

CODE CASE N-509  
 IWC-2500-1 CAT: C-C  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER RELREQ	REMARKS.....
RPB-CC-10	RHR-B	1	C3.20	STN	20	.375	P1	2626-2	7	16		RHH-18...
RPB-CC-15	RHR-B	1	C3.20	SP	20	.375	P1	2625-4	7	16		RHH-17...
RPB-CC-1A	RHR-B	1	C3.20	P-PC	20	1.7/16	P2	CB&I-69		16		RPC-X-225C... X-225C TORUS PEN, SUPPLY, RHR 'B' PMP SUCTION...
RPB-CC-20	RHR-B	1	C3.20	E-H	16	40	F1	2624-3C	7	16		RHH-39...
RPB-CC-28	RHR-B	1	C3.20	STN	16	40	P1	2624-3C	7	16		RHS-42...
RPB-CC-32	RHR-B	1	C3.20	LUG	16	40	F1	2624-3C	7	16		RHH-40...
RPD-CC-14	RHR-B	1	C3.20	E-H	20	.375	F1	2625-2	7	16		RHH-14...
RPD-CC-19	RHR-B	1	C3.20	E-H	16	40	F1	2624-3C	7	16		RHH-38...
RPD-CC-1A	RHR-B	1	C3.20	P-PC	20	1.7/16	P2	CB&I-69		16		RPD-X-225D... X-225D TORUS PEN, SUPPLY, RHR 'D' PMP SUCTION...
RPD-CC-34	RHR-B	1	C3.20	IPS			CS	2624-3C	7	16		RHH-41A...
RBW-CE1-10	RHR-B	1	C3.20	STN			CS	2624-3B	7	16		RHS-39...
RBW-CE1-11	RHR-B	1	C3.20	IPS	N/A		CS	2624-3B	7	16		RHH-46...
RBW-CE1-12	RHR-B	1	C3.20	E-L			CS	2624-3B	7	16		RHH-117A...
RHD-CE1-11	RHR-B	1	C3.20	IPS				2624-6				RHH-132...
RHC-CE1-3	RHR-B	1	C3.20	E-L	N/A		N/A	2624-3B	7	16	1	RHH-42...
RHC-CC-58	RHR-B	1	C3.20	LUGS	24	30	P1	2624-5	7	16	2	RHH-69...
		82	***									
RHR-PC-A1	RHR-A	1	C3.30	SP-PU			CS	2624-1	7	16		RI-18 RHR-PC-S1... ALL ATTACHMENT WELDS ON RHR PMP-C, REFERENCE BINGHAM PMP DWG Z-6363...
RHR-PA-A1	RHR-A	1	C3.30	SP-PU			CS	2624-1	7	16	3	RI-18 RPA-PA-S1... ALL ATTACHMENT WELDS ON RHR PMP-A, REFERENCE BINGHAM PMP DWG Z-6363...
RHR-PB-A1	RHR-B	1	C3.30	SP-PU			CS	2624-3C	7	16		RI-18 RHR-PB-S1... ALL ATTACHMENT WELDS ON RHR PMP-B, REFERENCE BINGHAM PMP DWG Z-6363...
RHR-PD-A1	RHR-B	1	C3.30	SP-PU			CS	2624-3C	7	16		RI-18 RHR-PD-S1... ALL ATTACHMENT WELDS ON RHR PMP-D, REFERENCE BINGHAM PMP DWG Z-6363...
		4	***									
***		88										

CODE CASE N-509  
IWC-2500-1 CAT: C-C  
SCRAM DISCHARGE VOLUME SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE..... SYSTEM.. CNT. ITEM.NO. CFIG... SIZE.. TKNS..... MAT... ISO..... PT.. MT.. PER RELREQ REMARKS.....

SDS-CE1-21      SDV      1    C3.20    HSL    N/A                    CS    S&W13095.19-EP-1B-2 7    16    1    RI-17 PSA-1...

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
CSA-CF-61	CS-A	1		T-V	10"	.365"	F1		2602-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
CSB-CF-71	CS-B	1		RT-V	10"	.365"	F1		2602-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
		2	***													
CSA-CF-2	CS-A	1	C5.51	E-E	16"	.375"	F1		2603-1		7	16				
CSA-CF-4	CS-A	1	C5.51	P-E	16"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-5	CS-A	1	C5.51	E-P	16"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-7	CS-A	1	C5.51	P-E	16"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-8	CS-A	1	C5.51	E-P	16"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-9	CS-A	1	C5.51	P-P	16"	.375"	P1		2603-1		7	16	6	6		
CSA-BJ-30	CS-A	1	C5.51	P-VA	10"	.719"	P2		2501-1		7	16	6	6		BOUNDARY CHANGE NOW CONSIDERED CLASS 2 CAT: C-F... FORMERLY CLASS 1 CAT: 1...
CSA-BJ-31	CS-A	1	C5.51	VA-P	10"	.719"	P2		2501-1		7	16	6	6		BOUNDARY CHANGE NOW CONSIDERED CLASS 2 CAT: C-F... FORMERLY CLASS 1 CAT: B-J...
CSA-CF-11	CS-A	1	C5.51	P-RE	16"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-12	CS-A	1	C5.51	RE-V	14"	.375"	F1		2603-1		7	16	6	6		CS-LV-10
CSA-CF-13	CS-A	1	C5.51	V-P	14"	.375"	P1		2603-1		7	16	6	6		CS-LV-10
CSA-CF-14	CS-A	1	C5.51	P-V	14"	.375"	P1		2603-1		7	16	6	6		CS-MO-7A
CSA-CF-15	CS-A	1	C5.51	V-P	14"	.375"	P1		2603-1		7	16	6	6		CS-MO-7A
CSA-CF-16	CS-A	1	C5.51	P-T	14"	.438"	P1		2603-1		7	16	6	6		
CSA-CF-17	CS-A	1	C5.51	T-PU	14"	.438"	F1		2603-1		7	16	6	6		CS PUMP-1A
CSA-CF-18	CS-A	1	C5.51	T-P	14"	.438"	P1		2603-1		7	16	6	6		
CSA-CF-19	CS-A	1	C5.51	P-F	14"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-1B	CS-A	1	C5.51	P-T	16"	.375"	P2		CB&I-69		7	16				
CSA-CF-1C	CS-A	1	C5.51	T-F	16"	.375"	F23		CB&I-69		7	16				
CSA-CF-1D	CS-A	1	C5.51	T-F	16"	.375"	F23		CB&I-69		7	16				
CSA-CF-20	CS-A	1	C5.51	F-P	14"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-21	CS-A	1	C5.51	P-F	14"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-22	CS-A	1	C5.51	F-P	14"	.375"	P1		2603-1		7	16	6	6		
CSA-CF-23	CS-A	1	C5.51	P-V	14"	.375"	P1		2603-1		7	16	6	6		CS-LV-CC
CSA-CF-24	CS-A	1	C5.51	V-P	14"	.375"	P1		2603-1		7	16	6	6		CS-LV-CC
CSA-CF-25	CS-A	1	C5.51	R-T	12"	.375"	F1		2602-2		7	16	6	6		
CSA-CF-26	CS-A	1	C5.51	T-E	12"	.375"	P1		2602-2		7	16	6	6		



PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
CSA-CF-30	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-31	CS-A	1	C5.51	E-E	12"	.375"	F1		2602-2	7	16	6	6			
CSA-CF-32	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-33	CS-A	1	C5.51	P-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-34	CS-A	1	C5.51	P-P	12"	.375"	P1		2602-2	7	16	6	6			FLOW ORIFICE
CSA-CF-35	CS-A	1	C5.51	P-P	12"	.375"	P1		2602-2	7	16	6	6			FLOW ORIFICE
CSA-CF-36	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-37	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-39	CS-A	1	C5.51	P-T	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-40	CS-A	1	C5.51	T-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-41	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-43	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-44	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-45	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-46	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-47	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-48	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-49	CS-A	1	C5.51	P-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-50	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-51	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-52	CS-A	1	C5.51	P-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-54	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-55	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-56	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-57	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-58	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-59	CS-A	1	C5.51	P-R	12"	.375"	F1		2602-2	7	16	6	6			
CSA-CF-60	CS-A	1	C5.51	R-V	12"	.719"	F1		2602-2	7	16	6	6			
CSA-CF-25A	CS-A	1	C5.51	PU-R	8"	.322"	F1		2602-2	7	16					CS PUMP-1A
CSA-CF-1	CS-A	1	C5.51	N-E	16"	.375"	P1		2603-1	7	16					1
CSA-CF-3	CS-A	1	C5.51	E-P	16"	.375"	P1		2603-1	7	16					1
CSA-CF-42	CS-A	1	C5.51	E-P	12"	.375"	P1		2602-2	7	16	6	6			2
CSA-CF-53	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6			2
CSA-CF-28	CS-A	1	C5.51	E-V	12"	.375"	F1	N/A	2602-2	7	16	6	6			3
CSA-CF-29	CS-A	1	C5.51	V-P	12"	.375"	P1	N/A	2602-2	7	16	6	6			3
CSB-CF-1	CS-B	1	C5.51	N-E	16"	.375"	F1		2603-2	7	16	6	6			
CSB-CF-2	CS-B	1	C5.51	E-E	16"	.375"	F1		2603-2	7	16	6	6			
CSB-CF-3	CS-B	1	C5.51	E-P	16"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-5	CS-B	1	C5.51	P-E	16"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-6	CS-B	1	C5.51	E-P	16"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-7	CS-B	1	C5.51	P-E	16"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-8	CS-B	1	C5.51	E-P	16"	.375"	P1		2603-2	7	16	6	6			
CSB-BJ-30	CS-B	1	C5.51	P-VA	10"	.719	P2		2501-1	7	16	6	6			BOUNDARY CHANGE NOW CONSIDERED CLASS 2 CAT:

IWC-2500-1 CAT: C-F  
CORE SPRAY SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT....	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
CSB-BJ-31	CS-B	1	C5.51	VA-P	10"	.719	P2		2501-1	7	16	6	6			C-F... FORMERLY CLASS 1 CAT: B-J... BOUNDARY CHANGE NOW CONSIDERED CLASS CAT: C-F... FORMERLY CLASS 1 CAT: B-J...
CSB-CF-11	CS-B	1	C5.51	P-P	16"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-12	CS-B	1	C5.51	P-RE	16"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-14	CS-B	1	C5.51	RE-V	14"	.375"	F1		2603-2	7	16	6	6			
CSB-CF-16	CS-B	1	C5.51	P-V	14"	.375"	P1		2603-2	7	16	6	6			CS-LV-67
CSB-CF-18	CS-B	1	C5.51	P-T	14"	.375"	P1		2603-2	7	16	6	6			CS-MO-7B
CSB-CF-19	CS-B	1	C5.51	T-PU	14"	.438"	F1		2603-2	7	16	6	6			CS PUMP-1B
CSB-CF-18	CS-B	1	C5.51	P-T	16"	.375"	P2		CB&I-69	7	16					
CSB-CF-1C	CS-B	1	C5.51	T-F	16"	.375"	F23		CB&I-69	7	16					
CSB-CF-1D	CS-B	1	C5.51	T-F	16"	.375"	F23		CB&I-69	7	16					
CSB-CF-20	CS-B	1	C5.51	T-P	14"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-21	CS-B	1	C5.51	P-F	14"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-22	CS-B	1	C5.51	F-P	14"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-23	CS-B	1	C5.51	P-F	14"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-24	CS-B	1	C5.51	F-P	14"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-25	CS-B	1	C5.51	P-VA	14"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-26	CS-B	1	C5.51	VA-P	14"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-27	CS-B	1	C5.51	PU-R	8"	.375"	F1		2602-1	7	16	6	6			CS PUMP-1B
CSB-CF-28	CS-B	1	C5.51	R-E	12"	.375"	F1		2602-1	7	16	6	6			
CSB-CF-29	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-30	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-31	CS-B	1	C5.51	E-E	12"	.375"	F1		2602-1	7	16	6	6			
CSB-CF-36	CS-B	1	C5.51	P-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-37	CS-B	1	C5.51	P-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-38	CS-B	1	C5.51	P-RT	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-39	CS-B	1	C5.51	RT-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-40	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-42	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-43	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-44	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-45	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-46	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-47	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-48	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-49	CS-B	1	C5.51	P-E	12"	.375"	F1		2602-1	7	16	6	6			
CSB-CF-50	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-52	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-53	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-54	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			

IWC-2500-1 CAT: C-F  
CORE SPRAY SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
CSB-CF-55	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-56	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-58	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-59	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-60	CS-B	1	C5.51	E-E	12"	.375"	F1		2602-1	7	16	6	6			
CSB-CF-61	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-62	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-64	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-65	CS-B	1	C5.51	P-E	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-66	CS-B	1	C5.51	E-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-67	CS-B	1	C5.51	P-F	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-68	CS-B	1	C5.51	F-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-69	CS-B	1	C5.51	P-RE	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-70	CS-B	1	C5.51	RE-P	12"	.719"	P1		2602-1	7	16	6	6			
CSB-CF-100	CS-B	1	C5.51	P-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-101	CS-B	1	C5.51	P-P	12"	.375"	P1		2602-1	7	16	6	6			
CSB-CF-15	CS-B	1	C5.51	V-P	14"	.375"	P1		2603-2	7	16	6	6		2	FLOW ORIFICE
CSB-CF-17	CS-B	1	C5.51	V-P	14"	.375"	P1		2603-2	7	16	6	6		3	CS-LV-67
CSB-CF-33	CS-B	1	C5.51	E-V	12"	.375"	F1		2602-1	7	16	6	6		3	CS-MO-7B
CSB-CF-34	CS-B	1	C5.51	V-P	12"	.375"	P1		2602-1	7	16	6	6		3	

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PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
HPID-CF-2	HPCI	1	C5.51	R-E	14"	.938"	F1	89	2609-1	7	16	6	6			
HPID-CF-6	HPCI	1	C5.51	P-E	14"	.938"	P1/F1		2609-1	7	16	6	6			
HPID-CF-7	HPCI	1	C5.51	E-P	14"	.938"	F1/P1		2609-1	7	16	6	6			
HPID-CF-8	HPCI	1	C5.51	P-E	14"	.938"	P1/F1		2609-1	7	16	6	6			
HPID-CF-9	HPCI	1	C5.51	E-P	14"	.938"	F1/P1		2609-1	7	16	6	6			
HPIS-CF-1	HPCI	1	C5.51	P-E	16"	.844"	P1		2611-6	7	16	6	6			
HPIS-CF-2	HPCI	1	C5.51	E-E	16"	.375"	F1		2611-6	7	16	6	6			
HPIS-CF-3	HPCI	1	C5.51	E-P	16"	.375"	P1		2611-6	7	16	6	6			
HPIS-CF-5	HPCI	1	C5.51	P-P	16"	.375"	P1		2611-6	7	16	6	6			
HPIS-CF-7	HPCI	1	C5.51	P-E	16"	.375"	P1		2611-6	7	16	6	6			
HPIS-CF-8	HPCI	1	C5.51	E-P	16"	.375"	P1		2611-6	7	16	6	6			
HPIS-CF-9	HPCI	1	C5.51	P-E	16"	.375"	P1		2611-6	7	16	6	6			
HPID-CF-10	HPCI	1	C5.51	P-P	14"	.938"	P1		2609-1	7	16	6	6			
HPID-CF-12	HPCI	1	C5.51	P-P	14"	.938"	P1	89	2609-1	7	16	6	6			
HPID-CF-13	HPCI	1	C5.51	P-E	14"	.938"	P1		2609-1	7	16	6	6			
HPID-CF-15	HPCI	1	C5.51	P-E	14"	.938"	P1		2609-1	7	16	6	6			
HPID-CF-17	HPCI	1	C5.51	E-V	14"	1.093"	F1		2609-1	7	16	6	6			HPCI-MO-20
HPID-CF-18	HPCI	1	C5.51	V-P	14"	1.093"	P1		2623-2	7	16	6	6			HPCI-MO-20
HPID-CF-19	HPCI	1	C5.51	P-T	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-20	HPCI	1	C5.51	T-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-21	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-22	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-23	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-25	HPCI	1	C5.51	E-E	14"	1.093"	F1		2623-2	7	16	6	6			
HPID-CF-26	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-27	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-28	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-29	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-30	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-31	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-32	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-33	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-34	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-35	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-36	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-37	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-40	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-41	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-42	HPCI	1	C5.51	E-P	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-43	HPCI	1	C5.51	P-E	14"	1.093"	P1		2623-2	7	16	6	6			
HPID-CF-44	HPCI	1	C5.51	E-V	14"	1.093"	F1		2623-2	7	16	6	6			
HPID-CF-45	HPCI	1	C5.51	T-R	14"	1.093"	F1		2623-2	7	16	6	6			
HPID-CF-46	HPCI	1	C5.51	R-P	10"	.843"	P1		2623-2	7	16	6	6			
HPID-CF-47	HPCI	1	C5.51	P-P	10"	.843"	P1		2623-2	7	16	6	6			

RO-135

IWC-2500-1 CAT: C-F  
HPCI SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
HPID-CF-48	HPCI	1	C5.51	P-P	10"	.843"	P1		2623-2	7	16	6	6			RO-135
HPID-CF-49	HPCI	1	C5.51	P-V	10"	.843"	P1		2623-2	7	16	6	6			HPCI-MO-21
HPID-CF-50	HPCI	1	C5.51	V-P	10"	.843"	P1		2623-2	7	16	6	6			HPCI-MO-21
HPID-CF-51	HPCI	1	C5.51	P-V	10"	.843"	P1		2623-2	7	16	6	6			HPCI-MO-24
HPID-CF-52	HPCI	1	C5.51	P-P	14"	1.093"	P1	89	2623-3		16		6			ADDED PER NCR 89-071
HPID-CF-53	HPCI	1	C5.51	P-P	14"	1.093"	P1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-55	HPCI	1	C5.51	E-P	14"	1.093"	F1/P1		2623-3	7	16		6			ADDED PER NCR 89-071
HPID-CF-56	HPCI	1	C5.51	P-P	14"	1.093"	P1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-57	HPCI	1	C5.51	P-E	14"	1.093"	P1/F1		2623-3	7	16		6			ADDED PER NCR 89-071
HPID-CF-58	HPCI	1	C5.51	E-E	14"	1.093"	F1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-59	HPCI	1	C5.51	E-P	14"	1.093"	F1/P1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-60	HPCI	1	C5.51	P-E	14"	1.093"	P1/F1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-61	HPCI	1	C5.51	E-P	14"	1.093"	F1/P1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-62	HPCI	1	C5.51	P-E	14"	1.093"	P1/F1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-63	HPCI	1	C5.51	E-VA	14"	1.093"	F1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-64	HPCI	1	C5.51	VA-P	14"	1.093"	P1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-65	HPCI	1	C5.51	P-E	14"	1.093"	P1/F1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-66	HPCI	1	C5.51	E-VA	14"	1.093"	F1		2623-3	7	16	6	6			ADDED PER NCR 89-071
HPID-CF-71	HPCI	1	C5.51	F-P	12"	.406"	F1		2F-1239	7	16					
HPID-CF-72	HPCI	1	C5.51	P-E	12"	.406	F1		2F-1239	7	16					
HPID-CF-73	HPCI	1	C5.51	E-P	12"	.406	F1		2F-1239	7	16					
HPID-CF-74	HPCI	1	C5.51	P-E	12"	.406	F1		2F-1239	7	16					
HPID-CF-75	HPCI	1	C5.51	E-F	12"	.406	F1		2F-1239	7	16					
HPIS-CF-10	HPCI	1	C5.51	E-P	16"	.375"	P1		2611-6	7	16					
HPIS-CF-12	HPCI	1	C5.51	P-E	16"	.375"	P1		2611-6	7	16					
HPIS-CF-13	HPCI	1	C5.51	E-P	16"	.375"	P1		2611-6	7	16					
HPIS-CF-15	HPCI	1	C5.51	V-E	16"	.375"	F1		2611-6	7	16					HPCI-LV-12
HPIS-CF-17	HPCI	1	C5.51	V-P	16"	.375"	P1		2611-6	7	16	6	6			HPCI-MO-58
HPIS-CF-19	HPCI	1	C5.51	P-V	16"	.375"	P1		2611-6	7	16	6	6			HPCI-CV-11
HPIS-CF-18	HPCI	1	C5.51	P-T	16"	.375	P2		CB&I-69	7	16					
HPIS-CF-1C	HPCI	1	C5.51	T-F	16"	.375	F23		CB&I-69	7	16					
HPIS-CF-1D	HPCI	1	C5.51	T-F	16"	.375	F23		CB&I-69	7	16					
HPIS-CF-20	HPCI	1	C5.51	V-T	16"	.375"	F1		2611-6	7	16	6	6			HPCI-CV-11
HPIS-CF-21	HPCI	1	C5.51	T-P	16"	.375"	P1		2611-6	7	16	6	6			
HPIS-CF-23	HPCI	1	C5.51	P-P	16"	.375"	P1		2611-6	7	16	6	6			
HPIS-CF-24	HPCI	1	C5.51	P-V	16"	.375"	P1		2611-6	7	16	6	6			HPCI-CV-10
HPIS-CF-25	HPCI	1	C5.51	V-V	16"	.375"	F1		2611-6	7	16	6	6			HPCI-CV-10.TO.HPCI-MO-17
HPIS-CF-26	HPCI	1	C5.51	T-F	16"	.375"			2611-6	7	16	6	6			
HPIS-CF-28	HPCI	1	C5.51	F-P	16"	.375"	P1		2611-6	7	16	6	6			
HPIS-CF-29	HPCI	1	C5.51	P-F	16"	.375"	P1		2611-6	7	16	6	6			
HPIS-CF-31	HPCI	1	C5.51	F-E	16"	.375"	F1		2611-6	7	16	6	6			
HPIS-CF-32	HPCI	1	C5.51	E-RE	16"	.375"	F1		2611-6	7	16	6	6			
HPIS-CF-33	HPCI	1	C5.51	RE-P	14"	.375"	P1		2611-6	7	16	6	6			
HPID-CF-12A	HPCI	1	C5.51	F-P	14"	.938"	P1		2609-1	7	16	6	6			

IWC-2500-1 CAT: C-F  
 HPCI SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WBT.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
HPIS-CF-14	HPCI	1	C5.51	P-V	16"	.375"	P1		2611-6	7	16				1	HPCI-LV-12
HPIS-CF-16	HPCI	1	C5.51	E-V	16"	.375"	F1		2611-6	7	16				1	HPCI-MO-58
HPID-CF-14	HPCI	1	C5.51	E-P	14"	.938"	P1		2609-1	7	16	6	6		2	
HPID-CF-54	HPCI	1	C5.51	P-E	14"	1.093"	P1/F1	89	2623-3		16		6		2	ADDED PER NCR 89-071
HPIS-CF-34	HPCI	1	C5.51	P-PU	14"	.375"	P1		2611-6	7	16	6	6		2	HPIC PUMP
HPID-CF-1	HPCI	1	C5.51	PU-R	10"	.719"	F1	4	2609-1	7	16	6	6		3	HPCI PUMP
HPID-CF-3	HPCI	1	C5.51	E-P	14"	.938"	P1	89	2609-1	7	16	6	6		3	
HPID-CF-10A	HPCI	1	C5.51	P-F	14"	.938"	P1	89	2609-1	7	16	6	6		3	

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IWC-2500-1 CAT: C-F  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKMS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER REMARKS.....
RSA-CF-1	MS	1		T-F	8"	.322"	Fi	N/A	2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-2	MS	1		P-E	8"	.322"	P1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-3	MS	1		P-E	8"	.322"	P1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-4	MS	1		P-E	8"	.322"	P1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-5	MS	1		P-E	8"	.322"	P1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-6	MS	1		P-E	8"	.322"	P1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-7	MS	1		P-T	8"	.322"	P1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-8	MS	1		E-T	8"	.322"	F1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-9	MS	1		E-V	8"	.322"	F1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
HPEX-CF-7	MS	1		P-F	6"	.280"	P1/A10		2614-3						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-10	MS	1		P-V	8"	.322"	P1		2614-1						EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION

IWC-2500-1 CAT: C-F  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKMS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RSA-CF-11	MS	1		P-V	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-22	MS	1		T-P	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-23	MS	1		P-E	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-24	MS	1		E-P	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-27	MS	1		P-E	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-28	MS	1		E-P	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-29	MS	1		P-E	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-30	MS	1		E-F	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-101	MS	1		P-T	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-102	MS	1		P-CAP	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RSA-CF-701	MS	1		P-T	8"	.322"	P1		2614-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION

PIPE..... SYSTEM.. CNT. ITEM.NO. CFG... SIZE.. TKNS..... MAT... W81.CAL... ISO..... PT.. MT.. UT0.. UT45.... UT60.... PER REMARKS.....

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PSA-CF-1	MS	1	C5.51	E-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-2	MS	1	C5.51	P-E	10"	.719"	F1	78	2629-1	7	16		6	
PSA-CF-4	MS	1	C5.51	P-E	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-5	MS	1	C5.51	E-P	10"	.719"	F1		2629-1	7	16	6	6	
PSA-CF-7	MS	1	C5.51	T-E	10"	.719"	F1		2629-1	7	16	6	6	
PSA-CF-8	MS	1	C5.51	E-P	10"	.719"	P1	78	2629-1	7	16		6	
RWA-CF-2	MS	1	C5.51	P-CAP	8"	.594"	P1		2629-2	7	16	6	6	
HPEX-CF-2	MS	1	C5.51	F-RE	18"	.562"	F1		2614-3	7	16	6	6	
HPEX-CF-4	MS	1	C5.51	P-T	20"	.594"	P1		2614-3	7	16	6	6	
HPEX-CF-5	MS	1	C5.51	T-T	20"	.594"	F1		2614-3	7	16	6	6	
HPEX-CF-9	MS	1	C5.51	T-P	20"	.594"	P1		2614-3	7	16	6	6	
PSA-CF-10	MS	1	C5.51	E-P	10"	.719"	P1	78	2629-1	7	16	6	6	
PSA-CF-11	MS	1	C5.51	P-E	10"	.719"	P1	78	2629-1	7	16		6	
PSA-CF-12	MS	1	C5.51	E-P	10"	.719"	P1	78	2629-1	7	16	6	6	
PSA-CF-13	MS	1	C5.51	P-E	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-14	MS	1	C5.51	E-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-15	MS	1	C5.51	P-T	10"	.719"	P1	78	2629-1	7	16	6	6	
PSA-CF-16	MS	1	C5.51	T-R	10"	.719"	F1		2629-1	7	16	6	6	
PSA-CF-17	MS	1	C5.51	T-T	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-18	MS	1	C5.51	P-E	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-19	MS	1	C5.51	E-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-20	MS	1	C5.51	P-E	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-21	MS	1	C5.51	E-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-22	MS	1	C5.51	P-E	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-23	MS	1	C5.51	E-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-24	MS	1	C5.51	P-E	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-25	MS	1	C5.51	E-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-26	MS	1	C5.51	P-T	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-27	MS	1	C5.51	T-P	8"	.594"	P1		2629-1	7	16	6	6	
PSA-CF-28	MS	1	C5.51	T-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-29	MS	1	C5.51	P-E	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-30	MS	1	C5.51	E-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-31	MS	1	C5.51	P-E	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-32	MS	1	C5.51	E-T	10"	.719"	F1		2629-1	7	16	6	6	
PSA-CF-33	MS	1	C5.51	T-V	10"	.719"	F1		2629-1	7	16	6	6	
PSA-CF-34	MS	1	C5.51	V-F	10"	.719"	F1		2629-1	7	16	6	6	
PSA-CF-35	MS	1	C5.51	T-P	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-36	MS	1	C5.51	P-C	10"	.719"	P1		2629-1	7	16	6	6	
PSA-CF-37	MS	1	C5.51	P-V	8"	.594"	P1		2629-1	7	16	6	6	
PSA-CF-6A	MS	1	C5.51	P-T	10"	.719"	P1		2629-1	7	16	6	6	
RAS-CF-12	MS	1	C5.51	P-R	8"	.594"	P1	73	2629-1	7	16	6	6	

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER REMARKS.....
RAS-CF-15	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-16	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-17	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-18	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-19	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-20	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-21	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-22	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-23	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-24	MS	1	C5.51	P-E	3"	.594"	P1	73	2629-1		7	16	6	6	
RAS-CF-25	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-26	MS	1	C5.51	E-E	8"	.594"	F1		2629-1		7	16	6	6	
RAS-CF-27	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-28	MS	1	C5.51	T-P	8"	.594"	P1	73	2629-1		7	16	6	6	
RAS-CF-29	MS	1	C5.51	P-T	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-30	MS	1	C5.51	P-C	3"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-31	MS	1	C5.51	P-T	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-32	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-33	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-34	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RAS-CF-35	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-14	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-15	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-16	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-17	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-18	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-19	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-20	MS	1	C5.51	E-E	8"	.594"	F1		2629-1		7	16	6	6	
RBS-CF-21	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-22	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-23	MS	1	C5.51	P-E	8"	.594"	P1	73	2629-1		7	16	6	6	
RBS-CF-24	MS	1	C5.51	T-P	8"	.594"	P1	73	2629-1		7	16	6	6	
RBS-CF-25	MS	1	C5.51	P-CAP	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-26	MS	1	C5.51	P-T	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-27	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-28	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-29	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-30	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-31	MS	1	C5.51	E-P	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-32	MS	1	C5.51	P-E	8"	.594"	P1		2629-1		7	16	6	6	
RBS-CF-33	MS	1	C5.51	R-P	8"	.594"	P1		2629-1		7	16	6	6	
HPEX-CF-11	MS	1	C5.51	T-P	20"	.375"	P1		2614-3		7	16			
HPEX-CF-12	MS	1	C5.51	P-E	20"	.375"	P1		2614-3		7	16			
HPEX-CF-13	MS	1	C5.51	E-P	20"	.375"	P1		2614-3		7	16	6	6	

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
HPEX-CF-15	MS	1	C5.51	P-E	20"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-16	MS	1	C5.51	E-P	20"	.375"	P1		2614-3	7	16					
HPEX-CF-18	MS	1	C5.51	P-E	20"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-19	MS	1	C5.51	E-P	20"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-20	MS	1	C5.51	P-E	20"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-21	MS	1	C5.51	E-P	20"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-23	MS	1	C5.51	P-E	20"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-24	MS	1	C5.51	E-V	20"	.375"	F1		2614-3	7	16	6	6			HPCI-CV-15
HPEX-CF-25	MS	1	C5.51	V-P	20"	.375"	P1		2614-3	7	16	6	6			HPCI-CV-15
HPEX-CF-26	MS	1	C5.51	P-P	20"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-27	MS	1	C5.51	P-P	20"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-28	MS	1	C5.51	P-V	20"	.375"	P1		2614-3	7	16	6	6			HPCI-LV-44
HPEX-CF-30	MS	1	C5.51	T-P	16"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-31	MS	1	C5.51	P-E	16"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-33	MS	1	C5.51	E-P	16"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-34	MS	1	C5.51	P-E	16"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-35	MS	1	C5.51	E-P	16"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-36	MS	1	C5.51	P-E	16"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-37	MS	1	C5.51	E-P	16"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-38	MS	1	C5.51	P-P	16"	.375"	P1		2614-3	7	16	6	6			
HPEX-CF-39	MS	1	C5.51	P-F	16"	.375"	P1		2614-3	7	16	6	6			
RBS-CF-241	MS	1	C5.51	T-P	8"	.594"	F1		2629-1	7	16	6	6			
RAS-CF-14	MS	1	C5.51	P-E	8"	.594"	P1	73	2629-1	7	16					1
RBS-CF-12	MS	1	C5.51	P-R	8"	.594"	P1	73	2629-1	7	16					1
HPEX-CF-10	MS	1	C5.51	P-CAP	20"	.594"	P1	102	2614-3	7	16					1
PSA-CF-3	MS	1	C5.51	E-P	10"	.719"	P1	78	2629-1	7	16	6	6			2
PSA-CF-9	MS	1	C5.51	P-E	10"	.719"	P1	79	2629-1	7	16	6	6			2
RBS-CF-13	MS	1	C5.51	E-P	8"	.594"	P1	73	2629-1	7	16	6	6			2
PSA-CF-6	MS	1	C5.51	T-R	10"	.719"	F1	78	2629-1	7	16	6	6			3
RWA CF-1	MS	1	C5.51	P-CAP	8"	.594"	P1	73	2629-2	7	16	6	6			3
HPEX-CF-3	MS	1	C5.51	RE-P	20"	.594"	P1		2614-3	7	16	6	6			3
RAS-CF-13	MS	1	C5.51	E-P	8"	.594"	P1	73	2629-1	7	16	6	6			3
RAS-CF-36	MS	1	C5.51	R-P	8"	.594"	P1	73	2629-1	7	16	6	6			3

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HPEX-CF-6 MS 1 C5.81 WOL-P 20"-6" .280" P1 2614-3

1 \*\*\*

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IWC-2500-1 CAT: C-F  
 NITROGEN PURGE AND VENT SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER REMARKS.....
PNC-CG-6	PNC	1	C5.51	K-P	24"	.375"	P1		RCO-755-1	7	16				
PNC-CG-9	PNC	1	C5.51	K-E	24"	.375"	F1		RCO-755-1	7	16				
PNC-CG-10	PNC	1	C5.51	E-F	24"	.375"	F1		RCO-755-1	7	16				
PNC-CG-20	PNC	1	C5.51	F-P	20"	.375"	P1		RCO-755-2	7	16				
PNC-CG-21	PNC	1	C5.51	P-F	20"	.375"	P1		RCO-755-2	7	16				
PNC-CG-23	PNC	1	C5.51	F-P	20"	.375"	P1		RCO-755-2	7	16				
PNC-CG-24	PNC	1	C5.51	P-F	20"	.375"	P1		RCO-755-2	7	16				
PNC-CG-27	PNC	1	C5.51	F-P	24"	.375"	P1		RCO-755-2	7	16				
PNC-CG-28	PNC	1	C5.51	P-F	24"	.375"	P1		RCO-755-2	7	16				
PNC-CG-35	PNC	1	C5.51	P-F	24"	.375"	P1		RCO-755-3	7	16				
PNC-CG-36	PNC	1	C5.51	F-P	24"	.375"	P1		RCO-755-3	7	16				
PNC-CG-5	PNC	1	C5.51	P-F	24"	.375"	P1		RCO-755-1	7	16				
		12	***												
***		12													

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IWC-2500-1 CAT: C-F  
RCIC SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RWA-CF-15	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-16	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-17	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-18	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-19	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-20	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-21	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-22	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-23	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-24	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-25	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION

IWC-2500-1 CAT: C-F  
RCIC SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RWA-CF-26	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-27	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-28	RCIC	1		E-V	6"	.280"	F1		2621-1							RCIC-LV-23, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-29	RCIC	1		V-P	6"	.280"	P1		2621-1							RCIC-LV-23, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-30	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-31	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-32	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-33	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-34	RCIC	1		P-V	6"	.280"	P1		2621-1							RCIC-MO-41, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-35	RCIC	1		V-P	6"	.280"	P1		2621-1							RCIC-MO-41, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION

IWC-2500-1 CAT: C-F  
RCIC SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RWA-CF-37	RCIC	1		P-V	6"	.280"	P1		2621-1							RCIC-CV-11, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-38	RCIC	1		V-T	6"	.280"	F1		2621-1							RCIC-CV-11, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-39	RCIC	1		T-T	6"	.280"	F1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-40	RCIC	1		T-V	6"	.280"	F1		2621-1							RCIC-CV-10, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-41	RCIC	1		V-V	6"	.280"	F1		2621-1							RCIC-CV-10 TO RCIC-MO-18, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-42	RCIC	1		T-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-43	RCIC	1		P-V	6"	.280"	P1		2621-1							RCIC-LV-10, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-44	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-45	RCIC	1		P-F	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-46	RCIC	1		F-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION

IWC-2500-1 CAT: C-F  
RCIC SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RWA-CF-47	RCIC	1		P-F	6"	.280"	P1		2621-1							WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-48	RCIC	1		F-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-49	RCIC	1		P-PU	6"	.280"	P1		2621-1							RCIC PUMP, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-50	RCIC	1		T-E	6"	.280"	F1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-51	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-52	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-53	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-54	RCIC	1		P-E	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-55	RCIC	1		E-P	6"	.280"	P1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-56	RCIC	1		P-E	6"	.280"	P1-F1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-57	RCIC	1		E-E	6"	.280"	F1		2621-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2),

IWC-2500-1 CAT: C-F  
RCIC SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTC..	UT45....	UT60....	PER	REMARKS.....
RWA-CF-58	RCIC	1		E-P	6"	.280"	P1		2621-1							MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-59	RCIC	1		P-E	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-60	RCIC	1		E-P	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-61	RCIC	1		P-E	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-62	RCIC	1		E-P	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-63	RCIC	1		P-E	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-64	RCIC	1		E-P	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-65	RCIC	1		P-E	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-66	RCIC	1		E-P	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-67	RCIC	1		P-T	6"	.280"	P1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-68	RCIC	1		T-R	6"	.280"	F1		2621-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2),

IWC-2500-1 CAT: C-F  
 RCIC SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE..... SYSTEM.. CNT. ITEM.NO. CFG... SIZE.. TKNS..... MAT... W81.CAL... ISO..... PT.. MT.. UT0.. UT45.... UT60.... PER REMARKS.....

PIPE	SYSTEM	CNT.	ITEM.NO.	CFG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RWA-CF-42A	RCIC	1		P-V	6"	.280"	P1		2621-1							MUST BE INCLUDED IN TOTAL WELD POPULATION RCIC-LV-10, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
		54	***													
RWA-CF-10	RCIC	1	C5.51	T-F	6	.432	F-23		CB&I-69	7	16				3	OFF TORUS PEN. X-224...
RWA-CF-11	RCIC	1	C5.51	T-F	6	.432	F-23		CB&I-69	7	16				3	OFF TORUS PEN. X-224...
RWA-CF-12	RCIC	1	C5.51	P-T	6	.432	P2		CB&I-69	7	16				3	OFF TOURS PEN. X-224...
RWA-CF-14	RCIC	1	C5.51	N-P	6"	.432"	P1		2621-1						3	OFF TORUS PEN. X-224...
		4	***													
***		58														



IWC-2500-1 CAT: C-F  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RCC-CF-1	REC	1		V-P	8"	.322	P5		2848-8							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2) BUT PART OF TOTAL WELD POPULATION SINCE NOT EXEMPT PER N-408-2 EXEMPTIONS
RCC-CF-2	REC	1		P-FH	8"	.322	P5		2848-8							X-23 PEN, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2) BUT PART OF TOTAL WELD POPULATION SINCE NOT EXEMPT PER N-408-2 EXEMPTIONS
RCC-CF-3	REC	1		FH-P	8"	.322	P5		2848-1							X-24 PEN, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2) BUT PART OF TOTAL WELD POPULATION SINCE NOT EXEMPT PER N-408-2 EXEMPTIONS
RCC-CF-4	REC	1		P-V	8"	.322	P5		2848-1							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2) BUT PART OF TOTAL WELD POPULATION SINCE NOT EXEMPT PER N-408-2 EXEMPTIONS
		4	***													
***		4														

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RHW-CF-42	RHR	1		E-VA	8"	.322"	F1		2625-4							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-2	RHR-A	1		T-E	10"	.365"	F1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-3	RHR-A	1		E-P	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-4	RHR-A	1		P-E	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-5	RHR-A	1		E-V	10"	.365"	F1	N/A	2624-2							RHR-MO-26A, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-6	RHR-A	1		V-E	10"	.365"	F1		2624-2							RHR-MO-26A, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-7	RHR-A	1		P-E	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-8	RHR-A	1		E-P	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-9	RHR-A	1		P-E	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RAW-CF-46	RHR-A	1		P-V	6"	.280"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RAW-CF-54	RHR-A	1		WOL-P	6"	.280"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2),

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RHG-CF-10	RHR-A	1		E-P	10"	.365"	P1		2624-2							MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-11	RHR-A	1		P-E	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-12	RHR-A	1		E-P	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-13	RHR-A	1		P-E	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-14	RHR-A	1		E-P	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-15	RHR-A	1		P-E	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-16	RHR-A	1		E-P	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-17	RHR-A	1		P-E	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-19	RHR-A	1		E-V	10"	.365"	F1	N/A	2624-2							RHR-MO-31A, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-6A	RHR-A	1		E-P	10"	.365"	P1		2624-2							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-2	RHR-B	1		P-R	8"	.322"	P1		2624-6							EXEMPT FROM NDE BASED ON

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKMS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RHD-CF-3	RHR-B	1		P-E	8"	.322"	P1		2624-6							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-4	RHR-B	1		P-E	8"	.322"	P1		2624-6							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-5	RHR-B	1		P-E	8"	.322"	P1		2624-6							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-6	RHR-B	1		P-E	8"	.322"	P1		2624-6							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-7	RHR-B	1		P-P	8"	.322"	P1		2624-6							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-8	RHR-B	1		P-P	8"	.322"	P1		2624-6							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-1	RHR-B	1		RT-V	10"	.365"	F1		2624-6							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-2	RHR-B	1		V-E	10"	.365"	F1		2624-6							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-4	RHR-B	1		E-P	10"	.365"	P1		2624-7							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-5	RHR-B	1		P-E	10"	.365"	P1		2624-7							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-6	RHR-B	1		E-P	10"	.365"	P1		2624-7							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RHE-CF-7	RHR-B	1		P-E	10"	.365"	P1		2624-7							WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION F86 NOT ACCESSIBLE-IN CONCRETE,RHS-35,RHH-141,R EPLACE WITH RHE-CF-11, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-8	RHR-B	1		E-E	10"	.365"	F1		2624-7							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-9	RHR-B	1		E-P	10"	.365"	P1		2624-7							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RBW-CF-52	RHR-B	1		P-V	6"	.280"	P1		2624-5							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RBW-CF-60	RHR-B	1		WOL-P	6"	.280"	P1		2624-5							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-10	RHR-B	1		P-T	8"	.322"	P1		2624-6							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-11	RHR-B	1		V-T	8"	.322"	F1		2624-6							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-12	RHR-B	1		P-T	6"	.280"	P1		2624-6							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-13	RHR-B	1		P-E	6"	.280"	P1		2624-6							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-14	RHR-B	1		P-E	6"	.280"	P1		2624-6							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2),

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT....	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RHD-CF-15	RHR-B	1		P-P	6"	.280"	P1		2624-6							MUST BE INCLUDED IN TOTAL WELD POPULATION EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-9*	RHR-B	1		P-P	8"	.322"	P1		2624-6							RELIEF REQUEST RI-04, EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-10	RHR-B	1		P-P	10"	.365"	P1		2624-7							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-11	RHR-B	1		P-E	10"	.365"	P1		2624-7							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-12	RHR-B	1		E-P	10"	.365"	P1		2624-7							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-13	RHR-B	1		P-E	10"	.365"	P1		2624-7							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHE-CF-14	RHR-B	1		E-V	10"	.365"	F1		2624-7							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-201	RHR-B	1		P-E	6"	.280"	P1		2624-6							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
		51	***													
RHA-CF-1	RHR	1	C5.51	E-T	20"	.375"	F1		2625-3		7	16				
RHA-CF-3	RHR	1	C5.51	E-P	20"	.375"	P1		2625-3		7	16	6	6		
RHA-CF-4	RHR	1	C5.51	P-E	20"	.375"	P1		2625-3		7	16	6	6		
RHA-CF-5	RHR	1	C5.51	E-P	20"	.375"	P1		2625-3		7	16	6	6		
RHA-CF-6	RHR	1	C5.51	P-E	20"	.375"	P1		2625-3		7	16	6	6		
RHA-CF-7	RHR	1	C5.51	V-P	20"	.375"	P1		2625-3		7	16	6	6		



IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER REMARKS.....
RAW-CF-13	RHR	1	C5.51	E-V	20"	.375"	F1		2625-2	7	16	6	6		
RAW-CF-14	RHR	1	C5.51	E-P	20"	.432"	P1		2625-1	7	16	6	6		
RAW-CF-15	RHR	1	C5.51	P-E	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-16	RHR	1	C5.51	E-T	20"	.375"	F1		2625-1	7	16	6	6		
RAW-CF-17	RHR	1	C5.51	P-T	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-18	RHR	1	C5.51	P-E	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-19	RHR	1	C5.51	P-E	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-20	RHR	1	C5.51	E-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-21	RHR	1	C5.51	P-E	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-22	RHR	1	C5.51	P-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-23	RHR	1	C5.51	T-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-24	RHR	1	C5.51	P-T	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-26	RHR	1	C5.51	P-E	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-27	RHR	1	C5.51	E-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-36	RHR	1	C5.51	P-V	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-37	RHR	1	C5.51	E-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-38	RHR	1	C5.51	T-E	20"	.375"	P1		2625-1	7	16	6	6		
RBW-CF-14	RHR	1	C5.51	P-V	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-15	RHR	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16				
RBW-CF-16	RHR	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-17	RHR	1	C5.51	T-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-19	RHR	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-20	RHR	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-21	RHR	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-22	RHR	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-23	RHR	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-24	RHR	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-25	RHR	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-26	RHR	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-27	RHR	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-41	RHR	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-43	RHR	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-44	RHR	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RHA-CF-2	RHR	1	C5.51	P-E	20"	.375"	P1		2625-3	7	16				2
RAW-CF-25	RHR	1	C5.51	E-P	20"	.375"	P1		2625-1	7	16				2
RBW-CF-18	RHR	1	C5.51	P-T	20"	.375"	P1		2625-4	7	16				2
SW-CF-1	RHR-A	1	C5.51	P-T	14"	.375"	P1		2624-3A	7	16				
SW-CF-3	RHR-A	1	C5.51	E-E	14"	.375"	F1		2624-3A	7	16	6	6		
SW-CF-4	RHR-A	1	C5.51	P-E	14"	.375"	P1		2624-3A	7	16	6	6		
RAS-CF-1	RHR-A	1	C5.51	T-N	20"	.594"	F1	101	2614-2	7	16			6	
RAS-CF-2	RHR-A	1	C5.51	R-T	20"	.594"	F1		2614-2	7	16	6	6		
RAS-CF-3	RHR-A	1	C5.51	E-R	18"	.562"	F1		2614-2	7	16	6	6		
RAS-CF-4	RHR-A	1	C5.51	P-E	18"	.562"	P1	101	2614-2	7	16				
RAS-CF-5	RHR-A	1	C5.51	E-P	18"	.562"	P1		2614-2	7	16	6	6		

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER REMARKS.....
RAS-CF-6	RHR-A	1	C5.51	P-E	18"	.562"	P1		2614-2	7	16	6	6		
RAS-CF-7	RHR-A	1	C5.51	E-P	18"	.562"	P1		2614-2	7	16	6	6		
RAS-CF-8	RHR-A	1	C5.51	P-E	18"	.562"	P1	101	2614-2	7	16	6	6		
RAS-CF-9	RHR-A	1	C5.51	R-P	18"	.562"	P1		2614-2	7	16	6	6		
RAW-CF-2	RHR-A	1	C5.51	F-P	20"	.375"	P1		2625-2	7	16	6	6		
RAW-CF-3	RHR-A	1	C5.51	P-F	20"	.375"	P1		2625-2	7	16	6	6		
RAW-CF-4	RHR-A	1	C5.51	E-P	20"	.375"	P1		2625-2	7	16	6	6		
RAW-CF-6	RHR-A	1	C5.51	E-P	20"	.375"	P1		2625-2	7	16	6	6		
RAW-CF-7	RHR-A	1	C5.51	P-E	20"	.375"	P1		2625-2	7	16	6	6		
RAW-CF-8	RHR-A	1	C5.51	T-P	20"	.375"	P1		2625-2	7	16	6	6		
RAW-CF-9	RHR-A	1	C5.51	T-R	20"	.375"	F1		2625-2	7	16	6	6		
RBS-CF-6	RHR-A	1	C5.51	P-E	18"	.562"	P1		2614-2	7	16	6	6		
RBS-CF-7	RHR-A	1	C5.51	E-P	18"	.562"	P1		2614-2	7	16	6	6		
RCT-CF-1	RHR-A	1	C5.51	P-T	24"	.562"	F1		2624-3A	7	16	6	6		
RCT-CF-2	RHR-A	1	C5.51	R-P	24"	.562"	F1		2624-3A	7	16	6	6		
RCT-CF-3	RHR-A	1	C5.51	V-R	20"	.500"	F1		2624-3A	7	16	6	6		
RHB-CF-3	RHR-A	1	C5.51	P-E	16"	.500"	P1	N/A	2624-1	7	16	6	6		
RHB-CF-4	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-5	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-6	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-7	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-8	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-9	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RPA-CF-1	RHR-A	1	C5.51	N-P	20"	.375"	P1		2626-1	7	16	6	6		FORMERLY RPC-CF-1 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPA-CF-2	RHR-A	1	C5.51	P-E	20"	.375"	P1		2626-1	7	16	6	6		FORMERLY RPC-CF-2 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPA-CF-3	RHR-A	1	C5.51	E-P	20"	.375"	P1		2626-1	7	16	6	6		FORMERLY RPC-CF-3 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPA-CF-5	RHR-A	1	C5.51	P-E	20"	.375"	P1		2626-1	7	16	6	6		FORMERLY RPC-CF-5 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPA-CF-6	RHR-A	1	C5.51	E-P	20"	.375"	P1		2626-1	7	16	6	6		FORMERLY RPC-CF-6 * DCN NO. C93-0385 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPA-CF-7	RHR-A	1	C5.51	P-P	20"	.375"	P1		2626-1	7	16	6	6		FORMERLY RPC-CF-7 * DCN

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RPA-CF-8	RHR-A	1	C5.51	P-P	20"	.375"	P1		2626-1	7	16	6	6			NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 * FORMERLY RFC-CF-8 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPC-CF-2	RHR-A	1	C5.51	P-E	20"	.375"	P1		2626-1	7	16					FORMERLY EXAMINED AS RPA-CF-2 IN INT 2, PER 1 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPC-CF-3	RHR-A	1	C5.51	E-P	20"	.375"	P1		2626-1	7	16					FORMERLY EXAMINED AS RPA-CF-3 IN INT 2, PER 1 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPC-CF-4	RHR-A	1	C5.51	P-E	20"	.375"	P1		2626-1	7	16					FORMERLY EXAMINED AS RPA-CF-4 IN INT 2, PER 1 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPC-CF-5	RHR-A	1	C5.51	E-P	20"	.375"	P1		2626-1	7	16					FORMERLY EXAMINED AS RPA-CF-5 IN INT 2, PER 1 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPC-CF-7	RHR-A	1	C5.51	P-P	20"	.375"	P1		2626-1	7	16					FORMERLY EXAMINED AS RPA-CF-7 IN INT 2, PER 1 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPC-CF-8	RHR-A	1	C5.51	P-E	20"	.375"	P1		2626-1	7	16	6	6			FORMERLY RPA-CF-8 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPC-CF-9	RHR-A	1	C5.51	E-P	20"	.375"	P1		2626-1	7	16	6	6			FORMERLY RPA-CF-9 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF. NCR 91-088 *
RAW-CF-10	RHR-A	1	C5.51	R-V	16"	.375"	F1		2625-2	7	16	6	6			
RAW-CF-11	RHR-A	1	C5.51	P-T	20"	.375"	P11		2625-2	7	16	6	6			
RAW-CF-12	RHR-A	1	C5.51	V-P	20"	.375"	P11		2625-2	7	16	6	6			
RAW-CF-28	RHR-A	1	C5.51	P-T	20"	.375"	P1		2625-1	7	16	6	6			

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER REMARKS.....
RAW-CF-29	RHR-A	1	C5.51	P-F	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-30	RHR-A	1	C5.51	E-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-31	RHR-A	1	C5.51	P-E	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-32	RHR-A	1	C5.51	E-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-33	RHR-A	1	C5.51	P-E	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-34	RHR-A	1	C5.51	E-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-35	RHR-A	1	C5.51	V-E	20"	.375"	F1		2625-1	7	16	6	6		
RAW-CF-39	RHR-A	1	C5.51	T-R	24"	.562"	F1		2624-2	7	16	6	6		
RAW-CF-40	RHR-A	1	C5.51	R-E	18"	.438"	F1		2624-2	7	16	6	6		
RAW-CF-41	RHR-A	1	C5.51	E-E	18"	.438"	F1	N/A	2624-2	7	16	6	6		
RAW-CF-42	RHR-A	1	C5.51	E-P	18"	.438"	P1		2624-2	7	16	6	6		
RAW-CF-43	RHR-A	1	C5.51	E-P	18"	.438"	P1		2624-2	7	16	6	6		
RAW-CF-44	RHR-A	1	C5.51	P-V	18"	.438"	F1		2624-2	7	16	6	6		
RAW-CF-45	RHR-A	1	C5.51	V-P	18"	.438"	P1		2624-2	7	16	6	6		
RAW-CF-55	RHR-A	1	C5.51	P-VA	18"	.438"	P1		2624-2	7	16	6	6		
RAW-CF-67	RHR-A	1	C5.51	E-R	20"	.594"	F1		2624-3A	7	16	6	6		
RAW-CF-68	RHR-A	1	C5.51	R-P	16"	.500"	P1		2624-3A	7	16	6	6		
RAW-CF-69	RHR-A	1	C5.51	P-E	16"	.500"	P1	N/A	2624-3A	7	16	6	6		
RAW-CF-70	RHR-A	1	C5.51	E-V	16"	.500"	F1		2624-3A	7	16	6	6		
RAW-CF-71	RHR-A	1	C5.51	V-P	16"	.500"	P1		2624-3A	7	16	6	6		
RAW-CF-72	RHR-A	1	C5.51	P-T	16"	.500"	P1		2624-3A	7	16	6	6		
RAW-CF-73	RHR-A	1	C5.51	T-P	24"	.562"	P1		2624-3A	7	16	6	6		
RAW-CF-74	RHR-A	1	C5.51	P-T	24"	.562"	P1		2624-3A	7	16	6	6		
RAW-CF-75	RHR-A	1	C5.51	T-P	24"	.562"	P1		2624-3A	7	16	6	6		
RAW-CF-77	RHR-A	1	C5.51	E-P	24"	.562"	P1		2624-3A	7	16	6	6		
RAW-CF-78	RHR-A	1	C5.51	P-P	24"	.562"	P1	104	2624-3A	7	16	6	6		
RAW-CF-79	RHR-A	1	C5.51	E-P	24"	.562"	P1		2624-2	7	16	6	6		
RAW-CF-80	RHR-A	1	C5.51	P-E	24"	.562"	F1		2624-2	7	16	6	6		
RAW-CF-81	RHR-A	1	C5.51	E-E	24"	.562"	P1		2624-2	7	16	6	6		
RAW-CF-82	RHR-A	1	C5.51	E-P	24"	.562"	P1		2624-2	7	16	6	6		
RAW-CF-83	RHR-A	1	C5.51	P-E	24"	.562"	P1		2624-2	7	16	6	6		
RAW-CF-84	RHR-A	1	C5.51	E-T	24"	.562"	F1		2624-2	7	16	6	6		
RAW-CF-93	RHR-A	1	C5.51	P-F	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-94	RHR-A	1	C5.51	F-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-95	RHR-A	1	C5.51	P-F	20"	.375"	P1		2625-2	7	16	6	6		
RAW-CF-96	RHR-A	1	C5.51	F-P	20"	.375"	P1		2625-2	7	16	6	6		
RHB-BJ-30	RHR-A	1	C5.51	VA-VA	24"		F-25		2510-4	7	16				
RHB-CF-10	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-11	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-12	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-13	RHR-A	1	C5.51	V-E	16"	.500"	F1		2624-1	7	16				
RHB-CF-14	RHR-A	1	C5.51	E-V	16"	.500"	F1		2624-1	7	16	6	6		
RHB-CF-15	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-16	RHR-A	1	C5.51	R-P	16"	.500"	P1		2624-1	7	16	6	6		

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT....	WB1.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER REMARKS.....
RHB-CF-17	RHR-A	1	C5.51	T-R	20"	.594"	F1		2624-1	7	16	6	6		
RHB-CF-19	RHR-A	1	C5.51	E-T	20"	.500"	F1		2624-1	7	16				
RHB-CF-21	RHR-A	1	C5.51	P-P	20"	.500"	P1		2624-1	7	16				
RHB-CF-23	RHR-A	1	C5.51	P-P	20"	.500"	P1		2624-1	7	16				
RHB-CF-25	RHR-A	1	C5.51	P-E	20"	.500"	P1		2624-1	7	16	6	6		INACCESSIBLE, LOCATED IN FLOOR PENETRATION SURROUNDED BY SUPPORT...
RHB-CF-27	RHR-A	1	C5.51	P-P	20"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-28	RHR-A	1	C5.51	T-P	20"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-29	RHR-A	1	C5.51	T-V	20"	.500"	F1		2624-1	7	16	6	6		* RHR-MO-66A
RHB-CF-30	RHR-A	1	C5.51	V-P	20"	.500"	P1		2624-1	7	16	6	6		RHR-MO-66A
RHB-CF-31	RHR-A	1	C5.51	P-E	20"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-32	RHR-A	1	C5.51	E-P	20"	.500"	P1		2624-1	7	16				
RHB-CF-33	RHR-A	1	C5.51	P-E	20"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-34	RHR-A	1	C5.51	E-P	20"	.500"	P1		2624-1	7	16	6	6		
RHB-CF-35	RHR-A	1	C5.51	T-P	20"	.500"	P1		2624-2	7	16	6	6		
RHB-CF-36	RHR-A	1	C5.51	T-P	24"	.500"	P1		2624-2	7	16	6	6		
RHB-CF-38	RHR-A	1	C5.51	P-P	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-39	RHR-A	1	C5.51	P-T	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-40	RHR-A	1	C5.51	T-T	24"	.562"	F1		2624-2	7	16	6	6		
RHB-CF-41	RHR-A	1	C5.51	T-P	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-43	RHR-A	1	C5.51	P-E	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-45	RHR-A	1	C5.51	E-P	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-46	RHR-A	1	C5.51	P-E	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-47	RHR-A	1	C5.51	E-P	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-50	RHR-A	1	C5.51	P-E	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-52	RHR-A	1	C5.51	E-E	24"	.562"	F1		2624-2	7	16	6	6		
RHB-CF-54	RHR-A	1	C5.51	E-P	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-55	RHR-A	1	C5.51	P-E	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-57	RHR-A	1	C5.51	E-P	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-58	RHR-A	1	C5.51	P-E	24"	.562"	P1		2624-2	7	16	6	6		
RHB-CF-61	RHR-A	1	C5.51	E-V	24"	1.219"	F1		2624-2	7	16	6	6		
RPA-CF-10	RHR-A	1	C5.51	P-E	20"	.375"	P1		2626-1	7	16	6	6		RHR-MO-27A FORMERLY RPC-CF-10 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF. NCR 91-088 *
RPA-CF-11	RHR-A	1	C5.51	E-V	20"	.375"	P1		2626-1	7	16	6	6		RHR-LV-17 * FORMERLY RPC-CF-11 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPA-CF-12	RHR-A	1	C5.51	V-P	20"	.375"	P1		2625-2	7	16	6	6		RHR-LV-17
RPA-CF-13	RHR-A	1	C5.51	P-V	20"	.375"	P1		2625-2	7	16	6	6		RHR-MO-13A
RPA-CF-14	RHR-A	1	C5.51	V-E	20"	.375"	F1		2625-2	7	16	6	6		RHR-MO-13A

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER REMARKS.....
RPA-CF-15	RHR-A	1	C5.51	E-T	20"	.375"	F1		2625-2	7	16	6	6		
RPA-CF-18	RHR-A	1	C5.51	P-PU	20"	.375"	F1		2625-2	7	16	6	6		RHR PUMP-1A SUCTION
RPA-CF-1B	RHR-A	1	C5.51	T-P	20"	.375"	P2		CB&I-69	7	16	6	6		
RPA-CF-1C	RHR-A	1	C5.51	F-T	20"	.375"	F-23		CB&I-69	7	16	6	6		
RPA-CF-1D	RHR-A	1	C5.51	F-T	20"	.375"	F-23		CB&I-69	7	16				
RPA-CF-21	RHR-A	1	C5.51	E-V	16"	.500"	F1		2624-1	7	16	6	6		RHR-CV-14
RPA-CF-22	RHR-A	1	C5.51	V-P	16"	.500"	P1		2624-1	7	16	6	6		RHR-CV-14
RPA-CF-24	RHR-A	1	C5.51	V-E	16"	.500"	F1		2624-1	7	16	6	6		RHR-LV-11
RPA-CF-25	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16				
RPA-CF-27	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RPA-CF-28	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RPA-CF-29	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RPA-CF-30	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RPA-CF-31	RHR-A	1	C5.51	E-R	16"	.500"	F1		2624-1	7	16	6	6		
RPA-CF-32	RHR-A	1	C5.51	R-T	20"	.500"	F1		2624-1	7	16	6	6		
RPC-CF-11	RHR-A	1	C5.51	P-V	20"	.375"	F1		2626-1	7	16	6	6		RHR-LV-19 * FORMERLY RPA-CF-11, DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO * REF. NCR 91-088
RPC-CF-12	RHR-A	1	C5.51	V-E	20"	.375"	F1		2625-1	7	16	6	6		RHR-LV-19
RPC-CF-13	RHR-A	1	C5.51	E-V	20"	.375"	F1		2625-1	7	16	6	6		RHR-MO-13C
RPC-CF-14	RHR-A	1	C5.51	V-P	20"	.375"	P1		2625-1	7	16	6	6		RHR-MO-13C
RPC-CF-15	RHR-A	1	C5.51	P-T	20"	.375"	P1		2625-1	7	16	6	6		
RPC-CF-17	RHR-A	1	C5.51	T-P	20"	.375"	P1		2625-1	7	16	6	6		
RPC-CF-18	RHR-A	1	C5.51	P-PU	20"	.375"	P1		2625-1	7	16	6	6		RHR PUMP-1C
RPC-CF-19	RHR-A	1	C5.51	PU-E	16"	.500"	F1		2624-1	7	16	6	6		RHR PUMP-1C
RPC-CF-1B	RHR-A	1	C5.51	T-P	20"	.375"	P2		CB&I-69	7	16	6	6		
RPC-CF-1C	RHR-A	1	C5.51	F-T	20"	.375"	F-23		CB&I-69	7	16	6	6		
RPC-CF-1D	RHR-A	1	C5.51	F-T	20"	.375"	F-23		CB&I-69	7	16	6	6		
RPC-CF-21	RHR-A	1	C5.51	E-V	16"	.500"	F1		2624-1	7	16	6	6		RHR-CV-16
RPC-CF-22	RHR-A	1	C5.51	V-P	16"	.500"	P1	N/A	2624-1	7	16	6	6		RHR-CV-16
RPC-CF-24	RHR-A	1	C5.51	V-E	16"	.500"	F1		2624-1	7	16	6	6		RHR-LV-13
RPC-CF-25	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RPC-CF-26	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RPC-CF-27	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RPC-CF-28	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16	6	6		
RPC-CF-29	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6		
RPC-CF-30	RHR-A	1	C5.51	P-T	16"	.500"	P1		2624-1	7	16	6	6		
RAW-CF-28A	RHR-A	1	C5.51	F-P	20"	.375"	P1		2625-1	7	16	6	6		
RAW-CF-43A	RHR-A	1	C5.51	P-E	18"	.438"	P1		2624-2	7	16	6	6		
RAW-CF-751	RHR-A	1	C5.51	P-P	16"	.500"	P1		2624-3A	7	16	6	6		
RPA-CF-17A	RHR-A	1	C5.51	T-P	20"	.375"	P1		2625-2	7	16	6	6		
RPA-CF-23A	RHR-A	1	C5.51	P-V	16"	.500"	P1		2624-1	7	16	6	6		RHR-LV-11



IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RPA-CF-27A	RHR-A	1	C5.51	P-F	16"	.500"	P1		2624-1	7	16	6	6			
RPA-CF-28A	RHR-A	1	C5.51	F-P	16"	.500"	P1		2624-1	7	16	6	6			
RPC-CF-23A	RHR-A	1	C5.51	P-V	16"	.500"	P1		2624-1	7	16	6	6			RHR-LV-13
RPC-CF-25A	RHR-A	1	C5.51	P-F	16"	.500"	P1		2624-1	7	16	6	6			
RPC-CF-26A	RHR-A	1	C5.51	F-P	16"	.500"	P1		2624-1	7	16	6	6			
RHB-CF-1	RHR-A	1	C5.51	P-T	16"	.500"	P1		2624-1	7	16				1	
RPC-CF-1	RHR-A	1	C5.51	N-P	20"	.375"	P1		2626-1	7	16				1	FORMERLY EXAMINED AS RPA-CF-1 IN INT 2, PER 1 * DCN NO. C93-0385 2/93 * TO CHANGE WELD ID.NO REF MCR 91-088 *
RAW-CF-76	RHR-A	1	C5.51	P-E	24"	.562"	P1	104	2624-3A	7	16		6		1	
RHB-CF-24	RHR-A	1	C5.51	E-P	20"	.500"	P1		2624-1	7	16				1	
RPA-CF-26	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16				1	
RHB-CF-2	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16				2	
RAS-CF-10	RHR-A	1	C5.51	R-R	8"	.500"	F1		2614-2	7	16				2	
SW-CF-2	RHR-A	1	C5.51	E-P	14"	.375"	P1		2624-3A	7	16	6	6		3	
SW-CF-5	RHR-A	1	C5.51	V-P	14"	.375"	P1		2624-3A	7	16				3	
RAW-CF-1	RHR-A	1	C5.51	P-T	20"	.500"	P1	N/A	2625-2	7	16	6	6		3	
RAW-CF-5	RHR-A	1	C5.51	P-E	20"	.375"	P1	N/A	2625-2	7	16	6	6		3	
RAW-CF-66	RHR-A	1	C5.51	N-E	20"	.594"	P1		2624-3A	7	16	6	6		3	
RHB-CF-20	RHR-A	1	C5.51	P-E	20"	.500"	P1		2624-1	7	16				3	
RHB-CF-60	RHR-A	1	C5.51	E-E	24"	.562"	F1		2624-2	7	16	6	6		3	
RPA-CF-18A	RHR-A	1	C5.51	PU-E	16"	.500"	P1	10	2624-1	7	16	6	6		3	( ON ISO AS RPA-CF-18 ) RHR PMP 1-A DISCHARGE
RBS-CF-2	RHR-B	1	C5.51	R-T	20"	.594"	F1	102	2614-2	7	16	6	6			
RBS-CF-3	RHR-B	1	C5.51	E-R	18"	.562"	F1	101	2614-2	7	16	6	6			
RBS-CF-5	RHR-B	1	C5.51	E-P	18"	.562"	P1	101	2614-2	7	16	6	6			
RBS-CF-8	RHR-B	1	C5.51	P-E	18"	.562"	P1		2614-2	7	16	6	6			
RBS-CF-9	RHR-B	1	C5.51	R-P	18"	.562"	P1		2614-2	7	16	6	6			
RBW-CF-1	RHR-B	1	C5.51	P-T	20"	.375"	P1		2625-4	7	16	6	6			
RBW-CF-2	RHR-B	1	C5.51	F-P	20"	.375"	P1		2625-4	7	16	6	6			
RBW-CF-3	RHR-B	1	C5.51	P-F	20"	.375"	P1		2625-4	7	16	6	6			
RBW-CF-4	RHR-B	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6			
RBW-CF-6	RHR-B	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16					
RBW-CF-7	RHR-B	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6			
RBW-CF-8	RHR-B	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6			
RBW-CF-9	RHR-B	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6			
RCT-CF-4	RHR-B	1	C5.51	P-V	20"	.500"	P1		2624-3A	7	16	6	6			
RCT-CF-5	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3A	7	16	6	6			
RCT-CF-7	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3A	7	16	6	6			
RCT-CF-8	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A	7	16	6	6			
RCT-CF-9	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3A	7	16					
RHC-CF-1	RHR-B	1	C5.51	P-T	16"	.500"	P1		2624-3B	7	16	6	6			

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	WB1.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER REMARKS.....
RHC-CF-3	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-4	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-5	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-6	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-7	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-8	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-9	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3B	7	16	6	6		
RHD-CF-1	RHR-B	1	C5.51	T-R	12"	.375"	F1		2624-6	7	16	6	6		
RPB-CF-1	RHR-B	1	C5.51	N-P	20"	.375"	P1		2626-2	7	16	6	6		
RPB-CF-2	RHR-B	1	C5.51	P-E	20"	.375"	P1		2626-2	7	16	6	6		
RPB-CF-3	RHR-B	1	C5.51	E-P	20"	.375"	P1		2626-2	7	16	6	6		
RPB-CF-4	RHR-B	1	C5.51	P-E	20"	.375"	P1		2626-2	7	16	6	6		
RPB-CF-5	RHR-B	1	C5.51	E-P	20"	.375"	P1		2626-2	7	16	6	6		
RPB-CF-6	RHR-B	1	C5.51	P-P	20"	.375"	P1		2626-2	7	16	6	6		
RPB-CF-8	RHR-B	1	C5.51	P-E	20"	.375"	P1		2626-2	7	16	6	6		
RPB-CF-9	RHR-B	1	C5.51	E-P	20"	.375"	P1		2626-2	7	16	6	6		
RPD-CF-1	RHR-B	1	C5.51	N-P	20"	.375"	P1		2626-2	7	16	6	6		
RPD-CF-2	RHR-B	1	C5.51	P-E	20"	.375"	P1		2626-2	7	16	6	6		
RPD-CF-3	RHR-B	1	C5.51	E-P	20"	.375"	P1		2626-2	7	16	6	6		
RPD-CF-5	RHR-B	1	C5.51	P-E	20"	.375"	P1		2626-2	7	16	6	6		
RPD-CF-6	RHR-B	1	C5.51	E-P	20"	.375"	P1		2626-2	7	16	6	6		
RPD-CF-7	RHR-B	1	C5.51	P-P	20"	.375"	P1		2626-2	7	16	6	6		
RPD-CF-9	RHR-B	1	C5.51	P-E	20"	.375"	P1		2626-2	7	16	6	6		
RBS-CF-10	RHR-B	1	C5.51	R-R	8"	.500"	F1		2614-2	7	16				
RBW-CF-10	RHR-B	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-11	RHR-B	1	C5.51	P-E	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-12	RHR-B	1	C5.51	E-P	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-28	RHR-B	1	C5.51	P-T	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-29	RHR-B	1	C5.51	F-P	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-30	RHR-B	1	C5.51	P-F	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-31	RHR-B	1	C5.51	E-P	20"	.438"	P1		2625-2	7	16	6	6		
RBW-CF-32	RHR-B	1	C5.51	P-E	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-33	RHR-B	1	C5.51	E-P	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-34	RHR-B	1	C5.51	P-E	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-35	RHR-B	1	C5.51	T-P	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-36	RHR-B	1	C5.51	T-R	20"	.375"	F1		2625-2	7	16	6	6		
RBW-CF-37	RHR-B	1	C5.51	R-V	16"	.375"	F1		2625-2	7	16	6	6		
RBW-CF-38	RHR-B	1	C5.51	P-T	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-39	RHR-B	1	C5.51	V-P	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-40	RHR-B	1	C5.51	E-V	20"	.375"	F1		2625-2	7	16	6	6		
RBW-CF-46	RHR-B	1	C5.51	R-E	18"	.438"	F1		2624-5	7	16	6	6		
RBW-CF-47	RHR-B	1	C5.51	E-E	18"	.438"	F1		2624-5	7	16	6	6		
RBW-CF-49	RHR-B	1	C5.51	P-E	18"	.438"	P1		2624-5	7	16	6	6		
RBW-CF-50	RHR-B	1	C5.51	E-V	18"	.438"	F1		2624-5	7	16	6	6		

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER REMARKS.....
RBW-CF-51	RHR-B	1	C5.51	V-P	18"	.438"	P1		2624-5	7	16	6	6		
RBW-CF-61	RHR-B	1	C5.51	P-V	18"	.438"	P1		2624-5	7	16	6	6		
RBW-CF-72	RHR-B	1	C5.51	N-E	20"	.594"	P1		2624-3B	7	16	6	6		
RBW-CF-73	RHR-B	1	C5.51	E-R	20"	.594"	F1		2624-3B	7	16	6	6		
RBW-CF-74	RHR-B	1	C5.51	R-P	16"	.500"	P1		2624-3B	7	16	6	6		
RBW-CF-75	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3B	7	16	6	6		
RBW-CF-76	RHR-B	1	C5.51	E-V	16"	.500"	F1		2624-3B	7	16	6	6		
RBW-CF-77	RHR-B	1	C5.51	V-P	16"	.500"	P1		2624-3B	7	16	6	6		
RBW-CF-78	RHR-B	1	C5.51	P-T	16"	.500"	P1		2624-3B	7	16	6	6		
RBW-CF-80	RHR-B	1	C5.51	P-P	24"	.562"	P1		2624-3B	7	16	6	6		
RBW-CF-81	RHR-B	1	C5.51	P-E	24"	.562"	P1		2624-3B	7	16	6	6		
RBW-CF-82	RHR-B	1	C5.51	E-P	24"	.562"	P1		2624-3B	7	16	6	6		
RBW-CF-83	RHR-B	1	C5.51	P-E	24"	.562"	P1		2624-3B	7	16	6	6		
RBW-CF-84	RHR-B	1	C5.51	E-E	24"	.562"	F1		2624-3B	7	16	6	6		
RBW-CF-85	RHR-B	1	C5.51	E-P	24"	.562"	P1		2624-3B	7	16	6	6		
RBW-CF-86	RHR-B	1	C5.51	P-E	24"	.562"	P1		2624-3B	7	16	6	6		
RBW-CF-87	RHR-B	1	C5.51	E-T	24"	.562"	F1		2624-3B	7	16	6	6		
RBW-CF-92	RHR-B	1	C5.51	P-F	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-93	RHR-B	1	C5.51	F-P	20"	.375"	P1		2625-2	7	16	6	6		
RBW-CF-94	RHR-B	1	C5.51	P-F	20"	.375"	P1		2625-4	7	16	6	6		
RBW-CF-95	RHR-B	1	C5.51	F-P	20"	.375"	P1		2625-4	7	16	6	6		
RCT-CF-10	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A	7	16	6	6		
RCT-CF-11	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3A	7	16	6	6		
RCT-CF-12	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A	7	16	6	6		
RCT-CF-13	RHR-B	1	C5.51	P-P	20"	.500"	P1		2624-3A	7	16	6	6		
RCT-CF-14	RHR-B	1	C5.51	P-P	20"	.500"	P1		2624-3A	7	16	6	6		
RCT-CF-16	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A	7	16	6	6		
RCT-CF-18	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3B	7	16	6	6		
RCT-CF-19	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3B	7	16	6	6		
RCT-CF-20	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3B	7	16	6	6		
RCT-CF-21	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3B	7	16	6	6		
RCT-CF-22	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3B	7	16	6	6		
RCT-CF-23	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3B	7	16	6	6		
RCT-CF-24	RHR-B	1	C5.51	P-P	20"	.500"	P1		2624-3B	7	16	6	6		
RCT-CF-26	RHR-B	1	C5.51	R-T	24"	.500"	F1		2624-3B	7	16	6	6		
RHC-BJ-26	RHR-B	1	C5.51	VA-VA	24"		F-25		2510-3	7	16				
RHC-CF-10	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-11	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-12	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-14	RHR-B	1	C5.51	E-V	16"	.500"	F1		2624-3B	7	16	6	6		
RHC-CF-15	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-16	RHR-B	1	C5.51	R-P	16"	.500"	P1		2624-3B	7	16	6	6		
RHC-CF-18	RHR-B	1	C5.51	E-T	20"	.500"	F1		2624-3B	7	16	6	6		
RHC-CF-19	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3B	7	16	6	6		

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W61.CAL...	ISO.....	PT..	MT..	UTO..	UT45....	UT60....	PER	REMARKS.....
RHC-CF-20	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3B	7	16	6	6			
RHC-CF-21	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3C	7	16	6	6			
RHC-CF-22	RHR-B	1	C5.51	P-P	20"	.500"	P1		2624-3C	7	16	6	6			
RHC-CF-23	RHR-B	1	C5.51	P-P	20"	.500"	P1		2624-3C	7	16	6	6			
RHC-CF-25	RHR-B	1	C5.51	P-P	20"	.500"	P1		2624-3C	7	16	6	6			
RHC-CF-26	RHR-B	1	C5.51	T-P	20"	.500"	P1		2624-3C	7	16	6	6			
RHC-CF-27	RHR-B	1	C5.51	T-V	20"	.500"	F1		2624-3B	7	16	6	6			RHR-MO-66B
RHC-CF-29	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3B	7	16	6	6			
RHC-CF-30	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3B	7	16	6	6			
RHC-CF-31	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3B	7	16	6	6			
RHC-CF-33	RHR-B	1	C5.51	E-P	20"	.500"	P1		2624-3B	7	16	6	6			
RHC-CF-34	RHR-B	1	C5.51	P-T	20"	.500"	P1		2624-3B	7	16	6	6			
RHC-CF-35	RHR-B	1	C5.51	T-P	24"	.562"	P1		2624-3B	7	16	6	6			
RHC-CF-37	RHR-B	1	C5.51	P-P	24"	.562"	P1		2624-3B	7	16	6	6			
RHC-CF-38	RHR-B	1	C5.51	P-T	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-39	RHR-B	1	C5.51	T-T	24"	.562"	F1		2624-5	7	16	6	6			
RHC-CF-40	RHR-B	1	C5.51	T-P	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-42	RHR-B	1	C5.51	P-E	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-43	RHR-B	1	C5.51	E-E	24"	.562"	F1		2624-5	7	16	6	6			
RHC-CF-44	RHR-B	1	C5.51	E-P	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-46	RHR-B	1	C5.51	P-E	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-47	RHR-B	1	C5.51	E-P	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-50	RHR-B	1	C5.51	E-E	24"	.562"	F1		2624-5	7	16	6	6			
RHC-CF-53	RHR-B	1	C5.51	E-P	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-54	RHR-B	1	C5.51	P-E	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-55	RHR-B	1	C5.51	E-P	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-56	RHR-B	1	C5.51	P-P	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-57	RHR-B	1	C5.51	P-P	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-59	RHR-B	1	C5.51	P-P	24"	.562"	P1		2624-5	7	16	6	6			
RHC-CF-60	RHR-B	1	C5.51	P-V	24"	.562"	P1		2624-5	7	16	6	6			RHR-MV-27B
RHD-CF-1A	RHR-B	1	C5.51	T-P	12"	.375"	P1		2624-5	7	16					
RHD-CF-1B	RHR-B	1	C5.51	P-E	12"	.375"	P1		2624-5	7	16					
RHD-CF-1C	RHR-B	1	C5.51	E-T	12"	.375"	F1		2624-5	7	16	6	6			
RPB-CF-11	RHR-B	1	C5.51	P-V	20"	.375"	P1		2626-2	7	16	6	6			RHR-LV-18
RPB-CF-12	RHR-B	1	C5.51	V-E	20"	.375"	F1		2625-4	7	16	6	6			RHR-LV-18
RPB-CF-13	RHR-B	1	C5.51	E-V	20"	.375"	F1		2625-4	7	16	6	6			
RPB-CF-14	RHR-B	1	C5.51	V-P	20"	.375"	P1		2625-4	7	16	6	6			
RPB-CF-16	RHR-B	1	C5.51	P-T	20"	.375"	P1		2625-4	7	16	6	6			
RPB-CF-17	RHR-B	1	C5.51	T-P	20"	.375"	P1		2625-4	7	16	6	6			
RPB-CF-18	RHR-B	1	C5.51	P-PU	20"	.375"	P1		2625-4	7	16	6	6			RHR PUMP-1B
RPB-CF-19	RHR-B	1	C5.51	PU-E	16"	.500"	F1		2624-3C	7	16	6	6			RHR PUMP-1B
RPB-CF-1B	RHR-B	1	C5.51	T-P	20"	.375"	P2		CB&I-69	7	16	6	6			
RPB-CF-1C	RHR-B	1	C5.51	F-T	20"	.375"	F-23		CB&I-69	7	16	6	6			
RPB-CF-1D	RHR-B	1	C5.51	F-T	20"	.375"	F-23		CB&I-69	7	16	6	6			

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RPB-CF-23	RHR-B	1	C5.51	V-P	16"	.500"	P1		2624-3C		7	16	6	6		RHR-CV-15
RPB-CF-25	RHR-B	1	C5.51	P-V	16"	.500"	P1		2624-3C		7	16	6	6		RHR-LV-12
RPB-CF-26	RHR-B	1	C5.51	V-E	16"	.500"	F1		2624-3C		7	16	6	6		RHR-LV-12
RPB-CF-27	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3C		7	16	6	6		
RPB-CF-29	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3C		7	16	6	6		
RPB-CF-30	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3C		7	16	6	6		
RPB-CF-31	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3C		7	16	6	6		
RPB-CF-33	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3C		7	16	6	6		
RPB-CF-34	RHR-B	1	C5.51	P-T	16"	.500"	P1		2624-3C		7	16	6	6		
RPD-CF-10	RHR-B	1	C5.51	E-V	20"	.375"	F1		2626-2		7	16	6	6		RHR-LV-20
RPD-CF-11	RHR-B	1	C5.51	V-P	20"	.375"	P1		2625-2		7	16	6	6		RHR-LV-20
RPD-CF-12	RHR-B	1	C5.51	P-V	20"	.375"	P1		2625-2		7	16	6	6		RHR-MO-130
RPD-CF-13	RHR-B	1	C5.51	V-E	20"	.375"	F1		2625-2		7	16	6	6		RHR-MO-130
RPD-CF-15	RHR-B	1	C5.51	E-T	20"	.375"	F1		2625-2		7	16	6	6		
RPD-CF-17	RHR-B	1	C5.51	P-PU	20"	.375"	F1		2625-2		7	16	6	6		RHR PUMP 1D
RPD-CF-18	RHR-B	1	C5.51	PU-E	16"	.500"	F1		2624-3C		7	16	6	6		
RPD-CF-18	RHR-B	1	C5.51	T-P	20"	.375"	P2		CB&I-69		7	16	6	6		
RPD-CF-1C	RHR-B	1	C5.51	F-T	20"	.375"	F-23		CB&I-69		7	16	6	6		
RPD-CF-1D	RHR-B	1	C5.51	F-T	20"	.375"	F-23		CB&I-69		7	16	6	6		
RPD-CF-22	RHR-B	1	C5.51	V-P	16"	.500"	P1		2624-3C		7	16	6	6		RHR-CV-17
RPD-CF-24	RHR-B	1	C5.51	P-V	16"	.500"	P1		2624-3C		7	16	6	6		RHR-LV-14
RPD-CF-25	RHR-B	1	C5.51	V-E	16"	.500"	F1		2624-3C		7	16	6	6		RHR-LV-14
RPD-CF-26	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3C		7	16	6	6		
RPD-CF-27	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3C		7	16	61	6		
RPD-CF-28	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3C		7	16	6	6		
RPD-CF-29	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3C		7	16	6	6		
RPD-CF-30	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3C		7	16	6	6		
RPD-CF-31	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3C		7	16	6	6		
RPD-CF-32	RHR-B	1	C5.51	E-R	16"	.500"	F1		2624-3C		7	16	6	6		
RPD-CF-33	RHR-B	1	C5.51	R-T	20"	.500"	F1		2624-3C		7	16	6	6		
RCT-CF-17*	RHR-B	1	C5.51	P-P	20"	.500"	P1		2624-3B		7	16	6	6		
RPB-CF-27I	RHR-B	1	C5.51	P-F	16"	.500"	P1		2624-3C		7	16	6	6		
RPB-CF-29A	RHR-B	1	C5.51	F-P	16"	.500"	P1		2624-3C		7	16	6	6		
RPD-CF-28A	RHR-B	1	C5.51	T-P	20"	.375"	P1		2625-2		7	16	6	6		
RPD-CF-28A	RHR-B	1	C5.51	P-F	16"	.500"	P1		2624-3C		7	16	6	6		
RPD-CF-29A	RHR-B	1	C5.51	F-P	16"	.500"	P1		2624-3C		7	16	6	6		
RBS-CF-1	RHR-B	1	C5.51	T-N	20"	.594"	F1	102	2614-2		7	16	6	6		1
RBW-CF-5	RHR-B	1	C5.51	P-E	20"	.375"	P1		2625-4		7	16				1
RCT-CF-6	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A		7	16	6	6		1
RBW-CF-4B	RHR-B	1	C5.51	E-P	18"	.438"	P1		2624-5		7	16	6	6		1
RCT-CF-15	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A		7	16				1
RBS-CF-4	RHR-B	1	C5.51	P-E	18"	.562"	P1	101	2614-2		7	16	6	6		2
RHC-CF-2	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B		7	16				2
RBW-CF-79	RHR-B	1	C5.51	T-P	24"	.562"	P1	104	2624-3B		7	16	6	6		2

IWC-2500-1 CAT: C-F  
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
RBW-CF-13	RHR-B	1	C5.51	V-E	20"	.375	P1		2625-4	7	16	6	6		3	
RBW-CF-45	RHR-B	1	C5.51	T-R	24"	.562"	F1	104	2624-5	7	16	6	6		3	
RCT-CF-25	RHR-B	1	C5.51	P-R	20"	.500"	P1		2624-3B	7	16	6	6		3	
RHC-CF-13	RHR-B	1	C5.51	V-E	16"	.500"	F1		2624-3B	7	16	6	6		3	
RHC-CF-17	RHR-B	1	C5.51	T-R	20"	.500"	F1		2624-3B	7	16	6	6		3	
RHC-CF-26	RHR-B	1	C5.51	V-P	20"	.500"	P1		2624-3B	7	16	6	6		3	RHR-MO-668
RHC-CF-48	RHR-B	1	C5.51	P-E	24"	.562"	P1		2624-5	7	16	6	6		3	
RPB-CF-22	RHR-B	1	C5.51	E-V	16"	.500"	F1		2624-3C	7	16	6	6		3	RHR-CV-15
RPD-CF-21	RHR-B	1	C5.51	E-V	16"	.500"	F1		2624-3C	7	16	6	6		3	RHR-CV-17
		434	***													
RAW-CF-91	RHR-A	1	C5.81	P-WOL	18"-6"	.438"	P1		2624-2	7	16	6	6			
RBW-CF-91	RHR-B	1	C5.81	P-WOL	18"-6"	.438"	P1		2624-5	7	16	6	6		3	
		2	***													
***		487														



IWC-2500-1 CAT: C-F  
 SCRAM DISCHARGE VOLUME SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	MT..	UT0..	UT45....	UT60....	PER	REMARKS.....
SDN-CF-1	SDV	1	C5.51	CAP-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-2	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16					
SDN-CF-3	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-4	SDV	1	C5.51	P-T	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-5	SDV	1	C5.51	T-CAP	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-6	SDV	1	C5.51	T-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-7	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-8	SDV	1	C5.51	P-T	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-1	SDV	1	C5.51	CAP-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16					
SDS-CF-2	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-3	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-4	SDV	1	C5.51	P-E	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-5	SDV	1	C5.51	E-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-7	SDV	1	C5.51	CAP-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-8	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-9	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-10	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-11	SDV	1	C5.51	P-P	8"	.500"	P1	N/A	S&W13095.19-EP-1A-2	7	16					
SDN-CF-12	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-13	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-15	SDV	1	C5.51	T-E	8"	.500"	P1		S&W13095.19-EP-1B-2	7	16	6	6			
SDN-CF-16	SDV	1	C5.51	E-P	8"	.500"	P1		S&W13095.19-EP-1B-2	7	16					
SDN-CF-17	SDV	1	C5.51	P-CAP	8"	.500"	P1		S&W13095.19-EP-1B-2	7	16	6	6			
SDS-CF-10	SDV	1	C5.51	P-T	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-11	SDV	1	C5.51	T-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-12	SDV	1	C5.51	P-E	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16					
SDS-CF-13	SDV	1	C5.51	E-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16					
SDS-CF-14	SDV	1	C5.51	P-E	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16					
SDS-CF-15	SDV	1	C5.51	E-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16					
SDS-CF-16	SDV	1	C5.51	P-E	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-17	SDV	1	C5.51	E-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-18	SDV	1	C5.51	P-E	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-19	SDV	1	C5.51	E-P	8"	.500"	P1		S&W13095.19-EP-1B-2	7	16	6	6			
SDS-CF-20	SDV	1	C5.51	P-CAP	8"	.500"	P1		S&W13095.19-EP-1B-2	7	16	6	6			
SDS-CF-11A	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-15A	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDS-CF-17A	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
SDN-CF-14	SDV	1	C5.51	P-T	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16					
SDN-CF-9	SDV	1	C5.51	CAP-P	8"	.500"	P1	N/A	S&W13095.19-EP-1A-2	7	16					1
SDS-CF-6	SDV	1	C5.51	P-T	8"	.500"	P1	N/A	S&W13095.19-EP-1A-2	7	16	6	6			2
																3

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IWC-2500-1 CAT: C-F  
SCRAM DISCHARGE VOLUME SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE..... SYSTEM.. CNT. ITEM.NO. CFG... SIZE.. TKNS..... MAT... W81.CAL... ISO..... PT.. MT.. UT0.. UT45.... UT60.... PER REMARKS.....

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COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	PT..	MT..	PER	REMARKS.....
PNC-CG-5A	PNC	1	C6.20	VLV.BD	24			RCC-755-1	7	16		VALVE PC-MOV-230MV...
PNC-CG-5B	PNC	1	C6.20	VLV.BD	24			RCC-755-1	7	16		VALVE PC-MOV-230MV...
PNC-CG-6A	PNC	1	C6.20	VLV.BD	24			RCC-755-1	7	16		VALVE PC-AOV-245AV...
PNC-CG-6B	PNC	1	C6.20	VLV.BD	24			RCC-755-1	7	16		VALVE PC-AOV-245AV...
PNC-CG-9A	PNC	1	C6.20	VLV.BD	24			RCC-755-1	7	16		VALVE PC-MOV-232MV...
PNC-CG-9B	PNC	1	C6.20	VLV.BD	24			RCC-755-1	7	16		VALVE PC-MOV-232MV...
PNC-CG-10A	PNC	1	C6.20	VLV.BD	24			RCC-755-1	7	16		VALVE PC-AOV-238AV...
PNC-CG-10B	PNC	1	C6.20	VLV.BD	24			RCC-755-1	7	16		VALVE PC-AOV-238AV...
PNC-CG-20A	PNC	1	C6.20	VLV.BD	20			RCC-755-2	7	16		VALVE PC-AOV-243AV...
PNC-CG-20B	PNC	1	C6.20	VLV.BD	20			RCC-755-2	7	16		VALVE PC-AOV-243AV...
PNC-CG-23A	PNC	1	C6.20	VLV.BD	20			RCC-755-2	7	16		VALVE PC-AOV-244AV...
PNC-CG-23B	PNC	1	C6.20	VLV.BD	20			RCC-755-2	7	16		VALVE PC-AOV-244AV...
PNC-CG-27A	PNC	1	C6.20	VLV.BD	24			RCC-755-2	7	16		VALVE PC-MOV-233MV...
PNC-CG-27B	PNC	1	C6.20	VLV.BD	24			RCC-755-2	7	16		VALVE PC-MOV-233MV...
PNC-CG-28A	PNC	1	C6.20	VLV.BD	24			RCC-755-2	7	16		VALVE PC-AOV-237AV...
PNC-CG-28B	PNC	1	C6.20	VLV.BD	24			RCC-755-2	7	16		VALVE PC-AOV-237AV...
PNC-CG-35A	PNC	1	C6.20	VLV.BD	24			RCC-755-3	7	16		VALVE PC-MOV-231MV...
PNC-CG-35B	PNC	1	C6.20	VLV.BD	24			RCC-755-3	7	16		VALVE PC-MOV-231MV...
PNC-CG-36A	PNC	1	C6.20	VLV.BD	24			RCC-755-3	7	16		VALVE PC-AOV-246AV...
PNC-CG-36B	PNC	1	C6.20	VLV.BD	24			RCC-755-3	7	16		VALVE PC-AOV-246AV...

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CODE CASE N-509  
 IWD-2500-1 CAT: D-A  
 HPCI SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
ECST-TK-A1	HPCI	1	D1.10	SP-TK				2821-12	8		ATTACHMENT AT 30 DEGREES ON TANK A... REFERENCE GATX VENDOR CODE G0500 FOR DRAWING #1-2573...
ECST-TK-A2	HPCI	1	D1.10	SP-TK				2821-12	8		ATTACHMENT AT 90 DEGREES ON TANK A... REFERENCE GATX VENDOR CODE FOR DRAWING #1-2573...
ECST-TK-A3	HPCI	1	D1.10	SP-TK				2821-12	8		ATTACHMENT AT 150 DEGREES ON TANK A... REFERENCE GATX VENDOR CODE G0500 FOR DRAWING #1-2573...
ECST-TK-A4	HPCI	1	D1.10	SP-TK				2821-12	8		ATTACHMENT AT 210 DEGREES ON TANK A... REFERENCE GATX VENDOR CODE G0500 FOR DRAWING #1-2573...
ECST-TK-A5	HPCI	1	D1.10	SP-TK				2821-12	8		ATTACHMENT AT 270 DEGREES ON TANK A... REFERENCE GATX VENDOR CODE G0500 FOR DRAWING #1-2573...
ECST-TK-A6	HPCI	1	D1.10	SP-TK				2821-12	8		ATTACHMENT AT 330 DEGREES ON TANK A... REFERENCE GATX VENDOR CODE G0500 FOR DRAWING #1-2573...
ECST-TK-B1	HPCI	1	D1.10					G0500*1-2573	8		ATTACHMENT AT 30 DEGREES ON TANK B
ECST-TK-B2	HPCI	1	D1.10					G0500*1-2573	8		ATTACHMENT AT 90 DEGREES ON TANK B
ECST-TK-B3	HPCI	1	D1.10					G0500*1-2573	8		ATTACHMENT AT 150 DEGREES ON TANK B
ECST-TK-B4	HPCI	1	D1.10					G0500*1-2573	8		ATTACHMENT AT 210 DEGREES ON TANK B
ECST-TK-B5	HPCI	1	D1.10					G0500*1-2573	8		ATTACHMENT AT 270 DEGREES ON TANK B
ECST-TK-B6	HPCI	1	D1.10					G0500*1-2573	8		ATTACHMENT AT 330 DEGREES ON TANK B
		12	***								
HPIS-DB-2	HPCI	1	D1.20	SAD	18"			2710-1	8		HPH-21...
HPIS-DB-3	HPCI	1	D1.20	LUGS	16"			2710-2	8		HPS-15 B&R...
HPIS-DB-4	HPCI	1	D1.20	LUGS	16"			2710-2	8		HP-H17A...
HPIS-DB-5	HPCI	1	D1.20	SAD	16"			2710-2	8		HPH-16A...
HPIS-DB-6	HPCI	1	D1.20	STN	16"			2710-2	8		HPS-15...

CODE CASE N-509  
IWD-2500-1 CAT: D-A  
HPCI SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT....	ISO.....	VT.....	PER	REMARKS.....
HPIS-DB-1	HPCI	1	D1.20	SAD	18"			2612-2	8	2	HPH-55A...

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CODE CASE N-509  
 IWD-2500-1 CAT: D-A  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
VR-DA-14	MSVR-A	1	D1.20	HSL	10"		CS	2628-5	8		VRH-53...
VR-DA-15	MSVR-A	1	D1.20	IPS	10"		CS	2628-5	8		VRH-55...
VR-DA-16	MSVR-A	1	D1.20	HSL	10"		CS	2628-6	8		VRH-57...
VR-DA-17	MSVR-A	1	D1.20	HSL	10"		CS	2628-6	8		VRH-60...
VR-DA-11	MSVR-B	1	D1.20	HSL	10"		CS	2628-4	8		VRH-63...
VR-DA-12	MSVR-B	1	D1.20	HSL	10"		CS	2628-4	8		VRR 30...
VR-DA-13	MSVR-B	1	D1.20	SSL	10"		CS	2628-4	8		VR-59-7Z...
VR-DA-9	MSVR-C	1	D1.20	HSL	10"		CS	2628-3	8		VRR-50...
VR-DA-10	MSVR-C	1	D1.20	HSL	10"		CS	2628-3	8		VRH-61...
VR-DA-3	MSVR-D	1	D1.20	PLT	10"		CS	2628-1	8		VRS-74...
VR-DA-4	MSVR-D	1	D1.20	SSL	10"		CS	2628-2	8		VRS-5...
VR-DA-5	MSVR-D	1	D1.20	HSL	10"		CS	2628-2	8		VRH-45A...
VR-DA-6	MSVR-D	1	D1.20	IPS	10"		CS	2628-2	8		VRH-46...
VR-DA-7	MSVR-D	1	D1.20	IPS	10"		CS	2628-2	8		VRH-47...
VR-DA-8	MSVR-D	1	D1.20	IPS	10"		CS	2628-2	8		VRH-48...
VR-DA-1	MSVR-D	1	D1.20	SSL	10"		CS	2628-1	8	3	VRS-7...
VR-DA-2	MSVR-D	1	D1.20	HSL	10"		CS	2628-1	8	3	VRH-49A...

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CODE CASE N-509  
 IMD-2500-1 CAT: D-A  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
REC-TK-ST-A1	REC	1	D1.10	SP-TK				2848-7	8		SURGE TANK SUPPORT ATTACHMENT... REFERENCE EATON METAL PRODUCTS CORP. VENDOR CODE E0600 FOR DRAWING #80066-3...
REC-TK-ST-A2	REC	1	D1.10	SP-TK				2848-7	8		SURGE TANK SUPPORT ATTACHMENT... REFERENCE EATON METAL PRODUCTS CORP. VENDOR CODE E0600 FOR DRAWING #80066-3...
REC-TK-ST-A3	REC	1	D1.10	SP-TK				2848-7	8		SURGE TANK SUPPORT ATTACHMENT... REFERENCE EATON METAL PRODUCTS CORP. VENDOR CODE E0600 FOR DRAWING #80066-3...
REC-TK-ST-A4	REC	1	D1.10	SP-TK				2848-7	8		SURGE TANK SUPPORT ATTACHMENT... REFERENCE EATON METAL PRODUCTS CORP. VENDOR CODE E0600 FOR DRAWING #80066-3...
REC-HXB-A1	REC-A	1	D1.10	SP-HX				2852-8	8		REC HEAT-EXCHANGER "REC-HX-A" SUPPORT OPPOSITE END FROM NAMEPLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
REC-HXB-A2	REC-A	1	D1.10	SP-HX				2852-8	8		REC HEAT-EXCHANGER "REC-HX-A" SUPPORT ADJACENT TO NAME PLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
REC-HXA-A1	REC-B	1	D1.10	SP-HX				2852-9	8	2	REC HEAT-EXCAHNGER "REC-HX-B" TOP SUPPORT OPPOSITE END FROM NAME PLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
REC-HXA-A2	REC-B	1	D1.10	SP-HX				2852-9	8	3	REC HEAT EXCAHNGER "REC-HX-B" TOP SUPPORT ADJACENT TO NAME PLATE...

CODE CASE N-509  
 IWD-2500-1 CAT: D-A  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
REC-HXA-A3	REC-B	1	D1.10	SP-HX				2852-9	8	3	REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153 REC HEAT-EXCHANGER "REC-HX-B" BOTTOM SUPPORT OPPOSITE END FORM NAMEPLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
REC-HXA-A4	REC-B	1	D1.10	SP-HX				2852-9	8	3	REC HEAT-EXCHANGER "REC-HX-B" BOTTOM SUPPORT ADJACENT TO NAMEPLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
		10	***								
RCC-DB-19	REC	1	D1.20	STN				2848-2	8		REFERENCE CNS HSK N0670*RCC-H19...
RCC-DB-20	REC	1	D1.20	STN				2848-2	8		REFERENCE CNS HSK N0670*RCC-H20
RCC-DB-21	REC	1	D1.20	LUG				2848-2	8		REFERENCE CNS HSK N0670/RCC-H21...
RCC-DB-34	REC	1	D1.20	LUG				2848-2	8		REFERENCE CNS HSK N0670*RCC-H34...
RCC-DB-35	REC	1	D1.20	STN				2848-2	8		REFERENCE CNS HSK N0670*RCC-H35...
RCC-DB-50	REC	1	D1.20	STN				2848-14	8		REFERENCE CNS HSK N0670/RCC-S50...
RCC-DB-90	REC	1	D1.20	STN				2848-8	8		REFERENCE CNS HSK N0670/RCC-S90...
RCC-DB-135	REC	1	D1.20	STN				2848-14	8		REFERENCE CNS HSK N0670/RCC-H135...
RCC-DB-140	REC	1	D1.20	STN				2848-8	8		REFERENC CNS HSK N0670/RCC-H140...
RCC-DB-149	REC	1	D1.20	STN				2848-14	8		REFERENCE CNS HSK N0670/RCC-H149...
RCC-DB-181	REC	1	D1.20	STN				2848-7	8		REFERENCE CNS HSK N0670/RCC-H181...
RCC-DB-23A	REC	1	D1.20	STN				2848-2	8		REFERENCNE CNS HSK

CODE CASE N-509  
 IWD-2500-1 CAT: D-A  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
RCC-DB-24A	REC	1	D1.20	STN				2848-2	8		N0670/RCC-H23A... REFERENCE CNS HSK
RCC-DB-30A	REC	1	D1.20	STN				2848-2	8		N0670*RCC-H24A... REFERENCE CNS HSK
RCC-DB-32A	REC	1	D1.20	STN				2848-2	8		N0670*RCC-H30A... REFERENCE CNS HSK
RCC-DB-33A	REC	1	D1.20	STN				2848-2	8		N0670*RCC-H32A... REFERENCE CNS HSK
RCC-DB-34A	REC	1	D1.20	STN				2848-2	8		N0670*RCC-H33A... REFERENCE CNS HSK
RCC-DB-97	REC	1	D1.20	LUG				2848-51	8	1	N0670/RCC-H34A... REFERENCE CNS HSK
RCC-DB-51	REC-A	1	D1.20	STN				2848-14	8	1	N0670/RCC-S97... REFERENCE CNS HSK N0670/RCC-S51...
		19	***								
REC-PB-A1	REC	1	D1.30	SP-PU				2848-2	8		REC-PUMP "REC-P-B" SUPPORT... REFERENCE "FAIRBANKS MORSE PUMP DIV" VENDOR CODE F0100 FOR DRAWING S-K2P1-055835... VENDOR MANUAL #XXXX
REC-PC-A1	REC	1	D1.30	SP-PU				2848-2	8		REC-PUMP "REC-P-C" SUPPORT... REFERENCE "FAIRBANKS MORSE PUMP DIV" VENDOR CODE F0100 FOR DRAWING S-K2P1-055835... VENDOR MANUAL #XXXX
REC-PD-A1	REC	1	D1.30	SP-PU				2848-2	8		REC-PUMP "REC-P-D" SUPPORT... REFERENCE "FAIRBANKS MORSE PUMP DIV" VENDOR CODE F0100 FOR DRAWING S-K2P1-055835... VENDOR MANUAL #XXXX
REC-PA-A1	REC-A	1	D1.30	SP-PU				2848-2	8	2	REC-PUMP "REC-P-A" SUPPORT... REFERENCE "FAIRBANKS MORSE PUMP DIV" VENDOR CODE F0100 FOR DRAWING

CODE CASE N-509  
IWD-2500-1 CAT: D-A  
REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE..... SYSTEM.. CNT. ITEM.NO. CFIG... SIZE.. TKNS..... MAT... ISO..... VT..... PER REMARKS.....

S-K2P1-055835... VENDOR  
MANUAL #XXXX...

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CODE CASE N-509  
 IWD-2500-1 CAT: D-A  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
SW-STRB-A1	SW	1	D1.10	STRN				2852-3	8		SW STRAINER "SW-STR-B" SUPPORT... REFERENCE ZURN INDUSTRIES INC VENDER CODE Z0100 FOR DRAWING NO. I-691125-A... VENDOR MANUAL #0520...
SW-STRA-A1	SW-A	1	D1.10	STRN				2852-3	8	3	SW STRAINER "SW-STR-A" SUPPORT... REFERENCE ZURN INDUSTRIES INC VENDER CODE Z0100 FOR DRAWING NO. I-691125-A... VENDOR MANUAL #0520...
		2	***								
SW-DB-14	SW	1	D1.20	STN				2851-6	8		REFERENCE CNS HSK N0670*SW-S14...
SW-DB-15	SW	1	D1.20	LUG				2851-6	8		REFERENCE CNS HSK N0670/SW-S15...
SW-DB-17	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-17...
SW-DB-18	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-18...
SW-DB-19	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-19...
SW-DB-20	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-20...
SW-DB-21	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-21
SW-DB-22	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-22...
SW-DB-23	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-23...
SW-DB-24	SW	1	D1.20	LUG				2852-10	8		REFERENC F CNS HSK N0670/SW-S24...
SW-DB-26	SW	1	D1.20	LUG				2852-10	8		REFERENCE CNS HSK N0670/SW-S26...
SW-DB-28	SW	1	D1.20	SAD				2852-7	8		REFERENCE CNS HSK N0670/SW-S28
SW-DB-44	SW	1	D1.20	E-LUG				2851-6	8		REFERENCE CNS N0670/SW-H44...
SW-DB-49	SW	1	D1.20	STN				2852-9	8		REFERENCE CNS HSK N0670/SW-S49...
SW-DB-51	SW	1	D1.20	STN				2852-9	8		REFERENCE CNS HSK

CODE CASE N-509  
 IWD-2500-1 CAT: D-A  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
SW-DB-52	SW	1	D1.20	STN				2852-9	8		N0670/SW-S51 REFERENCE CNS HSK
SW-DB-59	SW	1	D1.20	E-LUG				2851-3	8		N0670/SW-S52... REFERENCE CNS HSK
SW-DB-65	SW	1	D1.20	SAD				2851-2	8		N0670/SW-H59... REFERENCE CNS HSK
SW-DB-68	SW	1	D1.20	STN				2852-19	3		N0670/SW-H65... REFERENCE CNS HSK
SW-DB-70	SW	1	D1.20	STN				2852-19	8		N0670/SW-S68... REFERENCE CNS HSK
SW-DB-72	SW	1	D1.20	STN				2852-19	8		N0670/SW-S70... REFERENCE CNS HSK
SW-DB-74	SW	1	D1.20	STN				2852-19	8		N0670/SW-S72... REFERENCE CNS HSK
SW-DB-94	SW	1	D1.20	STN				2852-8	8		N0670/SW-S74... REFERENCE CNS HSK
SW-DB-96	SW	1	D1.20	STN				2852-19	8		N0670/SW-S94... REFERENCE CNS HSK
SW-DB-97	SW	1	D1.20	STN				2852-8	8		N0670/SW-H96 REFEREMCE CNS HSK
SW-DB-98	SW	1	D1.20	STN				2852-19	8		N0670/SW-S97... REFERENCE CNS HSK
SW-DB-99	SW	1	D1.20	STN				2852-19	8		N0670/SW-H98... REFERENCE CNS HSK
SW-DB-104	SW	1	D1.20	STN				2851-2	8		N0670/SW-H99... REFERENCE CNS HSK
SW-DB-105	SW	1	D1.20	STN				2851-2	8		N0670/SW-S104... REFERENCE CNS HSK
SW-DB-124	SW	1	D1.20	STN				2851-1	8		SW-S105... REFERENCE CNS HSK
SW-DB-126	SW	1	D1.20	LUG				2852-54	8		N0670/SW-S124 REFERENCE CNS HSK
SW-DB-128	SW	1	D1.20	STN				2852-54	8		N0670/SW-S126 REFERENCE CNS HSK
SW-DB-137	SW	1	D1.20	LUG				2852-9	8		N0670/SW-S128... REFERENCE CNS HSK
SW-DB-138	SW	1	D1.20	LUG				2852-9	8		N0670/SW-H137... REFERENCE CNS HSK
SW-DB-141	SW	1	D1.20	STN				2852-9	8		N0670/SW-H138... REFERENCE CNS HSK
SW-DB-144	SW	1	D1.20	STN				2852-9	8		N0670/SW-H141 REFERENCE CNS HSK
SW-DB-147	SW	1	D1.20	LUG				2852-9	8		N0670/SW-H141... REFERENCE CNS HSK



CODE CASE N-509  
TMD-2500-1 CAT: D-A  
SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
SW-DB-14A	SW	1	D1.20	SAD				2852-3	8		N0670/SW-H147... REFERENCE CNS HSK
SW-DB-15A	SW	1	D1.20	SAD				2852-3	8		N0670/SW-14... REFERENCE CNS HSK
SW-DB-164	SW	1	D1.20	LUG				2852-8	8		N0670/SW-15... REFERENCE CNS HSK
SW-DB-184	SW	1	D1.20	LUG				2851-1	8		N0670/SW-H164 REFERENCE CNS HSK
SW-DB-187	SW	1	D1.20	LUG				2852-8	8		N0670/SW-H184 REFERENCE CNS HSK
SW-DB-189	SW	1	D1.20	STN				2852-8	8		N0670/SW-H187... REFERENC CNS HSK
SW-DB-190	SW	1	D1.20	E-LUG				2852-8	8		N0670/SW-H189... REFERENCE CNS HSK
SW-DB-194	SW	1	D1.20	LUG				2851-4	8		N0670/SW-190... REFERENCE CNS HSK
SW-DB-220	SW	1	D1.20	E-LUG				2400-4	8		N0670/SW-H194... REFERENCE CNS HSK
SW-DB-221	SW	1	D1.20	E-LUG				2400-4	8		N0670*SWH220... REFERENCE CNS HSK
SW-DB-223	SW	1	D1.20	E-LUG				2400-4	8		N0670/SW-H221... REFERENCE CNS HSK
SW-DB-230	SW	1	D1.20	LUG				2852-54	8		N0670/SW-H223 REFERENCE CNS HSK
SW-DB-23A	SW	1	D1.20	LUG				2852-10	8		N0670/SW-H230... REFERENCE CNS HSK
SW-DB-23E	SW	1	D1.20	SAD				2852-3	8		N0670/SW-S23... REFERENCE CNS HSK
SW-DB-23F	SW	1	D1.20	SAD				2852-3	8		N0670/SW-H23E... REFERENCE CNS HSK
SW-DB-23G	SW	1	D1.20	SAD				2852-3	8		N0670/SW-H23F... REFERENCE CNS HSK
SW-DB-23H	SW	1	D1.20	SAD				2852-3	8		N0670/SW-H23G... REFERENCE CNS HSK
SW-DB-258	SW	1	D1.20	STN				2852-55	8		N0670/SW-H23H... REFERENCE CNS HSK
SW-DB-446	SW	1	D1.20	LUG				2852-26	8		N0670/SW-H258... REFERENCE CNS HSK
SW-DB-447	SW	1	D1.20	LUG				2852-26	8		N0670/SW-H446... REFERENCE CNS HSK
SW-DB-44A	SW	1	D1.20	LUG				2852-18	8		N0670/SW-H447... REFERENCE CNS HSK
SW-DB-500	SW	1	D1.20	LUG				2852-23	8		N0670/SW-S44... REFERENCE CNS HSK

CODE CASE H-509  
 IWO-2500-1 CAT: D-A  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CMT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
SW-DB-501	SW	1	D1.20	LUG				2852-23	8		N0670/SW-S500B&R... REFERENCE CNS HSK
SW-DB-61A	SW	1	D1.20	LUG				2851-2	8		N0670/SW-S501B&R... REFERENCE CNS HSK
SW-DB-62A	SW	1	D1.20	SAD				2851-2	8		N0670/SW-H61A... REFERENCE CNS HSK
SW-DB-97A	SW	1	D1.20	STN				2852-19	8		N0670/SW-H62A... REFERENCE CNS HSK
SW-DB-144A	SW	1	D1.20	STN				2852-55	8		N0670/SW-H97... REFERENCE CNS HSK
SW-DB-145	SW-A	1	D1.20	STN				2852-9	8	2	N0670/SW-144... REFERENCE CNS HSK
SW-DB-45	SW-A	1	D1.20	E-LUG				2851-6	8	3	N0670/SW-H145... REFERENCE CNS HSK
SW-DB-46	SW-A	1	D1.20	STN				2851-6	8	3	N0670/SW-H45... REFERENCE CNS HSK
SW-DB-178	SW-A	1	D1.20	LUG				2851-1	8	3	N0670/SW-H46 REFERENCE CNS HSK
SW-DB-57	SW-B	1	D1.20	E-LUG				2851-3	8	1	N0670/SW-H178... REFERENCE CNS HSK
SW-DB-256	SW-B	1	D1.20	STN				2852-55	8	1	N0670/SW-H57... REFERENCE CNS HSK
SW-DB-16	SW-B	1	D1.20	SAD				2852-3	8	2	N0670*SW-H256... REFERENCE CNS HSK
SW-DB-50	SW-B	1	D1.20	STN				2852-9	8	2	N0670*SW-16... REFERENCE CNS HSK
			72	***							
SW-PB-A1	SW	1	D1.30	SP-PU				2852-3	8		SW PUMP "SW-P-B" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS 2C-4747 AND 1F-6921... VENDOR MANUAL #0180...
SW-PC-A1	SW	1	D1.30	SP-PU				2852-3	8		SW PUMP "SW-P-C" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS... VENDOR MANUAL #0180
SW-PD-A1	SW	1	D1.30	SP-PU				2852-3	8		SW PUMP "SW-P-D" SUPPORT... REFERENCE

CODE CASE N-509  
 IWD-2500-1 CAT: D-A  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFG...	SIZE..	TKNS.....	MAT...	ISO.....	VT.....	PER	REMARKS.....
SW-BPB-A1	SW	1	D1.30	SP-PU				2852-3	8		"BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS... VENDOR MANUAL #0180 SW PUMP "SW-P-BPB" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS NO. 2E-2040 AND 1F-6681... VENDOR MANUAL #0144...
SW-BPC-A1	SW	1	D1.30	SP-PU				2852-3	8		SW PUMP "SW-P-BPC" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS... VENDOR MANUAL #0144
SW-BPD-A1	SW	1	D1.30	SP-PU				2852-3	8		SW PUMP "SW-P-BPD" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS... VENDOR MANUAL #0144
SW-PA-A1	SW-A	1	D1.30	SP-PU				2852-3	8	1	SW PUMP "SW-P-A" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS 2C-4747 AND 1F-6921... VENDOR MANUAL #0180...
SW-BPA-A1	SW-A	1	D1.30	SP-PU				2852-3	8	3	SW PUMP "SW-P-BPA" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS NO. 2E-2040 AND 1F-6681... VENDOR MANUAL #0144...
		8	***								
***		82									

CODE CASE N-491  
IWF-2500-1 CAT: F-A, CLASS 1  
CORE SPRAY SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
CSH-42	CS-A	1	F1.10.C	CS	VS	DW				2501-1	10,11	
CSH-43	CS-A	1	F1.10.C	CS	VS	DW	CB	W	B	2501-1	10,11	
CSH-39	CS-A	1	F1.10.C	CS	VS	DW				2502-1	10,11	3
CSH-41	CS-B	1	F1.10.C	CS	VS	DW				2502-1	10,11	
CSH-45	CS-B	1	F1.10.C	CS	VS	DW	CC	WB		2501-1	10,11	
CSH-44	CS-B	1	F1.10.C	CS	VS	DW				2501-1	10,11	1
		6	***									
***		6										

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 FEEDWATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RFH-68	FW-A	1	F1.10.A	SWS	VS	VS	SS	W		2509-1	10		
RFH-69	FW-A	1	F1.10.A	RSF	HS	HS	SS	W	W	2509-1	10		INTEGRALLY WELDED ATTACHMENT # FWA-BK1-28, LUGS...
RFH-62	FW-B	1	F1.10.A	RSF	VS	VS	SS	W	W	2509-2	10		INTEGRALLY WELDED ATTACHMENT # FWD-BK1-26, LUGS... LUGS WELDED TO PIPE CLAMP...
RFH-61	FW-B	1	F1.10.A	SWS	HS	HS	SS	W		2509-2	10	2	
		4	***										
RFH-71	FW-A	1	F1.10.C	CS	VS	DW	SS	W	W	2509-1	10,11		
RFH-72	FW-A	1	F1.10.C	CST	VS	DW	SS	W	W	2509-1	10,11		INTEGRALLY WELDED ATTACHMENT-LUGS...
RFH-74	FW-A	1	F1.10.C	VS	VS	DW	CF	WB		2509-1	10,11		INTEGRALLY WELDED ATTACHMENT-STANCHION...
RFH-68A	FW-A	1	F1.10.C	VST	VS	DW	CC	WB		2509-1	10,11		DW CONT PEN X-9A... INTEGRALLY WELDED ATTACHMENT # FWA-BK1-36, WELDED TO FLUED HEAD...
RFH-70A	FW-A	1	F1.10.C	CS	VS	DW	SS	W	W	2509-1	10,11		MUST REMOVE PIPE CLAMP TO ACCESS WELD "FWA-BJ-25"....
RFH-71A	FW-A	1	F1.10.C	CS	VS	DW	SS	W	W	2509-1	10,11		
RFH-70	FW-A	1	F1.10.C	CS	VS	DW	SS	W	W	2509-1	10,11	1	#39 TYPE-F...
RFH-73	FW-A	1	F1.10.C	CST	VS	DW	SS	W	W	2509-1	10,11	1	INTEGRALLY WELDED ATTACHMENT # FWB-BK1-8, LUGS...
RFH-63	FW-B	1	F1.10.C	CS	VS	DW	SS	W	W	2509-2	10,11		
RFH-65	FW-B	1	F1.10.C	CST	VS	DW	SS	W	W	2509-2	10,11		INTEGRALLY WELDED ATTACHMENT-LUGS...
RFH-66	FW-B	1	F1.10.C	CST	VS	DW	SS	W	W	2509-2	10,11		INTEGRALLY WELDED ATTACHMENT # FWC-BK1-4, LUGS...
RFH-63A	FW-B	1	F1.10.C	CS	VS	DW	SS	W	W	2509-2	10,11		
RFH-64A	FW-B	1	F1.10.C	CS	VS	DW	SS	W	W	2509-2	10,11		
RFH-64	FW-B	1	F1.10.C	CS	VS	DW	SS	W	W	2509-2	10,11	3	
RFH-62A	FW-B	1	F1.10.C	VST	VS	DW	CC	WB		2509-2	10,11	3	DW CONT PEN X-9B... INTEGRALLY WELDED ATTACHMENT # FWD-BK1-35, WELDED TO FLUED HEAD...

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CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 FEEDWATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
RFS-14	FW-A	1	F1.10.D	MS	VS	VS				2509-1	10,11	PSA-10... DC 88-302B... INTEGRALLY WELDED ATTACHMENT-LUGS...
RFS-15	FW-A	1	F1.10.D	MS	HS	HS	SS	W		2509-1	10,11	PSA-10... INTEGRALLY WELDED ATTACHMENT-LUGS...
RFS-16	FW-A	1	F1.10.D	MS	HS	HS	SS	W		2509-1	10,11	PSA-10... DC 88-302B... INTEGRALLY WELDED ATTACHMENT-LUGS...
RFS-17	FW-A	1	F1.10.D	MS	VS	VS	SS	W		2509-1	10,11	PSA-10... INTEGRALLY WELDED ATTACHMENT-LUGS...
RFS-18	FW-A	1	F1.10.D	MS	HS	HS	SS	W		2509-1	10,11	PSA-10... DC 88-302B... INTEGRALLY WELDED ATTACHMENT-LUGS...
RFS-19	FW-A	1	F1.10.D	MS	HS	HS	SS	W		2509-1	10,11	PSA-10... INTEGRALLY WELDED ATTACHMENT-LUGS...
RFS-8	FW-B	1	F1.10.D	MS	HS	HS	SS	W		2509-2	10,11	PSA-10... INTEGRALLY WELDED ATTACHMENT # FWD-BK1-12 LUGS...
RFS-9	FW-B	1	F1.10.D	MS	HS	HS	SS	W	W	2509-2	10,11	PSA-3... INTEGRALLY WELDED ATTACHMENT # FWD-BK1-12 LUGS...
RFS-10	FW-B	1	F1.10.D	MS	VS	VS	SS	W	W	2509-2	10,11	PSA-10... INTEGRALLY WELDED ATTACHMENT-LUGS
RFS-11	FW-B	1	F1.10.D	MS	HS	HS	SS	W	W	2509-2	10,11	PSA-10
RFS-12	FW-B	1	F1.10.D	MS	HS	HS	SS	W	W	2509-2	10,11	PSA-10
RFS-13	FW-B	1	F1.10.D	MS	VS	VS	SS	W	W	2509-2	10,11	PSA-10... INTEGRALLY WELDED ATTACHMENT # FWC-BK1-8, LUGS...

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CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
MSH-150	MS	1	F1.10.A	STN	VS	SS	CF	WB		2506-2	10		INTEGRALLY WELDED ATTACHMENT-STANCHION...
MSH-149A	MS	1	F1.10.A	RBF	HS	HS	CC	WB	W	2506-2	10		INTEGRALLY WELDED ATTACHMET # RSA-BK1-22, INSUL.PROT.SAD...
MSS-62	MS	1	F1.10.A	SWS	HS	HS	CW	B	WB	2506-2	10	3	
		3	***										
MS-GA1	MS-A	1	F1.10.B	RSF	HS	HS	SS	B	W	GE731E671	10	3	INTEGRALLY WELDED ATTACHMENT # MSA-BK1-GA1, LUGS...
MS-GB1	MS-B	1	F1.10.B	RSF	HS	HS	SS	B	W	GE731E671	10	2	INTEGRALLY WELDED ATTACHMENT # MSB-BK1-GB1, LUGS...
MS-GC1	MS-C	1	F1.10.B	RSF	HS	HS	SS	B	W	GE731E671	10	3	INTEGRALLY WELDED ATTACHMENT # MSC-BK1-GC1, LUGS...
MS-GD1	MS-D	1	F1.10.B	RSF	HS	HS	SS	W	B	GE731E671	10	2	INTEGRALLY WELDED ATTACHMENT # MSD-BK1-GD1, LUGS...
		4	***										
MSH-132	MS	1	F1.10.C	VS	VS	DW	SS	W	W	2506-1	10,11		
MSH-133	MS	1	F1.10.C	CS	VS	DW	SS	W	W	2506-1	10,11		
MSH-145	MS	1	F1.10.C	VS	VS	DW	SS	W	W	2506-2	10,11		
MSH-146	MS	1	F1.10.C	VS	VS	DW	SS	W		2506-2	10,11		
MSH-148	MS	1	F1.10.C	VS	VS	DW	CC	WB	B	2506-2	10,11		
MSH-149	MS	1	F1.10.C	VS	VS	DW	CC	WB	B	2506-2	10,11		
MSH-152	MS	1	F1.10.C	VS	VS	DW	CF	B		2506-3	10,11		INTEGRALLY WELDED ATTACHMENT # MSDR-BK1-4A...
MSH-153	MS	1	F1.10.C	VS	VS	DW	SS	WB		2506-3	10,11		
MSH-134A	MS	1	F1.10.C	VS	VS	DW	CF	B	B	2506-1	10,11		INTEGRALLY WELDED ATTACHMENT # PSA-BK1-23, PLATE... DW CONT PEN X-11...
MSH-134	MS	1	F1.10.C	CS	VS	DW	SS	W	W	2506-1	10,11	1	INTEGRALLY WELDED ATTACHMENT # PSA-BK1-19, LUGS...
MSH-147	MS	1	F1.10.C	VS	VS	DW	CC	WB	B	2506-2	10,11	3	
MS-HA2	MS-A	1	F1.10.C	VS	VS	DW	SS	W		GE731E611-4	10,11		TWO (2) SPRING CANS LEFT AND RIGHT, ITEM #11

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
MS-HA3	MS-A	1	F1.10.C	VS	VS DW	SS	W	W	GE731E611-4	10,11		HL=5830 LEFT-CL=6091 RIGHT-CL=6101... INTEGRALLY WELDED ATTACHMENT # MSA-BK1-18, LUGS... INTEGRALLY WELDED ATTACHMENT # MSA-BK1-28, LUGS...
MS-HA1	MS-A	1	F1.10.C	CST	VS DW	SS	W		GE731E611-4	10,11	3	INTEGRALLY WELDED ATTACHMENT #MSA-BK1-6, LUGS...
MSH-167	MS-A	1	F1.10.C	VS	VS DW	CF	B		GE731E611-4	10,11	3	DW CONT PEN X-7A... INTEGRALLY WELDED ATTACHMENT # MSA-BK1-44, PLATE WELDED TO FLUED HEAD...
MS-HB1	MS-B	1	F1.10.C	CST	VS DW	SS	W		GE731E611-4	10,11		INTEGRALLY WELDED ATTACHMENT # MSB-BK1-5, LUGS...
MS-HB2	MS-B	1	F1.10.C	VS	VS DW	SS	W		GE731E611-4	10,11		TWO (2) SPRING CANS LEFT AND RIGHT, ITEM #11 HL=2232 LEFT-CL=2266 RIGHT-CL=2280... INTEGRALLY WELDED ATTACHMENT # MSB-BK1-17, LUGS...
MSH-168	MS-B	1	F1.10.C	VS	VS DW	CF	B		GE731E611-4	10,11		DW CONT PEN X-7B... INTEGRALLY WELDED ATTACHMENT # MSB-BK1-40, PLATE WELDED TO FLUED HEAD...
MS-HB3	MS-B	1	F1.10.C	VS	VS DW	SS	W		GE731E611-4	10,11	2	TWO (2) SPRING CANS LEFT AND RIGHT, ITEM #5 HL=3490 LEFT-CL=3589 RIGHT-CL=3612... INTEGRALLY WELDED ATTACHMENT # MSB-BK1-32, LUGS...
MS-HC1	MS-C	1	F1.10.C	CST	VS DW	SS	W		GE731E611-4	10,11		DC 88-302B... INTEGRALLY WELDED ATTACHMENT # MSC-BK1-6, LUGS...
MS-HC3	MS-C	1	F1.10.C	VS	VS DW	SS	W		GE731E611-4	10,11		INTEGRALLY WELDED ATTACHMENT # MSC-BK1-20, LUGS...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
MSH-169	MS-C	1	F1.10.C	VS	VS	DW	CF	B		GE731E611-4	10,11		DW CONT PEN X-7C... INTEGRALLY WELDED ATTACHMENT # MSC-BK1-23, PLATE WELDED TO FLUED HEAD...
MS-HC2	MS-C	1	F1.10.C	VS	VS	DW	SS	W		GE731E611-4	10,11	2	TWO (2) SPRING CANS LEFT AND RIGHT, ITEM #1 HL=2282 LEFT-CL=2324 RIGHT-CL=2339... INTEGRALLY WELDED ATTACHMENT # MSC-BK1-15, LUGS...
MS-HD1	MS-D	1	F1.10.C	CST	VS	DW	SS	W		GE731E611-4	10,11		INTEGRALLY WELDED ATTACHMENT # MSD-BK1-6, LUGS...
MS-HD2	MS-D	1	F1.10.C	VS	VS	DW	SS	W		GE731E611-4	10,11		TWO (2) SPRING CANS LEFT AND RIGHT, ITEM #10 HL=5830 LEFT-CL=6091 RIGHT-CL=6100... INTEGRALLY WELDED ATTACHMENT # MSD-BK1-18, LUGS...
MSH-170	MS-D	1	F1.10.C	VS	VS	DW	CF	B		GE731E611-4	10,11		DW CONT PEN X-7D... INTEGRALLY WELDED ATTACHMENT # MSD-BK1-48, PLATE WELDED TO FLUED HEAD...
MS-HD3	MS-D	1	F1.10.C	VS	VS	DW	SS	W		GE731E611-4	10,11	2	INTEGRALLY WELDED ATTACHMENT, MSD-BK1-32, LUGS...
		27	***										
MSS-21	MS	1	F1.10.D	MS	HS	HS	SS	W	W	2506-1	10,11		PSA-3...
MSS-22	MS	1	F1.10.D	MS	HS	HS	SS	W		2506-1	10,11		PSA-10...
MSS-63	MS	1	F1.10.D	MS	VS	VS	CC	WB		2506-2	10,11		PSA-3...
MSS-149B	MS	1	F1.10.D	MS	HS	HS	CW	B		2506-2	10,11		PSA-3...
MS-SSA2	MS-A	1	F1.10.D	MS	HS	HS	SS	W		GE731E611-4	10,11		PSA-10... INTEGRALLY WELDED ATTACHMENT # MSA-BK1-13, PLATE...
MS-SSA3	MS-A	1	F1.10.D	MS	HS	HS	SS	W		GE731E611-4	10,11		PSA-35... INTEGRALLY WELDED ATTACHMENT # MSA-BK1-11, PLATE...
MS-SSB2	MS-B	1	F1.10.D	MS	HS	HS	SS	W		GE731E611-4	10,11		PSA-10... INTEGRALLY

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

HANGER	SYSTEM	CNT.	ITEM	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
MS-SSB3	MS-B	1	F1.10.D	MS	HS	HS	SS	W		GE731E611-4	10,11	WELDED ATTACHMNET # MSB-BK1-12, PLATE... PSA-10... INTEGRALLY WELDED ATTACHMENT #
MS-SSC2	MS-C	1	F1.10.D	MS	HS	HS	SS	W		GE731E611-4	10,11	MSB-BK1-11, PLATE... PSA-10... INTEGRALLY WELDED ATTACHMENT #
MS-SSC3	MS-C	1	F1.10.D	MS	HS	HS	SS	W		GE731E611-4	10,11	MSC-BK1-14, PLATE... PSA-10... INTEGRALLY WELDED ATTACHMENT #
MS-SSD2	MS-D	1	F1.10.D	MS	HS	HS	SS	W		GE731E611-4	10,11	MSC-BK1-12, PLATE... PSA-35... DC 88-302B... INTEGRALLY WELDED ATTACHMNET # MSD-BK1-13, PLATE...
MS-SSD3	MS-D	1	F1.10.D	MS	HS	HS	SS	W		GE731E611-4	10,11	PSA-35... INTEGRALLY WELDED ATTACHMNET # MSD-BK1-11, PLATE...

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CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 NUCLEAR BOILER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RRH-20	NBD	1	F1.10.A	RBF	HS HS	CW	B	W	X2512-200		10	3	
RRH-20A	NBD	1	F1.10.A	RBF	HS HS	CW	B	W	X2512-200		10	3	
		2	***										
RPV-STB-1A	NB	1	F1.40.A	RB	HS HS	SSL	BW	B	GE.731E306		10	1	INTEGRALLY WELDED ATTACHMENT # RPV-BH-1, 45 DEG. AZ...
RPV-STB-4A	NB	1	F1.40.A	RB	HS HS	SSL	BW	B	GE.731E306		10	1	INTEGRALLY WELDED ATTACHMENT # RPV-BH-4, 315 DEG. AZ...
RPV-SKIRT	NB	1	F1.40.A	RSF	VS VS	CF	B	B	CE232-235		10	2	INTEGRALLY WELDED ATTACHMENT # HNC-C1-1,2,3, RPV SUPPORT SKIRT...
RPV-STB-2A	NB	1	F1.40.A	RB	HS HS	SSL	BW	B	GE.731E306		10	2	INTEGRALLY WELDED ATTACHMENT # RPV-BH-2, 135 DEG. AZ...
RPV-STB-3A	NB	1	F1.40.A	RB	HS HS	SSL	BW	B	GE.731E306		10	3	INTEGRALLY WELDED ATTACHMENT # RPV-BH-3, 225 DEG. AZ...
		5	***										
***		7											

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RHS-7	RHR-A	1	F1.10.A	SWS	HS	HS	SS	W	W	2510-4	10	3	
RHS-13	RHR-B	1	F1.10.A	RS	HS	HS	SS	W		2510-3	10		INTEGRALLY WELDED ATTACHMENT-LUGS...
		2	***										
RHH-33	RHR	1	F1.10.C	VST	VS	DW	SS	W		2510-1	10,11		INTEGRALLY WELDED ATTACHMENT-LUGS...
RHH-34	RHR	1	F1.10.C	VS	VS	DW	SS	W		2510-1	10,11		INTEGRALLY WELDED ATTACHMENT # RHA-BK1-20, LUGS...
RHH-35	RHR	1	F1.10.C	VS	VS	DW	SS	W		2510-1	10,11		
RHH-32A	RHR	1	F1.10.C	VS	VS	DW	SS	W		2510-1	10,11		
RHH-36	RHR	1	F1.10.C	VS	VS	DW	SS	W		2510-1	10,11	1	
RHH-120	RHR-A	1	F1.10.C	VS	VS	DW	C	W	W	2510-4	10,11		
RHH-121	RHR-A	1	F1.10.C	VS	VS	DW	SS	W	W	2510-4	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-BK1-80, INSUL.PROTECT.SAD...
RHH-123	RHR-A	1	F1.10.C	CST	VS	DW	SS	W		2510-4	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-BK1-81, INSUL.PROTECT.SAD...
RHH-122	RHR-A	1	F1.10.C	VS	VS	DW	SS	W	W	2510-4	10,11	3	
RHH-120A	RHR-A	1	F1.10.C	VS	VS	DW	CC	B	N	2510-4	10,11	3	
RHH-71	RHR-B	1	F1.10.C	VS	VS	DW	SS	W	W	2510-3	10,11		DC 88-302B...
RHH-72	RHR-B	1	F1.10.C	VS	VS	DW	SS	W	W	2510-3	10,11		DC 88-302B
RHH-73	RHR-B	1	F1.10.C	VS	VS	DW	SS	W		2510-3	10,11		
RHH-74	RHR-B	1	F1.10.C	CST	VS	DW	SS	W		2510-3	10,11		
RHH-70A	RHR-B	1	F1.10.C	VS	VS	DW	CWC	WB	W	2510-3	10,11		
RHH-70	RHR-B	1	F1.10.C	VS	VS	DW	SS	W	W	2510-3	10,11	3	INTEGRALLY WELDED ATTACHMENT-STANCHION...
		16	***										
RHS-67	RHR	1	F1.10.D	MS	HS	HS	SS	W	W	2510-1	10,11		PSA-10...
RHS-68	RHR	1	F1.10.D	MS	HS	HS	SS	W	W	2510-1	10,11		PSA-10
RHS-69	RHR	1	F1.10.D	MST	VS	VS	SS	W	W	2510-1	10,11		PSA-10... INTEGRALLY WELDED ATTACHMENT # RHA-BK1-24, LUGS, ALSO WELDED TO PIPE CLAMP...
RHS-70	RHR	1	F1.10.D	MS	VS	VS	SS	W	W	2510-1	10,11		PSA-10... INTEGRALLY WELDED ATTACHMENT # RHA-BK1-81, STANCHION...
RHS-71	RHR	1	F1.10.D	MS	HS	HS	SS	W	W	2510-1	10,11		PSA-10
RHS-73	RHR	1	F1.10.D	MS	VS	VS	SS	W	W	2510-1	10,11		PSA-10



CODE CASE N-491  
 TW-2500-1 CAT: F-A, CLASS 1  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RHS-72A	RHR	1	F1.10.D	MS	HS	HS	SS	W	WB	2510-1	10,11		PSA-10, LD=2500#
RHS-5	RHR-A	1	F1.10.D	MS	VS	VS	SS	W		2510-4	10,11		PSA-10
RHS-6	RHR-A	1	F1.10.D	MS	HS	HS	SS	W		2510-4	10,11		PSA-10... INTEGRALLY WELDED ATTACHMENT # RHB-BK1-16, LUGS...
RHS-8	RHR-A	1	F1.10.D	MS	VS	VS	SS	W		2510-4	10,11		PSA-10... INTEGRALLY WELDED ATTACHMENT-LUGS, WELDED TO PIPE CLAMP...
RHS-9	RHR-A	1	F1.10.D	MS	HS	HS	SS	W		2510-4	10,11		PSA-35
RHS-10	RHR-A	1	F1.10.D	MS	HS	HS	SS	W		2510-4	10,11		PSA-35
RHS-11	RHR-A	1	F1.10.D	MS	VS	VS	SS	W		2510-4	10,11		PSA-35
RHS-8C	RHR-A	1	F1.10.D	MS	HS	HS	SS	W	B	2510-4	10,11		PSA-10
RHS-14	RHR-B	1	F1.10.D	MS	VS	VS	SS	W		2510-3	10,11		PSA-10
RHS-15	RHR-B	1	F1.10.D	MS	HS	HS	SS	W		2510-3	10,11		PSA-10... INTEGRALLY WELDED ATTACHMENT-LUGS...
RHS-16	RHR-B	1	F1.10.D	MS	VS	VS	SS	W		2510-3	10,11		PSA-35
RHS-17	RHR-B	1	F1.10.D	MS	HS	HS	SS	W		2510-3	10,11		PSA-35
RHS-18	RHR-B	1	F1.10.D	MS	HS	HS	SS	W		2510-3	10,11		PSA-10... INTEGRALLY WELDED ATTACHMENT-LUGS...
RHS-19	RHR-B	1	F1.10.D	MS	HS	HS	SS	W		2510-3	10,11		PSA-35... INTEGRALLY WELDED ATTACHMENT-LUGS...
RHS-14A	RHR-B	1	F1.10.D	MS	HS	HS	SS	W	B	2510-3	10,11		PSA-10
		21	***										
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CODE CASE N-491  
 1WF-2500-1 CAT: F-A, CLASS 1  
 REACTOR RECIRCULATION SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RR-SB1-A	RR-A	1	F1.10.B	SWB	HS	HS				ISO-RL-A	10	2	TWO (2) SWAY BRACES...
RR-SB1-B	RR-B	1	F1.10.B	SWB	HS	HS				ISO-RL-B	10		TWO (2) SWAY BRACES...
		2	***										
RR-H4-A	RR-A	1	F1.10.C	CS	VS	DW				ISO-RL-A	10,11		
RR-H8-A	RR-A	1	F1.10.C	CST	VS	DW				ISO-RL-A	10,11		EXAMINE COMP. SUPP. RR-H9-A AT THE SAME TIME (TRAPEZE)... REFERENCE CNS (N0670) HSK #RRH9A...
RR-H9-A	RR-A	1	F1.10.C	CST	VS	DW				ISO-RL-A	10,11		ALSO EXAMINE COMP. SUPP. RR-H8-A AT THE SAME TIME (TRAPEZE)... REFERENCE CNS (N0670) HSK RRR8A...
RR-H13A-A	RR-A	1	F1.10.C	VST	VS	DW				ISO-RL-A	10,11		TWO (2) SPRING CANS TRAPEZE... ITEM #10-HL=11600 CL=11969...
RR-H14A-A	RR-A	1	F1.10.C	VST	VS	DW				ISO-RL-A	10,11		ITEM #1-HL=10800 CL=10896... TWO (2) SPRING CAN TRAPEZE... ITEM #9-HL=10800 CL=10866...
RHH-37	RR-A	1	F1.10.C	VS	VS	DW	SS	W	B	2511-1	10,11	1	ALSO REF: EDS DWG. ISO-RL-A...
RR-H1-A	RR-A	1	F1.10.C	VST	VS	DW				ISO-RL-A	10,11	1	INTEGRALLY WELDED ATTACHMENT # RR-BK1-4A, LUGS...
RR-H2-B	RR-B	1	F1.10.C	VST	VS	DW				ISO-RL-B	10,11		INTEGRALLY WELDED ATTACHMENT # RR-BK1-4B, LUGS...
RR-H4-B	RR-B	1	F1.10.C	CS	VS	DW				ISO-RL-B	10,11		
RR-H8-B	RR-B	1	F1.10.C	CST	VS	DW				ISO-RL-B	10,11		EXAMINE COMP. SUPP. RR-H9-B AT THE SAME TIME (TRAPEZE)... REFERENCE CNS (N-670) HSK RRR9B...
RR-H9-B	RR-B	1	F1.10.C	CST	VS	DW				ISO-RL-B	10,11		ALSO EXAMINE COMP. SUPP. RR-H8-B AT THE SAME TIME (TRAPEZE)... REFERENCE CNS (N-670) HSK RRR8B...
RR-H13A-B	RR-B	1	F1.10.C	VST	VS	DW				ISO-RL-B	10,11		TWO (2) SPRING CANS (TRAPEZE)... ITEM #8-HL=10883 CL=10851...

CODE CASE N-491  
 1WF-2500-1 CAT: F-A, CLASS 1  
 REACTOR RECIRCULATION SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRI NO... VT.... NEW REMARKS.....

HANGER	SYSTEM	CNT.	ITEM	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRI	NO...	VT....	NEW REMARKS
RR-H14A-B	RR-B	1	F1.10.C	VST						ISO-RL-B	10,11		ITEM #1-HL=9900 CL=9968... TWO (2) SPRING CANS (TRAPEZE)... ITEM #10-HL=10500 CL=10560... ITEM #1-HL=10300 CL 10360...
		13	***										
RR-H5-A	RR-A	1	F1.40.C	CST						ISO-RL-A	10,11		REACTOR RECIRC. PUMP "A"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-1A, LUG #1, ... REFERENCE G.E. DRAWING #731E225... EXAMINE MECH. SNUBBER RR-SS1-A AT THE SAME TIME !!!
RR-H6-A	RR-A	1	F1.40.C	CS						ISO-RL-A	10,11		REACTOR RECIRC. PUMP "A"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-3A, LUG #3, ... REFERENCE G.E. DRAWING #731E225... EXAMINE MECH. SNUBBER RR-SS5-A AT THE SAME TIME !!!
RR-H7-A	RR-A	1	F1.40.C	CS						ISO-RL-A	10,11		REACTOR RECIRC. PUMP "A"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-2A, LUG #2, ... REFERENCE G.E. DRAWING #731E225... EXAMINE MECH. SNUBBER RR-SS2-A AT THE SAME TIME !!!
RR-H5-B	RR-B	1	F1.40.C	CST						ISO-RL-B	10,11	3	REACTOR RECIRC. PUMP "B"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-1B, LUG #1, REFERENCE G.E. DRAWING #731E225... EXAMINE MECH. SNUBBER RR-SS1-B AT THE SAME TIME !!!
RR-H6-B	RR-B	1	F1.40.C	CS						ISO-RL-B	10,11	3	REACTOR RECIRC. PUMP "B"... INTEGRALLY WELDED

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 1  
 REACTOR RECIRCULATION SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

HANGER	SYSTEM CNT.	ITEM	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
RR-H7-B	RR-B	1	F1.40.C	CS	VS	DW			ISO-RL-B	10,11 3	ATTACHMENT # RR-BK1-3B, LUG #3, REFERENCE G.E. DRAWING #731E225... EXAMINE MECH. SNUBBER RR-SS5-B AT THE SAME TIME !!! REACTOR RECIRC. PUMP "B"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-2B, LUG #2, REFERENCE G.E. DRAWING #731E225... EXAMINE MECH. SNUBBER RR-SS2-B AT THE SAME TIME !!!
		6	***								
RR-SS1-A	RR-A	1	F1.40.D	MS	HS	HS			ISO-RL-A	10,11	REACTOR RECIRC. PUMP "A"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-1A, LUG #1, REFERENCE G.E. DRAWING #731E225... EXAMINE COMP. SUPP. RR-H5-A AT THE SAME TIME !!!
RR-SS2-A	RR-A	1	F1.40.D	MS	VS	VS			ISO-RL-A	10,11	REACTOR RECIRC. PUMP "A"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-2A, LUG #2, REFERENCE G.E. DRAWING #731E225... EXAMINE COMP. SUPP. RR-H7-A AT THE SAME TIME !!!
RR-SS5-A	RR-A	1	F1.40.D	MS	VS	VS			ISO-RL-A	10,11	REACTOR RECIRC. PUMP "A"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-3A, LUG #3, REFERENCE G.E. DRAWING #731E225... EXAMINE COMP. SUPP. RR-H6-A AT THE SAME TIME !!!
RR-SS1-B	RR-B	1	F1.40.D	MS	VS	VS			ISO-RL-B	10,11	REACTOR RECIRC. PUMP "B"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-1B, LUG #1, REFERENCE G.E. DRAWING #731E225... EXAMINE COMP. SUPP. RR-H5-B AT THE SAME TIME !!!

CODE CASE W-491  
IWF-2500-1 CAT: F-A, CLASS 1  
REACTOR RECIRCULATION SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

HANGER	SYSTEM CNT.	ITEM	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO	VT	NEW REMARKS
RR-SS2-B	RR-B	1	F1.40.D	MS	VS VS				ISO-RL-B	10,11	LUG #1, REFERENCE G.E. DRAWING #731E225... EXAMINE COMP. SUPP. RR-H5-B AT THE SAME TIME... PSA 35... REACTOR RECIRC. PUMP "B"... INTEGRALLY WELDED ATTACHMENT #RR-BK1-2B, LUG #2, REFERENCE G.E. DRAWING #731E225... EXAMINE COMP. SUPP. RR-H7-B AT THE SAME TIME...
RR-SS5-B	RR-B	1	F1.40.D	MS	VS VS				ISO-RL-B	10,11	PSA 35... REACTOR RECIRC. PUMP "B"... INTEGRALLY WELDED ATTACHMENT # RR-BK1-3B, LUG #3, REFERENCE G.E. DRWAING #731E225... EXAMINE COMP.SUPP. RR-H6-B AT THE SAME TIME...

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CODE CASE N-491  
 1WF-2500-1 CAT: F-A, CLASS 1  
 REACTOR WATER CLEANUP SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMERIC.NO...	VT....	NEW	REMARKS.....
CUH-221	RWCU	1	F1.10.A	RBF	HS	HS	CW	B	W	X2503-200	10		
CUH-223	RWCU	1	F1.10.A	RSF	HS	HS	CW	B	W	X2503-200	10		
CUH-225	RWCU	1	F1.10.A	RBF	HS	HS	SS	W	NA	X2503-200	10		
CUH-226	RWCU	1	F1.10.A	RBF	HS	HS	SS	W	NA	X2503-200	10		
CUH-220	RWCU	1	F1.10.A	RH	VS	DW	CW	B	B	X2503-200	10	3	
CUH-222	RWCU	1	F1.10.A	RH	VS	DW	CW	B	B	X2503-200	10	3	
		6	***										
CUH-48	RWCU	1	F1.10.C	VST	VS	DW	SS	W		2503-1	10,11		
CUH-49	RWCU	1	F1.10.C	VST	VS	DW	DW	W		2503-1	10,11		INTEGRALLY WELDED ATTACHMENT # CWA-BK1-24, LUGS...
CUH-224	RWCU	1	F1.10.C	VS	VS	DW	SS	W	B	X2503-200	10,11		
CU-H50	RWCU	1	F1.10.C	CST	VS	DW	CW	WB	B	2503-1	10,11	2	INTEGRALLY WELDED ATTACHMENT # CWA-BK1-29, PLATE...
		4	***										
CU-S3AA	RWCU	1	F1.10.D	MS	HS	HS	SS	W	W	2503-1	10,11		ITEM-8, SMA#3...
CU-S3AB	RWCU	1	F1.10.D	MS	HS	HS	SS	W	W	2503-1	10,11		ITEM-9, SMF#3...
		2	***										
***		12											



CODE CASE N-491  
 1WF-2500-1 CAT: F-A, CLASS 1  
 STANDBY LIQUID CONTROL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
LC-H16	SLC	1	F1.10.A	RH	DW	VS				X2504-200	10	
LC-H17	SLC	1	F1.10.A	RB	HS	HS				X2504-200	10	
LC-H18	SLC	1	F1.10.A	RB	HS	HS				X2504-200	10	
LC-H19	SLC	1	F1.10.A	RB	HS	HS				X2504-200	10	
LC-H20	SLC	1	F1.10.A	RB	HS	HS				X2504-200	10	
LC-H21	SLC	1	F1.10.A	RB	HS	HS				X2504-200	10	
LC-H22	SLC	1	F1.10.A	RB	HS	HS				X2504-200	10	
LC-H24	SLC	1	F1.10.A	RH	VS	DW				X2504-201	10	
LC-H25	SLC	1	F1.10.A	RB						X2504-201	10	
LC-H26	SLC	1	F1.10.A	RB						X2504-201	10	
LC-H27	SLC	1	F1.10.A	RH	VS	DW				X2504-201	10	
LC-H29	SLC	1	F1.10.A	RB						X2504-201	10	
LC-H30	SLC	1	F1.10.A	RH	VS	DW				X2504-201	10	
LC-H31	SLC	1	F1.10.A	RH	VS	DW				X2504-201	10	
LC-H28	SLC	1	F1.10.A	RH	VS	DW				X2504-201	10	2
LC-H32	SLC	1	F1.10.A	RB	HS	HS				X2504-201	10	2
LC-H33	SLC	1	F1.10.A	RB	HS	HS				X2504-201	10	2
LC-H15	SLC	1	F1.10.A	RH	VS	DW				X2504-200	10	3
LC-H23	SLC	1	F1.10.A	RH	VS	DW				X2504-201	10	3

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CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 CORE SPRAY SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	Vi..	NEW REMARKS.....
CSH-6	CS-A	1	F1.20.A	RBF	VS	VS	CW	WB	W	2603-1	10	
CSH-17	CS-A	1	F1.20.A	SWS	VS	DW	CC	WB		2602-2	10	
CSH-20	CS-A	1	F1.20.A	SWS	VS	DW	CC	WB		2602-2	10	
CSH-21	CS-A	1	F1.20.A	SWS	VS	DW	CC	WB		2602-2	10	
CSS-12	CS-A	1	F1.20.A	RBF	HS	LS	CF	B	W	2603-1	10	
CSS-13	CS-A	1	F1.20.A	RSF	HS	HS	CWF	W	W	2603-1	10	INTEGRALLY WELDED ATTACHMENT # CSA-CC-10...
CSS-15	CS-A	1	F1.20.A	SWS	HS	HS	CW	WB		2602-2	10	
CSH-21A	CS-A	1	F1.20.A	SWS	VS	VS	CW	WB		2602-2	10	
CSH-18A	CS-A	1	F1.20.A	RBF	VS	VS	CF	W	W	2602-2	10	1 INTEGRALLY WELDED ATTACHMENT # CSA-CC-38, LUGS...
CSS-10	CS-A	1	F1.20.A	RS	HS	HS	CW	W	W	2602-2	10	3
CSH-3	CS-B	1	F1.20.A	RBF	VS	VS	CF	WB	W	2603-2	10	
CSH-13	CS-B	1	F1.20.A	SWS	VS	DW	CW	WB	W	2602-1	10	
CSH-2A	CS-B	1	F1.20.A	RSF	VS	VS	SS	B	B	2603-2	10	
CSS-14	CS-B	1	F1.20.A	RBF	VS	HS	CF	WB	W	2603-2	10	
CSH-13A	CS-B	1	F1.20.A	SWS	HS	HS	CW	WB	W	2602-1	10	
CSH-11	CS-B	1	F1.20.A	SWS	VS	DW	CB	WB	W	2602-1	10	2 INTEGRALLY WELDED ATTACHMENT # CSB-CC-57...
CSS-14A	CS-B	1	F1.20.A	RSF	HS	HS	CF	W	W	2603-2	10	2 INTEGRALLY WELDED ATTACHMENT # CSB-CC-10...
		17	***									
CSH-5	CS-A	1	F1.20.B	SWS	VS	VSHS	CF	W		2603-1	10	TWO (2) SWAY STRUTS...
CSS-16	CS-A	1	F1.20.B	RBF	HS	HS	CW	WB	W	2602-2	10	INTEGRALLY WELDED ATTACHMENT # CSA-CC-89, INSUL.PROTECT.SAD...
CSH-17A	CS-A	1	F1.20.B	RBF	HS	HS	CW	WB	W	2602-2	10	INTEGRALLY WELDED ATTACHMENT # CSA-CC-90, INSUL.PROTECT.SAD...
CSH-19A	CS-A	1	F1.20.B	RBF	HS	HS	CW	WB	W	2602-2	10	INTEGRALLY WELDED ATTACHMENT # CSA-CC-91, INSUL.PROTECT.SAD...
CSH-20A	CS-A	1	F1.20.B	SWS	HS	HS	CW	WB		2602-2	10	TWO (2) SWAY STRUTS...
CSA-X-227A	CS-A	1	F1.20.B	RB	HS	HS	SS	W	W	CB1-69	10	INTEGRALLY WELDED ATTACHMENT # CSA-CC-1A... TORUS PENETRATION X-227, CS-A SUCTION...
CS-VE5	CS-B	1	F1.20.B	RBF	HS	HS				2602-1	10	FORMERLY VE-5 (HSK, MARK NO. CS-VE5)...
CSH-7A	CS-B	1	F1.20.B	SWS	HS	HS	CW	W	W	2602-1	10	SWAY STRUT AND BOX FRAME...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 CORE SPRAY SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
CSH-9A	CS-B	1	F1.20.B	RBF	HS	HS	CW	W	W	2602-1	10		INTEGRALLY WELDED ATTACHMENT # CSB-CC-102, INSUL.PROTECT.SAD. FOUR SIDES SIDE TO SIDE...
CSH-11A	CS-B	1	F1.20.B	SWS	HS	HS	CW	WB		2602-1	10		TWO (2) SWAY STRUTS...
CSB-X-227B	CS-B	1	F1.20.B	RB	HS	HS	SS	W	W	CBI-69	10		INTEGRALLY WELDED ATTACHMENT # CSB-CC-1A... TORUS PENETRATION X-227B, CS-B SUCTION...
CSH-1A	CS-B	1	F1.20.B	SWS	VS	VSHS	CF	WB		2603-2	10	2	TWO (2) SWAY STRUTS...
CSB-WR-2	CS-B	1	F1.20.B	RB	HS	HS	TRS	W	W	K5-110.01	10	3	INTEGRALLY WELDED ATTACHMENT # CSB-CC-WR2... OFF X-227B TORUS PENETRATION CS-B SUCT... REF: KAISER ENGINEERING DWG, VENDOR CODE K0100...
		13	***										
CSH-16	CS-A	1	F1.20.C	VS	VS	DW	CF	B		2602-2	10,11		
CSH-18	CS-A	1	F1.20.C	VS	VS	DW	CC	B		2602-2	10,11		
CSH-19	CS-A	1	F1.20.C	VS	VS	DW	CC	WB		2602-2	10,11		
CSN-22	CS-A	1	F1.20.C	VS	VS	DW	CW	WB	W	2602-2	10,11		
CSH-23	CS-A	1	F1.20.C	CS	VS	DW	CB	B		2602-2	10,11		
CSH-24	CS-A	1	F1.20.C	CS	VS	DW	CC	B		2602-2	10,11		
CSH-C	CS-A	1	F1.20.C	VS	VS	DW	CF	B	W	2603-1	10,11	1	INTEGRALLY WELDED ATTACHMENT # CSA-CC-6, PLATE...
CSH-1	CS-B	1	F1.20.C	VS	VS	DW	CF	B		2603-2	10,11		INTEGRALLY WELDED ATTACHMENT # CSB-CC-4, PLATE...
CSH-2	CS-B	1	F1.20.C	VS	VS	DW	CF	B		2603-2	10,11		INTEGRALLY WELDED ATTACHMENT # CSB-CC-9, PLATE...
CSH-7	CS-B	1	F1.20.C	VS	VS	DW	CF	WB		2602-1	10,11		INTEGRALLY WELDED ATTACHMENT # CSB-CC-32, STANCHION...
CSH-8	CS-B	1	F1.20.C	VS	VS	DW	CW	W	W	2602-1	10,11		
CSH-14	CS-B	1	F1.20.C	CS	VS	DW	CW	WB	B	2602-1	10,11		
CSH-10	CS-B	1	F1.20.C	VS	VS	DW	CB	WB	WB	2602-1	10,11	2	INTEGRALLY WELDED ATTACHMENT # CSB-CC-51, INSUL.PROTECT.SAD. SUPPORTING PIPE...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 CORE SPRAY SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
CSH-12	CS-B	1	F1.20.C	CS	VS	DW	CB	B	W	2602-1	10,11	3	LOAD=3196#
		14	***										
CSS-11	CS-A	1	F1.20.D	HS	HS	HS	CW	W	W	2602-2	10,11		
CSS-1	CS-B	1	F1.20.D	HS	VS	VS	CW	WB	W	2602-1	10,11		
CSS-2	CS-B	1	F1.20.D	HS	HS	HS	CC	WB	WB	2602-1	10,11		
CSS-3	CS-B	1	F1.20.D	HS	HS	HS	CW	WB	B	2602-1	10,11		
		4	***										
CS-PA-S1	CS-A	1	F1.40.B	PVV	VS	VS	C	B	W	2602-2	10		INTEGRALLY WELDED ATTACHMENT # CS-PA-A1... CS PMP-A, BYRON JACKSON, VENDOR CODE B5800, DWG 2C-4836...
CS-PB-S1	CS-B	1	F1.40.B	PVV	VS	VS	C	B	W	2602-1	10	3	INTEGRALLY WELDED ATTACHMENT # CS-PB-A1... CS PMP-B, BYRON JACKSON, VENDOR CODE B5800, DWG 2C-4836...
		2	***										
***		50											

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 HPCI SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
HPH-7	HPCI	1	F1.20.A	STN	VS	SS				2609-1	10		INTEGRALLY WELDED ATTACHMENT # HPID-CC-16...
HPH-9	HPCI	1	F1.20.A	STN	VS	SS	CF	WB	B	2611-6	10		INTEGRALLY WELDED ATTACHMENT # HPIS-CC-6...
RFS-7	HPCI	1	F1.20.A	RBF	HS	HS				2623-3	10		
HPH-10	HPCI	1	F1.20.A	STN	VS	SS	CF	WB	W	2611-6	10		INTEGRALLY WELDED ATTACHMENT # HPIS-CC-11...
HPH-6B	HPCI	1	F1.20.A	RH	VS	DW	CC	WB	B	2609-1	10		
HPS-17	HPCI	1	F1.20.A	SWS	HS	HS	CW	WB	B	2609-1	10		
RFH-44	HPCI	1	F1.20.A	SWS	VS	DW	SS	W		2623-2	10		
RFH-45	HPCI	1	F1.20.A	SWS	VS	DW	SS	W		2623-2	10		
RFH-54	HPCI	1	F1.20.A	RBF	HS	HS				2623-3	10		INTEGRALLY WELDED ATTACHMENT #HPID-CC-79, INSUL.PROTECT.SADDLE...
RFH-55	HPCI	1	F1.20.A	RBF						2623-3	10		INTEGRALLY WELDED ATTACHMENT #HPID-CC-80, INSUL.PROTECT.SADDLE...
HPH-10A	HPCI	1	F1.20.A	STN	VS	SS	CF	WB	W	2611-6	10		
RFH-59B	HPCI	1	F1.20.A	SWS	VS	VS				2623-3	10		
HPH-6	HPCI	1	F1.20.A	STN	VS	SS	CF	WB	W	2609-1	10	1	INTEGRALLY WELDED ATTACHMENT # HPID-CC-5...
HPH-6A	HPCI	1	F1.20.A	RH	VS	DW	CW	WB	B	2609-1	10	1	
RFH-59A	HPCI	1	F1.20.A	SWS	HS	HS				2623-3	10	2	
RFH-56	HPCI	1	F1.20.A	SWS	VS	VS	SS	W	B	2623-3	10	3	
		16	***										
HPH-8	HPCI	1	F1.20.B	STN	VS	SS	CF	WB	B	2611-6	10		INTEGRALLY WELDED ATTACHMENT # HPIS-CC-4...
RFS-4	HPCI	1	F1.20.B	SWS	HS	HSVS	CW	WB		2623-2	10		
RFH-59	HPCI	1	F1.20.B	RB	VS	VSHS				2623-3	10		INTEGRALLY WELDED ATTACHMENT # HPID-CC-78...
RFH-42A	HPCI	1	F1.20.B	RBF	VS	VSHS	CW	B	W	2623-2	10		
RFH-45A	HPCI	1	F1.20.B	RBF	HS	HS	CW	WB	W	2623-2	10		INTEGRALLY WELDED ATTACHMENT # HPID-CC-77, PLATE ADDED DUE TO HANGER MOD DC 88-302 B...
HPIS-X-226	HPCI	1	F1.20.B	RB	HS	HS	SS	W	W	CBI-69	10		INTEGRALLY WELDED ATTACHMENT # HPIS-CC-1A... TORUS PEN X226, HPCI SUCTION

CODE CASE N-491  
 IMF-2500-1 CAT: F-A, CLASS 2  
 HPCI SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RFH-41	HPCI	1	F1.20.B	RB	VS	VSHS	CF	WB	W	2623-2	10	1	INTEGRALLY WELDED ATTACHMENT # HPID-CC-76...
HPH-11	HPCI	1	F1.20.B	STN	VS	SS	CF	B	W	2611-6	10	2	INTEGRALLY WELDED ATTACHMENT # HPIS-CC-72...
		8	***										
RFH-42	HPCI	1	F1.20.C	VS	VS	DW	CW	WB		2623-2	10,11		
RFH-43	HPCI	1	F1.20.C	VS	VS	DW	CW	WB		2623-2	10,11		
RFH-53	HPCI	1	F1.20.C	VS	VS	DW				2623-3	10,11		INTEGRALLY WELDED ATTACHMENT # HPID-CC-70, LUGS...
RFH-58	HPCI	1	F1.20.C	VS	VS	DW				2623-3	10,11		
RFH-54A	HPCI	1	F1.20.C	VS	VS	DW	SS	W	B	2623-3	10,11		INTERGRALLY WELDED ATTACHMENT #HPID-CC-XX, INSULATION PROTECTION SADDLE...
		5	***										
HPCI-BP-S1	HPCI	1	F1.40.B	PVV	VS	VS				2611-6	10	1	HPCI BOOSTER PMP, REFERENCE BYRON JACKSON, VENDOR CODE B5800, DWG 2F1239...
HPCI-MP-S1	HPCI	1	F1.40.B	PVV	VS	VS				2609-1	10	1	HPCI MAIN PMP, REFERENCE BYRON JACKSON, VENDOR CODE B5800, DWG 1F5824...
		2	***										
***		31											



CODE CASE N-491  
 IWF-2000-1 CAT: F-A, CLASS 2  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV:0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
MSH-96	MS	1	F1.20.A	SWS	VS	DW	CW	WB		2629-1	10	
MSS-10	MS	1	F1.20.A	RS	HS	HS	CW	WB	W	2629-1	10	
MSS-12	MS	1	F1.20.A	RS	HS	HS	CW	WB	W	2629-1	10	
MSS-13	MS	1	F1.20.A	RS	HS	HS	CF	WB	W	2629-1	10	
MSS-14	MS	1	F1.20.A	RS	VS	DW	CC	WB	W	2629-1	10	
MSS-18	MS	1	F1.20.A	RS	HS	HS				2629-1	10	
MSS-75	MS	1	F1.20.A	RS	HS	HS				2629-1	10	
MSS-76	MS	1	F1.20.A	RS	HS	HS	CW	WB	W	2629-1	10	
MSH-101	MS	1	F1.20.A	SWS	VS	DW	SS	W		2629-1	10	
MSH-103	MS	1	F1.20.A	SWS	VS	DW	CC	WB	B	2629-1	10	
MSH-107	MS	1	F1.20.A	SWS	VS	DW	SS	W		2629-1	10	
MSH-111	MS	1	F1.20.A	SWS	VS	DW	CC	WB		2629-1	10	
MSH-113	MS	1	F1.20.A	SWS	VS	DW	CW	WB		2629-1	10	
MSH-156	MS	1	F1.20.A	SWS	HS	HS	CC	WB	W	2614-3	10	
MSH-158	MS	1	F1.20.A	SWST	VS	DW	CC	WB		2614-3	10	TWO (2) SWAY STKUTS...
MSH-241	MS	1	F1.20.A	RSF	HS	HS	CW	B	W	2629-1	10	
MSH-95A	MS	1	F1.20.A	RBF	HS	HS	CW	WB		2629-1	10,11	INTEGRALLY WELDED ATTACHMENT # PSA-CE1-5, INSUL.PROTECT.SAD. SIDE TC SIDE...
MSS-11A	MS	1	F1.20.A	RS	VS	DW	SS	W	B	2629-1	10	
MSS-12A	MS	1	F1.20.A	RS	HS	HS	CW	B	WB	2629-1	10	
MSS-13A	MS	1	F1.20.A	RS	HS	HS	CF	B	WB	2629-1	10	
MSS-13B	MS	1	F1.20.A	RS	HS	HS	CF	B	WB	2629-1	10	
MSS-16A	MS	1	F1.20.A	RS	VS	DW	CW	B	WB	2629-1	10	
MSH-101A	MS	1	F1.20.A	RBF	HS	HS	SS	W	W	2629-1	10	INTEGRALLY WELDED ATTACHMENT # PSA-CE1-2, INSUL.PROTECT.SAD. SIDE TO SIDE...
MSH-154A	MS	1	F1.20.A	RBF	HS	HS	CF	WB	W	2614-3	10	INTEGRALLY WELDED ATTACHMENT # HPEX-CC-14, LUGS...
MSH-155A	MS	1	F1.20.A	RBF	HS	HS	CW	WB	W	2614-3	10	INTEGRALLY WELDED ATTACHMENT # HPEX-CC-17, STANCHION...
MSS-111A	MS	1	F1.20.A	RS	HS	HS				2629-1	10	
MSH-157A	MS	1	F1.20.A	SWS	HS	HS	CW	WB	W	2614-3	10	1
MSH-112	MS	1	F1.20.A	SWS	VS	DW	CC	WB		2629-1	10	2
MSS-6	MS	1	F1.20.A	STM	HS	HS	CW	WB	W	2614-1	10	3 INTEGRALLY WELDED ATTACHMENT # RSA-CC-26, STANCHION...
MSS-8	MS	1	F1.20.A	RS	HS	HS	CW	WB	W	2629-1	10	3
MSS-17	MS	1	F1.20.A	RS	HS	HS				2629-1	10	3

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV:0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

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MSH-261	MS	1	F1.20.B	RBF	HS HS	CW	B	W	2629-1	10		
MSH-103A	MS	1	F1.20.B	SWS	VS VSHS	CW	WB	B	2629-1	10		INTEGRALLY WELDED ATTACHMENT # RBS-CE1-2, LUGS...
MSH-156A	MS	1	F1.20.B	RB	HS HS	CW	WB		2614-3	10		
MSH-99	MS	1	F1.20.B	RB	VS VSHS	CW	WB	W	2629-1	10	2	INTEGRALLY WELDED ATTACHMENT # RAS-CE1-5, PLATE, STANCHION...
MSH-107A	MS	1	F1.20.B	SWS	VS VSHS	SS	W		2629-1	10	3	

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MSH-94	MS	1	F1.20.C	VS	VS DW	CC	WB		2629-1	10,11		
MSH-95	MS	1	F1.20.C	VS	VS DW	CC	WB		2629-1	10,11		
MSH-97	MS	1	F1.20.C	VS	VS DW	CW	WB	W	2629-1	10,11		INTEGRALLY WELDED ATTACHMENT # PSA-CE1-4, INSUL.PROTECT.SAD. SUPPORTTING PIPE...
MSH-100	MS	1	F1.20.C	VS	VS DW	SS	WB	W	2629-1	10,11		
MSH-102	MS	1	F1.20.C	VS	VS DW	CW	WB	W	2629-1	10,11		
MSH-104	MS	1	F1.20.C	CS	VS DW	CWF	WB	WB	2629-1	10,11		
MSH-105	MS	1	F1.20.C	CS	VS DW	SS	WB	B	2629-1	10,11		
MSH-108	MS	1	F1.20.C	VS	VS DW	SS	W		2629-1	10,11		
MSH-110	MS	1	F1.20.C	VS	VS DW	CW	WB	W	2629-1	10,11		
MSH-114	MS	1	F1.20.C	CS	VS DW	CW	WB	W	2629-1	10,11		INTEGRALLY WELDED ATTACHMENT # RAS-CE1-4, ELBOW LUG...
MSH-115	MS	1	F1.20.C	CS	VS DW	CW	WB	W	2629-1	10,11		
MSH-116	MS	1	F1.20.C	CS	VS DW	CW	WB		2629-1	10,11		
MSH-118	MS	1	F1.20.C	VS	VS DW	CF	B		2614-3	10,11		INTEGRALLY WELDED ATTACHMENT # HPEX-CC-59, STANCHION...
MSH-120	MS	1	F1.20.C	VS	VS DW	CC	WB		2614-1	10,11		
MSH-122	MS	1	F1.20.C	VS	VS DW	CC	WB		2614-1	10,11		
MSH-123	MS	1	F1.20.C	VS	VS DW	CC	WB		2614-1	10,11		
MSH-154	MS	1	F1.20.C	VS	VS DW	CC	WB	W	2614-3	10,11		
MSH-155	MS	1	F1.20.C	VS	VS DW	CW.C	WB	W	2614-3	10,11		
MSH-157	MS	1	F1.20.C	VS	VS DW	CW	WB		2614-3	10,11		
MSH-159	MS	1	F1.20.C	VS	VS DW				2614-3	10,11		
MSH-160	MS	1	F1.20.C	VS	VS DW	CC	WB	W	2614-3	10,11		
MSH-109	MS	1	F1.20.C	VS	VS DW	CF	WB		2629-1	10,11	1	INTEGRALLY WELDED ATTACHMENT # PSA-CE1-1,

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV:0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
												STANCHION...
MSH-106	MS	1	F1.20.C	CST	VS	DW	SS	W	B	2629-1	10,11	2
MSH-121	MS	1	F1.20.C	VST	VS	DW	CW	WB		2614-1	10,11	2
												INTEGRALLY WELDED ATTACHMENT #RSA-CC-25, LUGS...
MSH-98	MS	1	F1.20.C	VS	VS	DW	CW	WB	W	2629-1	10,11	3
		25	***									
MSS-2	MS	1	F1.20.D	HS	HS	HS	CW	WB	W	2614-3	10,11	
MSS-3	MS	1	F1.20.D	HS	HS	HS	CC	WB	W	2614-3	10,11	
MSS-4	MS	1	F1.20.D	HS	HS	HS	CC	WB	W	2614-3	10,11	
												INTEGRALLY WELDED ATTACHMENT # HPEX-CC-32, STANCHION...
MSS-7	MS	1	F1.20.D	HS	HS	HS	CC	WB	W	2629-1	10,11	
												INTEGRALLY WELDED ATTACHMENT # PSA-CE1-6, TRUNNION... PSA-3...
MSS-16	MS	1	F1.20.D	MS	VS	VSHS	CW	WB	W	2629-1	10,11	
MSS-19	MS	1	F1.20.D	HS	HS	HS	CC	WB	W	2629-1	10,11	
MSS-16B	MS	1	F1.20.D	HS	HS	HS	CW	B	WB	2629-1	10,11	
		7	***									
***		68										

CODE CASE N-491  
 IW-2500-1 CAT: F-A, CLASS 2  
 NITROGEN PURGE AND VENT SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
PVH-111	PNC	1	F1.20.A	RH	VS	DW	CC	B	B	RCO-755-3	10		
PVH-104A	PNC	1	F1.20.A	SWS	VS	DW				RCO-755-1	10		INTEGRALLY WELDED ATTACHMENT # PNC-CE1-2...
PVH-104B	PNC	1	F1.20.A	SWS	HS	HS				RCO-755-1	10		
PVS-3B&R	PNC	1	F1.20.A	SWS	HS	HS	CW	B	W	RCO-755-3	10		INTEGRALLY WELDED ATTACHMENT # PNC-CE1-6...
PVH-108	PNC	1	F1.20.A	SWS	VS	DW	SS	W	W	RCO-755-2	10	2	INTEGRALLY WELDED ATTACHMENT PNC-CE1-5...
PVH-109	PNC	1	F1.20.A	SWS	VS	DW	SS	W	W	RCO-755-2	10	2	INTEGRALLY WELDED ATTACHMENT # PNC-CE1-4...
PVH-110	PNC	1	F1.20.A	RHT	VS	DW	SS	W	W	RCO-755-2	10	2	INTEGRALLY WELDED ATTACHMENT # PNC-CE1-1...
PVS-1B&R	PNC	1	F1.20.A	SWS	HS	HS	SS	W	WB	RCO-755-2	10	2	
PVS-2B&R	PNC	1	F1.20.A	SWS	VS	VS	CW	WB	WB	RCO-755-2	10	2	INTEGRALLY WELDED ATTACHMENT # PNC-CE1-3...
		9	***										
PVH-105	PNC	1	F1.20.C	VS	VS	DW	SS	W		RCO-755-1	10,11		INTEGRALLY WELDED ATTACHMENT # PNC-CE1-7...
PVH-104	PNC	1	F1.20.C	VS	VS	DW				RCO-755-1	10,11	2	TWO (2) HOT LOAD SETTINGS HL#1=2920 AND HL#2=3057....
		2	***										
***		11											

CODE CASE M-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 RCIC SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RCH-2	RCIC	1	F1.20.A	SWS	VS	DW	CW	WB		2621-1	10		
RCH-3	RCIC	1	F1.20.A	SWS	VS	DW	CW	WB		2621-1	10		
RCH-4	RCIC	1	F1.20.A	RB	VS	DW	CF	WB	W	2621-1	10		
RCH-7	RCIC	1	F1.20.A	SWS	VS	DW	CC	B		2621-1	10		
RCH-2A	RCIC	1	F1.20.A	RBF	HS	HS	CW	B	W	2621-1	10		
RCH-32	RCIC	1	F1.20.A	RH	VS	DW	SS	W		2621-2	10		
RCH-5A	RCIC	1	F1.20.A	SWS	HS	LS	CW	WB		2621-1	10		
RCH-6A	RCIC	1	F1.20.A	SWS	HS	HS	CW	WB		2621-1	10		
RCH-32A	RCIC	1	F1.20.A	RH	VS	DW	CW	WB		2621-2	10		
RCH-5	RCIC	1	F1.20.A	STN	VS	SS	CF	WB		2621-1	10	1	INTEGRALLY WELDED ATTACHMENT # RWA-CC-36, STANCHION...
RCH-34	RCIC	1	F1.20.A	SWS	VS	DW	CC	B		2621-2	10	3	
		11	***										
RCH-33	RCIC	1	F1.20.B	RB	VS	VSHS	CW	B	W	2621-2	10		INTEGRALLY WELDED ATTACHMENT # RWA-CC-69, INSUL.PROTECT.SAD...
RCH-3A	RCIC	1	F1.20.B	RBF	HS	HS	CF	WB		2621-1	10		INTEGRALLY WELDED ATTACHMENT #RWA-CC-XX, INSUL.PROTECT.SADDLE...
RCS-15	RCIC	1	F1.20.B	RBF	HS	HS	CW	WB	W	2621-2	10,11		INTEGRALLY WELDED ATTACHMENT # RWA-CC-70, PLATE...
RCS-15B	RCIC	1	F1.20.B	RBF	HS	HS	CC	B	W	2621-2	10		
RWA-X-224	RCIC	1	F1.20.B	RB	HS	HS	SS	W	W	CBI-69	10	3	INTEGRALLY WELDED ATTACHMENT # RWA-CC-13... TORUS PENETRATION X-224, RCIC SUCTION...
		5	***										
RCH-1	RCIC	1	F1.20.C	VS	VS	DW	CW	WB		2621-1	10,11		
RCH-6	RCIC	1	F1.20.C	VS	VS	DW	CC	B		2621-1	10,11	2	INTEGRALLY WELDED ATTACHMENT # RWA-CC-52A, LUG...
		2	***										
RCIC-MP-S1	RCIC	1	F1.40.B	PVV	VS	VS		B		2621-1	10	1	RCIC MAIN PMP, BINGHAM PMP...
		1	***										

CODE CASE N-491  
IWF-2500-1 CAT: F-A, CLASS 2  
RCIC SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

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CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RHS-75	RHR	1	F1.20.A	SWS	HS	HS	CW	WB		2625-4	10		
RHH-53A	RHR	1	F1.20.A	SWS	HS	HS	CW	WB		2625-3	10		
RHH-9A	RHR	1	F1.20.A	SWS	HS	HS	CW	WB	B	2625-1	10	1	
RHH-4B	RHR	1	F1.20.A	RB	HS	HS	CW	WB	WB	2625-1	10	3	
RHH-2A	RHR-A	1	F1.20.A	RSF	VS	VS	CF	WB		2626-1	10		
RHH-3A	RHR-A	1	F1.20.A	RBF	VS	VS	CF	WB	W	2626-1	10		
RHH-4A	RHR-A	1	F1.20.A	SWS	HS	HS	CW	WB		2625-1	10		
RHH-8A	RHR-A	1	F1.20.A	RBF	HS	HS	CC	B	W	2625-1	10		
RHS-50	RHR-A	1	F1.20.A	RBF	HS	HS	CW	WB	W	2624-1	10		INTEGRALLY WELDED ATTACHMENT # RHB-CE1-4, INSUL.PROTEC.SAD...
RHS-51	RHR-A	1	F1.20.A	RS	HS	HS	CW	WB	W	2624-1	10		
RHS-62	RHR-A	1	F1.20.A	SWS	HS	HS	CF	B	WB	2625-2	10		INTEGRALLY WELDED ATTACHMENT # RAW-CE1-2...
RHS-63	RHR-A	1	F1.20.A	RSF	HS	HS	CF	WB	W	2625-2	10		INTEGRALLY WELDED ATTACHMENT # RAW-CE1-1, INSUL.PROTECT.SAD...
RHS-74	RHR-A	1	F1.20.A	SWS	HS	HS	CF	WB		2625-2	10		
RHS-81	RHR-A	1	F1.20.A	SWS	HS	HS	CW	WB		2625-1	10		INTEGRALLY WELDED ATTACHMENT # RAW-CE1-7...
RHH-27A	RHR-A	1	F1.20.A	SWS	HS	HS	CC	B	WB	2624-1	10		
RHH-27B	RHR-A	1	F1.20.A	SWS	HS	HS	CW	WB		2624-1	10		
RHH-93A	RHR-A	1	F1.20.A	SWS	HS	HS	CW	WB		2624-2	10		
RHH-95A	RHR-A	1	F1.20.A	SWS	HS	HS	CW	WB	W	2624-2	10		
RHH-61	RHR-A	1	F1.20.A	RBF	VS	VS	CWC	WB	W	2624-3A	10	1	INTEGRALLY WELDED ATTACHMENT # RAW-CE1-15, INSUL.PROTECT.SAD... SUPPORTING PIPE...
RHH-2	RHR-A	1	F1.20.A	STN	VS	SS	CF	WB	W	2626-1	10	2	INTEGRALLY WELDED ATTACHMENT # RPA-CC-9, STANCHION...
RHH-5	RHR-A	1	F1.20.A	STN	VS	SS	CF	WB		2626-1	10	3	INTEGRALLY WELDED ATTACHMENT # RPC-CC-10, STANCHION...
RHH-6	RHR-A	1	F1.20.A	STN	VS	SS	CF	WB	W	2626-1	10	3	INTEGRALLY WELDED ATTACHMENT # RPC-CC-6, STANCHION...
RHH-5A	RHR-A	1	F1.20.A	RSF	HS	HS	CWC	WB	W	2626-1	10	3	
RHH-15	RHR-B	1	F1.20.A	RBF	VS	VS	CF	WB	W	2626-2	10		
RHH-18	RHR-B	1	F1.20.A	STN	VS	SS	CF	WB		2626-2	10		INTEGRALLY WELDED ATTACHMENT # RPB-CC-10, STANCHION...
RHH-19	RHR-B	1	F1.20.A	RB	VS	DW	CF	WB		2626-2	10		INTEGRALLY WELDED ATTACHMENT # RPB-CC-6,

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 IWF-2500-1 CAT: F-A, CLASS 2  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

RHH-46	RHR-B	1	F1.20.A	RBF	VS VS	CC	WB	W	2624-3B	10,11	LUG... INTEGRALLY WELDED ATTACHMENT # RBW-CE1-11, INSUL.PROTECT.SAD... SUPPORTING PIPE...
RHH-49	RHR-B	1	F1.20.A	SWS	VS VS	CW	WB	W	2624-3B	10	
RHH-65	RHR-B	1	F1.20.A	RH	VS DW				2624-5	10	
RHS-35	RHR-B	1	F1.20.A	RS	HS HS	CW	WB		2624-7	10	
RHS-36	RHR-B	1	F1.20.A	RS	HS HS	CW	WB		2624-3B	10	
RHS-39	RHR-B	1	F1.20.A	RS	HS HS	CW	WB		2624-3B	10	INTEGRALLY WELDED ATTACHMENT # RBW-CE1-10...
RHS-60	RHR-B	1	F1.20.A	SWS	HS HS	CF	WB		2625-2	10	
RHS-64	RHR-B	1	F1.20.A	RBF	HS HS	CW	WB	W	2625-4	10	
MSH-139	RHR-B	1	F1.20.A	RH	VS DW	CW	WB		2614-2	10	INTEGRALLY WELDED ATTACHMENT # RBS-CE1-1... INTEGRALLY WELDED ATTACHMENT # RHD-CE1-11, INSUL.PROTECT.SAD... SIDE TO SIDE...
RHH-132	RHR-B	1	F1.20.A	RBF	HS HS	CF	WB	W	2624-6	10	INTEGRALLY WELDED ATTACHMENT # RHD-CE1-6...
RHH-133	RHR-B	1	F1.20.A	RBF	HS LS	CF	WB	W	2624-6	10	
RHH-134	RHR-B	1	F1.20.A	RBF	VS VS	CF	B		2624-6	10	
RHH-137	RHR-B	1	F1.20.A	RBF	HS HS	CF	WB	W	2624-6	10	
RHH-16A	RHR-B	1	F1.20.A	RBF	VS VS	CF	WB	W	2626-2	10	
RHH-42A	RHR-B	1	F1.20.A	SWS	HS HS				2624-3B	10	
RHH-43A	RHR-B	1	F1.20.A	SWS	HS HS	CW	WB		2624-3B	10	
RHH-44A	RHR-B	1	F1.20.A	RBF	HS HS	CW	WB	W	2624-3B	10	INTEGRALLY WELDED ATTACHMENT # RHC-CE1-1, INSUL.PROTECT.SAD... SIDE TO SIDE...
RHH-46A	RHR-B	1	F1.20.A	RBF	HS HS	CW	WB	W	2624-3B	10	
RHH-52B	RHR-B	1	F1.20.A	SWS	HS HS	CW	WB		2624-3B	10	
RHH-56A	RHR-B	1	F1.20.A	SWS	HS HS	CW	WB		2624-3A	10	
RHH-56B	RHR-B	1	F1.20.A	SWS	HS HS	CW	WB		2624-3A	10	
RHH-118B	RHR-B	1	F1.20.A	RSF	VS VS	CF	WB		2624-3B	10	
RHH-52A	RHR-B	1	F1.20.A	SWS	HS HS	CW	WB	W	2624-3B	10	2
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RHH-4	RHR-A	1	F1.20.B	SWS	VS VSHS	CWF	WB		2625-1	10	SWAY STRUT AND RIGID BRACE...
RHH-1A	RHR-A	1	F1.20.B	RSF	HS HSVS	CWF	WB	W	2625-2	10	
RHH-22A	RHR-A	1	F1.20.B	RBF	HS HSVS	CW	WB	W	2624-1	10	

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RHH-24A	RHR-A	1	F1.20.B	RB	HS	HSVS	CW	WB		2624-1	10		INTEGRALLY WELDED ATTACHMENT # RHB-CC-26...
RHH-25A	RHR-A	1	F1.20.B	RBF	VS	VSHS	CF	B		2624-1	10		INTEGRALLY WELDED ATTACHMENT # RHB-CC-63, INSUL.PROTECT.SAD. SUPPORTING PIPE...
RHH-93B	RHR-A	1	F1.20.B	RBF	HS	HSVS	CF	B	W	2624-2	10		INTEGRALLY WELDED ATTACHMENT # RHB-CC-37, PLATE... SAME HANGER SKETCH AS " RH-H93 " REFERENCE D.C.P. 123 ON SKETCH...
RHH-94A	RHR-A	1	F1.20.B	RBF	VS	VSHS	CF	WB	W	2624-2	10		TWO (2) SWAY STRUTS...
RHH-96A	RHR-A	1	F1.20.B	SWS	HS	HSVS	CWF	WB		2624-2	10		INTEGRALLY WELDED
RHR-X-225A	RHR-A	1	F1.20.B	RB	HS	HSVS	SS	W	W	CBI-69	10		ATTACHMENT # RPA-CC-1A... TORUS PENETRATION X-225A, RHR SUCTION...
RHR-X-225B	RHR-A	1	F1.20.B	RB	HS	HSVS	SS	W	W	CBI-69	10		INTEGRALLY WELDED ATTACHMENT # RPC-CC-1A... TORUS PENETRATION X-225B, RHR SUCTION...
RHH-93	RHR-A	1	F1.20.B	RBF	VS	VSHS	CF	WB	W	2624-2	10	3	INTEGRALLY WELDED ATTACHMENT # RHB-CC-66, PLATE... REFERENCE " D.C.P. 403 " ON HANGER SKETCH
RHH-54	RHR-B	1	F1.20.B	RB	VS	VS	CC	WB		2624-3A	10		INTEGRALLY WELDED ATTACHMENT # RCT-CE1-2...
RHH-64	RHR-B	1	F1.20.B	RBF	VS	VSHS	CWF	WB	W	2624-5	10		INTEGRALLY WELDED ATTACHMENT # RHC-CC-41... REFERENCE " D.C.P.39 " ON HANGER SKETCH...
MSH-138	RHR-B	1	F1.20.B	RH	VS	VSHS	CW	WB		2614-2	10		ROD HANGER AND RESTRAINT...
RHH-135	RHR-B	1	F1.20.B	RBF	HS	HS	CF	WB	W	2624-6	10		
RHH-41A	RHR-B	1	F1.20.B	RBF	HS	HSVS	CW	WB		2624-3C	10		INTEGRALLY WELDED ATTACHMENT # RFD-CC-34, INSUL.PROTECT.SADDLE...
RHH-47A	RHR-B	1	F1.20.B	RBF	HS	HSVS	CW	WB	W	2624-3B	10		INTEGRALLY WELDED ATTACHMENT # RHC-CC-62, INSUL.PROTECT.SAD...
RHH-57A	RHR-B	1	F1.20.B	RBF	HS	HS	SS	W		2624-3A	10		
RHH-64A	RHR-B	1	F1.20.B	RB	HS	HSVS	CW	WB	W	2624-5	10		RIGID BRACE AND SWAY

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COOPER NUCLEAR STATION  
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 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
RHH .B	RHR-B	1	F1.20.B	RBF	VS	VSHS	CF	B	W	2624-5	10	STRUT... INTEGRALLY WELDED ATTACHMENT # RHC-CC-63, PLATE... SAME HANGER SKETCH AS " RH-H64 " REFERENCE " D.C.P. 38 " ON HANGER SKETCH...
RHR-X-225D	RHR-B	1	F1.20.B	RB	HS	HSVS	SS	W	W	CBI-69	10	INTEGRALLY WELDED ATTACHMENT # RPD-CC-1A... TORUS PENETRATION X-225D, RHR SUCTION...
RHH-17A	RHR-B	1	F1.20.B	SWS	HS	HSVS	CW	WB		2625-4	10	1 TWO (2) SWAY STRUTS
RHH-18A	RHR-B	1	F1.20.B	RB	VS	VSHS	CWF	WB	W	2626-2	10	2 INTEGRALLY WELDED ATTACHMENT # RPB-CC-7, LUGS...
RHR-X-225C	RHR-B	1	F1.20.B	RB	HS	HSVS	SS	W	W	CBI-69	10	3 INTEGRALLY WELDED ATTACHMENT # RPB-CC-1A... TORUS PENETRATION X-225C, RHR SUCTION...
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RHH-7	RHR	1	F1.20.C	VS	VS	DW	CF	B		2625-1	10,11	INTEGRALLY WELDED ATTACHMENT # RAW-CE1-3, STANCHION...
RHH-9	RHR	1	F1.20.C	VS	VS	DW	SS	WB		2625-1	10,11	
RHH-11	RHR	1	F1.20.C	VS	VS	DW	SS	W		2625-4	10,11	
RHH-12	RHR	1	F1.20.C	VS	VS	DW	CF	WB		2625-4	10,11	INTEGRALLY WELDED ATTACHMENT # RBW-CE1-2, STANCHION...
RHH-20	RHR	1	F1.20.C	VS	VS	DW	SS	W		2625-3	10,11	
RHH-51	RHR	1	F1.20.C	VS	VS	DW	SS	W		2625-4	10,11	
RHH-53	RHR	1	F1.20.C	VS	VS	DW	CF	B		2625-3	10,11	INTEGRALLY WELDED ATTACHMENT # RHA-CE1-1, STANCHION...
RHH-1	RHR-A	1	F1.20.C	VS	VS	DW	CF	B	B	2625-2	10,11	INTEGRALLY WELDED ATTACHMENT # RPA-CC-16, PLATE...
RHH-8	RHR-A	1	F1.20.C	VS	VS	DW	CW	WB	W	2625-1	10,11	
RHH-21	RHR-A	1	F1.20.C	VS	VS	DW	CF	WB		2624-1	10,11	INTEGRALLY WELDED ATTACHMENT # RPA-CC-20, PLATE...
RHH-22	RHR-A	1	F1.20.C	VS	VS	DW	CC	WB		2624-1	10,11	
RHH-23	RHR-A	1	F1.20.C	VS	VS	DW	CF	WB		2624-1	10,11	INTEGRALLY WELDED

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COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RHH-24	RHR-A	1	F1.20.C	VST	VS	DW	CC	WB		2624-1	10,11		ATTACHMENT # RPA-CC-20A, PLATE... INTEGRALLY WELDED ATTACHMENT # RHB-CC-64, INSUL.PROTECT.SAD... SUPPORTING PIPE...
RHH-26	RHR-A	1	F1.20.C	VS	VS	VS	CF	WB	W	2624-1	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-CC-22, STANCHION... INTEGRALLY WELDED ATTACHMNETS # RHB-CE1-1, LUGS...
RHH-27	RHR-A	1	F1.20.C	VST	VS	DW	CW	WB	W	2624-1	10,11		
RHH-29	RHR-A	1	F1.20.C	VS	VS	DW	CC	WB		2624-1	10,11		
RHH-30	RHR-A	1	F1.20.C	VS	VS	DW	CW	WB		2624-1	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-CE1-3, ELBOW LUG...
RHH-31	RHR-A	1	F1.20.C	VS	VS	DW	CW	WB		2624-1	10,11		
RHH-32	RHR-A	1	F1.20.C	VS	VS	DW	CC	WB		2624-1	10,11		
RHH-60	RHR-A	1	F1.20.C	VS	VS	DW	CW	WB		2624-3A	10,11		INTEGRALLY WELDED ATTACHMENT # SW-CC-6, INSUL.PROTECT.SAD... SUPPORTING PIPE... INTEGRALLY WELDED ATTACHMENT # RHB-CC-67, INSUL.PROTECT.SAD... INTEGRALLY WELDED ATTACHMENT # RHB-CC-44, ELBOW LUG...
RHH-88	RHR-A	1	F1.20.C	VST	VS	DW	SS	W		2624-2	10,11		
RHH-89	RHR-A	1	F1.20.C	VS	VS	DW	SS	WB		2624-2	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-CC-56... TWO (2) SPRING CAN SETTINGS: LEFT HL=10731 LEFT CL=10825, RIGHT HL=8048 RIGHT CL=8142...
RHH-91	RHR-A	1	F1.20.C	VST	VS	DW	SS	W		2624-2	10,11		
RHH-94	RHR-A	1	F1.20.C	VS	VS	DW	CC	WB		2624-2	10,11		
RHH-95	RHR-A	1	F1.20.C	VS	VS	DW	CF	WB	B	2624-2	10,11		INTEGRALLY WELDED ATTACHMENT # RAW-CE1-9, LUGS...
RHH-96	RHR-A	1	F1.20.C	VST	VS	DW	CW	WB		2624-2	10,11		
RHH-97	RHR-A	1	F1.20.C	VST	VS	DW	CC	WB		2624-2	10,11		
RHH-98	RHR-A	1	F1.20.C	VST	VS	DW	CC	WB		2624-2	10,11		
RHH-99	RHR-A	1	F1.20.C	VS	VS	DW	CW	B		2624-2	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-CC-18, ELBOW LUG...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
MSH-140	RHR-A	1	F1.20.C	VS	VS	DW	CW	WB		2614-2	10,11		
MSH-141	RHR-A	1	F1.20.C	VS	VS	DW	CW	WB		2614-2	10,11		INTEGRALLY WELDED ATTACHMENT # RAS-CE1-1, LUG...
RHH-119A	RHR-A	1	F1.20.C	VS	VS	DW	CW	WB	W	2624-3A	10		
RHH-59	RHR-A	1	F1.20.C	VS	VS	DW	CC	WB		2624-3A	10,11	1	INTEGRALLY WELDED ATTACHMENT # RAW-CE1-12, ELBOW LUG...
RHH-10	RHR-A	1	F1.20.C	VS	VS	DW	SS	W		2625-1	10,11	2	
RHH-28	RHR-A	1	F1.20.C	VS	VS	DW	CW	WB		2624-1	10,11	3	INTEGRALLY WELDED ATTACHMENT # RHB-CE 2, ELBOW LUG...
RHH-90	RHR-A	1	F1.20.C	VS	VS	DW	SS	WB		2624-2	10,11	3	INTEGRALLY WELDED ATTACHMENT # RHB-CC-53, ELBOW LUG...
RHH-14	RHR-B	1	F1.20.C	VS	VS	DW	CF	WB		2625-2	10,11		INTEGRALLY WELDED ATTACHMENT # RPD-CC-14, PLATE...
RHH-16	RHR-B	1	F1.20.C	VS	VS	DW	CF	WB		2626-2	10,11		
RHH-38	RHR-B	1	F1.20.C	VS	VS	DW	CF	WB	B	2624-3C	10,11		INTEGRALLY WELDED ATTACHMENT # RPB-CC-19, PLATE...
RHH-39	RHR-B	1	F1.20.C	VS	VS	DW	CF	WB	B	2624-3C	10,11		INTEGRALLY WELDED ATTACHMENT # RPB-CC-20, PLATE...
RHH-40	RHR-B	1	F1.20.C	VS	VS	DW	CC	WB	W	2624-3C	10,11		INTEGRALLY WELDED ATTACHMENT # RPB-CC-32, LUG...
RHH-43	RHR-B	1	F1.20.C	VS	VS	DW	CW	WB	W	2624-3B	10,11		INTEGRALLY WELDED ATTACHMENT # RHC-CE1-2, ELBOW LUG...
RHH-44	RHR-B	1	F1.20.C	VS	VS	DW	CW	WB		2624-3B	10,11		
RHH-47	RHR-B	1	F1.20.C	VST	VS	DW	CW	WB	W	2624-3B	10,11		INTEGRALLY WELDED ATTACHMENT # RHC-CC-36, LUGS...
RHH-48	RHR-B	1	F1.20.C	VS	VS	DW	CW	WB	W	2624-3B	10,11		INTEGRALLY WELDED ATTACHMENT # RHC-CC-32, ELBOW LUG...
RHH-50	RHR-B	1	F1.20.C	VS	VS	DW	CWC	WB		2624-3B	10,11		INTEGRALLY WELDED ATTACHMENT # RCT-CE1-4, LUGS...
RHH-52	RHR-B	1	F1.20.C	VS	VS	DW	SS	W		2624-3B	10,11		
RHH-56	RHR-B	1	F1.20.C	VS	VS	DW	SS	WB		2624-3A	10,11		
RHH-57	RHR-B	1	F1.20.C	VST	VS	DW	SS	W		2624-3A	10,11		INTEGRALLY WELDED



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 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CH	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													ATTACHMENT # RCT-CE1-1, INSUL.PROTECT.SAD... SUPPORTING PIPE...
RHH-63	RHR-B	1	F1.20.C	VS	VS	DW	SS	W		2624-3B	10,11		
RHH-66	RHR-B	1	F1.20.C	VS	VS	DW	SS	W		2624-5	10,11		
RHH-67	RHR-B	1	F1.20.C	VS	VS	DW	SS	W		2624-5	10,11		
RHH-68	RHR-B	1	F1.20.C	VS	VS	DW	SS	W		2624-5	10,11		INTEGRALLY WELDED ATTACHMET # RHC-CC-52, ELBOW LUG...
RHH-136	RHR-B	1	F1.20.C	VST	VS	DW	CC	WB		2624-6	10,11		INTEGRALLY WELDED ATTACHMENT # RHD-CE1-3, LUGS...
RHH-139	RHR-B	1	F1.20.C	VS	VS	DW	CC	WB		2624-6	10,11		INTEGRALLY WELDED ATTACHMENT #RHD-CE1-1, ELBOW LUG...
RHH-140	RHR-B	1	F1.20.C	VS	VS	DW	CF	WB		2624-7	10,11		INTEGRALLY WELDED ATTACHMENT # RHE-CE1-3, STANCHION...
RHH-141	RHR-B	1	F1.20.C	VS	VS	DW	CC	WB	B	2624-7	10,11		
RHH-142	RHR-B	1	F1.20.C	VS	VS	DW	CC	WB		2624-7	10,11		
RHH-50A	RHR-B	1	F1.20.C	VS	VS	DW	CC	B		2624-3C	10,11		
RHH-117A	RHR-B	1	F1.20.C	VS	VS	VS	CC	WB		2624-3B	10,11		INTEGRALLY WELDED ATTACHMENT # RBW-CE1-12, ELBOW LUG...
RHH-118A	RHR-B	1	F1.20.C	VS	VS	DW	CF	WB		2624-3B	10,11		INTEGRALLY WELDED ATTACHMENT # RHC-CC-61, INSUL.PROTECT.SAD... SUPPORTING PIPE...
RHH-13	RHR-B	1	F1.20.C	VS	VS	DW	CW	WB	W	2625-4	10,11	1	
RHH-42	RHR-B	1	F1.20.C	VS	VS	DW	CW	WB		2624-3B	10,11	1	INTEGRALLY WELDED ATTACHMENT # RHC-CE1-3, ELBOW LUG...
RHH-17	RHR-B	1	F1.20.C	VS	VS	DW	CF	WB		2625-4	10,11	2	INTEGRALLY WELDED ATTACHMET # RPB-CC-15...
RHH-62	RHR-B	1	F1.20.C	VST	VS	DW	SS	W		2624-3B	10,11	2	INTEGRALLY WELDED ATTACHMENT #RCT-CC-27, INSUL.PROTECT.SAD...
RHH-69	RHR-B	1	F1.20.C	VST	VS	DW	CC	WB		2624-5	10,11	2	INTEGRALLY WELDED ATTACHMENT # RHC-CC-58, LUGS...
RHH-45	RHR-B	1	F1.20.C	VS	VS	DW	CC	WB		2624-3B	10,11	3	
RHH-55	RHR-B	1	F1.20.C	VS	VS	DW	SS	WB		2624-3A	10,11	3	

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CODE CASE N-491  
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 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RHS-65	RHR	1	F1.20.D	MST	HS	HS	CW	WB		2625-4	10,11		TWO (2) SMS-3-BA...
RHS-76	RHR	1	F1.20.D	HST	VS	VS	SS	W		2625-1	10,11		INTEGRALLY WELDED ATTACHMENT # RAW-CE1-5...
RHS-77	RHR	1	F1.20.D	HS	HS	HS	CW	WB		2625-1	10,11		
RHS-80	RHR	1	F1.20.D	HS	HS	HS	CW	WB	W	2625-1	10,11		INTEGRALLY WELDED ATTACHMENT # RAW-CE1-4, STANCHION...
RHS-78	RHR	1	F1.20.D	HST	VS	VS	SS	W		2625-1	10,11	1	INTEGRALLY WELDED ATTACHMENT # RHA-CE1-2...
RHS-20	RHR-A	1	F1.20.D	HS	HS	HS	CW	WB		2624-2	10,11		INTEGRALLY WELDED ATTACHMENT # RHG-CC-65, STANCHION...
RHS-21	RHR-A	1	F1.20.D	HS	VS	VS	CC	WB		2624-2	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-CC-59, STANCHION...
RHS-22	RHR-A	1	F1.20.D	HS	HS	HS	SS	W		2624-2	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-CC-51, LUGS...
RHS-24	RHR-A	1	F1.20.D	HS	VS	VS	SS	W		2624-2	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-CC-49, STANCHION...
RHS-25	RHR-A	1	F1.20.D	HS	HS	HS	CW	WB		2624-2	10,11		
RHS-26	RHR-A	1	F1.20.D	HS	VS	VS	CC	WB		2624-2	10,11		
RHS-3A	RHR-A	1	F1.20.D	MS	HS	HSVS				2626-1	10,11		SMS-10-RO...
RHS-52	RHR-A	1	F1.20.D	HS	HS	HS	CW	WB	W	2624-1	10,11		
RHS-54	RHR-A	1	F1.20.D	HS	HS	HS	CWC	WB	W	2624-1	10,11		
RHS-55	RHR-A	1	F1.20.D	HS	HS	HS	CW	WB	W	2624-1	10,11		INTEGRALLY WELDED ATTACHMENT # RPC-CC-24A, STANCHION...
RHS-57	RHR-A	1	F1.20.D	HS	HS	HS	CC	WB	W	2624-3A	10,11		INTEGRALLY WELDED ATTACHMENT # RAW-CE1-14, STANCHION...
RHS-58	RHR-A	1	F1.20.D	MS	HS	HS	CW	WB		2624-3A	10,11		PSA-10 SNUBBER... INTEGRALLY WELDED ATTACHMENT # RAW-CC-92, STANCHION...
RHS-25A	RHR-A	1	F1.20.D	HS	HS	HS	CW	B		2624-2	10,11		
RHS-96A	RHR-A	1	F1.20.D	HS	VS	VS	CW	WB	W	2624-2	10,11		
RHS-27AB&R	RHR-A	1	F1.20.D	HS	VS	VS				2624-1	10,11		INTEGRALLY WELDED ATTACHMENT # RHB-CC-62, LUGS... ADDED FOR SPRING 1988
RHS-29	RHR-B	1	F1.20.D	MS	HS	HS	CF	WB		2624-5	10,11		PSA-10...

CODE CASE N-491  
 IMF-2500-1 CAT: F-A, CLASS 2  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCY	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NFW	REMARKS.....
RHS-30	RHR-B	1	F1.20.D	HS	VS	VS	SS	W		2624-5	10,11		INTEGRALLY WELDED ATTACHMENT # RHC-CC-51, TRUNNIONS...
RHS-34	RHR-B	1	F1.20.D	HS	VS	VS	CW	WB		2624-7	10,11		
RHS-37	RHR-B	1	F1.20.D	HS	HS	HS	CW	WB		2624-3B	10,11		
RHS-40	RHR-B	1	F1.20.D	HS	VS	VS	CW	WB		2624-3B	10,11		
RHS-41	RHR-B	1	F1.20.D	HS	HS	HS	CW	WB		2624-3C	10,11		
RHS-42	RHR-B	1	F1.20.D	HS	HS	HS	CW	WB		2624-3C	10,11		INTEGRALLY WELDED ATTACHMENT # RPB-CC-2B, STANCHION...
RHS-43	RHR-B	1	F1.20.D	HS	VS	VS	SS	WB		2624-3B	10,11		
RHS-59	RHR-B	1	F1.20.D	HS	VS	VS	SS	W		2624-3A	10,11		
		20	***										
RHHX-1A1	RHR-A	1	F1.40.A	PVV	VS	VS	CF	B		SWECO.M-82454	10	2	INTEGRALLY WELDED ATTACHMENT # RHR-CC-2A, ON RHR HX-1A...
RHHX-1A2	RHR-A	1	F1.40.A	PVV	VS	VS	CF	B		SWECO.M-82454	10	2	INTEGRALLY WELDED ATTACHMENT # RHR-CC-2A, ON RHR HX-1A....
RHHX-1A3	RHR-A	1	F1.40.A	PVV	VS	VS	CF	B		SWECO.M-82454	10	2	INTEGRALLY WELDED ATTACHMENT # RHR-CC-2A, RHR HX-1A...
RHHX-1A4	RHR-A	1	F1.40.A	PVV	VS	VS	CF	B		SWECO.M-82454	10	2	INTEGRALLY WELDED ATTACHMENT # RHR-CC-2A, RHR HX-1A...
RHHX-1B1	RHR-B	1	F1.40.A	PVV	VS	VS	CF	B		SWECO.M-82454	10		INTEGRALLY WELDED ATTACHMENT # RHR-CC-2B, RHR HX-1B...
RHHX-1B2	RHR-B	1	F1.40.A	PVV	VS	VS	CF	B		SWECO.M-82454	10		INTEGRALLY WELDED ATTACHMENT # RHR-CC-2B, RHR HX-1B...
RHHX-1B3	RHR-B	1	F1.40.A	PVV	VS	VS	CF	B		SWECO.M-82454	10		INTEGRALLY WELDED ATTACHMENT # RHR-CC-2B, RHR HX-1B...
RHHX-1B4	RHR-B	1	F1.40.A	PVV	VS	VS	CF	B		SWECO.M-82454	10		INTEGRALLY WELDED ATTACHMENT # RHR-CC-2B, RHR HX-1B...
		8	***										
RHR-PC-51	RHR-A	1	F1.40.B	PVV	VS	DW				2624-1	10		INTEGRALLY WELDED ATTACHMENT # RHR-PC-A1...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 2  
 RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

HANGER	SYSTEM CNT.	ITEM	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO	VT	NEW REMARKS
RHR-PA-S1	RHR-A	1	F1.40.B	PVV	VS	DW			2624-1	10	2 RHR PMP-C, REF: BINGHAM PMP, VENDOR CODE B2600, FOR SUPPORT DRAWINGS... INTEGRALLY WELDED ATTACHMENT # RHR-PA-A1... RHR PMP-A, REF: BINGHAM PMP, VENDOR CODE B2600, FOR SUPPORT DRAWINGS... INTEGRALLY WELDED ATTACHMENT # RHR-PB-A1... RHR PMP-B, REF: BINGHAM PMP, VENDOR CODE B2600, FOR SUPPORT DRAWINGS... INTEGRALLY WELDED ATTACHMENT # RHR-PD-A1... RHR PMP-D, REF: BINGHAM PMP, VENDOR CODE B2600, FOR SUPPORT DRAWINGS...
RHR-PB-S1	RHR-B	1	F1.40.B	PVV	VS	DW			2624-3C	10	
RHR-PD-S1	RHR-B	1	F1.40.B	PVV	VS	DW			2624-3C	10	

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CODE CASE N-491  
 1WF-2500-1 CAT: F-A, CLASS 2  
 SCRAM DISCHARGE VOLUME SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

PSR-2	SDV	1	F1.20.A	RBF	VS	VS	CW	WB	W	SW13095.19-EP-1	10	
PSR-3	SDV	1	F1.20.A	RSF	HS	HS	CW	WB		SW13095.19-EP-1	10	
PSR-4	SDV	1	F1.20.A	RSF	VS	VS	CWF	WB	W	SW13095.19-EP-1	10	
PSR-5	SDV	1	F1.20.A	RSF	HS	HS	CW	WB		SW13095.19-EP-1	10	
CRD-1N	SDV	1	F1.20.A	RPR	VS	DW	CW	B		CP-009.SH4	10	
CRD-1S	SDV	1	F1.20.A	RPR	VS	DW	CC	WB		CP-009.SH4	10	
CRD-2N	SDV	1	F1.20.A	RFR	VS	DW	CC	WB		CP-009.SH4	10	
CRD-3N	SDV	1	F1.20.A	RPR	VS	DW	CC	WB		CP-009.SH4	10	
CRD-3S	SDV	1	F1.20.A	RPR	VS	DW	CC	WB		CP-009.SH4	10	
CRD-4N	SDV	1	F1.20.A	RPR	VS	DW	CC	WB		CP-009.SH4	10	
CRD-4S	SDV	1	F1.20.A	RPR	VS	DW	CC	WB		CP-009.SH4	10	
CRD-5N	SDV	1	F1.20.A	RPR	VS	DW	CC	WB		CP-009.SH4	10	
CRD-5S	SDV	1	F1.20.A	RPR	VS	DW	CC	WB	W	CP-009.SH4	10	
CRD-6N	SDV	1	F1.20.A	RPR	VS	DW	CW	B		CP-009.SH4	10	
CRD-6S	SDV	1	F1.20.A	RPR	VS	DW	CC	WB	W	CP-009.SH4	10	
CRD-7N	SDV	1	F1.20.A	RPR	VS	DW	CC	WB		CP-009.SH4	10	
CRD-7S	SDV	1	F1.20.A	RPR	VS	DW	CC	WB	W	CP-009.SH4	10	
CRD-8S	SDV	1	F1.20.A	RPR	VS	DW	CC	WB	W	CP-009.SH4	10	
CRD-9N	SDV	1	F1.20.A	RPR	VS	DW	CW	B	W	CP-009.SH4	10	
CRD-BBS	SDV	1	F1.20.A	RSF	HS	HS	CW	B	B	CP-009.SH4	10	
CRD-EEN	SDV	1	F1.20.A	RBF	HS	HS	SS	W	W	CP-009.SH4	10	
CRD-FFS	SDV	1	F1.20.A	RBF	HS	HS	SS	W	W	CP-009.SH4	10	
CRD-JJN	SDV	1	F1.20.A	RBF	HS	HS	CC	WB	W	CP-009.SH4	10	
CRD-CC1N	SDV	1	F1.20.A	SWS	HS	HS	SS	W		CP-009.SH4	10	
CRD-CC1S	SDV	1	F1.20.A	SWS	HS	HS	SS	W		CP-009.SH4	10	
CRD-CC2N	SDV	1	F1.20.A	SWS	HS	HS	SS	W		CP-009.SH4	10	
CRD-CC2S	SDV	1	F1.20.A	SWS	HS	HS	SS	W		CP-009.SH4	10	
CRD-MN	SDV	1	F1.20.A	RB	HS	HS	CW	WB		CP-009.SH4	10	1
PSRH-1	SDV	1	F1.20.A	RH	VS	DW	CC	W		SW13095.19-EP-1	10	1
CRD-9S	SDV	1	F1.20.A	SWS	VS	DW	CC	WB	W	CP-009.SH4	10	2
CRD-2S	SDV	1	F1.20.A	RPR	VS	DW	CC	WB		CP-009.SH4	10	3
CRD-8N	SDV	1	F1.20.A	RPR	VS	DW	CW	B		CP-009.SH4	10	3

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PSR-1	SDV	1	F1.20.B	RBF	VS	VSHS	CW	WB	W	SW13095.19-EP-1	10	
PSR-6	SDV	1	F1.20.B	RBF	HS	HS	CWF	WB		SW13095.19-EP-1	10	
CRD-EES	SDV	1	F1.20.B	RBF	VS	VSHS	SS	W	W	CP-009.SH4	10	
CRD-FFN	SDV	1	F1.20.B	RBF	HS	HS	SS	W	W	CP-009.SH4	10	
CRD-HHS	SDV	1	F1.20.B	RSF	VS	VS	SS	W	B	CP-009.SH4	10	
PSA-1	SDV	1	F1.20.B	RBF	HS	HSVS	CWF	WB	W	SW13095.19-EP-1	10	2 INTEGRALLY ATTACHMENT # SDS-CE1-21, LUGS...

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CODE CASE N-491  
1WF-2500-1 CAT: F-A, CLASS 2  
SCRAM DISCHARGE VOLUME SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

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CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 HPCI SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
HPH-1	HPCI	1	F1.30.A	SWS	VS	DW	CC	WB		2710-1	10		
HPH-2	HPCI	1	F1.30.A	SWS	VS	DW	CC	WB		2710-1	10		
HPH-3	HPCI	1	F1.30.A	SWS	VS	DW	CW	WB		2710-1	10		
HPH-4	HPCI	1	F1.30.A	SWS	VS	DW	CW	WB		2710-1	10		
HPS-1	HPCI	1	F1.30.A	RBF	HS	HS	CW	WB		2710-2	10		
HPS-2	HPCI	1	F1.30.A	RBF	HS	HS	CW	WB		2710-2	10		
HPH-13	HPCI	1	F1.30.A	SWS	VS	DW	CW	WB		2710-2	10		
HPH-17	HPCI	1	F1.30.A	RH	VS	DW	CW	WB		2710-2	10		
HPH-18	HPCI	1	F1.30.A	RH	VS	DW	CW	WB		2710-2	10		
HPH-19	HPCI	1	F1.30.A	RH	VS	DW	CW	WB		2710-2	10		
HPH-20	HPCI	1	F1.30.A	RH	VS	DW	CW	WB		2710-2	10		
HPH-21	HPCI	1	F1.30.A	RSF	HS	HS	CW	B	WPI	2710-1	10		INTEGRALLY WELDED ATTACHMENT # HPIS-DB-2, INSUL.PROTECT.SAD... TORUS S.W. WALL
HPH-54	HPCI	1	F1.30.A	STN	VS	SS	CF	B		2612-2	10		
HPH-55	HPCI	1	F1.30.A	STN	VS	SS	CF	B		2612-2	10		
HPH-56	HPCI	1	F1.30.A	STN	VS	SS	CF	B		2612-2	10		
HPH-57	HPCI	1	F1.30.A	STN	VS	SS	CF	B		2612-2	10		
HPS-14	HPCI	1	F1.30.A	SWS	HS	HS	CW	WB		2710-1	10		
CH-H229	HPCI	1	F1.30.A	RH	VS	DW				2821-12			EMERGENCY CONDENSATE STORAGE TANK INTERCONNECT
HPH-14A	HPCI	1	F1.30.A	RBF	HS	HS	CW	WB		2710-2	10		
HPH-15A	HPCI	1	F1.30.A	SWS	VS	DW	CW	WB		2710-2	10		
HPS-14A	HPCI	1	F1.30.A	RBF	HS	HS	CW	WB		2710-1	10		
HPH-5	HPCI	1	F1.30.A	SWS	VS	DW	CW	WB		2710-1	10	2	
HPH-12	HPCI	1	F1.30.A	STN	VS	SS	CF	B		2710-2	10	2	
HPH-16	HPCI	1	F1.30.A	RH	VS	DW	CW	WB		2710-2	10	2	
		24	***										
HPH-14	HPCI	1	F1.30.B	RB	VS	DW	CW	B		2710-2	10		INTEGRALLY WELDED ATTACHMENT # HPIS-DB-7, INSUL.PROTECT.SAD... TWO (2) SWAY STRUTS
HPS-13	HPCI	1	F1.30.B	SWS	HS	HS	CWC	WB		2710-1	10		EMERGENCY CONDENSATE STORAGE TANK INTERCONNECT
CH-S250	HPCI	1	F1.30.B	RBF						2821-12			
HPH-16A	HPCI	1	F1.30.B	RB	VS	DW	CW	B	WPI	2710-2	10		INTEGRALLY WELDED ATTACHMENT # HPIS-DB-5... TORUS WEST WALL
HPH-17A	HPCI	1	F1.30.B	RBF	HS	HS	CW	B	W	2710-2	10		INTEGRALLY WELDED ATTACHMENT # HPIS-DB-4, LUGS... TORUS N.W. WALL
HPS-15 B&R	HPCI	1	F1.30.B	RSF	HS	HS	CW	B	WPI	2710-2	10		INTEGRALLY WELDED

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 HPCI SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SF'INCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
HPH-55A	HPCI	1	F1.30.B	STN	VS	SS	CF	B	W	2612-2	10	2	ATTACHMENT # HPIS-DB-3, LUGS... TORUS N. WALL INTEGRALLY WELDED ATTACHMENT # HPIS-DB-1...
		7	***										
HPS-15	HPCI	1	F1.30.D	HS	VS	VS	CW	B	B	2710-2	10,11		INTEGRALLY WELDED ATTACHMENT # HPIS-DB-6... HPCI RM N. WALL...
		1	***										
ECST-1B	HPCI	1	F1.40.A	PVV	VS	VS				2821-12	10		EMERGENCY CONDENSATE STORAGE TANK 1B SUPPORT
ECST-1A	HPCI	1	F1.40.A	PVV	VS	VS				2821-12	10	3	EMERGENCY CONDENSATE STORAGE TANK 1A SUPPORT AND INTEGRALLY WELDED ATTACHMENT... REFERENCE GATX VENDOR CODE #G0500 FOR SUPPORT DRAWINGS...
		2	***										
***		34											

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
VRS-13	MSVR-A 1	F1.30.A	SWS	VS	VS				2628-5	10	
VRR-30	MSVR-B 1	F1.30.A	SWST	VS	VS	SS	W	B	2628-4	10	INTEGRALLY WELDED ATTACHMENT # VR-DA-12, LUGS...
VRH-64C	MSVR-B 1	F1.30.A	SWS	HS	HS				2628-4	10	
VRR-50	MSVR-C 1	F1.30.A	SWST	VS	DW	SS	W	B	2628-3	10	INTEGRALLY WELDED ATTACHMENT # VR-DA-9, LUGS...
VRH-61C	MSVR-C 1	F1.30.A	SWS	HS	HS	SS	W	B	2628-3	10	3
	5	***									
VRG-10	MSVR-A 1	F1.30.B	RB	VS	VSHS	SS	W	BW	2628-5	10	
VRG-21	MSVR-A 1	F1.30.B	SWS	HS	HS	SS	W	B	2628-6	10	TWO (2) SWAY STRUTS...
VRR-20	MSVR-A 1	F1.30.B	SWS	VS	VSHS	SS	W	B	2628-6	10	
VRR-21	MSVR-A 1	F1.30.B	SWS	VS	VSHS	SS	W	B	2628-6	10	
VRS-15	MSVR-A 1	F1.30.B	SWS	HS	HS	SS			2628-5	10	
VRH-55A	MSVR-A 1	F1.30.B	RB	HS	HSVS	SS	W	B	2628-5	10	
VRH-59A	MSVR-A 1	F1.30.B	RB	HS	HSVS	SS	W	B	2628-6	10	
VRH-47A	MSVR-D 1	F1.30.B	RB	HS	HSVS	SS	W	B	2628-2	10	
VRH-51A	MSVR-D 1	F1.30.B	RB	HS	HSVS	SS	W	W	2628-1	10	3
	9	***									
VRC-10	MSVR-A 1	F1.30.C	VS	VS	DW	SS	W	BW	2628-5	10,11	
VRH-53	MSVR-A 1	F1.30.C	VST	VS	DW	SS	W	B	2628-5	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DA-14, LUGS...
VRH-55	MSVR-A 1	F1.30.C	VS	VS	VS	SS	W	B	2628-5	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DA-15, INSUL.PROTECT.SAD...
VRH-56	MSVR-A 1	F1.30.C	VS	VS	DW	SS	W	B	2628-5	10,11	
VRH-57	MSVR-A 1	F1.30.C	CST	VS	DW	SS	W		2628-6	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DA-16, LUGS...
VRH-59	MSVR-A 1	F1.30.C	VS	VS	VS	SS	W		2628-6	10,11	
VRH-60	MSVR-A 1	F1.30.C	VS	VS	VS	SS	W		2628-6	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DA-17, INSUL.PROTECT.SAD...
VRH-63	MSVR-B 1	F1.30.C	VST	VS	DW	SS	W	B	2628-4	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DA-11, LUGS...
VRH-64	MSVR-B 1	F1.30.C	VS	VS	VS	SS	W	W	2628-4	10	REFERENCE GRINNEL HSK MARK NO. VR-H-64 FOR HL

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
VRH-61	MSVR-C	1	F1.30.C	VST	VS	DW	SS	W	B	2628-3	10,11		AND CL SETTINGS... INTEGRALLY WELDED ATTACHMENT # VR-DA-10, LUGS...
VRH-62	MSVR-C	1	F1.30.C	VS	VS	DW	SS	W	B	2628-3	10,11		REFERENCE GRINNELL HSK MARK # VR-H-62 FOR LOAD SETTINGS...
VRH-45	MSVR-D	1	F1.30.C	CS	VS	DW	SS	W	B	2628-2	10,11		
VRH-46	MSVR-D	1	F1.30.C	VS	VS	DW	SS	W	B	2628-2	10,11		INTEGRALLY WELDED ATTACHMENT # VR-DA-6, INSUL.PROTECT.SAD...
VRH-47	MSVR-D	1	F1.30.C	VS	VS	DW	SS	W	SS	2628-2	10,11		INTEGRALLY WELDED ATTACHMENT # VR-DA-7, INSUL.PROTECT.SAD...
VRH-48	MSVR-D	1	F1.30.C	VST	VS	DW	SS	W	B	2628-2	10,11		SPRING CAN AT 230 DAZ (ITEM #4) HL=1050 CL=1043... INTEGRALLY WELDED ATTACHMENT #VR-DA-8, INSUL.PROTECT.SAD...
VRH-49	MSVR-D	1	F1.30.C	CS	VS	DW	SS	W	B	2628-1	10,11		
VRH-51	MSVR-D	1	F1.30.C	VS	VS	DW	SS	W	B	2628-1	10,11		
VRH-52	MSVR-D	1	F1.30.C	VST	VS	DW	SS	W	B	2628-1	10,11		TWO (2) SPRING CANS (TRAPEZE)... SIZE 6 HL=450 CL=488... SIZE 8 HL=593 CL=660...
VRH-45A	MSVR-D	1	F1.30.C	CST	VS	DW	SS	W	B	2628-2	10,11		INTEGRALLY WELDED ATTACHMENT # VR-DA-5, LUGS...
VRH-50	MSVR-D	1	F1.30.C	VS	VS	DW	SS	W	B	2628-1	10,11	3	
VRH-49A	MSVR-D	1	F1.30.C	CST	VS	DW	SS	W	B	2628-1	10,11	3	INTEGRALLY WELDED ATTACHMENT # VR-DB-2, LUGS...
		21	***										
VRS-1	MSVR-A	1	F1.30.D	MS	HS	HS	SS			2628-5	10,11		
VRS-2	MSVR-A	1	F1.30.D	MS	HS	HS	SS			2628-5	10,11		
VRS-3	MSVR-A	1	F1.30.D	MS	HS	HS	SS	W		2628-6	10,11		
VRS-4	MSVR-A	1	F1.30.D	MS	HS	HS	SS	W		2628-6	10,11		
VRS-10	MSVR-A	1	F1.30.D	MS	VS	VS	SS			2628-5	10,11		
VRS-11	MSVR-A	1	F1.30.D	MS	HS	HS	SS			2628-5	10,11		
VRS-12	MSVR-A	1	F1.30.D	MS	HS	HS	SS			2628-5	10,11		
VRS-14	MSVR-A	1	F1.30.D	MS	HS	HS	SS			2628-5	10,11		

CODE CASE H-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM CNT.	ITEM....	SIYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
VRS-20	MSVR-A 1	F1.30.D	MS	HS	HS	SS	W		2628-6	10,11	
VRS-21	MSVR-A 1	F1.30.D	MS	HS	HS	SS	W		2628-6	10,11	
VRS-22	MSVR-A 1	F1.30.D	MS	HS	HS	SS	W		2628-6	10,11	
VRS-23	MSVR-A 1	F1.30.D	MST	VS	VS	SS	W		2628-6	10,11	TWO (2) MECH. SNUB...
VRS-24	MSVR-A 1	F1.30.D	MST	VS	VS	SS	W		2628-6	10,11	TWO (2) MECH. SNUB...
VRS-25	MSVR-A 1	F1.30.D	MS	VS	VS	SS	W		2628-6	10,11	
VRS-26	MSVR-A 1	F1.30.D	MS	HS	HS	SS	W		2628-6	10,11	
VRS-27	MSVR-A 1	F1.30.D	MS	HS	HSVS	SS	W		2628-6	10,11	
VR-55-9Y	MSVR-A 1	F1.30.D	MS	VS	VS	SS	W	B	2628-5	10,11	
VR-55-9Z	MSVR-A 1	F1.30.D	MS	HS	HS	SS	W	B	2628-5	10,11	
VR-55-23X	MSVR-A 1	F1.30.D	MS	HS	HS	SS	W	B	2628-5	10,11	
VR-55-26Z	MSVR-A 1	F1.30.D	MS	VS	VS	SS	W		2628-5	10,11	
VR-56-12Y	MSVR-A 1	F1.30.D	MS	VS	VS	SS	W		2628-6	10,11	
VR-56-24X	MSVR-A 1	F1.30.D	MS	HS	HS	SS	W	B	2628-6	10,11	
VRS-30	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VRS-31	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VRS-32	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VRS-40	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VRS-41	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VRS-42	MSVR-B 1	F1.30.D	MST	VS	VS	SS	W	B	2628-4	10,11	TWO (2) MECH. SNUB...
VRS-43	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VRH-63B	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VRH-63C	MSVR-B 1	F1.30.D	MS	HS	HS				2628-4	10,11	
VRH-64D	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VR-59-7X	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	
VR-59-7Z	MSVR-B 1	F1.30.D	MS	HS	HS	SS	W	B	2628-4	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DA-13, LUGS...
VR-58-12Y	MSVR-B 1	F1.30.D	MS	VS	VS	SS	W	B	2628-4	10,11	
VRS-50	MSVR-C 1	F1.30.D	MST	HS	HS	SS	W	B	2628-3	10,11	TWO (2) MECH. SNUB...
VRS-51	MSVR-C 1	F1.30.D	MS	HS	HS	SS	W	B	2628-3	10,11	
VRS-60	MSVR-C 1	F1.30.D	MS	HS	HS	SS	W	B	2628-3	10,11	
VRS-61	MSVR-C 1	F1.30.D	MS	VS	VS	SS	W	B	2628-3	10,11	
VRS-62	MSVR-C 1	F1.30.D	MST	HS	HS	SS	W	B	2628-3	10,11	TWO (2) MECH. SNUB...
VRS-63	MSVR-C 1	F1.30.D	MS	HS	HS	SS	W	B	2628-3	10,11	
VRH-61D	MSVR-C 1	F1.30.D	MS	HS	HS	SS	W	B	2628-3	10,11	
VRH-62B	MSVR-C 1	F1.30.D	MS	HS	HS	SS	W	B	2628-3	10,11	
VRH-62C	MSVR-C 1	F1.30.D	MS	HS	HS	SS	W	B	2628-3	10,11	
VR-60-7X	MSVR-C 1	F1.30.D	MS	HS	HS	SS	W	B	2628-3	10,11	
VR-60-7Z	MSVR-C 1	F1.30.D	MS	HS	HS	SS	W	B	2628-3	10,11	
VRS-5	MSVR-D 1	F1.30.D	MST	VS	VS	SS	W	B	2628-2	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DA-4, LUGS... TWO (2) MECH. SNUB...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 MAIN STEAM SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM CRT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
VRS-6	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-2	10,11	
VRS-7	MSVR-D 1	F1.30.D	MST	VS	VS	SS	W	B	2628-1	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DB-1, LUGS...
VRS-8	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-1	10,11	
VRS-70	MSVR-D 1	F1.30.D	MST	VS	DW	SS	W	B	2628-1	10,11	TWO (2) MECH. SNUB...
VRS-71	MSVR-D 1	F1.30.D	MST	HS	HS	SS	W	B	2628-1	10,11	TWO (2) MECH. SNUB...
VRS-72	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-1	10,11	
VRS-73	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-1	10,11	
VRS-74	MSVR-D 1	F1.30.D	MS	HS	HS	DW	W	B	2628-1	10,11	INTEGRALLY WELDED ATTACHMENT # VR-DA-3, STANCHION...
VRS-80	MSVR-D 1	F1.30.D	MS	VS	VS	SS	W	B	2628-2	10,11	
VRS-81	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-2	10,11	
VRS-82	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-2	10,11	
VRS-83	MSVR-D 1	F1.30.D	MST	HS	HS	SS	W	B	2628-2	10,11	TWO (2) MECH. SNUB...
VRS-84	MSVR-D 1	F1.30.D	MS	VS	VSHS	SS	W	B	2628-2	10,11	
VRS-85	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-2	10,11	
VRS-86	MSVR-D 1	F1.30.D	MST	HS	HS	SS	W	B	2628-2	10,11	TWO (2) MECH. SNUB...
VRS-87	MSVR-D 1	F1.30.D	MST	HS	HS	SS	W	B	2628-2	10,11	TWO (2) MECH. SNUB...
VRS-88	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-2	10,11	
VR-61-8X	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-1	10,11	
VR-61-8Z	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-1	10,11	
VR-62-8X	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-2	10,11	
VR-62-8Z	MSVR-D 1	F1.30.D	MS	VS	VS	SS	W	B	2628-2	10,11	
VR-61-17X	MSVR-D 1	F1.30.D	MS	HS	HS	SS	W	B	2628-1	10,11	
VR-62-17X	MSVR-D 1	F1.30.D	MS	VS	VS	SS	W	B	2628-2	10,11	

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CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS .....
RCC-H-17	REC	1	F1.30.A	SWS	HS	HS				2848-2	10		
RCC-H-19	REC	1	F1.30.A	STN	VS	SS				2848-2	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-19, STANCHION...
RCC-H-20	REC	1	F1.30.A	STN	VS	SS				2848-2	10		INTEGRALLY WELEDE ATTACHMENT # RCC-DB-20, STANCHION...
RCC-H-25	REC	1	F1.30.A	RHD	VS	DW				2848-2	10		
RCC-H-26	REC	1	F1.30.A	SWS	VS	VS				2848-2	10		
RCC-H-27	REC	1	F1.30.A	SWS	VS	VS				2848-2	10		
RCC-H-28	REC	1	F1.30.A	RB	HS	HS				2848-2	10		
RCC-H-35	REC	1	F1.30.A	STN	VS	SS				2848-2	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-35, STANCHION...
RCC-S-50	REC	1	F1.30.A	SWS	HS	HS				2848-14	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-50, STANCHION...
RCC-S-90	REC	1	F1.30.A	STN	VS	SS				2848-8	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-90, STANCHION...
RCC-H-135	REC	1	F1.30.A	STN	VS	SS				2848-14	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-135, STANCHION...
RCC-H-136	REC	1	F1.30.A	RH	VS	DW				2848-14	10		
RCC-H-139	REC	1	F1.30.A	RH	VS	DW				2848-8	10		INCLUDES RESTRAINT RCC-H-139S APPROXIMATELY 7" SOUTH (DNST)...
RCC-H-141	REC	1	F1.30.A	SWS	VS	VS				2848-8	10		
RCC-H-148	REC	1	F1.30.A	RH	VS	DW				2848-14	10		
RCC-H-149	REC	1	F1.30.A	STN	VS	SS				2848-14	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-149, STANCHION...
RCC-H-17A	REC	1	F1.30.A	SWS	HS	HS				2848-2	10		
RCC-H-19A	REC	1	F1.30.A	RB	HS	HS				2848-2	10		
RCC-H-222	REC	1	F1.30.A	RH	VS	DW				2848-14	10		
RCC-H-23A	REC	1	F1.30.A	STN	VS	SS				2848-2	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-23A, STANCHION...
RCC-H-30A	REC	1	F1.30.A	STN	VS	SS				2848-2	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-30A, STANCHION...
RCC-H-32A	REC	1	F1.30.A	STN	VS	SS				2848-2	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-32A, STANCHION...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RCC-H-33A	REC	1	F1.30.A	STN	VS	SS				2848-2	10		INTEGRALLY WELDED ATTACHMENT # RCC-DB-33A, STANCHION...
RCC-H-34A	REC	1	F1.30.A	STN	VS	SS				2848-2	10		INTEGRALLY WELDED ATTACHMENT # RCC-D9-34A, STANCHION...
RCC-H-35A	REC	1	F1.30.A	SWS	HS	HS				2848-2	10		
RCC-S-25A	REC	1	F1.30.A	RBF	HS	HS				2848-2	10		
RCC-H-134A	REC	1	F1.30.A	RBF	HS	HS				2848-14	10		
RCC-H-139S	REC	1	F1.30.A	RSF	VS	VS				2848-8	10		INCLUDES ROD HANGER RCC-H-139 APPROXIMATELY 7" NORTH (UPST)...
RCC-S-51	REC	1	F1.30.A	SWS	HS	HS				2848-14	10	1	REC HTX AREA 931'... INTEGRALLY WELDED ATTACHMENT # RCC-DB-51, STANCHION...
RCC-H-181	REC	1	F1.30.A	STN	VS	SS				2848-7	10	2	NW CORNER... INTEGRALLY WELDED ATTACHMENT # RCC-DB-181, STANCHION...
RCC-H-24A	REC	1	F1.30.A	STN	VS	SS				2848-2	10	3	INTEGRALLY WELDED ATTACHMENT # RCC-DB-24A, STANCHION... REC HTX AREA 931'...
		31	***										
RCC-S-52	REC	1	F1.30.B	RBF	HS	HS				2848-14	10		
RCC-H-134	REC	1	F1.30.B	RSF	VS	VS				2848-14	10		
RCC-H-140	REC	1	F1.30.B	RB	VS	VS				2848-8	10		REC HTX AREA 931' (DC 88-302B)... INTEGRALLY WELDED ATTACHMENT # RCC-DB-140, STANCHION... RIGID BRACE BETWEEN 2 (TWO) BOX FRAMES... INCLUDE RCC-H-140N AND RCC-H-140S WITH THIS EXAM... THREE SUPPORTS ON SAME HANGER SKETCH, EXAMINED AS RCC-H-140 IN THE FALL 1991 OUTAGE...
RCC-H-182	REC	1	F1.30.B	RBF	HS	HS				2848-7	10		
RCC-H-140N	REC	1	F1.30.B	RBF	VS	VS				2848-8	10		REC HTX AREA 931' (DC 88-302B)... BOX FRAME NORTH OF RIGID BRACE...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

HANGER	SYSTEM CNT.	ITEM	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO	VT	NEW REMARKS
RCC-H-140S	REC	1	F1.30.B	RBF	VS	VS	2848-8			10	INCLUDE RCC-H-140 AND RCC-H-140S WITH THIS EXAM, THREE SUPPORTS ON SAME HANGER SKETCH... EXAMINED AS RCC-H-140 IN THE FALL 1991 OUTAGE... REC HTX AREA 931' (DC 88-302B)... BOX FRAME SOUTH OF RIGID BRACE... INCLUDE RCC-H-140 AND RCC-H-140N WITH THIS EXAM, THREE SUPPORTS ON SAME HANGER SKETCH...EXAMINED AS RCC-H-140 IN THE FALL 1991 OUTAGE...
RCC-H-28AE	REC	1	F1.30.B	SWS	HS	HS	2848-2			10	ATTACHED TO EAST SIDE OF COLUMN...
RCC-H-28AW	REC	1	F1.30.B	SWS	HS	HS	2848-2			10	ATTACHED TO WEST SIDE OF COLUMN...
RCC-H-31AE	REC	1	F1.30.B	SWS	HA	HS	2848-2			10	
RCC-H-31AW	REC	1	F1.30.B	SWS	HS	HS	2848-2			10	
RCC-S-97	REC	1	F1.30.B	RBF	HS	HS	2848-51			10	1 REC-HTX AREA 931'... INTEGRALLY WELDED ATTACHMENT # RCC-DB-97, LUG...
		11	***								
RCC-H-16	REC	1	F1.30.C	VS	VS	DW	2848-2			10,11	
RCC-H-18	REC	1	F1.30.C	VS	VS	DW	2848-2			10,11	
RCC-H-21	REC	1	F1.30.C	VS	VS	DW	2848-2			10,11	INTEGRALLY WELDED ATTACHMENT #RCC-DB-21 TRAPEZE WITH ONE (1) VARIABLE SPRING CAN...
RCC-H-30	REC	1	F1.30.C	VST	VS	DW	2848-2			10,11	
RCC-H-33	REC	1	F1.30.C	VS	VS	DW	2848-2			10,11	
RCC-H-34	REC	1	F1.30.C	VS	VS	VS	2843-2			10,11	INTEGRALLY WELDED ATTACHMENT # RCC-DB-34, LUG...
RCC-H-142	REC	1	F1.30.C	VS	VS	DW	2848-8			10,11	
RCC-H-143	REC	1	F1.30.C	CS	VS	VS	2848-8			10,11	
RCC-H-164	REC	1	F1.30.C	CS	VS	VS	2848-1			10,11	TOP OF RWCU PUMP ROOM (SPRING CONSTANT) BASELINE (F91)

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
RCC-H-24	REC	1	F1.30.C	VS	VS	DW				2848-2	10,11	1	REC HTX AREA 931'...
			10 ***										
REC-TK-ST-S	REC	1	F1.40.A	PVV	VS	VS				2848-7	10	3	REC SURGE TANK SUPPORT AND INTEGRALLY WELDED ATTACHMENT... REFERENCE EATON METAL PRODUCTS CORP. VENDOR CODE E0600 FOR DRAWINGS...
REC-HXB-S1	REC-A	1	F1.40.A	PVV	VS	VS				2852-8	10		REC HEAT-EXCHANGER "REC-HX-A" SUPPORT OPPOSITE END FROM NAME PLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
REC-HXB-S2	REC-A	1	F1.40.A	PVV	VS	VS				2852-8	10		REC HEAT-EXCHANGER "REC-HX-A" SUPPORT ADJACENT TO NAME PLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
REC-HXA-S1	REC-B	1	F1.40.A	PVV	VS	VS				2852-9	10	3	REC HEAT-EXCHANGER "REC-HX-B" TOP SUPPORT OPPOSITE END FROM NAME PLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
REC-HXA-S2	REC-B	1	F1.40.A	PVV	VS	VS				2852-9	10	3	REC HEAT-EXCHANGER "REC-HX-B" TOP SUPPORT ADJACENT TO NAME PLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153
REC-HXA-S3	REC-B	1	F1.40.A	PVV	VS	VS				2852-9	10	3	REC HEAT-EXCHANGER "REC-HX-B" BOTTOM SUPPORT OPPOSITE END FROM NAME PLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

REC-HXA-S4	REC-B	1	F1.40.A	PVV	VS	VS		2852-9	10	3	MANUAL #0153 REC HEAT-EXCHANGER "REC-HX-B" BOTTOM SUPPORT ADJACENT TO NAME PLATE... REFERENCE "SWECO" VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153...
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REC-PB-S1	REC	1	F1.40.B	PVV	VS	VS		2848-2	10		REC PUMP "REC-P-B" SUPPORT... REFERENCE "FAIRBANKS MORSE PUMP DIV" VENDOR CODE F0100 FOR DRAWINGS... VENDOR MANUAL #E68-63-6...
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REC-PC-S1	REC	1	F1.40.B	PVV	VS	VS		2848-2	10		REC PUMP "REC-P-C" SUPPORT... REFERENCE "FAIRBANKS MORSE PUMP DIV" VENDOR CODE F0100 FOR DRAWINGS... VENDOR MANUAL #E68-63-6...
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REC-PD-S1	REC	1	F1.40.B	PVV	VS	VS		2848-2	10		REC PUMP "REC-P-D" SUPPORT... REFERENCE "FAIRBANKS MORSE PUMP DIV" VENDOR CODE F0100 FOR DRAWINGS... VENDOR MANUAL #E68-63-6...
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REC-PA-S1	REC	1	F1.40.B	PVV	VS	VS		2848-2	10	2	REC PUMP "REC-P-A" SUPPORT... REFERENCE "FAIRBANKS MORSE PUMP DIV" VENDOR CODE F0100 FOR DRAWINGS... VENDOR MANUAL #E68-63-6...
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CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
SW-190	SW	1	F1.30.A	RH	VS	DW				2852-8	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-190, E-LUG... FORMERLY SW-H-190 ON ISO 2852-8 REF: DCN 91-1333...
SW-S14	SW	1	F1.30.A	RSF	HS	HS				2400-4	10	
SW-H-20	SW	1	F1.30.A	SWS	HS	HS				2852-3	10	
SW-H-21	SW	1	F1.30.A	SWS	HS	HS				2852-3	10	
SW-H-22	SW	1	F1.30.A	SWS	HS	HS				2852-3	10	
SW-H-23	SW	1	F1.30.A	SWS	HS	HS				2852-3	10	
SW-H-34	SW	1	F1.30.A	RH	VS	DW				2852-16	10	
SW-H-35	SW	1	F1.30.A	RH	VS	DW				2852-16	10	
SW-H-36	SW	1	F1.30.A	RH	VS	DW				2852-16	10	
SW-H-40	SW	1	F1.30.A	RHT	VS	DW				2851-6	10	
SW-H-41	SW	1	F1.30.A	RH	VS	DW				2851-6	10	
SW-H-42	SW	1	F1.30.A	RH	VS	DW				2851-6	10	
SW-H-43	SW	1	F1.30.A	RH	VS	DW				2851-6	10	
SW-H-44	SW	1	F1.30.A	RH	VS	DW				2851-6	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-44, E-LUG...
SW-H-50	SW	1	F1.30.A	RHT	VS	DW				2851-3	10	ROD HANGER WITH RESTRAINT FOR VERTICAL MOVEMENT... REMOVE INSULATION FOR EXAMINATION...
SW-H-51	SW	1	F1.30.A	RH	VS	DW				2851-3	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-52	SW	1	F1.30.A	RH	VS	DW				2851-3	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-53	SW	1	F1.30.A	RH	VS	DW				2851-3	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-54	SW	1	F1.30.A	RH	VS	DW				2851-3	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-55	SW	1	F1.30.A	RH	VS	DW				2851-3	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-56	SW	1	F1.30.A	RH	VS	DW				2851-3	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-62	SW	1	F1.30.A	RH	VS	DW				2851-2	10	
SW-H-63	SW	1	F1.30.A	RH	VS	DW				2851-2	10	
SW-H-64	SW	1	F1.30.A	RH	VS	DW				2851-2	10	
SW-H-66	SW	1	F1.30.A	RHT	VS	DW				2851-2	10	
SW-H-57	SW	1	F1.30.A	RH	VS	DW				2851-2	10	
SW-H-84	SW	1	F1.30.A	RHT	VS	DW				2852-18	10	
SW-H-85	SW	1	F1.30.A	RHT	VS	DW				2852-18	10	



CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
SW-H-86	SW	1	F1.30.A	RH	VS	DW				2852-18	10		
SW-H-87	SW	1	F1.30.A	RSF	VS	VS				2852-18	10		
SW-H-88	SW	1	F1.30.A	RSF	VS	VS				2852-18	10		
SW-H-91	SW	1	F1.30.A	RH	VS	DW				2851-7	10		
SW-H-92	SW	1	F1.30.A	RH	VS	DW				2851-7	10		
SW-H-93	SW	1	F1.30.A	RH	VS	DW				2851-7	10		
SW-H-94	SW	1	F1.30.A	RHT	VS	DW				2851-7	10		
SW-H-95	SW	1	F1.30.A	RHT	VS	DW				2851-7	10		
SW-H-98	SW	1	F1.30.A	STN	VS	SS				2852-19	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-98, STANCHION...
SW-H-99	SW	1	F1.30.A	STN	VS	SS				2852-19	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-99, STANCHION...
SW-S-13	SW	1	F1.30.A	SWS	HS	HS				2851-6	10		
SW-S-17	SW	1	F1.30.A	SWS	HS	HS				2851-6	10		
SW-S-19	SW	1	F1.30.A	SWS	HS	HS				2851-3	10		
SW-S-20	SW	1	F1.30.A	SWS	HS	HS				2851-3	10		
SW-S-23	SW	1	F1.30.A	SWS	HS	HS				2852-10	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-23A, LUG...
SW-S-24	SW	1	F1.30.A	SWS	HS	HS				2852-10	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-24, LUG...
SW-S-25	SW	1	F1.30.A	SWS	HS	HS				2852-10	10		
SW-S-27	SW	1	F1.30.A	SWS	HS	HS				2852-7	10		
SW-S-29	SW	1	F1.30.A	SWS	HS	HS				2852-7	10		
SW-S-45	SW	1	F1.30.A	RBF	HS	HS				2852-18	10		
SW-S-46	SW	1	F1.30.A	RBF	HS	HS				2852-18	10		
SW-S-47	SW	1	F1.30.A	RSF	HS	HS				2852-9	10		
SW-S-48	SW	1	F1.30.A	RSF	HS	HS				2852-9	10		REC HTX AREA 931'... DC 88-302B...
SW-S-49	SW	1	F1.30.A	SWS	HS	HS				2852-9	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-49, STANCHION...
SW-S-51	SW	1	F1.30.A	SWS	HS	HS				2852-9	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-51, STANCHION... REMOVE INSULATION FOR EXAMINATION...
SW-S-52	SW	1	F1.30.A	SWS	HS	HS				2852-9	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-52, STANCHION... REMOVE INSULATION FOR

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
SW-S-53	SW	1	F1.30.A	SWS	HS	HS				2852-9	10	EXAMINATION... REMOVE INSULATION FOR EXAMINATION...
SW-S-54	SW	1	F1.30.A	SWS	HS	HS				2852-9	10	REMOVE INSULATION FOR EXAMINATION...
SW-S-58	SW	1	F1.30.A	SWS	VS	VS				2851-7	10	
SW-S-59	SW	1	F1.30.A	SWS	HS	HS				2851-7	10	
SW-S-62	SW	1	F1.30.A	SWS	HS	HS				2851-7	10	
SW-S-63	SW	1	F1.30.A	SWS	HS	HS				2851-7	10	
SW-S-64	SW	1	F1.30.A	RBF	HS	HS				2852-16	10	
SW-S-65	SW	1	F1.30.A	RBF	HS	HS				2852-16	10	
SW-S-67	SW	1	F1.30.A	RSF	HS	HS				2852-19	10	
SW-S-68	SW	1	F1.30.A	STN	VS	SS				2852-19	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-68, STANCHION...
SW-S-70	SW	1	F1.30.A	STN	VS	SS				2852-19	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-70, STANCHION...
SW-S-71	SW	1	F1.30.A	RSF	HS	HS				2852-19	10	
SW-S-72	SW	1	F1.30.A	STN	VS	SS				2852-19	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-72, STANCHION...
SW-S-73	SW	1	F1.30.A	RSF	HS	HS				2852-19	10	
SW-S-74	SW	1	F1.30.A	STN	VS	SS				2852-19	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-74, STANCHION...
SW-S-94	SW	1	F1.30.A	SWS	HS	HS				2852-8	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-94, STANCHION... REMOVE INSULATION FOR EXAMINATION...
SW-S-96	SW	1	F1.30.A	SWS	HS	HS				2852-8	10	
SW-S-97	SW	1	F1.30.A	SWS	HS	HS				2852-8	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-97, STANCHION...
SW-S-98	SW	1	F1.30.A	SWS	HS	HS				2852-8	10	
SW-S-99	SW	1	F1.30.A	SWS	HS	HS				2852-8	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-137	SW	1	F1.30.A	RBF	VS	VS				2852-9	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-137, LUG...
SW-H-139	SW	1	F1.30.A	SWS	VS	VS				2852-9	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-140	SW	1	F1.30.A	RHT	VS	DW				2852-9	10	REMOVE INSULATION FOR

CODE CASE N-491  
 IN-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
SW-H-141	SW	1	F1.30.A	STN	VS	SS				2852-9	10		EXAMINATION... INTEGRALLY WELDED ATTACHMENT # SW-DB-141, STANCHION... REMOVE INSULATION FOR EXAMINATION
SW-H-142	SW	1	F1.30.A	RH	VS	DW				2852-9	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-143	SW	1	F1.30.A	SWS	VS	VS				2852-9	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-144	SW	1	F1.30.A	STN	VS	SS				2852-9	10		REC HTX AREA 931'... INTEGRALLY WELDED ATTACHMENT # SW-DB-144, STANCHION...
SW-H-146	SW	1	F1.30.A	RH	VS	DW				2852-9	10		
SW-H-148	SW	1	F1.30.A	RH	VS	DW				2852-9	10		
SW-H-149	SW	1	F1.30.A	SWS	VS	VS				2852-10	10		
SW-H-151	SW	1	F1.30.A	RHT	VS	DW				2852-10	10		
SW-H-153	SW	1	F1.30.A	RH	VS	DW				2852-10	10		
SW-H-154	SW	1	F1.30.A	RH	VS	DW				2852-10	10		
SW-H-155	SW	1	F1.30.A	RH	VS	DW				2852-10	10		
SW-H-156	SW	1	F1.30.A	RH	VS	DW				2852-7	10		
SW-H-157	SW	1	F1.30.A	RH	VS	DW				2852-7	10		
SW-H-158	SW	1	F1.30.A	RH	VS	DW				2852-7	10		
SW-H-159	SW	1	F1.30.A	RH	VS	DW				2852-7	10		
SW-H-160	SW	1	F1.30.A	RH	VS	DW				2852-7	10		
SW-H-161	SW	1	F1.30.A	RH	VS	DW				2852-7	10		
SW-H-162	SW	1	F1.30.A	RH	VS	DW				2852-7	10		
SW-H-163	SW	1	F1.30.A	RH	VS	DW				2852-7	10		
SW-H-165	SW	1	F1.30.A	RH	VS	DW				2852-9	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-166	SW	1	F1.30.A	RH	VS	DW				2852-9	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-167	SW	1	F1.30.A	SWS	VS	VS				2852-8	10		
SW-H-168	SW	1	F1.30.A	RH	VS	DW				2852-8	10		
SW-H-169	SW	1	F1.30.A	RH	VS	DW				2852-8	10		
SW-H-179	SW	1	F1.30.A	RH	VS	DW				2851-1	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-181	SW	1	F1.30.A	RH	VS	DW				2851-1	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-182	SW	1	F1.30.A	RH	VS	DW				2851-1	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-185	SW	1	F1.30.A	RH	VS	DW				2852-8	10		REMOVE INSULATION FOR EXAMINATION...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
SW-H-186	SW	1	F1.30.A	SWS	VS	VS				2852-8	10		REMOVE INSULATION FOR EXAMINATION
SW-H-189	SW	1	F1.30.A	STN	VS	SS				2852-8	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-189, STANCHION...
SW-H-191	SW	1	F1.30.A	SWS	VS	VS				2852-8	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-192	SW	1	F1.30.A	RHT	VS	DW				2852-8	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-196	SW	1	F1.30.A	RH	VS	DW				2851-4	10		
SW-H-220	SW	1	F1.30.A	RH	VS	DW				2400-4	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-220, LUG...
SW-H-221	SW	1	F1.30.A	RH	VS	DW				2400-4	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-221, LUG...
SW-H-226	SW	1	F1.30.A	RH	VS	DW				2852-54	10		REMOVE INSULATION FOR EXAMINATION...
SW-H-227	SW	1	F1.30.A	RH	VS	DW				2852-54	10		
SW-H-228	SW	1	F1.30.A	SWS	VS	VS				2852-54	10		
SW-H-229	SW	1	F1.30.A	RH	VS	DW				2852-54	10		REMOVE INSULATION FOR EXAMINATION
SW-H-230	SW	1	F1.30.A	RH	VS	DW				2852-54	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-230...
SW-H-23F	SW	1	F1.30.A	RS	HS	HS				2852-3	10		REMOVE INSULATION FOR EXAMINATION... MAY HAVE ASBESTOS INSULATION... INTEGRALLY WELDED ATTACHMENT # SW-DB-23F, SADDLE...
SW-H-23H	SW	1	F1.30.A	RS	HS	HS				2852-3	10		MAY HAVE ASBESTOS INSULATION... INTEGRALLY WELDED ATTACHMENT # SW-DB-23H, SADDLE...
SW-H-257	SW	1	F1.30.A	RH	DW	VS				2852-55	10		
SW-H-58B	SW	1	F1.30.A	RB	HS	HS				2851-3	10		
SW-H-65A	SW	1	F1.30.A	RH	VS	DW				2851-2	10		
SW-H-65B	SW	1	F1.30.A	RH	VS	DW				2851-2	10		
SW-H-91A	SW	1	F1.30.A	RH	VS	DW				2851-7	10		
SW-S-104	SW	1	F1.30.A	SWS	HS	HS				2851-2	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-104, STANCHION...
SW-S-116	SW	1	F1.30.A	RB	HS	HS				2851-3	10		REMOVE INSULATION FOR EXAMINATION...

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
SW-S-117	SW	1	F1.30.A	SWS	HS	HS				2851-3	10		REMOVE INSULATION FOR EXAMINATION...
SW-S-120	SW	1	F1.30.A	SWS	HS	HS				2851-3	10		REMOVE INSULATION FOR EXAMINATION...
SW-S-122	SW	1	F1.30.A	SWS	HS	HS				2851-1	10		REMOVE INSULATION FOR EXAMINATION...
SW-S-123	SW	1	F1.30.A	SWS	HS	HS				2851-1	10		REMOVE INSULATION FOR EXAMINATION...
SW-S-127	SW	1	F1.30.A	SWS	HS	HS				2852-54	10		
SW-S-128	SW	1	F1.30.A	SWS	HS	HS				2852-54	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-128, STANCHION...
SW-S-13A	SW	1	F1.30.A	SWS	HS	HS				2851-6	10		
SW-S-144	SW	1	F1.30.A	SWS	HS	HS				2852-55	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-144A, STANCHION...
SW-S-16A	SW	1	F1.30.A	RBF	HS	HS				2851-6	10		
SW-S-17A	SW	1	F1.30.A	RBF	HS	HS				2851-6	10		
SW-S-42A	SW	1	F1.30.A	RBF	HS	HS				2851-6	10		
SW-S-46B	SW	1	F1.30.A	SWS	HS	HS				2852-18	10		
SW-S-51A	SW	1	F1.30.A	RBF	HS	HS				2851-3	10		REMOVE INSULATION FOR EXAMINATION...
SW-S-59A	SW	1	F1.30.A	RBF	HS	HS				2851-7	10		
SW-S-63A	SW	1	F1.30.A	RB	HS	HS				2851-2	10		
SW-H-162A	SW	1	F1.30.A	RB	HS	HS				2852-7	10		
SW-H-162B	SW	1	F1.30.A	RB	VS	VS				2852-7	10		
SW-S-164A	SW	1	F1.30.A	RB	HS	HS				2852-7	10		
SW-S-164B	SW	1	F1.30.A	RSF	HS	HS				2852-8	10		REMOVE INSULATION FOR EXAMINATION ...
SW-S-46B&R	SW	1	F1.30.A	RBF	HS	HS				2852-18	10		
SW-H-57	SW	1	F1.30.A	RH	VS	DW				2851-3	10	1	INTEGRALLY WELDED ATTACHMENT # SW-DB-57, E-LUG... REMOVE INSULATION FOR EXAMINATION...
SW-H-150	SW	1	F1.30.A	RH	VS	DW				2852-10	10	1	
SW-H-152	SW	1	F1.30.A	RH	VS	DW				2852-10	10	1	
SW-S-25B&R	SW	1	F1.30.A	RBF	HS	HS				2852-10	10	1	DC 88-302B
SW-S-26B&R	SW	1	F1.30.A	RBF	HS	HS				2852-10	10	1	
SW-H-96	SW	1	F1.30.A	STN	VS	SS				2852-19	10	2	INTEGRALLY WELDED ATTACHMENT # SW-DB-96, STANCHION...
SW-H-97	SW	1	F1.30.A	STN	VS	SS				2852-19	10	2	INTEGRALLY WELDED ATTACHMENT # SW-DB-97A,

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 SERVICE WATER SYSTEM

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 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
SW-H-23E	SW	1	F1.30.A	RS	HS	HS				2852-3	10	2	STANCHION... INTEGRALLY WELDED ATTACHMENT # SW-DB-23E, SADDLE...
SW-H-23G	SW	1	F1.30.A	RS	HS	HS				2852-3	10	2	INTEGRALLY WELDED ATTACHMENT # SW-DB-23G, SADDLE...
SW-H-45	SW	1	F1.30.A	RH	VS	DW				2851-6	10	3	INTEGRALLY WELDED ATTACHMENT # SW-DB-45, E-LUG...
SW-S-14	SW	1	F1.30.A	RSF	HS	HS				2851-6	10	3	INTEGRALLY WELDED ATTACHMENT # SW-DB-14, STANCHIONS...
SW-S-69	SW	1	F1.30.A	RSF	HS	HS				2852-19	10	3	
SW-H-178	SW	1	F1.30.A	RHT	VS	DW				2851-1	10	3	REMOVE INSULATION FOR EXAMINATION... INTEGRALLY WELDED ATTACHMENT # SW-DB-178, LUG...
SW-H-223	SW	1	F1.30.A	RH	VS	DW				2400-4	10	3	INTEGRALLY WELDED ATTACHMENT # SW-DB-223, LUG...
SW-S-178A	SW	1	F1.30.A	SWS	HS	HS				2851-1	10	3	REMOVE INSULATION FOR EXAMINATION...
SW-S-50	SW-B	1	F1.30.A	SWS	HS	HS				2852-9	10	2	REC HTX AREA 931'... INTEGRALLY WELDED ATTACHMENT # SW-DB-50, STANCHION... REMOVE INSULATION FOR EXAMINATION...
SW-H-145	SW-B	1	F1.30.A	STN	VS	SS				2852-9	10	2	REC HTX AREA 931'... INTEGRALLY WELDED ATTACHMENT # SW-DB-145, STANCHION...
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SW-14	SW	1	F1.30.B	STN	VS	SS				2852-3	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-14A, INSUL.PROTECT.SAD... MAY HAVE ASBESTOS
SW-15	SW	1	F1.30.B	STN	VS	SS				2852-3	10		INSULATION... INTEGRALLY WELDED ATTACHMENT # SW-DB-15A, INSUL.PROTECT.SAD... MAY



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 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
SW-17	SW	1	F1.30.B	STN	VS	SS				2852-3	10	HAVE ASBESTOS INSULATION... INTEGRALLY WELDED ATTACHMENT # SW-DB-17... MAY HAVE ASBESTOS INSULATION...
SW-18	SW	1	F1.30.B	STN	VS	SS				2852-3	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-18, INSUL.PROTECT.SAD... MAY HAVE ASBESTOS INSULATION...
SW-19	SW	1	F1.30.B	STN	VS	SS				2852-3	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-19, INSUL.PROTECT.SAD... MAY HAVE ASBESTOS INSULATION...
SW-20	SW	1	F1.30.B	STN	VS	SS				2852-3	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-20, INSUL.PROTECT.SAD...
SW-21	SW	1	F1.30.B	STN	VS	SS				2852-3	10	INTEGRALLY WELDED ATTACHMENT SW-DB-21, INSUL.PROTECT.SAD...
SW-22	SW	1	F1.30.B	STN	VS	SS				2852-3	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-22, INSUL.PROTECT.SAD...
SW-23	SW	1	F1.30.B	STN	VS	SS				2852-3	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-23, INSUL.PROTECT.SAD...
SW-S-1	SW	1	F1.30.B	RBF	HS	HS				2400-1	10	REMOVE INSULATION FOR EXAMINATION...
SW-S-2	SW	1	F1.30.B	RBF	HS	HS				2400-1	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-65	SW	1	F1.30.B	RB	VS	VSHS				2851-2	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-65, INSUL.PROTECT.SAD...
SW-S-15	SW	1	F1.30.B	RBF	HS	HS				2851-6	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-15, LUG...
SW-S-26	SW	1	F1.30.B	RSF	HS	HS				2852-10	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-26, LUG...
SW-S-28	SW	1	F1.30.B	RSF	HS	HSVS				2852-7	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-28, INSUL.PROTECT.SAD...

CODE CASE N-491  
 1WF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
SW-S-44	SW	1	F1.30.B	RBF	HS	HS				2852-18	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-44A, LUG...
SW-S-60	SW	1	F1.30.B	RBF	HS	HS				2851-7	10	
SW-S-66	SW	1	F1.30.B	RBF	HS	HS				2852-16	10	
SW-H-138	SW	1	F1.30.B	RBF	HS	HSVS				2852-9	10	INTEGRALLY WELDED ATTACHMENT 3 SW-DB-138, LUG...
SW-H-147	SW	1	F1.30.B	RBF	HS	HSVS				2852-9	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-147, LUG...
SW-H-164	SW	1	F1.30.B	RBF	HS	HSVS				2852-8	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-164, LUG...
SW-H-187	SW	1	F1.30.B	RBF	HS	HSVS				2852-8	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-185, LUG... REMOVE INSULATION FOR EXAMINATION...
SW-H-188	SW	1	F1.30.B	RBF	HS	HS				2852-8	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-204	SW	1	F1.30.B	RBF	HS	HS				2852-23	10	
SW-H-205	SW	1	F1.30.B	RBF	HS	HS				2852-23	10	
SW-H-258	SW	1	F1.30.B	STN	VS	VSHS				2852-55	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-258, STANCHION...
SW-H-423	SW	1	F1.30.B	RB	HS	HSVS				2400-1	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-432	SW	1	F1.30.B	RB	HS	HSVS				2400-1	10	REMOVE INSULATION FOR EXAMINATION...
SW-H-446	SW	1	F1.30.B	RB	HS	HSVS				2852-27	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-446, LUG...
SW-H-447	SW	1	F1.30.B	RB	HS	HSVS				2852-27	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-447, LUG...
SW-H-61A	SW	1	F1.30.B	RBF	HS	HSVS				2851-2	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-61A, LUG...
SW-S-105	SW	1	F1.30.B	RSF	HS	HS				2851-2	10	INTEGRALLY WELDED ATTACHMENT # SW-DB-105, STANCHION...
SW-S-118	SW	1	F1.30.B	RBF	VS	VSHS				2851-3	10	REMOVE INSULATION FOR EXAMINATION...
SW-S-119	SW	1	F1.30.B	RBF	VS	VSHS				2851-3	10	REMOVE INSULATION FOR

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
SW-S-121	SW	1	F1.30.B	RBF	VS	VSHS				2851-3	10		EXAMINATION... REMOVE INSULATION FOR EXAMINATION...
SW-S-126	SW	1	F1.30.B	RBF	HS	HS				2852-54	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-126, LUG... REMOVE INSULATION FOR EXAMINATION...
SW-S-23B	SW	1	F1.30.B	RBF	VS	VSHS				2852-10	10		
SW-S-49A	SW	1	F1.30.B	RBF	HS	HS				2852-9	10		
SW-H-167A	SW	1	F1.30.B	RBF	HS	HS				2852-8	10		
SW-S-124E	SW	1	F1.30.B	SWS	VS	VS				2851-1	10		SWAY STRUT LOCATED APP. 6'6" EAST OF DNST ELBOW AND 11" EAST OF DNST STANCHION FOR SW-H-124W...
SW-S-124W	SW	1	F1.30.B	SWS	HS	HS				2851-1	10		INTEGRALLY ATTACHMENT # SW-DB-124, STANCHION... SWAY STRUT LOCATED APP. 5'7" EAST OF DNST ELBOW AND 11" WEST OF UPST SWAY STRUT FOR SW-H-124E... APPROXIMATELY 1'6" NORTH (UPST) OF SW-H-156... APPROXIMATELY 6" NORTH (UPST) OF SW-H-156... INTEGRALLY WELDED ATTACHMENT # SW-DB-500, LUG...
SW-S-29AN	SW	1	F1.30.B	SWS	HS	HS				2852-7	10		
SW-S-29AS	SW	1	F1.30.B	SWS	VS	VS				2852-7	10		
SW-S-500B&R	SW	1	F1.30.B	RBF	HS	HSVS				2852-23	10		
SW-S-501B&R	SW	1	F1.30.B	RBF	HS	HSVS				2852-23	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-501, LUG...
SW-H-46	SW	1	F1.30.B	STN	VS	VS				2851-6	10	3	INTEGRALLY WELDED ATTACHMENT # SW-DB-46, STANCHION...
SW-H-62A	SW-A	1	F1.30.B	RB	VS	VSHS				2851-2	10	2	INTEGRALLY WELDED ATTACHMENT # SW-DB-62A, INSUL.PROTECT.SAD... REMOVE INSULATION FOR EXAMINATION...
SW-H-181A	SW-A	1	F1.30.B	SWS	HS	HS				2851-1	10	3	
SW-H-256	SW-B	1	F1.30.B	STN	VS	VSHS				2852-55	10	1	INTEGRALLY WELDED ATTACHMENT # SW-DB-256, STANCHION...
SW-16	SW-B	1	F1.30.B	STN	VS	SS				2852-3	10	2	INTEGRALLY WELDED ATTACHMENT # SW-DB-16,

CODE CASE N-491  
 IMF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW REMARKS.....
			50	***								INSUL.PROTECT.SAD... MAY HAVE ASBESTOS INSULATION...
SW-H-58	SW	1	F1.30.C	VS		VS	DW			2851-3	10,11	REMOVE INSULATION FOR EXAMINATION...
SW-H-59	SW	1	F1.30.C	VS		VS	DW			2851-3	10,11	INTEGRALLY WELDED ATTACHMENT # SW-DB-59, E-LUG... REMOVE INSULATION FOR EXAMINATION...
SW-H-61	SW	1	F1.30.C	VS		VS	DW			2851-2	10	
SW-H-183	SW	1	F1.30.C	VS		VS	DW			2851-1	10,11	REMOVE INSULATION FOR EXAMINATION...
SW-H-184	SW	1	F1.30.C	VST		VS	DW			2851-1	10,11	REMOVE INSULATION FOR EXAMINATION... INTEGRALLY WELDED ATTACHMENT # SW-DB-184, LUG...
SW-H-193	SW	1	F1.30.C	VS		VS	DW			2851-4	10,11	
SW-H-194	SW	1	F1.30.C	VST		VS	DW			2851-4	10,11	INTEGRALLY WELDED ATTACHMENT # SW-DB-194, LUGS...
SW-H-195	SW	1	F1.30.C	VS		VS	DW			2851-4	10,11	
SW-H-207	SW	1	F1.30.C	VS		VS	DW			2400-1	10,11	REMOVE INSULATION FOR EXAMINATION...
SW-H-214	SW	1	F1.30.C	VS		VS	DW			2400-1	10,11	REMOVE INSULATION FOR EXAMINATION...
SW-H-60	SW	1	F1.30.C	VS		VS	DW			2851-2	10,11 2	
			11	***								
SW-PB-S1	SW	1	F1.40.B	PVV		VS	DW			2852-3	10	SW PUMP "SW-P-B" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL #0180...
SW-PC-S1	SW	1	F1.40.B	PVV		VS	DW			2852-3	10	SW PUMP "SW-P-C" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL

CODE CASE N-491  
 IWF-2500-1 CAT: F-A, CLASS 3  
 SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
 INSERVICE INSPECTION PROGRAM REV: 0  
 THIRD INTERVAL

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	SOMETRIC.NO...	VT....	NEW	REMARKS.....
SW-PD-S1	SW	1	F1.40.B	PVV	VS	DW				2852-3	10		#0180... SW PUMP "SW-P-D" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL #0180...
SW-BPB-S1	SW	1	F1.40.B	PVV	VS	DW				2852-3	10		SW BOOSTER PUMP "SW-P-BPB" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL #0144...
SW-BPC-S1	SW	1	F1.40.B	PVV	VS	DW				2852-3	10		SW BOOSTER PUMP "SW-P-BPC" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL #0144...
SW-BPD-S1	SW	1	F1.40.B	PVV	VS	DW				2852-3	10		SW BOOSTER PUMP "SW-P-BPD" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL #0144...
SW-STRB-S1	SW	1	F1.40.B	PVV	VS	DW				2852-3	10		REFERENCE XXXXXX VENDER CODE FOR HSK DRAWINGS... VENDOR MANUAL #0520
SW-PA-S1	SW-A	1	F1.40.B	PVV	VS	DW				2852-3	10	1	SW PUMP "SW-P-A" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL #0180...
SW-BPA-S1	SW-A	1	F1.40.B	PVV	VS	DW				2851-6	10	1	SW BOOSTER PUMP "SW-P-BPA" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL #0144...
SW-STRA-S1	SW-A	1	F1.40.B	PVV	VS	DW				2852-3	10	3	SW STRAINER SW-STRN-A SUPPORT AND INTEGRALLY WELDED ATTACHMENT... REFERENCE ZURN INDUSTRIES

CODE CASE N-491  
IWF-2500-1 CAT: F-A, CLASS 3  
SERVICE WATER SYSTEM

COOPER NUCLEAR STATION  
INSERVICE INSPECTION PROGRAM REV: 0  
THIRD INTERVAL

HANGER..... SYSTEM CNT. ITEM.... STYPE SD SFUNCT BS.. ABS. IAS ISOMETRIC.NO... VT.... NEW REMARKS.....

INC. VENDER CODE Z0100  
FOR DRAWINGS... VENDER  
MANUAL #0520...

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17.0 INDEX OF ABBREVIATIONS

SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 1

**SYSTEM/COMPONENT  
ABBREVIATIONS**

**SYSTEM/COMPONENTS**

AH	Recirculation Loop A Hanger
ASB	Recirculation Loop A Seismic Restraint
ASS	Recirculation Loop A Seismic Restraint
BH	Recirculation Loop B Hanger
BSB	Recirculation Loop B Seismic Restraint
BSS	Recirculation Loop B Seismic Restraint
CHR	Containment Heat Removal
CRD	Control Rod Drive
CRDH	Control Rod Drive Hanger
CRDS	Control Rod Drive Seismic Restraint
CS	Core Spray (Bolting)
CSA	Core Spray Loop A
CSB	Core Spray Loop B
CSH	Core Spray Hanger
CSS	Core Spray Seismic Restraint
CUH	RWCU Hanger
CUS	RWCU Seismic Restraint
CWA	Clean-Up
CWB	RWCU Return
DH	Drain Header
FW	Feedwater
FWA	Feedwater Loop A, Nozzle N4A
FWAB	Feedwater Loops A and B
FWB	Feedwater Loop B, Nozzle N4B
FWC	Feedwater Loop C, Nozzle N4C
FWD	Feedwater Loop D, Nozzle N4D

**SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 1**

**SYSTEM/COMPONENT  
ABBREVIATIONS**

**SYSTEM/COMPONENTS**

HA	MS Hanger Loop A
HB	MS Hanger Loop B
HC	MS Hanger Loop C
HD	MS Hanger Loop D
HM	RPV Bottom Head Meridional
HMA	Bottom Head - Meridional Welds
HMB	Bottom Head - Meridional Welds
HMC	Bottom Head - Circumferential Welds
HMD	Bottom Head - Circumferential Welds
HME	Top Head - Meridional Welds
HNC	Bottom Head - Vessel Support Skirt
HPCI	High Pressure Coolant Injection
JPA	Jet Pump Instrumentation - Loop A
JPB	Jet Pump Instrumentation - Loop B
MS	Main Steam (Bolting)
MSA	Main Steam - Loop A
MSB	Main Steam - Loop B
MSC	Main Steam - Loop C
MSD	Main Steam - Loop D
MSDR	Main Steam - Drain
MSH	Main Steam Hanger
MSS	Main Steam Seismic Restraint
NB	Nuclear Boiler
NVE	Nozzle-To-Vessel
NVIR	Nozzle Vessel Inner Radius
PRA	Pressure Retaining Bolting - Studs
PRB	Pressure Retaining Bolting - Nuts
PRC	Pressure Retaining Bolting - Washers

**SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 1**

**SYSTEM/COMPONENT  
ABBREVIATIONS**

**SYSTEM/COMPONENTS**

PRD	Pressure Retaining Bolting - Bushings
PRE	Pressure Retaining Bolting - Ligaments
PRF	Ring Girder Anchor Bolts
PRG	RPV Skirt-To-Ring Girder Bolts
PSA	HPCI Steam
PWA	HPCI Water
RAH/RAD	Recirculation - Loop A Discharge
RAS	Recirculation - Loop A Suction
RBH/RBD	Recirculation - Loop B Discharge
RBS	Recirculation - Loop B Suction
RCA	CRD Return
RCIC	Reactor Core Isolation Cooling (Bolting)
RF	Reactor Feedwater Bolting
RFH	Reactor Feedwater Hanger
RFS	Reactor Feedwater Seismic Restraint
RHA	20" RHR Supply
RHB	RHR - Loop A
RHC	RHR - Loop B
RHD	6" RHR Head Spray
RHH	RHR Hanger
RHR	Residual Heat Removal (Bolting)
RHS	RHR Seismic Restraint
RR	Reactor Recirculation (Bolting)
RRA	Recirculation - Loop B
RRB	Recirculation - Loop B
RRC	Recirculation - Loop B
RRD	Recirculation - Loop B
RRE	Recirculation - Loop B

**SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 1**

**SYSTEM/COMPONENT  
ABBREVIATIONS**

**SYSTEM/COMPONENTS**

RRF	Recirculation - Loop A
RRG	Recirculation - Loop A
RRH	Recirculation - Loop A
RRJ	Recirculation - Loop A
RRK	Recirculation - Loop A
RRP	Reactor Recirculation Pump
RSA	RCIC - Steam
RVD	Reactor Vessel Drain
RVI	Reactor Vessel Instrumentation
RWA	RCIC - Water
RWCU	Reactor Water Cleanup (Bolting)
SLC	Standby Liquid Control
SLH	Standby Liquid Control Hanger
SSA	MS Seismic Restraint Loop A
SSB	MS Seismic Restraint Loop B
SSC	MS Seismic Restraint Loop C
SSD	MS Seismic Restraint Loop D
VCB	RPV Circumferential Welds
VLA	RPV Shell Course 1 Longitudinal Welds
VLB	RPV Shell Course 2 Longitudinal Welds
VLC	RPV Shell Course 3 Longitudinal Welds
VLD	RPV Shell Course 4 Longitudinal Welds

**SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 2**

**SYSTEM/COMPONENT  
ABBREVIATIONS**

**SYSTEM/COMPONENT**

BHS	Bleed Steam Hanger
BSS	Bleed Steam Seismic Restraint
CAD	Containment Atmospheric Dilution
CDS	Condensate Supply
CND	Condensate
CS	Core Spray
HPCI	High Pressure Coolant Injection
HPEX	HPCI Exhaust
MS	Main Steam
MSH	Main Steam Hanger
MSS	Main Steam Seismic Restraint
N	Nitrogen Primary Containment Bolting
OG	Off Gas
PNC	Nitrogen Primary Containment System
PSA	HPCI Steam
PVH	Process Vent Hanger
PVS	Process Vent Seismic Restraint
RAS	RHR Loop A, Steam
RAW	RHR Loop A, Suction Bypass, Torus Test Line and Torus Spray
RBS	RHR Loop B, Steam
RBW	RHR Loop B, Water
RCC/REC	Reactor Equipment Cooling
RCIC	Reactor Core Isolation Cooling
RCT	RHR Cross Tie
RHA	RHR 20" Supply
RHB	RHR Loop A - Water

**SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 2**

**SYSTEM/COMPONENT  
ABBREVIATIONS**

**SYSTEM/COMPONENT**

RHC	RHR Loop B - Water
RHD	6" RHR Head Spray
RHE	Containment Spray Loop B
RHF	RHR Heat Exchanger Flange Bolting
RHG	Containment Spray Loop A
RHH	RHR Hanger
RHR	RHR Heat Exchangers
RHRA	RHR Pump A Strainer, Bolting
RHRB	RHR Pump B Strainer, Bolting
RHRC	RHR Pump C Strainer, Bolting
RHRD	RHR Pump D Strainer, Bolting
RHS	RHR Seismic Restraint
RPA	RHR Pump, A Loop
RPB	RHR Pump, B Loop
RPC	RHR Pump, C Loop
RPD	RHR Pump, D Loop
RSA	RCIC - Steam
RWA	RCIC - Water
RWCU	Reactor Water Cleanup
SDN	Scram Discharge Volume, North Header
SDS	Scram Discharge Volume, South Header
SGTS	Standby Gas Treatment System
SW	Service Water
TDA	Torus Drain, Loop A
TDB	Torus Drain, Loop B
TH	Torus Hanger



**SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 3**

**SYSTEM/COMPONENT  
ABBREVIATIONS**

**SYSTEM/COMPONENTS**

FPC	Fuel Pool Cooling and Cleanup
HPCI	High Pressure Coolant Injection
REC	Reactor Equipment Cooling
SLC	Standby Liquid Control
SW	Service Water
VR	Radioactive Vents

MISCELLANEOUS COMPONENT ABBREVIATIONS

<u>COMPONENT ABBREVIATIONS</u>	<u>COMPONENT DESCRIPTION</u>
B	Branch
BHD	Bottom Head
BLT	Bolting
BU	Bushings
C	Circumferential
CAP	Cap
CH	Channel Side
COU	Coupling
DOM	Dome
DR	Distributor Ring
DREB	Distributor Ring End Bottom
DRET	Distributor Ring End Top
E	Elbow
F	Flange
FH	Flued Head
H	Hanger
HOU	CRD Housing
HSL	Hanger - Shear Lug
IA	Elbow Inside Arc Seam
L	Lug
LIG	Ligaments
LL	Lifting Lug
LS	Longitudinal Seam
M	Meridional
N	Nozzle
NIR	Nozzle Inner Radius
NT	Nut
OA	Elbow Outside Arc Seam

MISCELLANEOUS COMPONENT ABBREVIATIONS

<u>COMPONENT ABBREVIATIONS</u>	<u>COMPONENT DESCRIPTION</u>
OR	Orifice
P	Pipe
PC	Containment
PED	Concrete Pedestal
PU	Pump
R, RED	Reducer
RE	Reducing Elbow
RGB	Ring Girder Bolts
RP	Reinforcing Plate
RT	Reducing Tee
SAD	Saddle
SB	Snubber
SE	Safe End
SH	Shell Side
SHB	Shell Bottom
SHF	Shell Flange
SHT	Shell Top
SK	RPV Support Skirt
SOL	Sock-O-Let
SP	Support
SS	Shock Suppressor
SSL	Snubber - Shear Lug
ST	Stud
STB	CRD Stub Tube
STN	Stanchion
THD	Top Head
TS	Tube Sheet
TSB	Tube Sheet Bottom

MISCELLANEOUS COMPONENT ABBREVIATIONS

COMPONENT  
ABBREVIATIONS

COMPONENT DESCRIPTION

TST	Tube Sheet Top
V, VA	Valve
VE	Vessel
4W	Four-Way Cross
WA	Washer
WE	Weldolet
VEL	Velocity Limiter

**HANGER AND SUPPORT ABBREVIATIONS**

<b><u>FIELD</u></b>	<b><u>ABBREVIATION</u></b>	<b><u>DESCRIPTION</u></b>
ABS	<u>Attachment to Building Structure</u>	
	B	Bolted
	W	Welded
APRC	<u>Attachment to Pressure Retaining Component</u>	
	B	Bolted
	HG	Hanger
	NA	Not Attached
	PC	Primary Containment Penetration
	PI	Pipe
	PU	Pump
	VA	Valve
	VE	Vessel
	W	Welded
BS	<u>Building Structure</u>	
	CB	Concrete Beam
	CC	Concrete Ceiling
	CF	Concrete Floor
	CW	Concrete Wall
	CWC	Concrete Wall and Ceiling
	CWF	Concrete Wall and Floor
	DW	Drywell
	EP	Embedment Plate
	FH	Flued Head
	SSL	Stainless Steel Liner
	SS	Structural Steel
	TRS	Torus

HANGER AND SUPPORT ABBREVIATIONS

<u>FIELD</u>	<u>ABBREVIATION</u>	<u>DESCRIPTION</u>
HSK	<u>Sketch/Drawing Number of Hanger</u>	
	BZ Prefix	Stone & Webster Drawing Vendor
	KE Prefix	Kaiser Engineers Drawing Vendor
	B Prefix	Berg Patterson Drawing Vendor
	SK Prefix	ITT Grinnell Drawing Vendor
	Suffix E0855	EDS Drawing Vendor
	Suffix N	NPPD Drawing
IAS	<u>Intermediate Attachment of Support</u>	
	B	Bolted
	W	Welded
SD	<u>Support Design</u>	
	HS	Horizontal Support
	LS	Lateral Support
	VS	Vertical Support
SF	<u>Support Function</u>	
	DW	Dead Weight
	DWS	Dead Weight Sliding
	HS	Horizontal Support
	INS	Insulation Protection
	SS	Stanchion Sliding
	VS	Vertical Support



### HANGER AND SUPPORT ABBREVIATIONS

<u>FIELD</u>	<u>ABBREVIATION</u>	<u>DESCRIPTION</u>
ST	<u>Support Type</u>	
	CS	Constant Support
	CST	Constant Support Trapeze
	HS	Hydraulic Snubber
	MS	Mechanical Snubber
	PVV	Pumps, Valves and Vessel Supports
	RB	Rigid Brace
	RBF	Restraint Box Frame
	RBT	Rigid Brace Trapeze
	RH	Rod Hanger
	RHT	Rod Hanger Trapeze
	RPR	Rod Hanger Pipe Roll
	RSF	Restraint Structural Frame
	STN	Stanchion
	SWB	Sway Brace
	SWS	Sway Strut
	VL	Velocity Limiter
	VS	Variable Spring
	VST	Variable Spring Trapeze

### HANGER AND SUPPORT ABBREVIATIONS

<u>FIELD</u>	<u>ABBREVIATION</u>	<u>DESCRIPTION</u>
BLDG	<u>Building/Location</u>	
	CONT	Containment
	CTRL	Control Building
	DW	Drywell
	HP	HPCI Pump Room
	NEQ	Northeast Quad
	NPC	North Pipe Chase
	R-RB	Reactor Building
	SEQ	Southeast Quad
	SPC	South Pipe Chase
	SWB	Service Water Building
	TB	Torus Bottom
	TT	Torus Top
	TURB	Turbine Building
	SWQ	Southwest Quad
	NWQ	Northwest Quad

**JOINT-TYPE ABBREVIATIONS**

<b><u>JOINT-TYPE ABBREVIATIONS</u></b>	<b><u>DESCRIPTION</u></b>
BW	Butt Weld
LW	Lap Joint
SW	Socket Weld
TW	T-Joint
Clad	Clad
NIR	Nozzle Inner Radius
NVE	Nozzle to Vessel

## MATERIAL SPECIFICATION ABBREVIATIONS

<u>Mat. Spec. Abbreviations</u>	<u>Material Specification Description</u>
P-1	Seamless carbon steel: ASTM-A-106-GR-B and USAS B36.10
P-2	Seamless carbon steel: ASTM-A-33-GR-1 and USAS B36.10 - by electric furnace process with Charpy "V" notch tests @ -20° F and 15 ft-lbs.
P-3	Electric fusion welded carbon steel: ASTM-A-155-CL-1 KC-70 plate to ASTM-A-516-GR-70 plate, fire box quality.
P-4	Electric fusion welded carbon steel: ASTM-A-155-CL-1 KC-50 plate to ASTM-A-285-GR-B plate, fire box quality.
P-5	Seamless carbon steel: ASTM-A-53 GR-B and USAS B36.10.
P-6	Electric resistance welded carbon steel: ASTM-A-53-GR-B Type E and USAS B36.10.
P-7	Seamless carbon steel (galvanized): ASTM-A-53 GR-B and USAS B36.10.
P-8	Electric fusion welded carbon steel: ASTM-A-155-CL-II C-50 plate to ASTM-A-285-GR-B plate, fire box quality, designed to ASA B31.1.0 & Para. UG-28 of ASME Section VIII with 0.120" corrosion allowance.
P-9	Electric resistance welded carbon steel: ASTM-A-135-GR-A and USAS B36.10.
P-10	Seamless galvanized carbon steel: ASTM-A-120 and USAS B36.10
P-11	Seamless alloy steel: ASTM-A-335-GR-P-11 and USAS B36.10.
P-12	Seamless & welded austenitic stainless steel: ASTM-A-312-GR-TP304 and USAS B36.10.
P-13	Electric fusion butt welded straight seam carbon steel AWWA-C-201 & ASTM-A-134 plate to ASTM-A-283-GR-C pipe.
P-14	Seamless and welded austenitic stainless steel: ASTM-A-312-GR-TP316 and USAS B36.19.
P-15	Seamless austenitic stainless steel pipe: ASTM-A-376-GR-TP304 plate.

**MATERIAL SPECIFICATION ABBREVIATIONS**

<b><u>Mat. Spec. Abbreviations</u></b>	<b><u>Material Specification Description</u></b>
P-16	Electric fusion welded austenitic chromium nickel alloy steel pipe: ASTM-A-358-GR-TP304.
P-17	Austenitic stainless steel plate: SA-358 Class 1, A240 TP304
P-18	SB-166 Inconel
P-19	SA-312 GR TP316
P-20	Nuclear grade stainless steel pipe: 316 NG
P-21	Seamless and welded austenitic stainless steel pipe: SA-312-GR-TP316L
F-1	Wrought carbon steel: ASTM-A-234-GR-WPB and USAS B16.9
F-2	Wrought carbon steel: ASTM-A-234-GR-WPC and USAS B16.9
F-3	Electric fusion welded: ASTM-A-234-GR-WPBW plate to ASTM-A-516-GR-70 fire box quality
F-4	Electric fusion welded: ASTM-A-234-GR-WPBW plate to ASTM-A-285-GR-B fire box quality
F-5	Wrought alloy steel" ASTM-A-234-GR-WP-11
F-6	Forged carbon steel: ASTM-A-234-GR-WPB forgings to ASTM-A-105-GR-2 and USAS B16.11
F-7	Wrought carbon steel: ASTM-A-105-GR-2 and USAS B16.11 and MSS-SP-49
F-8	Galvanized malleable iron: ASTM-A-197 and USAS B16.3 and B2.1
F-9	Cast bronze: ASTM-B-61 and USAS B16.15 and B2.1
F-10	Cast iron: ASTM-A-126-A and USAS B16.12
F-11	Cast Iron: ASTM-A-126-A and USAS B16.1
F-12	Wrought carbon steel: ASTM-A-234-GR-WPBW and USAS B16.9 or ASTM-A-234-GR-WPB forging to A105-GR-II and USAS B16.9
F-13	Wrought carbon steel ASTM-A-234-GR-WPBW and USAS B16.9 to match B36.10 pipe
F-14	Galvanized Cast Iron: ASTM A & B and USAS B16.1

**MATERIAL SPECIFICATION ABBREVIATIONS**

<b><u>Mat. Spec. Abbreviations</u></b>	<b><u>Material Specification Description</u></b>
F-15	Malleable iron: ASTM-A-197 and USAS B16.3 and USAS B2.1
F-16	Forged alloy steel: ASTM-A-234-GR-WP-11 to ASTM-A-182-GR-F-11 and USAS B16.11
F-17	Forged alloy steel: ASTM-A-403 to ASTM-A-182-GR-F-304 and USAS B16.11
F-18	Forged alloy steel: ASTM-A-403 to ASTM-A-182-GR-F-304 and USAS B16.11
F-19	Wrought austenitic steel: ASTM-A-403 to and USAS B16.9 Grade WP-304
F-20	Wrought austenitic steel: ASTM-A-403 to and USAS B16.9 Grade WP-316
F-21	Forged alloy steel: ASTM-A-403 to ASTM-A-182-GR-F-316 and USAS B16.11
F-22	Wrought carbon steel, seamless or welded, for low temperature service: ASTM-A-420-GR-WPLI and USAS B-16.11
F-23	Forged carbon steel: ASTM-A-420 to ASTM-A-350-GR-LFI and USAS B16.11
F-24	A-325-GR-LC
F-25	SA-216
F-26	Wrought austenitic stainless steel: SA-403-GR-WP316L
F-27	Forged austenitic stainless steel for high temperature service: SA-182-GR-F316L
RPV-1	SA-508 Class 2
RPV-2	A-508
RPV-3	A-508
S-1	RPV Stud: SA-540-GR-B24
NOTE:	Material specification abbreviations correspond with the CNS Material Specification Codings used during construction, except for material specifications greater than P-17 or F-22, and RPV-1, RPV-2, RPV-3, and S-1 which have been added.