THIRD TEN-YEAR INTERVAL INSERVICE INSPECTION PROGRAM FOR COOPER NUCLEAR STATION REVISION 1

NEBRASKA PUBLIC POWER DISTRICT

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2.0 REVISION SUMMARY SHEET

Section	Effective Page(s)	Revision	Date
1	Revised	1	3/01/96
2	Revised	1	3/01/96
3	Revised page 3-1, 3-2, and 3-10 in response to NRC comments, added NUREG-0803 and Code Case N-408-2	1	3/01/96
4	Initial Issue	0	10/18/95
5	Revised page 5-6 for Category C-G after 1995 outage	1	3/01/96
6	Revised CT-1 & 4 in response to NRC comments	1	3/01/96
7	Revised RI-06, added RI-19, 20, 21, 22, and 23.	1	3/01/96
8	Initial Issue	0	10/18/95
9	Initial Issue	0	10/18/95
10	Revised to add relief request PR-09	1	3/01/96
11	Revised FW nozzle, CS Sparger, Shroud Head Bolt information and REC Table after 1995 Outage	1	3/01/96
12	Initial Issue	0	10/18/95
13	Revised to add component drawings	1	3/01/96
14	Initial Issue	0	10/18/95
15	Initial Issue	0	10/18/95
16	Revised after 1995 outage	1	3/01/96
17	Initial Issue	0	10/18/95

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 became effective on March 1, 1996.

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 began the third interval on March 1, 1996.

3.2.2 The three inspection periods during the third inspection interval are as follows:

First Period:	March 1, 1996 to June 30, 1999
Second Period:	July 1, 1999 to October 30, 2002
Third Period:	November 1, 2002 to February 28, 2006

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 The Scram Discharge Volume is considered as Class 2 piping for examination purposes, but is pressure tested with the reactor coolant pressure boundary piping each refueling outage in accordance with GL 86-01.

3.2.3.5 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.

3.2.3.6 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.

3.2.3.7 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-408-2 - Alternative Rules for Examination of Class 2 Piping.

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

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

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.

3.4.10 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 Isometric and Component Drawings

Provides a listing of piping isometric and commponent drawings corresponding used in the developement of 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.

5.0 INSERVICE INSPECTION SUMMARY TABLE

Examination Category	Item Number	Description	Number of Components	Exam Requirements	Technical Position or Relief Request
C-F-2[1]	C5.51	Circumferential Welds in Carbon or Low Alloy Steel Piping ≥ 3/8" Nominal Wall Thickness for Piping > NPS 4	967	Volumetric & Surface	RI-02, RI-09, RI-12
	C5.52	Longitudinal Welds in Carbon or Low Alloy Steel Piping ≥ 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)	4	Surface	
C-G[2]	C6.10	Pressure Retaining Welds in Pump Casings	0	Surface	
	C6.20	Pressure Retaining Welds in Valve Bodies	16	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	4	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[3]	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.

6.0 INSERVICE INSPECTION TECHNICAL APPROACH AND POSITION INDEX/SUMMARIES

Position	Rev.	Summary
CT-01	1	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 RPV Examination Plan will be completed and implemented 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-01, REVISION 1

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 revised 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.

Procedures for the ultrasonic examination of reactor vessel weldments will comply with Code requirements and with Regulatory Guide 1.150, Revision 1. In addition, CNS intends to use tip diffraction sizing techniques in leiu of amplitude based techniques when applicable, for the evaluation of flaws detected during examination of reactor pressure vessel welds (reference CNS Letter NLS950234, dated December 4, 1995).

The District committed to use the subject regulatory guide for the ultrasonic examination and evaluation of reactor vessel welds in the August 1991 addenda to the Cooper Nuclear Station Second Ten-Year Interval Inservice Inspection Program. Since the promulgation of the regulatory guide there have been significant advances in ultrasonic examination and evaluation techniques. The regulatory guide specifies the use of amplitude based techniques for sizing flaw indications, whereas the industry has adopted the generally more accurate and repeatable tip diffraction sizing techniques for the evaluation of flaw indications. Amplitude based methods of sizing are affected by the shape, orientation, and reflectivity of a flaw. Whereas tip diffraction techniques are based on the characteristics of the flaw itself.

INSERVICE INSPECTION RELIEF REQUESTS

7.0 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 undo 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.

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	1	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.

INSERVICE INSPECTION RELIEF REQUESTS

Relief Request	Rev.	Summary
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
RI-19	0	Feedwater Nozzle-to-Vessel Welds
RI-20	0	Dissimilar Metal Butt Welds in Piping
RI-21	0	Reactor Vessel Nozzle-to-Vessel Welds
RI-22	0	Branch Pipe Connection Welds
RI-23	0	Submerged Pipe Welds

INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-06

COMPONENT IDENTIFICATION

Code Class:	1
References:	IWB-2500 Tabie 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 HMC-BB-1 VCB-BC-5-1 VCB-BC-5-2 VCB-BC-5-3

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.

Access to the bottom head circumferential weld HMC-BB-1 is limited due to the proximity of the vessel skirt. The configuration limits scanning with the 60° probe. The total composite coverage is approximately 86%.

INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-06

Access to the shell to flange circumferential weld VCB-BC-5-1, -2, & -3, is limited due to the flange configuration and the proximity of the vessel thermocouples. The configuration limits scanning with the 0°, 45°, and 60° probes. The thermocouples limit scanning with both the 45° and 60° probes. The total composite coverage is approximately 74%.

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-19, REVISION 0

COMPONENT IDENTIFICATION

Code Class:	1
References:	IWB-2420(b), Table IWB-2500-1
Examination Category:	B-D
Item Numbers:	B3.90
Description:	Nozzle-to-Vessel Welds
Component Numbers:	Feedwater Nozzles N4A, N4C, and N4D

CODE REQUIREMENT

IWB-2420(b) states that flaw indications or relevant conditions are evaluated in accordance with IWB-3142.4 and the component qualifies as acceptable for continued service, the areas containing such flaw indications or relevant conditions shall be reexamined during the next three inspection periods.

Table IWB-2500-1 requires a volumetric examination be performed on nozzle-to-vessel welds defined by the volume shown Figure IWB-2500-7.

BASIS FOR RELIEF

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

Flaw indications in Feedwater nozzle-to-vessel welds, N4A, N4C, and N4D, were identified during the 1991 refueling outage and were reexamined during the 1995 refueling outage. The flaws are attributed to construction defects and are not considered to be service induced. The fracture mechanics evaluation in 1991 found the flaws to be acceptable per IWB-3600. The reexamination in 1995 indicated that the flaws have remained essentially unchanged from the 1991 examination. The 1995 fracture mechanics evaluation shows that the flaws are acceptable for the remaining life of the plant. Radiation doses of approximately 4 Person-Rem were received during the examinations in 1995.

Since the flaws have remained essentially unchanged from the 1991 examination, the indications are acceptable per Subarticle IWB-3600 of ASME Section XI, and the fracture mechanics analysis shows the indications to be acceptable for the remaining life of the plant, additional successive examinations as required by Paragraph IWB-2420(b) of the Code are not warranted. Furthermore, additional exposures of approximately 8 Person-Rem would be experienced during the performance of these examinations over the next two inspection periods.

INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-19, REVISION 0

PROPOSED ALTERNATE EXAMINATION

CNS will perform the volumetric examination of Feedwater nozzle-to-vessel welds N4A, N4C, and N4D, once during the third ten-year interval in accordance with Table IWB-2500-1.

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-20, REVISION 0

COMPONENT IDENTIFICATION

Code Class:	1
References:	IWB-2420(b), Table IWB-2500-1
Examination Category:	B-F
Item Numbers:	B5.130
Description:	Dissimilar Metal Butt Welds in Piping
Component Numbers:	Weld RVD-BF-14.

CODE REQUIREMENT

Table IWB-2500-1 requires a surface examination to be performed on dissimilar metal butt welds in piping $\leq$ 4 inches defined by the areas in Figure IWB-2500-8.

BASIS FOR RELIEF:

A rigid support is located adjacent to this 2 inch NPS stainless steel to carbon steel butt weld in the reactor drain line. The design of the support does not permit disassembly without cutting the support members. The support limits access to one side of the weld crown such that only ¼ inch of the adjacent base metal can be examined. The total surface examined is approximately 83%.

PROPOSED ALTERNATIVE:

In lieu of performing the Code required examinations, CNS proposes to examine the accessible portions of weld RVD-BF-14.

INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-21, REVISION 0

COMPONENT IDENTIFICATION

Code Class:	1
References:	IWB-2500 Table IWB-2500-1
Examination Category:	B-D
Item Numbers:	B3.90, B3.100
Description:	Reactor Vessel Nozzle-to-Vessel Welds
Component Numbers:	N1A, N1B, N2A, N2B, N2C, N2D, N2E, N2F, N2G, N2H, N2J, N2K, N3A, N3B, N3C, N3D, N4A, N4B, N4C, N4D, N5A, N5B, N6A, N6B, N7, N8A, N8B, and N9.

CODE REQUIREMENT

Table IWB-2500-1 requires a volumetric examination of the reactor vessel nozzle-to-vessel 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 practical. The configuration of the nozzles, the design of the vessel insulation support rings and the nozzle access hatches, and interferences from thermocouple pads, instrument lines, etc. prevents 100% examination of the required weld volumes. Alternate angles were used to the extent practical to increase the volume examined. The extent of the nozzle restrictions and the total volume examined is summarized on table RI-21-1.

PROPOSED ALTERNATE EXAMINATION

In lieu of performing the Code required examinations, CNS proposes to examine the accessible portions of reactor vessel nozzle-to-vessel 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 TABLE RI-21-1, REVISION 0

Nozzle Number	Nozzle Description	Access Restrictions	% Examined
N1A,B	Recirculation Inlet	Nozzle configuration, and insulation support frame	32%
N2A-H, J&K	Recirculation Outlet	Nozzle configuration, and insulation support frame	40%
N3A-D	Main Steam	Nozzle configuration	35%
N4A&C	Feedwater	Nozzle configuration, insulation support frame, thermocouple pads, and Instrument Nozzles N11A&B	27%
N4B&D	Feedwater	Nozzle configuration, insulation support frame, and thermocouple pads	31%
N5A,B	Core Spray	Nozzle configuration, insulation support frame, and thermocouple pads	31%
N6A,B	Top Head Spray	Nozzle configuration	58%
N7	Top Head Vent	Nozzle configuration	30%
N8A,B	Jet Pump Instrumentation	Nozzle configuration, and insulation support frame	76%
N9	CRD Return Nozzle and Inner Radius	Nozzle configuration, and insulation support frame	70%

INSERVICE INSPECTION RELIEF REQUESTS

RELIEF REQUEST NUMBER: RI-22, REVISION 0

COMPONENT IDENTIFICATION

Code Class:	1
References:	IWB-2500 Table IWB-2500-1
Examination Category:	B-J
Item Numbers:	B9.31
Description:	Branch Pipe Connection Welds
Component Numbers:	Welds FWA-BJ-81, RAS-BJ-10, and RBS-BJ-6A

CODE REQUIREMENT

Table IWB-2500-1 requires a surface and volumetric examination to be performed on branch pipe connection welds ≥ 4 inches defined by the areas in Figure IWB-2500-10.

BASIS FOR RELIEF

The configuration of the 8 inch branch weldolet to 18 inch pipe weld FWA-BJ-81, prevents complete ultrasonic examination of the code required volume. The configuration of the weldolet prevents examination from the branch side of the weld and limits the examination to one direction from the other side. No supplemental examinations to increase the coverage were possible. The total volume examined is approximately 82%.

The configuration of the 6 inch branch to 20 inch elbow weld RAS-BJ-10, prevents complete ultrasonic examination of the code required volume. The branch connection is welded to the extrado of the elbow. The angle between the branch connection and the elbow changes as the probe is scanned circumferentially around the branch. Where the angle is most acute, the sound can not reach the root of the weld and the configuration of the branch prohibits the use of larger angles. Supplemental examinations were performed to increase the coverage. The total volume examined is approximately 82%.

The configuration of the 4 inch branch weldolet to 28 inch pipe weld RBS-BJ-6A, prevents complete ultrasonic examination of the code required volume. The configuration of the weldolet prevents examination from the branch side of the weld and limits the examination to one direction from the other side. No supplemental examinations to increase the coverage were possible. The total volume examined is approximately 67%.

PROPOSED ALTERNATE EXAMINATION

In lieu of performing the Code required examinations, CNS proposes to examine the accessible portions of branch connection welds FWA-BJ-81, RAS-BJ-10, and RBS-BJ-6A.

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-23, REVISION 0

COMPONENT IDENTIFICATION

Code Class:	2
References:	IWC-2500 Table IWC-2500-1
Examination Category:	C-F-2
Item Numbers:	C5.51
Description:	Submerged Pipe Welds
Component Numbers:	Welds RWA-CF-10, RWA-CF-11, and RWA-CF-12

CODE REQUIREMENT

Table 2 of Code Case N-408-2 requires a surface and volumetric examination to be performed on circumferential pipe welds ≥ 4 inches defined by the areas in Figure IWC-2500-7.

BASIS FOR RELIEF

The RCIC suction strainer is 6 inch NPS Schedule 80. The strainer is located in the Torus and is submerged in the suppression pool. The welds on the strainer are inaccessible during a normal refueling outage because the Torus is not normally drained. RCIC is normally supplied from the emergency condensate storage tanks. The suppression pool is an alternate source of water. The maximum pressure the suction piping would experience in a design basis event is 58 psig. Suppression pool temperature would not exceed 200°F

Since the suction piping in the Torus is an alternate supply for RCIC, operates at less than 275 psig and less then 200°F, and is not accessible during a normal refueling outage, the submerged welds on the suction piping should be exempt from NDE.

PROPOSED ALTERNATE EXAMINATION

In lieu of performing the Code required examinations, CNS proposes to examine the accessible welds on the RCIC suction piping.

APPLICABLE TIME PERIOD

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

RELIEF REQUEST NUMBER: PR-09, REVISION 0

COMPONENT IDENTIFICATION

Code Classes:	2
References:	IWA-5211
Examination Categories:	C-H
Item Numbers:	C7.40
Description:	All pressure retaining components within each system boundary to be subjected to a system hydrostatic pressure test.
Component Numbers:	HPCI and RCIC Discharge Piping

CODE REQUIREMENT

IWA-5211(d) and Code Case N-498 require the pressure retaining components within each system boundary to be subjected to a system hydrostatic pressure test.

BASIS FOR RELIEF

The HPCI and RCIC systems discharge through check valves into separate loops of the Feedwater system, and then through the associated Feedwater check valves to the Reactor Vessel. The Class 2 to Class 1 boundaries of these systems are the HPCI and RCIC check valves. Since these valves will open when the system pressure is higher than the reactor pressure, these valves can not serve as the boundaries for the Class 2 system hydrostatic pressure tests. The maintenance isolation valves on the Feedwater system can not be used for the test boundary since they are located between the inboard Feedwater check valves and the reactor. The Class 2 hydrostatic test pressure would exceed the Class 1 hydrostatic test pressure for these components.

There is an isolation valve on each system upstream of the HPCI and RCIC injection check valves. These valves can be used for the Class 2 pressure test boundaries. The piping down stream of these valves up to the check valves can be tested with the Class 1 piping.

PROPOSED ALTERNATE PROVISIONS

In lieu of performing a Class 2 system hydrostatic pressure test on the HPCI and RCIC discharge piping between the injection check valve and the upstream isolation valve, CNS shall hydrostatically pressure test these sections of piping each interval with the Class 1 pressure test per Table IWB-2500, Category B-P and Code Case N-498.

APPLICABLE TIME PERIOD

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

10.0 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 MSRV Discharge Piping.
PR-09	0	Alternate Testing for HPCI and RCIC Discharge Piping

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.	March 96
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.)	March 96
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
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

TAB	DESCRIPTION	REVISION DATE
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)	March 96
11.12	Augmented Inservice Inspection (UT) requirements for the REC system required by CNS CR94-0485.	March 96
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)	March 96
11.14	Visual examination (VT) of the Steam Separator, once per Inspection Interval as described by the CNS Invessel Visual Examination Procedure.	March 96
11.15	Ultrasonic Inspection (UT) of the Core Shroud per BWRVIP and GL 94-03. (Supersedes GE SIL No. 572 and RICSIL No. 68)	March 96
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
11.19	Visual Inspection of Jet Pump Riser Brace (VT) each inspection period. (Reference: GE SIL No 551)	July 95
11.20	Visually inspect (VT-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.

NUREG 0619 REQUIRED EXAMINATIONS

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 applicable General Electric procedures. The feedwater nozzle UT examinations will be reperformed as shown above during the Third Inservice Inspection Interval.

11.2 CORE SPRAY SPARGER AND PIPING

REFERENCES: 1. U.S. NRC IE Bulletin 80-13, Visual Inspection of Core Spray Spargers

2. Letter, J. H. Mueller to U.S. NRC, dated November 22, 1995, subject: Visual Inspection of Core Spray Spargers.

Visual examination (VT-1) of the Core Spray spargers and associated piping will be performed each refueling outage in accordance with Reference 1. As reported in Reference 2, three crack-like indications, and two suspect indications were identified in the Fall 1995 refueling outage. These indications will be reinspected during the Spring 1997 Refueling outage.

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, 1993, and 1995 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
° 1995 Refueling Outage	SHB #15, #19, #29, #30, #32, #36

Total Replaced (As of End of 1995 Outage): 17 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.

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° 1991 Refueling Outage	SHB #2, #27, #35
° 1993 Refueling Outage	SHB # None
° 1995 Refueling Outage	SHB #15, #19, #29, #30, #32, #36

Total Replaced (As of End of 1995 Outage): 17 SHBs

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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	1997-C
2848-1	WN	8"	BUTT WELD	1997-S
2848-2	W100	10"	BUTT WELD	1997-S
2848-2	W103	10"	BUTT WELD	2001-S
2848-2	W104	10"	BUTT WELD	2000-C
2848-2	W105	10"	BUTT WELD	1998-S
2848-2	W106	6"	BUTT WELD	1997-S
2848-2	W107	10"	BUTT WELD	1997-C
2848-2	W108	6"	BUTT WELD	1997-S
2848-2	W109	10"	BUTT WELD	1997-C
2848-2	W110	6"	BUTT WELD	1997-S
2848-2	W111	10"	BUTT WELD	2000-S
2848-2	W113	6"	BUTT WELD	2000-S
2848-2	W114	12"	BUTT WELD	2000-S
2848-2	W115	12"	BUTT WELD	2001-C
2848-2	W116	12"	BUTT WELD	2001-C
2848-2	W117	12"	BUTT WELD	2001-C
2848-2	W12	8"	BUTT WELD	2001-C
2848-2	W13	12"	BUTT WELD	2003-S
2848-2	W14	8"	BUTT WELD	1997-S
2848-2	W15	8"	BUTT WELD	1997-S
2848-2	W16	12"	BUTT WELD	2001-S
2848-2	W18	12"	BUTT WELD	1997-C
2848-2	W19	12"	BUTT WELD	1997-C
2848-2	W20	12"	BUTT WELD	1997-C
2848-2	W21	12"	BUTT WELD	1997-C
2848-2	W22	12"	BUTT WELD	2003-S
2848-2	W23	12"	BUTT WELD	1998-S
2848-2	W24	12"	BUTT WELD	1998-S
2848-2	W25	12"	BUTT WELD	1998-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-2	W26	12"	BUTT WELD	2003-S
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	2001-C
2848-2	W30	12"	BUTT WELD	1997-S
2848-2	W31	16"	BUTT WELD	2003-S
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	2001-S
2848-2	W39	12"	BUTT WELD	1998-C
2848-2	W4	6"	BUTT WELD	2000-C
2848-2	W40	12"	BUTT WELD	1998-C
2848-2	W44	16"	BUTT WELD	2004-S
2848-2	W45	12"	BUTT WELD	2003-S
2848-2	W47	12"	BUTT WELD	2001-S
2848-2	W48	6"	BUTT WELD	1997-C
2848-2	W49	12"	BUTT WELD	2000-S
2848-2	W5	8"	BUTT WELD	1997-S
2848-2	W50	12"	BUTT WELD	2000-S
2848-2	W51	12"	BUTT WELD	1997-S
2848-2	W53	12"	BUTT WELD	1997-S
2848-2	W54	12"	BUTT WELD	1997-S
2848-2	W55	6"	BUTT WELD	2000-C
2848-2	W58	6"	BUTT WELD	2000-C
2848-2	W59	6"	BUTT WELD	2001-S
2848-2	W6	8"	BUTT WELD	2001-S
2848-2	W61	6"	BUTT WELD	1997-C

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-2	W62	4"	BUTT WELD	1998-S
2848-2	W63	4"	BUTT WELD	1998-S
2848-2	W64	4"	BUTT WELD	1998-S
2848-2	W65	4"	BUTT WELD	1998-S
2848-2	W69	6"	BUTT WELD	2001-S
2848-2	W7	6"	BUTT WELD	1998-C
2848-2	W70	6"	BUTT WELD	2001-S
2848-2	W72	4"	BUTT WELD	1997-C
2848-2	W73	4"	BUTT WELD	2001-S
2848-2	W74	6"	BUTT WELD	1998-S
2848-2	W76	12"	BUTT WELD	2000-S
2848-2	W77	6"	BUTT WELD	2000-S
2848-2	W78	12"	BUTT WELD	2000-S
2848-2	W79	12"	BUTT WELD	2001-C
2848-2	W81	10"	BUTT WELD	2000-S
2848-2	W82	12"	BUTT WELD	2000-C
2848-2	W83	12"	BUTT WELD	2000-C
2848-2	W84	12"	BUTT WELD	2000-C
2848-2	W85	12"	BUTT WELD	2000-C
2848-2	W87	12"	BUTT WELD	2000-S
2848-2	W88	12"	BUTT WELD	2000-S
2848-2	W89	12"	BUTT WELD	2003-S
2848-2	W9	8"	BUTT WELD	2001-S
2848-2	W91	12"	BUTT WELD	2001-C
2848-2	W92	12"	BUTT WELD	2001-C
2848-2	W93	12"	BUTT WELD	2001-S
2848-2	W94	12"	BUTT WELD	2001-S
2848-2	W95	12"	BUTT WELD	2000-C
2848-2	W97	10"	BUTT WELD	1998-C
2848-2	W98	10"	BUTT WELD	1998-C
2848-2	W99	10"	BUTT WELD	1998-S
2848-2	WAA	6"	BUTT WELD	1998-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-2	WB	8"	BUTT WELD	1998-C
2848-2	WC	8"	BUTT WELD	2001-C
2848-2	WE	8"	BUTT WELD	1998-C
2848-2	WG	8"	BUTT WELD	2001-S
2848-2	WH	8"	BUTT WELD	2001-S
2848-2	WI	8"	BUTT WELD	1998-S
2848-2	WJ	8"	BUTT WELD	2001-S
2848-2	WM	12"	BUTT WELD	2001-S
2848-2	WN	12"	BUTT WELD	2000-C
2848-2	WO	4"	BUTT WELD	1997-S
2848-2	WP	4"	BUTT WELD	1997-S
2848-2	WR	4"	BUTT WELD	1997-S
2848-2	WT	4"	BUTT WELD	1997-S
2848-2	WU	6"	BUTT WELD	1998-S
2848-2	WV	6"	BUTT WELD	1997-C
2848-2	WX	6"	BUTT WELD	1998-S
2848-2	WY	6"	BUTT WELD	1998-S
2848-2	WZ	6"	BUTT WELD	1997-C
2848-7	WB	6"	BUTT WELD	2001-S
2848-7	WC	6"	BUTT WELD	2000-S
2848-7	WFA	6"	BUTT WELD	2000-S
2848-7	WFB	3"	BUTT WELD	1998-C
2848-8	W1	8"	BUTT WELD	2000-C
2848-8	W10	8"	BUTT WELD	2000-S
2848-8	W11	8"	BUTT WELD	2000-S
2848-8	W12	8"	BUTT WELD	2000-S
2848-8	W2	8"	BUTT WELD	2000-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

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-8	W8	8"	BUTT WELD	2000-C
2848-8	W9	8"	BUTT WELD	2000-S
2848-8	WE	8"	BUTT WELD	2001-C
2848-8	WG	8"	BUTT WELD	1997-C
2848-8	WH	8"	BUTT WELD	1997-C
2848-8	WM	8"	BUTT WELD	1997-C
2848-8	WN	10"	BUTT WELD	1997-S
2848-9	W10	4"	BUTT WELD	1998-S
2848-9	W13	4"	BUTT WELD	1998-S
2848-9	W14	4"	BUTT WELD	1998-S
2848-9	W15	4"	BUTT WELD	1998-S
2848-9	W16	4"	BUTT WELD	2204-S
2848-9	W18	4"	BUTT WELD	1998-S
2848-9	W20	4"	BUTT WELD	2001-S
2848-9	W21	4"	BUTT WELD	2000-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	W26	4"	BUTT WELD	2000-C
2848-9	W28	3"	BUTT WELD	2003-S
2848-9	W29	3"	BUTT WELD	2000-C
2848-9	W30	3"	BUTT WELD	2000-C
2848-9	W32	3"	BUTT WELD	1998-C
2848-9	W33	3"	BUTT WELD	1998-C
2848-9	W35	3"	BUTT WELD	1997-C
2848-9	W37	3"	BUTT WELD	1998-S
2848-9	W38	3"	BUTT WELD	1998-S
2848-9	W4	4"	BUTT WELD	2000-S
2848-9	W41	3"	BUTT WELD	1997-S
2848-9	W42	4"	BUTT WELD	1998-S
2848-9	W43	4"	BUTT WELD	2000-C
2848-9	W45	4"	BUTT WELD	2000-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-9	W46	4"	BUTT WELD	2000-C
2848-9	W47	4"	BUTT WELD	2000-C
2848-9	W48	4"	BUTT WELD	2000-C
2848-9	W49	4"	BUTT WELD	2000-C
2848-9	W5	4"	BUTT WELD	2001-S
2848-9	W50	4"	BUTT WELD	1997-S
2848-9	W51	4"	BUTT WELD	1997-S
2848-9	W53	4"	BUTT WELD	1997-S
2848-9	W54	4"	BUTT WELD	2000-S
2848-9	W56	4"	BUTT WELD	1998-S
2848-9	W57	4"	BUTT WELD	2000-C
2848-9	W58	4"	BUTT WELD	1998-C
2848-9	W59	4"	BUTT WELD	1998-C
2848-9	W6	4"	BUTT WELD	2001-S
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	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
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

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-9	W8	4"	BUTT WELD	1997-S
2848-9	W82	3"	BUTT WELD	2001-C
2848-9	W83	3"	BUTT WELD	2001-S
2848-9	W85	4"	BUTT WELD	1998-C
2848-9	W86	4"	BUTT WELD	2000-S
2848-9	W87	4"	BUTT WELD	2000-S
2848-9	W88	4"	BUTT WELD	1997-C
2848-9	W9	4"	BUTT WELD	2000-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	2000-S
2848-9	WH	3"	BUTT WELD	1998-S
2848-9	WJ	3"	BUTT WELD	1997-S
2848-9	WO	3"	BUTT WELD	2000-C
2848-9	WT	4"	BUTT WELD	1998-C
2848-9	WU	4"	BUTT WELD	2000-C
2848-9	WV	4"	BUTT WELD	1997-S
2848-9	WW	4"	BUTT WELD	1997-C
2848-9	WX	4"	BUTT WELD	2000-S
2848-9	WZ	3"	BUTT WELD	2003-S
2848-14	W1	16"	BUTT WELD	1997-S
2848-14	W12	6"	BUTT WELD	2000-C
2848-14	W13	6"	BUTT WELD	2000-C
2848-14	W16	6"	BUTT WELD	1997-C
2848-14	W2	16"	BUTT WELD	1998-S
2848-14	W22	6"	BUTT WELD	1997-S
2848-14	W25	16"	BUTT WELD	2001-S
2848-14	W27	4"	BUTT WELD	1997-C
2848-14	W33	4"	BUTT WELD	1997-S
2848-14	W35	4"	BUTT WELD	1997-C
2848-14	W36	4"	BUTT WELD	1998-C

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
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	1998-S
2848-14	W41	4"	BUTT WELD	2000-S
2848-14	W42	4"	BUTT WELD	1998-S
2848-14	W45	12"	BUTT WELD	1997-S
2848-14	W48	12"	BUTT WELD	1997-S
2848-14	W5	6"	BUTT WELD	1998-C
2848-14	W55	12"	BUTT WELD	2003-S
2848-14	W57	12"	BUTT WELD	2003-S
2848-14	W58	12"	BUTT WELD	1997-C
2848-14	W59	12"	BUTT WELD	1997-C
2848-14	W6	6"	BUTT WELD	2000-S
2848-14	W60	12"	BUTT WELD	1998-S
2848-14	W61	8"	BUTT WELD	2000-C
2848-14	W64	10"	BUTT WELD	2000-S
2848-14	W65	4"	BUTT WELD	1997-C
2848-14	W66	4"	BUTT WELD	2001-S
2848-14	W7	6"	BUTT WELD	1998-C
2848-14	W9	6"	BUTT WELD	1998-C
2848-14	WB	6"	BUTT WELD	1998-C
2848-14	WE	4"	BUTT WELD	1998-S
2848-14	WH	6"	BUTT WELD	1997-S
2848-15	W1	4"	BUTT WELD	1998-C
2848-15	W10	4"	BUTT WELD	2001-S
2848-15	W12	3"	BUTT WELD	2000-S
2848-15	W13	3"	BUTT WELD	1998-S
2848-15	W14	3"	BUTT WELD	2001-S
2848-15	W17	3"	BUTT WELD	2001-S
2848-15	W18	3"	BUTT WELD	1998-S
2848-15	W19	3"	BUTT WELD	2001-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-15	W2	4"	BUTT WELD	1998-C
2848-15	W22	3"	BUTT WELD	1998-S
2848-15	W23	4"	BUTT WELD	2001-S
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	1998-S
2848-15	W30	4"	BUTT WELD	2001-S
2848-15	W31	4"	BUTT WELD	2001-S
2848-15	W33	4"	BUTT WELD	2001-S
2848-15	W34	4"	BUTT WELD	1997-C
2848-15	W36	3"	BUTT WELD	1997-S
2848-15	W37	3"	BUTT WELD	1997-S
2848-15	W4	4"	BUTT WELD	2000-S
2848-15	W5	4"	BUTT WELD	2000-S
2848-15	W6	4"	BUTT WELD	2000-S
2848-15	W7	4"	BUTT WELD	2000-S
2848-15	W8	4"	BUTT WELD	2000-S
2848-15	W9	4"	BUTT WELD	2000-S
2848-15	WB	4"	BUTT WELD	2000-S
2848-15	WC	3"	BUTT WELD	2003-S
2848-15	WFC	3"	BUTT WELD	2001-S
2848-15	WG	3"	BUTT WELD	1997-S
2848-15	WJ	3"	BUTT WELD	1997-S
2848-16	W1	3"	BUTT WELD	2000-S
2848-16	W10	3"	BUTT WELD	1998-C
2848-16	W13	3"	BUTT WELD	2001-S
2848-16	W14	3"	BUTT WELD	2000-S
2848-16	W15	3"	BUTT WELD	2003-S
2848-16	W16	3"	BUTT WELD	2001-S
2848-16	W17	2 1/2"	BUTT WELD	1998-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-16	W18	2 1/2"	BUTT WELD	2000-S
2848-16	W19	2 1/2"	BUTT WELD	2000-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	W29	4"	BUTT WELD	2001-S
2848-16	W31	4"	BUTT WELD	1997-C
2848-16	W32	3"	BUTT WELD	1998-S
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	W4	3"	BUTT WELD	2000-S
2848-16	W5	3"	BUTT WELD	1997-S
2848-16	W50	3"	BUTT WELD	2001-S
2848-16	W51	3"	BUTT WELD	1997-C
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	2000-S
2848-16	W61	2 1/2"	BUTT WELD	2000-S
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	2000-S
2848-16	W68	4"	BUTT WELD	1998-C
2848-16	W7	3"	BUTT WELD	1998-S
2848-16	W72	4"	BUTT WELD	2001-S
2848-16	W73	4"	BUTT WELD	2001-S
2848-16	W75	4"	BUTT WELD	1997-S
2848-16	W76	4"	BUTT WELD	1997-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-16	W77	4"	BUTT WELD	1997-C
2848-16	W78	4"	BUTT WELD	1997-C
2848-16	W8	3"	BUTT WELD	1998-S
2848-16	W80	3"	BUTT WELD	1997-C
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-C
2848-16	WC	3"	BUTT WELD	2003-S
2848-16	WE	3"	BUTT WELD	1998-S
2848-16	WG	3"	BUTT WELD	1997-C
2848-16	WH	2 1/2"	BUTT WELD	1997-S
2848-16	WM	2 1/2"	BUTT WELD	2000-S
2848-16	WN	2 1/2"	BUTT WELD	1997-C
2848-16	WO	4"	BUTT WELD	2000-C
2848-16	WP	4"	BUTT WELD	2000-C
2848-21	AJ	2-1/2"	BUTT WELD	1993-C
2848-21	W10	2 1/2"	BUTT WELD	1998-S
2848-21	W2	2 1/2"	BUTT WELD	1997-C
2848-21	W4	2 1/2"	BUTT WELD	1998-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	WI	2 1/2"	BUTT WELD	2000-C
2848-21	WJ	2 1/2"	BUTT WELD	2001-C
2848-22	W1	3"	BUTT WELD	1998-S
2848-22	W10	3"	BUTT WELD	1997-S
2848-22	W12	3"	BUTT WELD	2001-S
2848-22	W14	3"	BUTT WELD	2003-S
2848-22	W16	3"	BUTT WELD	2000-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-22	W18	3"	BUTT WELD	2003-S
2848-22	W19	3"	BUTT WELD	1998-C
2848-22	W20	3"	BUTT WELD	2000-S
2848-22	W21	3"	BUTT WELD	2000-S
2848-22	W23	3"	BUTT WELD	2000-S
2848-22	W3	3"	BUTT WELD	2000-S
2848-22	W7	3"	BUTT WELD	1997-S
2848-22	W9	3"	BUTT WELD	1997-C
2848-22	WB	3"	BUTT WELD	2003-S
2848-22	WE	3"	BUTT WELD	1998-C
2848-22	WFA	3"	BUTT WELD	2001-S
2848-50	W1	4"	BUTT WELD	1997-S
2848-50	W2	4"	BUTT WELD	1997-S
2848-50	WA	4"	BUTT WELD	2000-C
2848-50	WB	4"	BUTT WELD	2000-S
2848-50	WF	4"	BUTT WELD	2001-S
2848-50	WFG	4"	BUTT WELD	2000-C
2848-50	WG	4"	BUTT WELD	2001-S
2848-50	WJ	4"	BUTT WELD	2000-S
2848-50	WL	4"	BUTT WELD	2000-S
2848-50	WM	4"	BUTT WELD	2000-C
2848-51	WAL	8"	BUTT WELD	1998-C
2848-51	WCB	8"	BUTT WELD	2000-C
2848-51	WCC	8"	BUTT WELD	2001-C
2848-51	WW	8"	BUTT WELD	2000-S
2848-51	WX	8"	BUTT WELD	1997-S
2848-51	WZ	8"	BUTT WELD	1997-C
2848-54	W1	2 1/2"	BUTT WELD	1998-S
2848-54	W10	2 1/2"	BUTT WELD	2001-S
2848-54	W11	2 1/2"	BUTT WELD	2003-S
2848-54	W12	2 1/2"	BUTT WELD	2001-S
2848-54	W13	2 1/2"	BUTT WELD	2001-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-54	W16	2 1/2"	BUTT WELD	2003-S
2848-54	W17	2 1/2"	BUTT WELD	2203-S
2848-54	W18	2 1/2"	BUTT WELD	1997-C
2848-54	W19	2 1/2"	BUTT WELD	1997-C
2848-54	W2	2 1/2"	BUTT WELD	2003-S
2848-54	W20	2 1/2"	BUTT WELD	2003-C
2848-54	W21	2 1/2"	BUTT WELD	2003-S
2848-54	W25	2 1/2"	BUTT WELD	2003-S
2848-54	W26	2 1/2"	BUTT WELD	2003-S
2848-54	W27	2 1/2"	BUTT WELD	2000-S
2848-54	W28	2 1/2"	BUTT WELD	1998-S
2848-54	W29	2 1/2"	BUTT WELD	2000-C
2848-54	W3	2 1/2"	BUTT WELD	2004-S
2848-54	W30	2 1/2"	BUTT WELD	2001-C
2848-54	W4	2 1/2"	BUTT WELD	1998-C
2848-54	W5	2 1/2"	BUTT WELD	2000-C
2848-54	W6	2 1/2"	BUTT WELD	1997-S
2848-54	W7	2 1/2"	BUTT WELD	2000-S
2848-54	W8	2 1/2"	BUTT WELD	2001-C
2848-54	W9	2 1/2"	BUTT WELD	2001-S
2848-55	W1	3"	BUTT WELD	2003-S
2848-55	W10	3"	BUTT WELD	2000-C
2848-55	W14	3"	BUTT WELD	2003-S
2848-55	W15	3"	BUTT WELD	2000-C
2848-55	W16	3"	BUTT WELD	2003-S
2848-55	W17	3"	BUTT WELD	1998-S
2848-55	W18	3"	BUTT WELD	2000-S
2848-55	W19	3"	BUTT WELD	2001-S
2848-55	W2	3"	BUTT WELD	2000-S
2848-55	W20	3"	BUTT WELD	2001-S
2848-55	W21	3"	BUTT WELD	2000-C
2848-55	W22	3"	BUTT WELD	2001-C

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-55	W25	3"	BUTT WELD	2003-S
2848-55	W26	3"	BUTT WELD	2000-C
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	2000-S
2848-55	W4	3"	BUTT WELD	1997-S
2848-55	W5	3"	BUTT WELD	1997-S
2848-55	W6	3"	BUTT WELD	2001-C
2848-55	W7	3"	BUTT WELD	2000-C
2848-55	W8	3"	BUTT WELD	2000-C
2848-55	W9	3"	BUTT WELD	2000-C
2848-56	W1	3"	BUTT WELD	1997-S
2848-56	W10	3"	BUTT WELD	2000-S
2848-56	W11	3"	BUTT WELD	2001-C
2848-56	W12	3"	BUTT WELD	2000-C
2848-56	W13	3"	BUTT WELD	2000-S
2848-56	W14	3"	BUTT WELD	2003-S
2848-56	W15	3"	BUTT WELD	2003-C
2848-56	W16	3"	BUTT WELD	2003-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"	BUTT WELD	2003-S
2848-56	W20	3"	BUTT WELD	2001-C
2848-56	W21	3"	BUTT WELD	2000-C
2848-56	W25	3"	BUTT WELD	2000-C
2848-56	W26	3"	BUTT WELD	2001-C
2848-56	W27	3"	BUTT WELD	2000-C
2848-56	W28	3"	BUTT WELD	2003-S
2848-56	W29	3"	BUTT WELD	2001-C
2848-56	W3	3"	BUTT WELD	1997-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-56	W30	3"	BUTT WELD	2001-C
2848-56	W31	3"	BUTT WELD	1998-S
2848-56	W4	3"	BUTT WELD	2003-S
2848-56	W5	3"	BUTT WELD	1997-S
2848-56	W6	3"	BUTT WELD	1997-C
2848-56	W7	3"	BUTT WELD	1997-C
2848-56	W8	3"	BUTT WELD	2000-S
2848-56	W9	3"	BUTT WELD	2000-S
2848-57	W1	2 1/2"	BUTT WELD	1997-S
2848-57	W12	2 1/2"	BUTT WELD	2004-S
2848-57	W13	2 1/2"	BUTT WELD	1998-C
2848-57	W14	2 1/2"	BUTT WELD	2004-S
2848-57	W15	2 1/2"	BUTT WELD	1998-C
2848-57	W16	2 1/2"	BUTT WELD	2004-S
2848-57	W17	2 1/2"	BUTT WELD	2001-S
2848-57	W18	2 1/2"	BUTT WELD	2001-S
2848-57	W19	2 1/2"	BUTT WELD	2003-S
2848-57	W2	2 1/2"	BUTT WELD	1998-C
2848-57	W20	2 1/2"	BUTT WELD	2001-S
2848-57	W21	2 1/2"	BUTT WELD	2003-S
2848-57	W22	2 1/2"	BUTT WELD	2004-S
2848-57	W23	2 1/2"	BUTT WELD	2000-C
2848-57	W24	2 1/2"	BUTT WELD	2003-S
2848-57	W25	2 1/2"	BUTT WELD	2003-S
2848-57	W26	2 1/2"	BUTT WELD	2001-C
2848-57	W27	2 1/2"	BUTT WELD	2001-S
2848-57	W28	2 1/2"	BUTT WELD	2003-C
2848-57	W29	2 1/2"	BUTT WELD	2003-C
2848-57	W3	2 1/2"	BUTT WELD	2000-S
2848-57	W30	2 1/2"	BUTT WELD	2001-S
2848-57	W31	2 1/2"	BUTT WELD	1998-S
2848-57	W32	2 1/2"	BUTT WELD	2000-S

ISO NUMBER	WELD NUMBER	SIZE	WELD TYPE	SCHEDULE
2848-57	W34	2 1/2"	BUTT WELD	2003-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	2004-S
2848-57	W7	2 1/2"	BUTT WELD	2001-S
2848-57	W9	2 1/2"	BUTT WELD	2004-S

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 jet pump examinations.

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 visual examination of the seperator.

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.
4. Letter dated December 8, 1995, J. M. Mueller to USNRC: Core Shroud Inspection Results.
5. GENE-523-113-0894 dated March 1995, "BWR Core Shroud Inspection and Flaw Evaluation Guidelines".

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 examination was completed and the results provided in Reference 4. Indications found during the inspection were evaluated and accepted in accordance with Reference 5. The frequency and extent of future examinations of the Core Shroud have not been determined at this time.

13.0 LIST OF APPLICABLE ISOMETRIC AND COMPONENT DRAWINGS

Burns and Roe P&ID No.	Applicable Isometric No.
Containment Ventillation	Jelco RCO-755-1 and 2
Control Rod Drive Hydraulic System No. 2039	RC Dwg CP-009 S&W Dwg 13095.19-EP-1A-2 and 13095.19-EP-1B-2
Core Spray System No. 2045, Sheet 1 of 2	Jelco 2501-1, 2502-1, 2602-1 and 2, 2603-1 through 4
High Pressure Coolant Injection and Reactor Feed Systems, No. 2044	Jelco 2509-1 and 2, 2601-1 through 6, 2612-2, 2614-3, 2623-2 and 3, X2623-207, 2710-1 and 2, 2716-1
Main Steam System-Reactor Building No. 2041	GE Dwg 731E611, Sheet 4 of 8 Jelco 2506-1 through 3, X2506-201, 2601-2 and 3, 2614-2, 2628-1 through 6, 2629-2 and 50
Reactor Building and Drywell Equipment Drain System, No. 2028	Jelco X2512-200 Jelco 2628-1 through 6
Reactor Core Isolation Cooling and Reactor Feed Systems, No. 2043	Jelco 2509-1, 2614-1, 2619-1, 2621-1 and 2, 2623-1, 2715-5
Reactor Equipment Cooling Water System, No. 2031	Jelco 2048-1,2, 4, 7, 8, 9, 14, 15, 16, 21, 22, 50, 51, 52, 54, 55, 56, and 57 Jelco X2848-200 through 206
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. 731E225, BA-3, BN-3, and BH-4 Yarway Dwgs. 021-043112 and 021-102726
Reactor Vessel	GE 731E-306, 197R576, BA-3, BA-4, and BN-3, CE Dwgs. 232-231, 235-5, 239, 241-5242, 244, and 249
Reactor Vessel Instrumentation No. 2026	Jelco X2506-204, X2507-204, 204A, 205, 206A, 207, 208, 218, 219, 220, 300, and 301

Burns and Roe P&ID No.	Applicable Isometric No.
Reactor Water Cleanup System No. 2042, Sheet 1 of 3	Jelco 2503-1 and X2503-200 GE 141c7063, 7064. 7065, 7090, and 774E826
Residual Heat Removal System No. 2040	Jelco 2510-1, 3, and 4, 2511-1, 2512-1, 2624-1, 2, 3A, 3B, 3C, 4, 5, 6 and 7, 2625-1 through 4, 2626-1, 2, 3, 4, and 6 SWECO Dwg H-82454
Service Water System No. 2006	Jelco 2852-3, X2852-241 X2852-242, 2824-3, 2852-20, and 226, 2851-6 and 7, 2852-16, 18, 19, 53, and 223
Service Water System No. 2036	Jelco 2852-5, 6, 7, 8, 9, 10, 22, 23, 50 54, 55 and 57, 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
Standby Liquid Control System No. 2045, Sheet 2 of 2	Jelco X2504--200 and 201
Miscellanous	Kaiser 110.01

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 scheduled to be examined during the third interval. 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 data 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.

Cooper Nuclear Station
NRC Docket No. 50-298
License No. DPR-46

ATTACHMENT C

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	MT	UT0	UT45	UT60	PER	RELREQ	REMARKS
HMC-BB-1	NB	1	B1.21	BHD-C	218	3.5	RPV 1	15	GE.BA-3,BA-4	1	1	1	2	RI-06	0 TO 360 DAZ...	
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...	
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	***													
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	1	2			
HMA-BB-6	NB	1	B1.22	BHD-M	218	3.5	RPV 1	15	GE.BA-3,BA-4	1	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			
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-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			
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			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	WBI.CAL	ISO	MT	UT0	UT45	UT60	PER	RELREQ	REMARKS
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	RI-06	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	RI-06	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	RI-06	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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COOPER NUCLEAR STATION
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THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	MT	UT0	UT45	UT60	PER	RELREQ	REMARKS
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-1	NB	1	B1.11	VE-C	218	3.2/7.2	RPV 1	15/16	GE.BN-3		1	1	1	2	RI-06	
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-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 * PARTIALLY 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 * PARTIALLY 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 * PARTIALLY 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	RI-06	
VLD-BB-2	NB	1	B1.12	VE-LS	218	6.2	RPV 1	16	GE.BN-3		1	1	1	3		
VLD-BB-3	NB	1	B1.12	VE-LS	218	6.2	RPV 1	16	GE.BN-3		1	1	1	3	RI-06	
		12	***													

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	W81.CAL...	ISO.....	PT..	UT0..	UT45....	UT60....	PER	RELREQ	REMARKS.....
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-N3A	NB	1	B3.100	NIR	24	---	RPV 1	22,26	GE.731E611			3		1		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-N3C	NB	1	B3.100	NIR	24	---	RPV 1	16	GE.731E611			3		3		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	12	---	RPV 1	16	CE.232-231	14		3,31	3,31	2		NUREG 0619... UT IN LIEU OF PT F91... CA-COMPOUND ANGLE...
NVIR-BD-N4B	NB	1	B3.100	NIR	12	---	RPV 1	16	CE.232-231	14		3,31	3,31	1		NUREG 0619... UT IN LIEU OF PT F91... CA-COMPOUND ANGLE...
NVIR-BD-N4C	NB	1	B3.100	NIR	12	---	RPV 1	16	CE.232-231	14		3,31	3,31	3		NUREG 0619... UT IN LIEU OF PT F91... CA-COMPOUND ANGLE...
NVIR-BD-N4D	NB	1	B3.100	NIR	12	---	RPV 1	16	CE.232-231	14		3,31	3,31	1		NUREG 0619... UT IN LIEU OF PT F91... CA-COMPOUND ANGLE...
NVIR-BD-N5A	NB	1	B3.100	NIR	10	---	RPV 1	22,28	CE.232-231			3		2		CA - COMPOUND ANGLE
NVIR-BD-N5B	NB	1	B3.100	NIR	10	---	RPV 1	16	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, ALSO REF: GE DWG BA-3 AND BA-4
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-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-N8A	NB	1	B3.100	NIR	5	---	RPV 1	22,29	CE.232-241			13		2		CA - COMPOUND ANGLE (LOC. DW. 928' 105 DAZ)

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	UT0	UT45	UT60	PER	RELREQ	REMARKS
NVIR-BD-N8B	NB	1	B3.100	NIR	5	---	RPV 1	16	CE.232-241			13		3		CA - COMPOUND ANGLE (N8B NOZ) LOC. DW 928' 285 DAZ, ALSO REF: GE DWG BA-2 AND BN-3
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
		28	***													
NVE-BD-N1A	NB	1	B3.90	N-VE	28	7.2	RPV 1	16	CE.232-231	1	1	1	1	RI-21		
NVE-BD-N1B	NB	1	B3.90	N-VE	28	7.2	RPV 1	16	CE.232-231	1	1	1	3	RI-21		
NVE-BD-N2A	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	3	RI-21		
NVE-BD-N2B	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	3	RI-21		
NVE-BD-N2C	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	1	RI-21		
NVE-BD-N2D	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	3	RI-21		
NVE-BD-N2E	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	2	RI-21		
NVE-BD-N2F	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	1	RI-21		
NVE-BD-N2G	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	1	RI-21		
NVE-BD-N2H	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	1	RI-21		
NVE-BD-N2J	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	2	RI-21		
NVE-BD-N2K	NB	1	B3.90	N-VE	12	7.2	RPV 1	16	CE.232-231	1	1	1	2	RI-21		
NVE-BD-N3A	NB	1	B3.90	N-VE	24	6.2	RPV 1	16	GE.731E611	1	1	1	1	RI-21		
NVE-BD-N3B	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	GE.731E611	1	1	1	2	RI-21		
NVE-BD-N3C	NB	1	B3.90	N-VE	24	6.2	RPV 1	16	GE.731E611	1	1	1	3	RI-21		
NVE-BD-N3D	NB	1	B3.90	N-VE	24	6.2	RPV 1	16	GE.731E611	1	1	1	2	RI-21		
NVE-BD-N4A	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	CE.232-231	30	30	30	2	RI-21		
NVE-BD-N4B	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	CE.232-231	30	30	30	1	RI-21		
NVE-BD-N4C	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	CE.232-231	30	30	30	3	RI-21		

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COOPER NUCLEAR STATION
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PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	UT0	UT45	UT60	PER	RELREQ	REMARKS
NVE-BD-N4D	NB	1	B3.90	N-VE	12	6.2	RPV 1	16	CE.232-231	30	30	30	1	RI-21		
NVE-BD-N5A	NB	1	B3.90	N-VE	10	6.2	RPV 1	16	CE.232-231	1	1	1	2	RI-21		(N5A NOZ) LOC. DW. 962' 90 DAZ
NVE-BD-N5B	NB	1	B3.90	N-VE	10	6.2	RPV 1	16	CE.232-231	1	1	1	3	RI-21		(N5B NOZ) LOC. DW. 962' 270 DAZ
NVE-BD-N6A	NB	1	B3.90	N-VE	6	3.2	RPV 1	15	CE.232-244	1	1	1	3	RI-21		(N6A NOZ) RPV TP.HD 0 DAZ, ALSO REF: GE DWG BA-3 AND BA-4
NVE-BD-N6B	NB	1	B3.90	N-VE	6	3.2	RPV 1	15	CE.232-244	1	1	1	2	RI-21		(N6B NOZ) RPV TP.HD 180 DAZ
NVE-BD-N7	NB	1	B3.90	N-VE	6	3.2	RPV 1	15	CE.232-244	1	1	1	1	RI-21		(N7 NOZ) RPV TP.HD, CENTER OF TP.HD
NVE-BD-N8A	NB	1	B3.90	N-VE	5	7.2	RPV 1	16	CE.232-241	1	1	1	2	RI-21		(N8A NOZ) LOC. DW. 928' 105 DAZ
NVE-BD-N8B	NB	1	B3.90	N-VE	5	7.2	RPV 1	16	CE.232-241	1	1	1	3	RI-21		(N8B NOZ) LOC. DW. 928' 285 DAZ, ALSO REF: GE DWG BA-2 AND BN-3
NVE-BD-N9	NB	1	B3.90	N-VE	5	6.2	RPV 1	16	CE.232-242	1	1	1	3	RI-21		(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

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COOPER NUCLEAR STATION
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THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	WB1.CAL	ISO	PT	UT0	UT45	UT60	PER	RELREQ	REMARKS
RVI-BB-12A1	NBI	1		CHB-CHB			F-304		X2507-219			22				(N-12A NOZ) 2A CONSTANT HEAD CHAMBER, ALSO REF: YARWAY DWG 021-043112, THESE WELDS EXEMPT SINCE THE PIPING ENTERING THE CHAMBERS IS SIZE EXEMPT BASED ON MAKE-UP FLOW CALCULATIONS PER IWB-1220 (A)
RVI-BB-12B1	NBI	1		CHB-CHB			F-304		X2507-218			22				(N-12B NOZ) 2B CONSTANT HEAD CHAMBER, ALSO REF: YARWAY DWG 021-043112, THESE WELDS ARE EXEMPT SINCE THE PIPING ENTERING THE CHAMPERS ARE EXEMPT BASED ON LINE SIZE AND THE MAKE-UP FLOW CALCULATION PER IWB-1220 (A)
		2	***													
NVIR-BD-N1A	NB	1	B3.100	NIR	28	---	RPV 1	22,24	CE.232-231			3		1		CA - COMPOUND ANGLE
NVIR-BD-N1B	NB	1	B3.100	NIR	28	---	RPV 1	16	CE.232-231			3		3		CA - COMPOUND ANGLE
NVIR-BD-N2A	NB	1	B3.100	NIR	12	---	RPV 1	16	CE.232-231			3	3	3		CA - COMPOUND ANGLE
NVIR-BD-N2B	NB	1	B3.100	NIR	12	---	RPV 1	16	CE.232-231			3	3	3		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-N2D	NB	1	B3.100	NIR	12	---	RPV 1	16	CE.232-231			3	3	3		CA - COMPOUND ANGLE
NVIR-BD-N2E	NB	1	B3.100	NIR	12	---	RPV 1	22,25	CE.232-231			3		2		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

IWB-2500-1 CAT: B-F

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	UT0	UT45	UT60	PER	RELREQ	REMARKS
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,UT0,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,UT0,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,UT0,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
RCA-BF-1	NB	1	B5.10	N-C	5.25	160	P18/RP	20	CE.232-242	7		28,29		3		(N9 NOZ) GL 88-01, CAP MAT. IS NI.GR.FE AND INCONEL 182 WITH INCONEL 82 WELD FILLER METAL...
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
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)
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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	UT0	UT45	UT60	PER	RELREQ	REMARKS
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
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	60/52/121	CNS-RR-38	7		28,29		3		N2A
RRB-BF-1	RR-B	1	B5.10	SE-N	14	1.187	P20/RP	60/52/121	CNS-RR-38	7		28,29		3		N2B
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
RRD-BF-1	RR-B	1	B5.10	SE-N	14	1.187	P20/RP	60/52/121	CNS-RR-38	7		28,29		3		N2D
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
		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...
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
RAD-BF-7	RR-A	1	B5.130	P-P	24	1.218	P20/P3	55/106	CNS-RR 37	7		6,26		3		FROM RHR "A"... INCLUDE'S INTERSECTION OF ADJ. LS RAD-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		(TO RHR) INCLUDE'S INTERSECTION OF ADJ. LS RHA-BJ-3A (C.S.PIPE SIDE)...
RBD-BF-7	RR-B	1	B5.130	P-P	24	1.218	P20/P3	55/106	CNS-RR-38	7		6,26		2		FROM RHR "B"... INCLUDE'S INTERSECTION OF ADJ. LS RBD-BJ-40A (C.S.PIPE SIDE)
		5	***													
RVD-BF-14	NBD	1	B5.140	P-P	2	.218	CS-SS	N/A	X2512-200	7				3	RI-20	REMOVE SUPPORT RRH-20 TO ACCESS WELD FOR EXAMINATION

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	UT0	UT45	UT60	PER RELREQ	REMARKS
		1	***												
***		23													

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

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
PSA-BJ-1	MS	1	B9.11	WOL-E	10	.719	F1	77	2506-1		16		6		2	
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-17*	MS	1	B9.11	P-E	10	.719	P1	78	2506-1	7	16		6		3	* FORMER PIPE WHIP EXAM
PSA-BJ-18*	MS	1	B9.11	E-P	10	.719	P1	78	2506-1	7	16		6		3	* FORMER PIPE WHIP EXAM
PSA-BJ-2	MS	1	B9.11	E-P	10	.719	P1	78	2506-1		16		6		2	
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		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-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			
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 LENGHT OF LS IS 6.5"...
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-111	MS-A	1	B9.11	N-SE	24	1.593	P3	115	GE731E611-4		16		6		2	
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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	WB1.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-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(IA), AND MSA-BJ-2B(OA). TOTAL LENGTH OF LS MAS-BJ-1A IS 6.5" !!
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-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(IA), MSA-BJ-2B(OA), AND MSA-BJ-3A
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) AND MSA-BJ-29B(OA)
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(IA) AND MSA-BJ-35B(OA)... MSH-167, HA-3...

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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(IA) AND MSA-BJ-35B(OA)... MSH-167, HA-3...
MSA-BJ-38	MS-A	1	B9.11	P-VA	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			
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-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-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-7	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-5A AND MSA-BJ-7A
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-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-111	MS-B	1	B9.11	N-SE	24	1.593	P3	115	GE731E611-4	7	16	6	6		1	
MSB-BJ-14	MS-B	1	B9.11	SWL-P	6"	.719"	P1	3	GE731E611-4	7	16	6	6			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-2	MS-B	1	B9.11	P-E	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-1A
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-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 INTERSECTION OF ADJ. LS MSB-BJ-28A(IA) AND MSB-BJ-28B(OA) HB-3, MSH-168
MSB-BJ-29*	MS-B	1	B9.11	E-E	24	1.219	P3	106	GE731E611-4	7	16		6		1	* 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-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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-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 MSB-BJ-4A
MSB-BJ-42	MS-B	1	B9.11	FH-P	24	1.219	P1	106	GE731E611-4	7	16	6	6		2	
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-6	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-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)
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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
MSC-BJ-11	MS-C	1	B9.11	P-E	24"	1.219"	P3	106	GE731E611-4	7	16	6	6			MSC-BJ-1A INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-7A, MSC-BJ-11A(IA), AND MSC-BJ-11B(OA)
MSC-BJ-111	MS-C	1	B9.11	N-SE	24	1.593	P3	115	GE731E611-4		16	6	6		3	
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-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-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 LS MSC-BJ-13A, MSC-BJ-26A(IA), AND MSC-BJ-26B(OA)
MSC-BJ-27	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-26A(IA) AND MSC-BJ-26B(OA)
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 MSC-BJ-2A (IA), MSC-BJ-2B (OA), AND MSC-BJ-3A
MSC-BJ-32	MS-C	1	B9.11	P-E	24	1.219	P3	106	GE731E611-4	7	16		6		1	INCLUDE'S INTERSECTION OF ADJ. LS MSC-BJ-32A(IA)

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
																AND MSC-BJ-32B(OA), HC-3,MSH-169
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-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-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-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
MSD-BJ-1*	MS-D	1	B9.11	SE-P	24	1.219	P3	106	GE731E611-4		16		6		2	* FORMER PIPE WHIP

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
																EXAM... INCLUDE'S INTERSECTION OF ADJ. LS MSD-BJ-1A, TOTAL LENGTH OF LS IS 6.5"...
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(IA), AND MSD-BJ-10B(OA)
MSD-BJ-111	MS-D	1	B9.11	N-SE	24	1.593	P3	115	GE731E611-4	7	16	6	6		2	
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(IA), 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-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(IA), AND MSD-BJ-2B(OA)
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-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(IA), MSD-BJ-2B(OA), AND MSD-BJ-3A
MSD-BJ-30	MS-D	1	B9.11	P-F	6"	.719"	P1	3	GE731E611-4	7	16	6	6			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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(IA), 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 ADJ. LS MSD-BJ-33A(IA) AND MSD-BJ-33B(OA)
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-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-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-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-D	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-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-50	MS-D	1	B9.11	FH-P	24	1.219	P1	106	GE731E611-4	7	16	6	6		3	
MSD-BJ-52	MS-D	1	B9.11	P-VA	24"	1.219"	P1	106	GE731E611-4	7	16	6	6			
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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG.	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
																ADJ. LS MSD-BJ-5A AND MSD-BJ-7A
		116	***													
RSA-BJ-1	MS	1	B9.21	WOL-E	3	.438	P1	N/A	2506-2	7	16				1	
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-13A	MS	1	B9.21	P-FH	3"	.438"	P1		2506-2	7	16					INACCESSIBLE, INSIDE CONTAINMENT PENETRATION X-10...
RSA-BJ-14	MS	1	B9.21	FH-P	3	.438	P1	N/A	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-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					
RSA-BJ-2	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-20	MS	1	B9.21	E-P	3"	.438"	P1		2506-2	7	16					
RSA-BJ-21	MS	1	B9.21	P-VA	3	.438	P1	N/A	2506-2	7	16				3	
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-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-9	MS	1	B9.21	P-E	3"	.438"	P1		2506-2	7	16					
MSDR-BJ-1	MSDR	1	B9.21	CAP-P	3"	160	P1		2506-3	7	16					
MSDR-BJ-2	MSDR	1	B9.21	P-V	3	.438	P1	N/A	2506-3	7	16				2	MS-MO-74
MSDR-BJ-3	MSDR	1	B9.21	V-P	3"	.438"	P1		2506-3	7	16					MS-MO-74

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
MSDR-BJ-4	MSDR	1	B9.21	FH-P	3	.438	P1	N/A	2506-3	7	16				2	
MSDR-BJ-5	MSDR	1	B9.21	P-P	3"	.438"	P1		2506-3	7	16					
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...
		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		2	
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-21	MS-C	1	B9.31	P-SWL	24-6	1.219	P1	106	GE731E611-4	7	16	6	6			
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	***													

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
***		158														

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

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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
RHD-BJ-1	NB	1	B9.11	F-N	6"	120	F22		CE.232-244	7	16	6	6			N6A TOP-HD (0 DAZ)
		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-16	NBD	1	B9.21	E-P	2	.218	SS	N/A	X2512-200	7					3	
RVD-BJ-17	NBD	1	B9.21	P-E	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-18	NBD	1	B9.21	E-P	2	.218	SS	N/A	X2512-200	7					3	
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-26	NBD	1	B9.21	T-P	2	.218	SS	N/A	X2512-200	7					1	
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						
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-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-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
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:

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	WB1.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RVI-BJ-1682	NBI	1	B9.21	SE-P	2"	.218"	P12	N/A	X2507-218	7						CE DWG 232-242 (N-16B NOZ) ALSO RFE: CE DWG 232-242
		19	***													
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					
RVD-BJ-23	NBD	1	B9.40	P-V	2	.218	SS	N/A	X2512-200	7					1	
RVD-BJ-24	NBD	1	B9.40	V-P	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-25	NBD	1	B9.40	P-V	2	.218	SS	N/A	X2512-200	7					1	
RVD-BJ-29	NBD	1	B9.40	P-T	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-30	NBD	1	B9.40	T-R	2"	.218"	SS	N/A	X2512-200	7						
RVD-BJ-31	NBD	1	B9.40	T-P	2	.218	SS	N/A	X2512-200	7					1	
RVD-BJ-32	NBD	1	B9.40	P-V	2	.218	SS	N/A	X2512-200	7					1	
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					
RVI-BJ-11A3	NBI	1	B9.40	P-R	1.5"	.200"	P12	N/A	X2507-219	7						(N-11A NOZ)
RVI-BJ-11B3	NBI	1	B9.40	P-R	2X1	.218	P12	N/A	X2507-218	7					3	
RVI-BJ-16A3	NBI	1	B9.40	P-COU	2"	.218"	P12	N/A	X2507-219	7						
RVI-BJ-16A4	NBI	1	B9.40	COU-R	2"X1.5	.218"	F-304	N/A	X2507-219	7						
RVI-BJ-16A5	NBI	1	B9.40	I-P	1.5	.200	P12	N/A	X2507-219	7					3	
RVI-BJ-16A6	NBI	1	B9.40	P-E	1.5"	.200"	P12	N/A	X2507-219	7						
RVI-BJ-16A7	NBI	1	B9.40	E-P	1.5"	.200"	P12	N/A	X2507-219	7						
RVI-BJ-16A8	NBI	1	B9.40	P-T	1.5"	.200"	P12	N/A	X2507-219	7						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	7						
RVI-BJ-16B4	NBI	1	B9.40	COU-R	2"X1.5	.218"	P12	N/A	X2507-218	7						
RVI-BJ-16B5	NBI	1	B9.40	I-P	1.5	.200	P12	N/A	X2507-218	7					3	

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RVI-BJ-1686	NBI	1	B9.40	P-E	1.5"	.200"	P12	N/A	X2507-218	7						
RVI-BJ-1687	NBI	1	B9.40	E-P	1.5"	.200"	P12	N/A	X2507-218	7						
RVI-BJ-1688	NBI	1	B9.40	P-T	1.5"	.200"	P12	N/A	X2507-218	7						OFF 2B TEMP. EQUAL. COL., ALSO REF: YARWAY DWG 021-043112
		27	***													
***		49														

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
CORE SPRAY SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	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-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-1	CS-A	1	C5.51	N-E	16	.375	P1		2603-1	7	16				1	
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					

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
CORE SPRAY SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
CSA-CF-2	CS-A	1	C5.51	E-E	16"	.375"	F1		2603-1	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-25A	CS-A	1	C5.51	PU-R	8"	.322"	F1		2602-2	7	16					CS PUMP-1A
CSA-CF-26	CS-A	1	C5.51	T-E	12"	.375"	P1		2602-2	7	16	6	6			
CSA-CF-28	CS-A	1	C5.51	E-V	12	.375	F1	130	2602-2	7	16	6	6		3	
CSA-CF-29	CS-A	1	C5.51	V-P	12	.375	P1	130	2602-2	7	16	6	6		3	
CSA-CF-3	CS-A	1	C5.51	E-P	16	.375	P1		2603-1	7	16				1	
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-4	CS-A	1	C5.51	P-E	16"	.375"	P1		2603-1	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-42	CS-A	1	C5.51	E-P	12	.375	P1		2602-2	7	16	6	6		2	
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			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
CORE SPRAY SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UTO	UT45	UT60	PER	REMARKS
CSA-CF-5	CS-A	1	C5.51	E-P	16"	.375"	P1		2603-1	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-53	CS-A	1	C5.51	P-E	12"	.375"	P1		2602-2	7	16	6	6		2	
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-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			
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: C-F... FORMERLY CLASS 1 CAT: B-J...
CSB-BJ-31	CS-B	1	C5.51	VA-P	10"	.719	P2		2501-1	7	16	6	6			BOUNDARY CHANGE NOW CONSIDERED CLASS CAT: C-F... FORMERLY CLASS 1 CAT: B-J...
CSB-CF-1	CS-B	1	C5.51	N-E	16"	.375"	F1		2603-2	7	16	6	6			
CSB-CF-100	CS-B	1	C5.51	P-P	12"	.375"	P1		2602-1	7	16	6	6			FLOW ORIFICE
CSB-CF-101	CS-B	1	C5.51	P-P	12"	.375"	P1		2602-1	7	16	6	6			FLOW ORIFICE
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			CS-LV-67
CSB-CF-15	CS-B	1	C5.51	V-P	14"	.375"	P1		2603-2	7	16	6	6		2	CS-LV-67
CSB-CF-16	CS-B	1	C5.51	P-V	14"	.375"	P1		2603-2	7	16	6	6			CS-MO-7B
CSB-CF-17	CS-B	1	C5.51	V-P	14	.375	P1	131	2603-2	7	16	6	6		3	CS-MO-7B

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
CSB-CF-18	CS-B	1	C5.51	P-T	14"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-19	CS-B	1	C5.51	T-PU	14"	.438"	F1		2603-2	7	16	6	6			CS PUMP-1B
CSB-CF-1B	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-2	CS-B	1	C5.51	E-E	16"	.375"	F1		2603-2	7	16	6	6			
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-3	CS-B	1	C5.51	E-P	16"	.375"	P1		2603-2	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-33	CS-B	1	C5.51	E-V	12	.375	F1	130	2602-1	7	16	6	6		3	
CSB-CF-34	CS-B	1	C5.51	V-P	12	.375	P1	130	2602-1	7	16	6	6		3	
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			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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"	P1		2602-1	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-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			
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-6	CS-B	1	C5.51	E-P	16"	.375"	P1		2603-2	7	16	6	6			
CSB-CF-60	CS-B	1	C5.51	E-E	12"	.375"	P1		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-7	CS-B	1	C5.51	P-E	16"	.375"	P1		2603-2	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-9	CS-B	1	C5.51	E-P	16"	.375"	P1		2603-2	7	16	6	6			

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CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
HPCI SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	WB1.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
HPID-CF-1	HPCI	1	C5.51	PU-R	10	.719	F1	77	2609-1	7	16	6	6		3	HPCI PUMP
HPID-CF-10	HPCI	1	C5.51	P-P	14"	.938"	P1		2609-1	7	16	6	6			
HPID-CF-10A	HPCI	1	C5.51	P-F	14	.938	P1	89	2609-1	7	16	6	6		3	
HPID-CF-12	HPCI	1	C5.51	P-P	14"	.938"	P1	89	2609-1	7	16	6	6			
HPID-CF-12A	HPCI	1	C5.51	F-P	14"	.938"	P1		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-14	HPCI	1	C5.51	E-P	14	.938	P1		2609-1	7	16	6	6		2	
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-2	HPCI	1	C5.51	R-E	14"	.938"	F1	89	2609-1	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-3	HPCI	1	C5.51	E-P	14	.938	P1	89	2609-1	7	16	6	6		3	
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			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
HPCI SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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
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-54	HPCI	1	C5.51	P-E	14"	1.093"	P1/F1	89	2623-3		16		6		2	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-6	HPCI	1	C5.51	P-E	14"	.938"	P1/F1		2609-1	7	16	6	6			
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-7	HPCI	1	C5.51	E-P	14"	.938"	F1/P1		2609-1	7	16	6	6			
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					

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
HPCI SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-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-14	HPCI	1	C5.51	P-V	16	.375	P1		2611-6	7	16				1	HPCI-LV-12
HPIS-CF-15	HPCI	1	C5.51	V-E	16"	.375"	F1		2611-6	7	16					HPC1-LV-12
HPIS-CF-16	HPCI	1	C5.51	E-V	16"	.375"	F1		2611-6	7	16				1	HPCI-MO-58
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-1B	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-2	HPCI	1	C5.51	E-E	16"	.375"	F1		2611-6	7	16	6	6			
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-3	HPCI	1	C5.51	E-P	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			
HPIS-CF-34	HPCI	1	C5.51	P-PU	14	.375	P1		2611-6	7	16	6	6		2	HPIC PUMP
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			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
		96	***													
***		96														

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
MAIN STEAM SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-1	MS	1		T-F	8"	.322"	F1	N/A	2614-1							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
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-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-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-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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
MAIN STEAM SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
MAIN STEAM SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-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
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
		22	***													
HPEX-CF-10	MS	1	C5.51	P-CAP	20"	.594"	P1	102	2614-3	7	16		6		1	
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			
HPEX-CF-15	MS	1	C5.51	P-E	20"	.375"	P1		2614-3	7	16	6	6			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	WELD.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-2	MS	1	C5.51	F-RE	18"	.562"	F1		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-4(
HPEX-CF-3	MS	1	C5.51	RE-P	20	.594	P1	102	2614-3	7	16	6	6		3	
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			
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-1	MS	1	C5.51	E-P	10"	.719"	P1		2629-1	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			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
MAIN STEAM SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-P	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-2	MS	1	C5.51	P-E	10"	.719"	F1	78	2629-1	7	16		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-3	MS	1	C5.51	E-P	10"	.719"	P1	78	2629-1	7	16	6	6		2	
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-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-6	MS	1	C5.51	T-R	10"	.719"	F1	78	2629-1	7	16	6	6		3	
PSA-CF-6A	MS	1	C5.51	P-T	10"	.719"	P1		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			
PSA-CF-9	MS	1	C5.51	P-E	10"	.719"	P1	79	2629-1	7	16	6	6		2	
RAS-CF-12	MS	1	C5.51	P-R	8"	.594"	P1	73	2629-1	7	16	6	6			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
MAIN STEAM SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RAS-CF-13	MS	1	C5.51	E-P	8"	.594"	P1	73	2629-1	7	16	6	6		3	
RAS-CF-14	MS	1	C5.51	P-E	8"	.594"	P1	73	2629-1	7	16		6		1	
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	8"	.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	8"	.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	T-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			
RAS-CF-36	MS	1	C5.51	R-P	8"	.594"	P1	73	2629-1	7	16	6	6		3	
RBS-CF-12	MS	1	C5.51	P-R	8"	.594"	P1	73	2629-1	7	16		6		1	
RBS-CF-13	MS	1	C5.51	E-P	8"	.594"	P1	73	2629-1	7	16	6	6		2	
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			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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			
RBS-CF-241	MS	1	C5.51	T-P	8"	.594"	F1		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			
RWA-CF-1	MS	1	C5.51	P-CAP	8"	.594"	P1	73	2629-2	7	16	6	6		3	
RWA-CF-2	MS	1	C5.51	P-CAP	8"	.594"	P1		2629-2	7	16	6	6			
		118	***													
HPEX-CF-6	MS	1	C5.81	WOL-P	20-6	.280	P1		2614-3							
		1	***													
***		141														

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
NITROGEN PURGE AND VENT SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	WB1.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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				2	
PNC-CG-6	PNC	1	C5.51	F-P	24"	.375"	P1		RCO-755-1	7	16					
PNC-CG-9	PNC	1	C5.51	F-E	24"	.375"	F1		RCO-755-1	7	16					
		12	***													
***		12														

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RCIC SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UTO	UT45	PER RELREQ	REMARKS
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
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),

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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UTO	UT45	PER RELREQ	REMARKS
															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-42A	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-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),

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RCIC SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UTO	UT45	PER RELREQ	REMARKS
RWA-CF-45	RCIC	1		P-F	6"	.280"	P1		2621-1						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
RWA-CF-47	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-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						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						RCIC PUMP, 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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	PER RELREQ	REMARKS
															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), MUST BE INCLUDED IN TOTAL WELD POPULATION
RWA-CF-58	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-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

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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RCIC SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	PER	RELREQ	REMARKS
																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	135	CB&I-69	7	16	6	6	3	RI-23	OFF TORUS PEN. X-224...
RWA-CF-11	RCIC	1	C5.51	T-F	6	.432	F-23	135	CB&I-69	7	16	6	6	3	RI-23	OFF TORUS PEN. X-224...
RWA-CF-12	RCIC	1	C5.51	P-T	6	.432	P2	135	CB&I-69	7	16	6	6	3	RI-23	OFF TOURS PEN. X-224...
RWA-CF-14	RCIC	1	C5.51	N-P	6	.432	P1	135	2621-1	7	16	6	6	3		OFF TORUS PEN. X-224...
		4	***													
***		58														

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
REACTOR EQUIPMENT COOLING SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RBW-CF-42	RHR	1		V-P	8	.322	F1		2625-4							EXEMPT FROM NDE BASED ON WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION...
RBW-CF-97	RHR	1		LOL-P	8	.322	P1		2625-4	7	16					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), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHG-CF-10	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-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

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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RHG-CF-5	RHR-A	1		E-V	10"	.365"	F1	N/A	2624-2							WELD POPULATION 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-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
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
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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
																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), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-15	RHR-B	1		P-P	6"	.280"	P1		2624-6							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 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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
																WALL THICKNESS (N-408-2), MUST BE INCLUDED IN TOTAL WELD POPULATION
RHD-CF-3	RHR-B	1		P-E	8"	.322"	P1		2624-6							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							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							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							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							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							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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RHE-CF-5	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-6	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-7	RHR-B	1		P-E	10"	.365"	P1		2624-7							F86 NOT ACCESSIBLE-IN CONCRETE,RHS-35,RHH-141,REPLACE 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
		52	***													
RAW-CF-13	RHR	1	C5.51	E-V	20	.375	F1		2625-1	7	16	6	6			
RAW-CF-14	RHR	1	C5.51	P-E	20	.432	P1		2625-1	7	16	6	6			
RAW-CF-15	RHR	1	C5.51	E-P	20	.375	P1		2625-1	7	16	6	6			
RAW-CF-16	RHR	1	C5.51	T-E	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			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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	T-P	20	.375	P1		2625-1	7	16	6	6			
RAW-CF-25	RHR	1	C5.51	P-E	20	.375	P1		2625-1	7	16				2	
RAW-CF-26	RHR	1	C5.51	E-P	20	.375	P1		2625-1	7	16	6	6			
RAW-CF-27	RHR	1	C5.51	P-E	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-18	RHR	1	C5.51	P-T	20	.375	P1		2625-4	7	16				2	
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		2625-2	7	16	6	6			
RBW-CF-40	RHR	1	C5.51	V-E	20	.375	F1		2625-4	7	16	6	6			
RBW-CF-41	RHR	1	C5.51	P-E	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-T	20	.375	P1		2625-4	7	16	6	6			
RHA-CF-1	RHR	1	C5.51	E-T	20"	.375"	F1		2625-3	7	16					
RHA-CF-2	RHR	1	C5.51	P-E	20"	.375"	P1		2625-3	7	16				2	

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UTO	UT45	UT60	PER	REMARKS
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			
RAS-CF-1	RHR-A	1	C5.51	T-N	20"	.594"	F1	101	2614-2	7	16		6			
RAS-CF-10	RHR-A	1	C5.51	R-R	8"	.500"	F1		2614-2	7	16				2	
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			
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			
RAS-CF-9	RHR-A	1	C5.51	R-P	18"	.562"	P1		2614-2	7	16	6	6			
RAW-CF-1	RHR-A	1	C5.51	P-T	20	.36/.63	P1	133/102	2625-2	7	16	6	6		3	
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-2	RHR-A	1	C5.51	F-P	20	.375	P1		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			
RAW-CF-28A	RHR-A	1	C5.51	F-P	20"	.375"	P1		2625-1	7	16	6	6			
RAW-CF-29	RHR-A	1	C5.51	P-F	20"	.375"	P1		2625-1	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-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-4	RHR-A	1	C5.51	E-P	20	.375	P1		2625-2	7	16					

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-43A	RHR-A	1	C5.51	P-E	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-5	RHR-A	1	C5.51	P-E	20	.375	P1	133	2625-2	7	16	6	6		3	
RAW-CF-55	RHR-A	1	C5.51	P-VA	18"	.438"	P1		2624-2	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-66	RHR-A	1	C5.51	N-E	20	1.1/.6	P1	103/102	2624-3A	7	16	6	6		3	
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-7	RHR-A	1	C5.51	P-E	20	.375	P1		2625-2	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-751	RHR-A	1	C5.51	P-P	16"	.500"	P1		2624-3A	7	16	6	6			
RAW-CF-76	RHR-A	1	C5.51	P-E	24"	.562"	P1	104	2624-3A	7	16		6		1	
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-8	RHR-A	1	C5.51	T-P	20	.375	P1		2625-2	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			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RAW-CF-9	RHR-A	1	C5.51	T-R	20	.375	F1		2625-2	7	16	6	6			
RAW-CF-93	RHR-A	1	C5.51	F-P	20	.375	P1		2625-1	7	16	6	6			
RAW-CF-94	RHR-A	1	C5.51	P-F	20	.375	P1		2625-1	7	16	6	6			
RAW-CF-95	RHR-A	1	C5.51	F-P	20	.375	P1		2625-2	7	16	6	6			
RAW-CF-96	RHR-A	1	C5.51	P-F	20	.375	P1		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-BJ-30	RHR-A	1	C5.51	VA-VA	24"		F-25		2510-4	7	16					
RHB-CF-1	RHR-A	1	C5.51	P-T	16"	.500"	P1		2624-1	7	16				1	
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			
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-2	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16				2	
RHB-CF-20	RHR-A	1	C5.51	P-E	20	.500	P1	102	2624-1	7	16	6	6		3	
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-24	RHR-A	1	C5.51	E-P	20"	.500"	P1		2624-1	7	16				1	
RHB-CF-25	RHR-A	1	C5.51	P-E	20"	.500"	P1		2624-1	7	16	6	6			INACCESSIBLE, LOCATED IN FLOOR PENETRATION SURROUDED 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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RHB-CF-3	RHR-A	1	C5.51	P-E	16"	.500"	P1	N/A	2624-1	7	16	6	6			
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-4	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	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-5	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	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-6	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6			
RHB-CF-60	RHR-A	1	C5.51	E-E	24	.7/1.7	F1	104/115	2624-2	7	16	6	6		3	
RHB-CF-61	RHR-A	1	C5.51	E-V	24"	1.219"	F1		2624-2	7	16	6	6			RHR-MO-27A
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

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
																CHANGE WELD ID.NO REF NCR 91-088 *
RPA-CF-10	RHR-A	1	C5.51	P-E	20"	.375"	P1		2626-1	7	16	6	6			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
RPA-CF-15	RHR-A	1	C5.51	E-T	20	.375	F1		2625-2	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-18	RHR-A	1	C5.51	P-PU	20	.375	F1		2625-2	7	16	6	6			RHR PUMP-1A SUCTION
RPA-CF-18A	RHR-A	1	C5.51	PU-E	16	.500	P1	132	2624-1	7	16	6	6		3	(ON ISO AS RPA-CF-18) RHR PMP 1-A DISCHARGE
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-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-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-23A	RHR-A	1	C5.51	P-V	16"	.500"	P1		2624-1	7	16	6	6			RHR-LV-11
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-26	RHR-A	1	C5.51	P-E	16"	.500"	P1		2624-1	7	16				1	

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RPA-CF-27	RHR-A	1	C5.51	E-P	16"	.500"	P1		2624-1	7	16	6	6			
RPA-CF-27A	RHR-A	1	C5.51	P-F	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-28A	RHR-A	1	C5.51	F-P	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-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-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"	F		2624-1	7	16	6	6			
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 NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
RPA-CF-8	RHR-A	1	C5.51	P-P	20"	.375"	P1		2626-1	7	16	6	6			FORMERLY RPC-CF-8 * DCN NO. C93-0385 2/93 TO CHANGE WELD ID.NO REF NCR 91-088 *
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

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RPC-CF-11	RHR-A	1	C5.51	P-V	20"	.375"	F1		2626-1	7	16	6	6			NCR 91-088 * 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-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-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-23A	RHR-A	1	C5.51	P-V	16"	.500"	P1		2624-1	7	16	6	6			RHR-LV-13
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-25A	RHR-A	1	C5.51	P-F	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-26A	RHR-A	1	C5.51	F-P	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			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-30	RHR-A	1	C5.51	P-T	16"	.500"	P1		2624-1	7	16	6	6			
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 *
SW-CF-1	RHR-A	1	C5.51	P-T	14"	.375"	P1		2624-3A	7	16					
SW-CF-2	RHR-A	1	C5.51	E-P	14	.375	P1	IE-48	2624-3A	7	16	6	6		3	
SW-CF-3	RHR-A	1	C5.51	E-E	14"	.375"	F1		2624-3A	7	16	6	6			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
SW-CF-4	RHR-A	1	C5.51	P-E	14"	.375"	P1		2624-3A	7	16	6	6			
SW-CF-5	RHR-A	1	C5.51	V-P	14	.375	P1	IE-48	2624-3A	7	16	6	6		3	
RBS-CF-1	RHR-B	1	C5.51	T-N	20"	.594"	F1	102	2614-2	7	16	6	6		1	
RBS-CF-10	RHR-B	1	C5.51	R-R	8"	.500"	F1		2614-2	7	16					
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-4	RHR-B	1	C5.51	P-E	18"	.562"	P1	101	2614-2	7	16	6	6		2	
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-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-13	RHR-B	1	C5.51	V-E	20	.375	P1	133	2625-4	7	16	6	6		3	
RBW-CF-2	RHR-B	1	C5.51	F-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-3	RHR-B	1	C5.51	P-F	20	.375	P1		2625-4	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-4	RHR-B	1	C5.51	E-P	20	.375	P1		2625-4	7	16	6	6			
RBW-CF-45	RHR-B	1	C5.51	T-R	24	.84/.68	F1	113/104	2624-5	7	16	6	6		3	
RBW-CF-46	RHR-B	1	C5.51	R-E	18"	.438"	F1		2624-5	7	16	6	6			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RBW-CF-47	RHR-B	1	C5.51	E-E	18"	.438"	F1		2624-5	7	16	6	6			
RBW-CF-48	RHR-B	1	C5.51	E-P	18"	.438"	P1		2624-5	7	16	6	6		1	
RBW-CF-49	RHR-B	1	C5.51	P-E	18"	.438"	P1		2624-5	7	16	6	6			
RBW-CF-5	RHR-B	1	C5.51	P-E	20	.375	P1		2625-4	7	16				1	
RBW-CF-50	RHR-B	1	C5.51	E-V	18"	.438"	F1		2624-5	7	16	6	6			
RBW-CF-51	RHR-B	1	C5.51	V-P	18"	.438"	P1		2624-5	7	16	6	6			
RBW-CF-6	RHR-B	1	C5.51	E-P	20	.375	P1		2625-4	7	16					
RBW-CF-61	RHR-B	1	C5.51	P-V	18"	.438"	P1		2624-5	7	16	6	6			
RBW-CF-7	RHR-B	1	C5.51	P-E	20	.375	P1		2625-4	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-79	RHR-B	1	C5.51	T-P	24"	.562"	P1	104	2624-3B	7	16	6	6		2	
RBW-CF-8	RHR-B	1	C5.51	E-P	20	.375	P1		2625-4	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-9	RHR-B	1	C5.51	P-E	20	.375	P1		2625-4	7	16	6	6			
RBW-CF-92	RHR-B	1	C5.51	F-P	20	.375	P1		2625-2	7	16	6	6			
RBW-CF-93	RHR-B	1	C5.51	P-F	20	.375	P1		2625-2	7	16	6	6			
RBW-CF-94	RHR-B	1	C5.51	F-P	20	.375	P1		2625-4	7	16	6	6			
RBW-CF-95	RHR-B	1	C5.51	P-F	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			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-15	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A	7	16				1	
RCT-CF-16	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A	7	16	6	6			
RCT-CF-17*	RHR-B	1	C5.51	P-P	20"	.500"	P1		2624-3B	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					
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-25	RHR-B	1	C5.51	P-R	20	.500	P1	102	2624-3B	7	16	6	6		3	
RCT-CF-26	RHR-B	1	C5.51	R-T	24"	.500"	F1		2624-3B	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-6	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3A	7	16	6	6		1	
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-BJ-26	RHR-B	1	C5.51	VA-VA	24"		F-25		2510-3	7	16					
RHC-CF-1	RHR-B	1	C5.51	P-T	16"	.500"	P1		2624-3B	7	16	6	6			
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-13	RHR-B	1	C5.51	V-E	16	.500	F1	132	2624-3B	7	16	6	6		3	
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-17	RHR-B	1	C5.51	T-R	20	.500	F1	102	2624-3B	7	16	6	6		3	

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
RESIDUAL HEAT REMOVAL SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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			
RHC-CF-2	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B	7	16				2	
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-28	RHR-B	1	C5.51	V-P	20	.500	P1	102	2624-3B	7	16	6	6		3	RHR-MO-66B
RHC-CF-29	RHR-B	1	C5.51	P-E	20"	.500"	P1		2624-3B	7	16	6	6			
RHC-CF-3	RHR-B	1	C5.51	P-E	16"	.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-4	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B	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-48	RHR-B	1	C5.51	P-E	24	.562	P1	104	2624-5	7	16	6	6		3	
RHC-CF-5	RHR-B	1	C5.51	P-E	16"	.500"	P1		2624-3B	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			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
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-6	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3B	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
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			
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-1	RHR-B	1	C5.51	N-P	20"	.375"	P1		2626-2	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			
RPB-CF-2	RHR-B	1	C5.51	P-E	20"	.375"	P1		2626-2	7	16	6	6			
RPB-CF-22	RHR-B	1	C5.51	E-V	16	.500	F1	132	2624-3C	7	16	6	6		3	RHR-CV-15
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			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RPB-CF-27A	RHR-B	1	C5.51	P-F	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-29A	RHR-B	1	C5.51	F-P	16"	.500"	P1		2624-3C	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-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			
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-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		2626-2	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-16A	RHR-B	1	C5.51	T-P	20	.375	P1		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-1B	RHR-B	1	C5.51	T-P	20"	.375"	P2		CR&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-2	RHR-B	1	C5.51	P-E	20"	.375"	P1		2626-2	7	16	6	6			
RPD-CF-21	RHR-B	1	C5.51	E-V	16	.500	F1	132	2624-3C	7	16	6	6		3	RHR-CV-17
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			

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
RPD-CF-28	RHR-B	1	C5.51	E-P	16"	.500"	P1		2624-3C	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-29	RHR-B	1	C5.51	P-E	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			
RPD-CF-3	RHR-B	1	C5.51	E-P	20"	.375"	P1		2626-2	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			
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			
		434	***													
RBW-CF-96	RHR	1	C5.81	P-LOL	8-20	.375	P1		2625-4	7	16					
RAW-CF-91	RHR-A	1	C5.81	P-WOL	18-6	.438	P1		2624-2	7	16					
RBW-CF-91	RHR-B	1	C5.81	P-WOL	18-6	.438	P1	N/A	2624-5	7	16				3	
		3	***													
***		489														

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
SCRAM DISCHARGE VOLUME SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	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-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-14	SDV	1	C5.51	P-T	8	.500	P1		S&W13095.19-EP-1A-2	7	16				1	
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			
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			
SDN-CF-9	SDV	1	C5.51	CAP-P	8"	.500"	P1	N/A	S&W13095.19-EP-1A-2	7	16				2	
SDS-CF-1	SDV	1	C5.51	CAP-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16					
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-11A	SDV	1	C5.51	P-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-15A	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			
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-17A	SDV	1	C5.51	P-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-2	SDV	1	C5.51	P-P	8"	.500"	P1		S&W13095.19-EP-1A-2	7	16	6	6			

CODE CASE N-408-2
IWC-2500-1 CAT: C-F-2
SCRAM DISCHARGE VOLUME SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	W81.CAL	ISO	PT	MT	UT0	UT45	UT60	PER	REMARKS
SDS-CF-20	SDV	1	C5.51	P-CAP	8"	.500"	P1		S&W13095.19-EP-1B-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-6	SDV	1	C5.51	P-T	8	.500	P1	42	S&W13095.19-EP-1A-2	7	16	6	6		3	
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					
		40	***													
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IWC-2500-1 CAT: C-G

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	PT	MT	PER	REMARKS
PNC-CG-10A	PNC	1	C6.20	VLV.BD	24			RCO-755-1	7	16		VALVE PC-AOV-238AV...
PNC-CG-10B	PNC	1	C6.20	VLV.BD	24			RCO-755-1	7	16		VALVE PC-AOV-238AV...
PNC-CG-27A	PNC	1	C6.20	VLV.BD	24			RCO-755-2	7	16		VALVE PC-MOV-233MV...
PNC-CG-27B	PNC	1	C6.20	VLV.BD	24			RCO-755-2	7	16		VALVE PC-MOV-233MV...
PNC-CG-26A	PNC	1	C6.20	VLV.BD	24			RCO-755-2	7	16		VALVE PC-AOV-237AV...
PNC-CG-28B	PNC	1	C6.20	VLV.BD	24			RCO-755-2	7	16		VALVE PC-AOV-237AV...
PNC-CG-35A	PNC	1	C6.20	VLV.BD	24			RCO-755-3	7	16		VALVE PC-MOV-231MV...
PNC-CG-35B	PNC	1	C6.20	VLV.BD	24			RCO-755-3	7	16		VALVE PC-MOV-231MV...
PNC-CG-36A	PNC	1	C6.20	VLV.BD	24			RCO-755-3	7	16	3	VALVE PC-AOV-246AV...
PNC-CG-36B	PNC	1	C6.20	VLV.BD	24			RCO-755-3	7	16	3	VALVE PC-AOV-246AV...
PNC-CG-5A	PNC	1	C6.20	VLV.BD	24			RCO-755-1	7	16		VALVE PC-MOV-230MV...
PNC-CG-5B	PNC	1	C6.20	VLV.BD	24			RCO-755-1	7	16		VALVE PC-MOV-230MV...
PNC-CG-6A	PNC	1	C6.20	VLV.BD	24			RCO-755-1	7	16		VALVE PC-AOV-245AV...
PNC-CG-6B	PNC	1	C6.20	VLV.BD	24			RCO-755-1	7	16		VALVE PC-AOV-245AV...
PNC-CG-9A	PNC	1	C6.20	VLV.BD	24			RCO-755-1	7	16		VALVE PC-MOV-232MV...
PNC-CG-9B	PNC	1	C6.20	VLV.BD	24			RCO-755-1	7	16		VALVE PC-MOV-232MV...
		16	***									
***		16										

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

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	VT	PER	REMARKS
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-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-23A	REC	1	D1.20	STN				2848-2	8		REFERECNCE CNS HSK N0670/RCC-H23A...
RCC-DB-24A	REC	1	D1.20	STN				2848-2	8		REFERENCE CNS HSK N0670*RCC-H24A...
RCC-DB-30A	REC	1	D1.20	STN				2848-2	8		REFERENCE CNS HSK N0670*RCC-H30A...
RCC-DB-32A	REC	1	D1.20	STN				2848-2	8		REFERENCE CNS HSK N0670*RCC-H32A...
RCC-DB-33A	REC	1	D1.20	STN				2848-2	8		REFERENCE CNS HSK N0670*RCC-H33A...
RCC-DB-34	REC	1	D1.20	LUG				2848-2	8		REFERENCE CNS HSK N0670*RCC-H34...
RCC-DB-34A	REC	1	D1.20	STN				2848-2	8		REFERENCE CNS HSK N0670/RCC-H34A...
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...

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	VT	PER	REMARKS
RCC-DB-51	REC-A	1	D1.20	STN				2848-14	8	1	REFERENCE CNS HSK N0670*RCC-S51...
RCC-DB-90	REC	1	D1.20	STN				2848-8	8		REFERENCE CNS HSK N0670/RCC-S90...
RCC-DB-97	REC-ENC	1	D1.20	LUG				2848-51	8	1	REFERENCE CNS HSK N0670*RCC-S97...
		19	***								
REC-HXA-A1	REC-B	1	D1.10	SP-HX				2852-9	8	2	TOP SUPPORT OPPSITE END FROM NAME PLATE ON BOTTOM HEAT-EXCHANGER... SYSTEM EQUAL REC-HX-B ON P&ID... REFERENCE: REC-HX-A ON "SWECO" DRAWING NO. M-82057, VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153...
REC-HXA-A2	REC-B	1	D1.10	SP-HX				2852-9	8	3	TOP SUPPORT ADJACENT TO NAME PLATE ON BOTTOM HEAT-EXCHANGER... SYSTEM EQUAL REC-HX-B ON P&ID... REFERENCE: REC-HX-A ON "SWECO" DRAWING NO. M-82057, VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153...
REC-HXA-A3	REC-B	1	D1.10	SP-HX				2852-9	8	3	BOTTOM SUPPORT OPPSITE END FROM NAMEPLATE ON BOTTOM HEAT-EXCHANGER... SYSTEM EQUAL REC-HX-B ON P&ID... REFERENCE:

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	VT	PER	REMARKS
											REC-HX-A ON "SWECO" DRAWING NO. M-82057, VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153...
REC-HXA-A4	REC-B	1	D1.10	SP-HX				2852-9	8	3	BOTTOM SUPPORT ADJACENT TO NAMEPLATE ON BOTTOM HEAT-EXCHANGER... SYSTEM EQUAL REC-HX-B ON P&ID... REFERENCE: REC-HX-A ON "SWECO" DRAWING NO. M-82057, VENDOR CODE S2900 FOR DRAWINGS... VENDOR MANUAL #0153...
REC-HXB-A1	REC-A	1	D1.10	SP-HX				2852-8	8		REC HEAT-EXCHANGER "REC-HX-A" SUPPORT OPPSITE 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-TK-ST-A1	REC	1	D1.10	SP-TK				2848-7	8		SURGE TANK SUPPORT ATTACHMENT... REFERENCE EATON METAL PRODUCTS CORP. VENDOR CODE E0600

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	VT	PER	REMARKS
											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...
		10	***								
***		29									

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

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	VT	PER	REMARKS
SW-DB-104	SW	1	D1.20	STN				2851-2	8		REFERENCE CNS HSK N0670/SW-S104...
SW-DB-105	SW	1	D1.20	STN				2851-2	8		REFERENCE CNS HSK SW-S105...
SW-DB-124	SW	1	D1.20	STN				2851-1	8		REFERENCE CNS HSK N0670/SW-S124
SW-DB-126	SW	1	D1.20	LUG				2852-54	8		REFERENCE CNS HSK N0670/SW-S126
SW-DB-128	SW	1	D1.20	STN				2852-54	8		REFERENCE CNS HSK N0670/SW-S128...
SW-DB-137	SW	1	D1.20	LUG				2852-9	8		REFERENCE CNS HSK N0670/SW-H137...
SW-DB-138	SW	1	D1.20	LUG				2852-9	8		REFERENCE CNS HSK N0670/SW-H138...
SW-DB-14	SW	1	D1.20	STN				2851-6	8		REFERENCE CNS HSK N0670*SW-S14...
SW-DB-141	SW	1	D1.20	STN				2852-9	8		REFERENCE CNS HSK N0670/SW-H141
SW-DB-144	SW	1	D1.20	STN				2852-9	8		REFERENCE CNS HSK N0670/SW-H144...
SW-DB-144A	SW	1	D1.20	STN				2852-55	8		REFERENCE CNS HSK N0670/SW-S144...
SW-DB-145	SW-B	1	D1.20	STN				2852-9	8	2	REFERENCE CNS HSK N0670*SW-H145...
SW-DB-147	SW	1	D1.20	LUG				2852-9	8		REFERENCE CNS HSK N0670/SW-H147...
SW-DB-14A	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-14...
SW-DB-15	SW	1	D1.20	LUG				2851-6	8		REFERENCE CNS HSK N0670/SW-S15...
SW-DB-15A	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-15...

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO		VT	PER	REMARKS
SW-DB-16	SW-B	1	D1.20	SAD				2852-3		8	2	REFERENCE CNS HSK N0670*SW-16...
SW-DB-164	SW	1	D1.20	LUG				2852-8		8		REFERENCE CNS HKS N0670/SW-H164
SW-DB-17	SW	1	D1.20	SAD				2852-3		8		REFERENCE CNS HSK N0670/SW-17...
SW-DB-178	SW-A	1	D1.20	LUG				2851-1		8	3	REFERENCE CNS HSK N0670*SW-H178...
SW-DB-18	SW	1	D1.20	SAD				2852-3		8		REFERENCE CNS HSK N0670/SW-18...
SW-DB-184	SW	1	D1.20	LUG				2851-1		8		REFERENCE CNS HSK N0670/SW-H184
SW-DB-187	SW	1	D1.20	LUG				2852-8		8		REFERENCE CNS HSK N0670/SW-H187...
SW-DB-189	SW	1	D1.20	STN				2852-8		8		REFERENC CNS HSK N0670/SW-H189...
SW-DB-19	SW	1	D1.20	SAD				2852-3		8		REFERENCE CNS HSK N0670/SW-19...
SW-DB-190	SW	1	D1.20	E-LUG				2852-8		8		REFERENCE CNS HSK N0670/SW-190...
SW-DB-194	SW	1	D1.20	LUG				2851-4		8		REFERENCE CNS HSK N0670/SW-H194...
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-220	SW	1	D1.20	E-LUG				2400-4		8		REFERENCE CNS HSK N0670*SWH220...
SW-DB-221	SW	1	D1.20	E-LUG				2400-4		8		REFERENCE CNS HSK N0670/SW-H221...

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

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	VT	PER	REMARKS
SW-DB-223	SW	1	D1.20	E-LUG				2400-4	8		REFERENCE CNS HSK N0670/SW-H223
SW-DB-23	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-23...
SW-DB-230	SW	1	D1.20	LUG				2852-54	8		REFERENCE CNS HSK N0670/SW-H230...
SW-DB-23A	SW	1	D1.20	LUG				2852-10	8		REFERENCE CNS HSK N0670/SW-S23...
SW-DB-23E	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-H23E...
SW-DB-23F	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-H23F...
SW-DB-23G	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-H23G...
SW-DB-23H	SW	1	D1.20	SAD				2852-3	8		REFERENCE CNS HSK N0670/SW-H23H...
SW-DB-24	SW	1	D1.20	LUG				2852-10	8		REFERENCE CNS HSK N0670/SW-S24...
SW-DB-256	SW	1	D1.20	STN				2852-55	8	1	REFERENCE CNS HSK N0670*SW-H256...
SW-DB-258	SW	1	D1.20	STN				2852-55	8		REFERENCE CNS HSK N0670/SW-H258...
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-446	SW	1	D1.20	LUG				2852-26	8		REFERENCE CNS HSK N0670/SW-H446...
SW-DB-447	SW	1	D1.20	LUG				2852-27	8		REFERENCE CNS HSK N0670/SW-H447...

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

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
THIRD INTERVAL

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	VT	PER	REMARKS
SW-DB-44A	SW	1	D1.20	LUG				2852-18	8		REFERENCE CNS HSK N0670/SW-S44...
SW-DB-45	SW-A	1	D1.20	E-LUG				2851-6	8	3	REFERENCE CNS HSK N0670*SW-H45...
SW-DB-46	SW-A	1	D1.20	STN				2851-6	8	3	REFERENCE CNS HSK N0670*SW-H46
SW-DB-49	SW	1	D1.20	STN				2852-9	8		REFERENCE CNS HSK N0670/SW-S49...
SW-DB-50	SW-B	1	D1.20	STN				2852-9	8	2	REFERENCE CNS HSK N0670*SW-S50...
SW-DB-500	SW	1	D1.20	LUG				2852-23	8		REFERENCE CNS HSK N0670/SW-S500B&R...
SW-DB-501	SW	1	D1.20	LUG				2852-23	8		REFERENCE CNS HSK N0670/SW-S501B&R...
SW-DB-51	SW	1	D1.20	STN				2852-9	8		REFERENCE CNS HSK N0670/SW-S51
SW-DB-52	SW	1	D1.20	STN				2852-9	8		REFERENCE CNS HSK N0670/SW-S52...
SW-DB-57	SW-B	1	D1.20	E-LUG				2851-3	8	1	REFERENCE CNS HSK N0670*SW-H57...
SW-DB-59	SW	1	D1.20	E-LUG				2851-3	8		REFERENCE CNS HSK N0670/SW-H59...
SW-DB-61A	SW	1	D1.20	LUG				2851-2	8		REFERENCE CNS HSK N0670/SW-H61A...
SW-DB-62A	SW	1	D1.20	SAD				2851-2	8		REFERENCE CNS HSK N0670/SW-H62A...
SW-DB-65	SW	1	D1.20	SAD				2851-2	8		REFERENCE CNS HSK N0670/SW-H65...
SW-DB-68	SW	1	D1.20	STN				2852-19	8		REFERENCE CNS HSK N0670/SW-S68...
SW-DB-70	SW	1	D1.20	STN				2852-19	8		REFERENCE CNS HSK N0670/SW-S70...

PIPE.....	SYSTEM..	CNT.	ITEM.NO.	CFIG...	SIZE..	TKNS.....	MAT...	ISO.....	....	VT.....	PER	REMARKS.....
SW-DB-72	SW	1	D1.20	STN				2852-19		8		REFERENCE CNS HSK N0670/SW-S72...
SW-DB-74	SW	1	D1.20	STN				2852-19		8		REFERENCE CNS HSK M0670/SW-S74...
SW-DB-94	SW	1	D1.20	STN				2852-8		8		REFERENCE CNS HSK N0670/SW-S94...
SW-DB-96	SW	1	D1.20	STN				2852-19		8		REFERENCE CNS HSK N0670/SW-H96
SW-DB-97	SW	1	D1.20	STN				2852-8		8		REFEREMCE CNS HSK N0670/SW-S97...
SW-DB-97A	SW	1	D1.20	STN				2852-19		8		REFERENCE CNS HSK N0670/SW-H97...
SW-DB-98	SW	1	D1.20	STN				2852-19		8		REFERENCE CNS HSK N0670/SW-H98...
SW-DB-99	SW	1	D1.20	STN				2852-19		8		REFERENCE CNS HSK N0670/SW-H99...
		72	***									
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-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"

PIPE	SYSTEM	CNT.	ITEM.NO.	CFIG	SIZE	TKNS	MAT	ISO	VT	PER	REMARKS
											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 "BYRON JACKSON" VENDOR CODE B5800 FOR DRAWINGS... VENDOR MANUAL #0180
		4	***								
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 DRAWINGS NO. I-691125-A AND 47736... VENDOR MANUAL #0520...
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...
		2	**								
***		78									

CODE CASE N-491
IWF-2500-1 CAT: F-A CLASS 3
SERVICE WATER SYSTEM

COOPER NUCLEAR STATION
INSERVICE INSPECTION PROGRAM REV: 1
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-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 EXAMINATION...
SW-H-141	SW	1	F1.30.A	STN	VS	SS				2852-9	10		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-150	SW	1	F1.30.A	RH	VS	DW				2852-10	10	1	
SW-H-151	SW	1	F1.30.A	RHT	VS	DW				2852-10	10		
SW-H-152	SW	1	F1.30.A	RH	VS	DW				2852-10	10	1	
SW-H-153	SW	1	F1.30.A	RH	VS	DW				2852-10	10		

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
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-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-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-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-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...
SW-H-186	SW	1	F1.30.A	SWS	VS	VS				2852-8	10		REMOVE INSULATION FOR

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													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-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-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-223	SW	1	F1.30.A	RH	VS	DW				2400-4	10	3	INTEGRALLY WELDED ATTACHMENT # SW-DB-223, 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-23	SW	1	F1.30.A	SWS	HS	HS				2852-3	10		
SW-H-230	SW	1	F1.30.A	RH	VS	DW				2852-54	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-230... REMOVE INSULATION FOR EXAMINATION...

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	INTEGRALLY WELDED ATTACHMENT # SW-DB-23E, SADDLE...
SW-H-23F	SW	1	F1.30.A	RS	HS	HS				2852-3	10		MAY HAVE ASBESTOS INSULATION... INTEGRALLY WELDED ATTACHMENT # SW-DB-23F, 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-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-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-45	SW	1	F1.30.A	RH	VS	DW				2851-6	10	3	INTEGRALLY WELDED ATTACHMENT # SW-DB-45, E-LUG...
SW-H-50	SW	1	F1.30.A	RHT	VS	DW				2851-3	10		ROD HANGER WITH RESTRAINT FOR VERTICAL MOVEMOVEMENT... REMOVE INSULATION FOR

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													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-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-58B	SW	1	F1.30.A	RB	HS	HS				2851-3	10		
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-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-66	SW	1	F1.30.A	RHT	VS	DW				2851-2	10		
SW-H-67	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		
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		

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
SW-H-91A	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-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, STANCHION...
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-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...
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

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													ATTACHMENT # SW-DB-128, STANCHION...
SW-S-13	SW	1	F1.30.A	SWS	HS	HS				2851-6	10		
SW-S-13A	SW	1	F1.30.A	SWS	HS	HS				2851-6	10		
SW-S-14	SW	1	F1.30.A	RSF	HS	HS				2851-6	10	3	INTEGRALLY WELDED ATTACHMENT # SW-DB-14, STANCHIONS...
SW-S-144	SW	1	F1.30.A	SWS	HS	HS				2852-55	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-144A, STANCHION...
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-16A	SW	1	F1.30.A	RBF	HS	HS				2851-6	10		
SW-S-17	SW	1	F1.30.A	SWS	HS	HS				2851-6	10		
SW-S-178A	SW	1	F1.30.A	SWS	HS	HS				2851-1	10	3	REMOVE INSULATION FOR EXAMINATION...
SW-S-17A	SW	1	F1.30.A	RBF	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-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-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-42A	SW	1	F1.30.A	RBF	HS	HS				2851-6	10		

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
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-46B	SW	1	F1.30.A	SWS	HS	HS				2852-18	10		
SW-S-46B&R	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-51A	SW	1	F1.30.A	RBF	HS	HS				2851-3	10		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 EXAMINATION...
SW-S-53	SW	1	F1.30.A	SWS	HS	HS				2852-9	10		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-59A	SW	1	F1.30.A	RBF	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-63A	SW	1	F1.30.A	RB	HS	HS				2851-2	10		

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
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-69	SW	1	F1.30.A	RSF	HS	HS				2852-19	10	3	
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-S14	SW	1	F1.30.A	RSF	HS	HS				2400-4	10		
SW-H-145	SW-B	1	F1.30.A	STN	VS	SS				2852-9	10	2	REC HTX AREA 931'...

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													INTEGRALLY WELDED ATTACHMENT # SW-DB-145, STANCHION...
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...
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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 INSULATION...
SW-15	SW	1	F1.30.B	STN	VS	SS				2852-3	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-15A, INSUL.PROTECT.SAD... MAY HAVE ASBESTOS INSULATION...
SW-17	SW	1	F1.30.B	STN	VS	SS				2852-3	10		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

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													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-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-167A	SW	1	F1.30.B	RBF	HS	HS				2852-8	10		
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...

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
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-256	SW	1	F1.30.B	STN	VS	VSHS				2852-55	10	1	INTEGRALLY WELDED ATTACHMENT # SW-DB-256, STANCHION...
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				2852-26	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-46	SW	1	F1.30.B	STN	VS	VS				2851-6	10	3	INTEGRALLY WELDED ATTACHMENT # SW-DB-46, STANCHION...
SW-H-61A	SW	1	F1.30.B	RBF	HS	HSVS				2851-2	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-61A, LUG...
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-1	SW	1	F1.30.B	RBF	HS	HS				2400-1	10		REMOVE INSULATION FOR EXAMINATION...
SW-S-105	SW	1	F1.30.B	RSF	HS	HS				2851-2	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-105, STANCHION...

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
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 EXAMINATION...
SW-S-121	SW	1	F1.30.B	RBF	VS	VSHS				2851-3	10		REMOVE INSULATION FOR EXAMINATION...
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...
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-15	SW	1	F1.30.B	RBF	HS	HS				2851-6	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-15, LUG...
SW-S-2	SW	1	F1.30.B	RBF	HS	HS				2400-1	10		REMOVE INSULATION FOR EXAMINATION...
SW-S-23B	SW	1	F1.30.B	RBF	VS	VSHS				2852-10	10		
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,

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													INSUL.PROTECT.SAD...
SW-S-29AN	SW	1	F1.30.B	SWS	HS	HS				2852-7	10		APPROXIMENTLY 1'6" NORTH (UPST) OF SW-H-156...
SW-S-29AS	SW	1	F1.30.B	SWS	VS	VS				2852-7	10		APPROXIMENTLY 6" NORTH (UPST) OF SW-H-156...
SW-S-44	SW	1	F1.30.B	RBF	HS	HS				2852-18	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-44A, LUG...
SW-S-48A	SW	1	F1.30.B	RBF	HS	HS				2852-9	10		
SW-S-500B&R	SW	1	F1.30.B	RBF	HS	HSVS				2852-23	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-500, LUG...
SW-S-501B&R	SW	1	F1.30.B	RBF	HS	HSVS				2852-23	10		INTEGRALLY WELDED ATTACHMENT # SW-DB-501, 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-181A	SW-A	1	F1.30.B	SWS	HS	HS				2851-1	10	3	REMOVE INSULATION FOR EXAMINATION...
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. .
SW-16	SW-B	1	F1.30.B	STN	VS	SS				2852-3	10	2	INTEGRALLY WELDED ATTACHMENT # SW-DB-16, INSUL.PROTECT.SAD... MAY HAVE ASBESTOS INSULATION...
		50	***										
SW-H-183	SW	1	F1.30.C	VS	VS	DW				2851-1	10,11		REMOVE INSULATION FOR EXAMINATION...

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
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-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-60	SW	1	F1.30.C	VS	VS	DW				2851-2	10,11	2	
SW-H-61	SW	1	F1.30.C	VS	VS	DW				2851-2	10		
		11	***										
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

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													"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-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, BASE PLATE STUDS MUST BE REMOVED FOR INSPECTION IN RESPONSE TO USNRC IR 95-04
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 #0180, BASE PLATE STUDS MUST BE REMOVED FOR INSPECTION IN RESPONSE TO USNRC IR 95-04
SW-PD-S1	SW	1	F1.40.B	PVV	VS	DW				2852-3	10		SW PUMP "SW-P-D" SUPPORT... REFERENCE "BYRON JACKSON" VENDOR

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
													CODE B5800 FOR SUPPORT DRAWINGS... VENDOR MANUAL #0180, BASE PLATE STUDS MUST BE REMOVED FOR INSPECTION IN RESPONSE TO USNRC IR 95-04
SW-STRB-S1	SW	1	F1.40.B	PVV	VS	DW				2852-3	10		REFERENCE XXXXXX VENDER CODE FOR HSK DRAWINGS... VENDER MANUAL #0520
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-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, BASE PLATE STUDS MUST BE REMOVED FOR INSPECTION IN RESPONSE TO USNRC IR 95-04
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 INC. VENDER CODE Z0100 FOR DRAWINGS... VENDER MANUAL #0520...

HANGER.....	SYSTEM	CNT.	ITEM....	STYPE	SD	SFUNCT	BS..	ABS.	IAS	ISOMETRIC.NO...	VT....	NEW	REMARKS.....
		10	***										
***		234											

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