

ATTACHMENT 2

Tennessee Valley Authority

Sequoyah Nuclear Plant

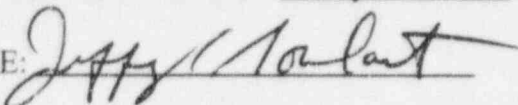
Surveillance Instruction

0-SI-DXI-000-114.2

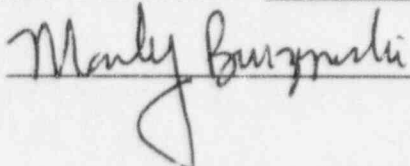
**ASME SECTION XI ISI/NDE PROGRAM
UNIT 1 and UNIT 2**

Revision 0
QUALITY RELATED

PREPARED/PROOFREAD BY: Jeffery C. Goulart DATE: 9/5/95

SIGNATURE: 

RESPONSIBLE ORGANIZATION: Mechanical/Nuclear Engineering

APPROVED BY:  DATE: 10/13/95

EFFECTIVE DATE: 12-16-95

LEVEL OF USE: CONTINUOUS USE

REVISION DESCRIPTION:

This is the initial issue of the second interval ASME Section XI ISI/NDE program.

This procedure replaces the first interval procedures 1-SI-SXI-000-114.0 and 2-SI-SXI-000-114.0.

The technical specification requirements 4.4.5.0, 4.4.5.1, 4.4.5.2, 4.4.5.3, 4.4.5.4 and 4.4.5.5 that were in the first interval programs 1-SI-SXI-000-114.0 and 2-SI-SXI-000-114.0 have been incorporated into the Steam Generator Surveillance Instruction for the second interval (0-SI-SXI-068-114.2).

First interval programs 1-SI-SXI-000-114.0 and 2-SI-SXI-000-114.0 Commitment [C.1] for each was completed during the first interval program.

First interval programs 1-SI-SXI-000-114.0 and 2-SI-SXI-000-114.0 Commitment [C.2] for each is being included in the second interval Steam Generator Surveillance instruction.

First interval program 2-SI-SXI-000-114.0 Commitment [C.3] is being included in the second interval Steam Generator Surveillance instruction.

First interval programs 1-SI-SXI-000-114.0 and 2-SI-SXI-000-114.0 Commitment [C.4] for each was completed during the first interval program.

First interval programs 1-SI-SXI-000-114.0 and 2-SI-SXI-000-114.0 Commitment [C.5] for each has been renumbered to [C.1] for the second interval in this program.

First interval program 2-SI-SXI-000-114.0 commitment [C.6] is being included in the second interval Steam Generator Surveillance instruction.

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OWNER STATEMENT

Owner: Tennessee Valley Authority

Address of Corporate Office: Chattanooga Office Complex
1101 Market Street
Chattanooga, Tennessee 37402-2801

Name and Address of Nuclear Power Plant: Sequoyah Nuclear Plant
P.O. Box 2000
Soddy Daisy, Tennessee 37379

Applicable Nuclear Power Units: Sequoyah Nuclear Plant, Unit 1 and Unit 2

Commercial Operation Dates: July 1, 1981 - Unit 1
June 1, 1982 - Unit 2

First ISI Interval: July 1, 1981 thru December 15, 1995 Unit 1
June 1, 1982 thru December 15, 1995 Unit 2

Second ISI Interval Start Date: December 16, 1995 Unit 1
December 16, 1995 Unit 2

1.0 INTRODUCTION

1.1 PURPOSE

In accordance with Title 10 Code of Federal Regulations (CFR) Part 50, 50.55a(g) this program implements the Sequoyah Nuclear Plant (SQN) Unit 1 Technical Specifications, Surveillance Requirement 4.4.3.2.4 and partially satisfies the requirements for both Unit 1 and Unit 2 Technical Specifications, Surveillance Requirement 4.0.5 and to fulfill the requirements of SSP-6.10, ASME Section XI Inservice Inspection and Augmented Nondestructive Examinations. This program is organized to comply with the Inservice Inspection (ISI) nondestructive examination (NDE) requirements of the 1989 Edition of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Division 1, Articles 1000, 2000, 3000, and 6000.

This ISI/NDE Program is an administrative Surveillance Instruction (SI) employed to obtain data via NDE of ASME Section XI Code Class 1, 2, and 3 equivalent components to determine acceptance of components for continued service during operation and if a flaw is an isolated case or of a generic nature. It shall serve as TVA's ISI/NDE plan and schedule in accordance with the requirements of IWA-1400 for the second ISI interval.

This ISI/NDE Program reflects the built-in limitations of the original plant design, geometry, construction, component materials, and the current technology or state-of-the-art nondestructive examination techniques. It specifies the number of components to be examined, the examination methods to be used and provides schedule tables from which specific items are scheduled for examination. These items are described and detailed in ISI scan plans.

1.2 SCOPE (APPLICABILITY)

This program outlines details for planning and implementing the second ISI/NDE inspection interval for ASME Section XI Code Class 1, 2, and 3 equivalent components at SQN in accordance with IWA- 2432, Inspection Program B.

Elements of ASME Section XI, such as Pump and Valve Testing, Snubber Inservice Examination and Testing (specifically the Examination Category F-A, VT-3 Visual Examination), Repair and Replacements, System Pressure Tests (including the associated Examination Categories B-P, C-H, D-A, D-B, and D-C, VT-2 Visual Examinations), and Steam Generator Tube Examinations (Examination Category B-Q) are covered by other procedures.

The ASME Section XI Code Class Boundary Drawings and the ISI Drawings identify the components and systems to be examined (see Attachment 7 for listing).

Personnel responsible for performance of the examinations should familiarize themselves with the requirements of this program prior to performing the examinations. Specifics concerning performance of NDE are not a part of this program, but are included in Inspection Services Organization Programs Manual (refer to Inspection and Examination Program (IEP) series).

1.3 CODES OF RECORD AND CODE CASES

A. CURRENT CODE REQUIREMENTS AND CODE CASES

The Code of Record for the second inspection interval of Unit 1 and Unit 2 is the 1989 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, Division 1 in accordance with 10 CFR 50, 50.55a(g)(4). Additionally, in accordance with 10 CFR 50, 50.55a(b)(2)(ii), the extent of examination for Examination Category B-J welds shall be in accordance with the 1974 Edition, Summer 1975 Addenda of ASME Section XI. Extent of examination is defined as the criteria for the selection of the Class 1 B-J welds to be examined. See Section 7.2.A.6. The extent of examination specifies the length of weld to be examined.

Certification of NDE personnel shall be in accordance with the 1984 Edition of ASNT SNT-TC-1A.

Regulatory Guide 1.150, Rev. 1, "Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examinations," shall be used for Reactor Vessel Weld examinations as outlined in the applicable NDE procedure.

Code cases used shall be implemented in their entirety unless approved by NRC or stated in Regulatory Guide 1.147.

The following Code Cases have been accepted for use by the NRC in Regulatory Guide 1.147 and may be used:

1. Code Case N-307-1, Revised Ultrasonic Examination Volume for Class 1 Bolting, Table IWB-2500-1, Examination Category B-G-1, When the Examinations Are Conducted From the Center-Drilled Hole, Section XI, Division 1.
2. Code Case N-457, Qualification Specimen Notch Location for Ultrasonic Examination of Bolts and Studs, Section XI, Division 1.
3. Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds, Section XI, Division 1. Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds.
4. Code Case N-461, Alternative Rules for Piping Calibration Block Thickness, Section XI, Division 1.

5. Code 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 Section XI, Division 1.
6. Code Case N-481, Alternative Examination Requirements for Cast Austenitic Pump Casings (Unit 1 only).
7. Code Case N-491, Alternative Rules for Examination of Class 1, 2, 3, and MC Component Supports of Light-Water Cooled Power Plants, Section XI, Division 1.
8. Code Case N-494-1, Pipe Specific Evaluation Procedures and Acceptance Criteria for Flaws in Class 1 Ferritic Piping That Exceed the Acceptance Standards of IWB-3514.2.
9. Code Case N-503 Limited Certification of Nondestructive Examination Personnel Section XI, Division 1.

The following Code Cases are pending approval by the NRC:

1. Code Case N-198-1 Exemption from Examination for ASME Class 1 and 2 Piping Located at Containment Penetrations Section XI, Division 1.
2. Code Case N-494-2, Pipe Specific Evaluation Procedures and Acceptance Criteria for Flaws in Class 1 Ferritic Piping That Exceed the Acceptance Standards of IWB-3514.2.
3. Code Case N-509, Alternative Rules for the Selection and Examination of Class 1, 2, and 3 integrally welded attachments Section XI, Division 1.
4. Code Case N-521, Alternative Rules for Deferral of Inspections of Nozzles-to-Vessel Welds, Inside Radius Sections, and Nozzle-to-safe End Welds of a Pressurized Water Reactor (PWR) Vessel.
5. Code Case N-524, Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping Section XI, Division 1.

B. HISTORY OF PSI AND ISI PROGRAMS

For Unit 1 and Unit 2 a preservice inspection (PSI) program was not required. TVA performed a self-imposed PSI program in accordance with the 1974 Edition, Summer 1975 Addenda, of ASME Section XI. SI-114 was the Preservice Inspection (PSI) Program for SQN Units 1 and 2.

The SQN Unit 1 operating license (low power) was issued on July 1, 1981. The first interval ISI program was conducted in accordance with 1-SI-SXI-000-114.0 (July 1, 1981 to December 15, 1995).

Note: The Unit 1 inspection interval ended on November 3, 1995 and was extended by 42 days to December 15, 1995.

The SQN Unit 2 operating license (low power) was issued on June 1, 1982. The first interval ISI program was conducted in accordance with 2-SI-SXI-000-114.0 (June 1, 1982 to December 15, 1995).

Note: The Unit 2 inspection interval ended on October 13, 1995 and was extended by 63 days to December 15, 1995.

1.4 FREQUENCY INSPECTION INTERVAL AND INSPECTION PERIODS

The inservice examinations required by ASME Section XI shall be performed during each 10-year interval of service (inspection interval). The inspection intervals represent calendar years after the unit has been placed into commercial service. The ISI examinations required by ASME Section XI, Division 1, IWA-2432, Inspection Program B shall be performed during this inspection interval (December 16, 1995 to December 15, 2005) for Unit 1 and Unit 2. The inspection interval may be decreased or extended by as much as one year to coincide with a plant outage in accordance with IWA-2430(d).

Note: Any decrease or extension is to take into consideration the first interval extension in section 1.3.B. If the unit is out of service continuously for six months or more, the inspection interval may be extended for an equivalent period in accordance with IWA-2430(e).

This SI may be performed in any mode and is applicable for all operational modes.

Except for examinations that may be deferred to the end of the inspection interval, the required examinations shall be performed in accordance with the following schedule that complies with IWB-2412, Program B and Table IWB-2412-1; IWC-2412, Program B and Table IWC-2412-1; IWD-2412, Program B and Table IWD-2412-1; and Code Case N-491-2410(b) and (c) and Table -2410-2, Program B.

The examinations deferred to the end of the inspection interval shall be completed by the end of the inspection interval.

Note: When examinations are limited due to design, configuration, interference etc., the item shall be substituted where possible with another item.

2.0 **DEVELOPMENTAL REFERENCES**

- 2.1 SQN Unit 1 Technical Specifications, Surveillance Requirement 4.4.3.2.4 and partially satisfies the requirements of Surveillance Requirements 4.0.5
- 2.2 SQN Unit 2 Technical Specifications, partially satisfies the requirements of Surveillance Requirements 4.0.5
- 2.3 Sequoyah Nuclear Plant Updated Final Safety Analysis Report, 3.2, 5.2.6, 5.2.8, and 5.4.4
- 2.4 NRC Documents
 - A. 10 CFR Part 50.55a(g)
 - B. 10 CFR Part 50.2
 - C. Regulatory Guide 1.14, Reactor coolant Pump flywheel Integrity
 - D. Regulatory Guide 1.26, Quality Group Classification and Standards for Water, Steam, and Radioactive Waste Containing Components of Nuclear Power Plants
 - E. Regulatory Guide 1.147, Inservice Inspection Code Case Acceptability ASME Section XI Division 1
 - F. Regulatory Guide 1.150, Ultrasonic Testing of Reactor Vessel Welds during Preservice and Inservice Examinations
 - G. IE Bulletins
 1. NRC Bulletin 79-13, Cracking in Feedwater system piping
 2. NRC Bulletin 88-08, Thermal Stresses on Piping Connected to Reactor Coolant Systems, and Supplement 1
 3. NRC Bulletin 88-09 and Information Notice 87-44 Supplement 1, Thimble Tube Thinning in Westinghouse Reactors
 - H. Information Notice No. 87-44 Supplement 1
- 2.5 Plant Procedures & Instructions
 - A. Site Standard Practice
 1. SSP-2.9, Records Management

2. SSP-3.1, Quality Assurance Program
 3. SSP-3.4, Corrective Action
 4. SSP-4.5, Regulatory Reporting Requirements
 5. SSP-6.7, Control of Measuring and Test Equipment
 6. SSP-6.9, Repairs / Replacements of ASME Section XI Components
 7. SSP-6.10, ASME Section XI Inservice and Augmented Nondestructive Examinations
 8. SSP-6.21, Maintenance Management System Initiation of Work Requests
 9. SSP-7.2, Outage Management
 10. SSP-7.55, Guidelines for the Erection of Scaffolds and Ladders Including Those in Seismically Qualified Structures
 11. SSP-8.1, Conduct of Testing
 12. SSP-8.2, Surveillance Test Program
 13. SSP-9.3, Plant Modifications and Design Change Control
 14. SSP-12.8, Foreign Material Exclusion
 15. SSP-13.2 Chemical Traffic control Program
- B. Surveillance Instructions
1. 0-SI-OPS-000-011.0, Containment Access
- C. SQN Maintenance Instructions
1. 0-MI-MRR-068-005.0, Removal of Reactor Pressure Vessel Head and Attachments
 2. 0-MI-MXX-068-003.0, Removal and Installation of Steam Generator Primary Manway Covers Units 1 and 2
 3. 0-MI-MXX-068-004.0, Removal and Replacement of Pressurizer Manway Covers
 5. MI-2.2, Removal, Inspection, and Replacement of Reactor Coolant Pump Units 1 and 2
 6. MI-10.2.3, Removal, Inspection and Replacement of Reactor Coolant Pump Cartridge and Number 1 Seals

7. MI-6.15, General Procedure Tightening Bolted Joints

8. 0-MI-MVV-000.008.0, Maintenance of CSSC Valves

D. SQN Special Maintenance Instruction

E. Administrative Instructions

1. AI-18.5, Plant Reporting Requirements - Operations

F. Inspection and Examination Procedures

1. IEP-100, Administration of Nondestructive Examination (NDE) Procedures

2. IEP-200, Qualification and Certification Requirements for NP NDE Personnel

3. IEP-203, Control of Calibration Standards

2.6 ISI Drawings (See Attachment 7)

2.7 Reference Documents

A. ASME Boiler and Pressure Vessel Code, Section XI, Division 1, 1974 Edition, Summer 1975 Addenda

B. ASME Boiler and Pressure Vessel Code, Section XI, Division 1, 1989 Edition

C. ASME Section XI Code Cases as listed in Section 1.3

D. Design Change Notice Drawing Deviation F-07706-A (B85 911107 124). Referenced in Section 5.0 of Attachments 10 and 11.

E. Incident Investigation (II) No. II-S-92-027. Referenced in Section 1.0 and 6.0 of Attachments 10 and 11.

F. TVA Calculation SQN-SQTP-001, ASME Section XI Inservice Code Class Boundaries for Second 10 year Interval.

G. Memorandum from J. L. Tain, Westinghouse, to J. A. Raulston, dated January 19, 1984 (A27 840123 022). Referenced in Section 4.0 of Attachments 10 and 11.

H. Memorandum from R. S. Howard, Westinghouse, to J. P. Darling, dated July 9, 1984 (L01 840723 035). Referenced in Section 4.0 of Attachments 10 and 11.

I. Memorandum from J. F. Murdock to J. B. Hosmer, dated June 3, 1988 (L29 880531 914). Referenced in Section 5.0 of Attachments 10 and 11.

- J. Memorandum from R. W. Fortenberry to S. J. Smith, dated July 21, 1988 (S57 880721 821). Referenced in Section 5.0 of Attachments 10 and 11.
- K. Memorandum from P. G. Trudel to S. J. Smith, dated August 19, 1988 (B25 880819 014). Referenced in Section 6.0 of Attachments 10 and 11.
- L. Memorandum from M. J. Ray to NRC, dated August 24, 1988 (L44 880824 802). Referenced in Section 6.0 of Attachments 10 and 11.
- M. Memorandum from L.E. Martin to P.G. Trudel, dated August 30, 1988 (S08 880830 843). Referenced in Section 6.0 of Attachments 10 and 11.
- N. Memorandum from P. G. Trudel to M. J. Ray, dated September 6, 1988 (B29 880906 008). Referenced in Section 6.0 of Attachments 10 and 11.
- O. Memorandum from P. G. Trudel to M. J. Burzynski, dated February 27, 1989 (B25 890227 002). Referenced in Section 5.0 of Attachment 11.
- P. Memorandum from S. Black, NRC to O.D. Kingsley Jr., dated April 19, 1990 (A02 900426 005). Referenced in 2-ISI-1 of Attachment 13.
- Q. Memorandum from P.G. Trudel to M.J. Burzynski, dated April 20, 1990 (B25 900420 008) Referenced in Section 5.0 of Attachment 10.
- R. Memorandum from F.J. Hebdon, NRC to O.D. Kingsley, Jr., dated February 7, 1991 (A02 910211 001). Referenced in 2-ISI-1 of Attachment 13.
- S. Memorandum from F.J. Hebdon, NRC, to O.J. Kingsley, dated February 7, 1991 (A02 910214 009). Referenced in 1-ISI-1 of Attachment 12.
- T. Memorandum from F. J. Hebdon, NRC, to Dr. Mark O. Medford, TVA, dated January 6, 1993 (A02 930108 005). Referenced in 1-ISI-2 of Attachments 12.
- U. Memorandum from F.J. Hebdon, NRC, to Dr. M.O. Medford, dated April 29, 1993, (A02 930503 002). Referenced in 2-ISI-2 of Attachment 13.
- V. Memorandum from J. E. Staub to G.L. Wade, dated November 29, 1993 (B25 931129 001). Referenced in Section 6.0 of Attachments 10 and 11.
- W. Memorandum from David E. Labarge, NRC to O.D. Kingsley Jr., dated March 15, 1994 (L44 940322 006). Referenced in Section 3.0 of Attachments 10 and 11.
- X. Memorandum from R.H. Shell to NRC dated February 6, 1995 (S64 950206 800). Referenced in Section 3.0 of Attachment 10 and 11.

2.8 ABBREVIATIONS AND DEFINITIONS

ALARA-----As Low As Reasonably Achievable
 ASNT-----American Society for Nondestructive Testing
 ASME-----American Society of Mechanical Engineers
 CFR-----Code of Federal Regulations
 DCRM-----Document Control and Records Management
 IEP-----Inspection and Examination Procedures
 ISI-----Inservice Inspection
 NDE-----Nondestructive Examination
 NRC-----Nuclear Regulatory Commission
 RADCON--Radiological Control
 RFR-----Request for Relief
 RWP-----Radiation Work Permit
 SI-----Surveillance Instruction
 SSP-----Site Standard Practice
 WR/WO---Work Request/Work Order

Components-----Denotes items in a power plant such as vessels, piping systems, pumps, valves, and component supports.

Normal Operation-----Normal plant operation conditions include reactor startup, operation at power, hot standby, and reactor cool down to cold shutdown conditions. Test conditions are excluded.

Pressure Retaining Material----Applies to items such as vessel heads, nozzles, pipes, tubes, fitting, valve bodies, bonnets, disks, pump casings, covers, and bolting which join pressure-retaining items.

3.0 PREREQUISITES AND PRECAUTIONS

3.1 PREREQUISITES

- A. When craft support of minor or similar maintenance (examples: scaffolding, insulation removal, buffing of welds using Scotchbrite pads, and cleaning bolts) is required to facilitate performance of this SI, a WR/WO may be used. This WR/WO shall be processed in accordance with SSP 6.21.

Additional WRs are required to remove fire barrier insulation foam in sleeves, piping support clamps, steam generator support rings, reactor coolant pump flywheel access covers and plugs, etc.

- B. Contact RADCON for radiation work permit (RWP)/ALARA preplanning requirements.

- C. Controlled copies of American Society of Mechanical Engineers (ASME) Section XI Code Classification Drawings and ISI Drawings are issued through DCRM.

3.2 Precautions

- A. Safety belts should be worn when working from scaffolding or ladders in accordance with SSP-7.55.
- B. Protective clothing, such as long-sleeve shirts, should be worn when working around hot pipes and equipment.
- C. Care should be exercised when climbing on plant structures and piping to ensure firm footing and to prevent damaging site equipment. Walking on flex hoses and insulation shall be avoided.
- D. Efforts should be made to ensure proper planning to reduce delays and radiation exposure in performance of the work.
- E. Read and observe all applicable precautions as indicated in SQN Surveillance Instruction 0-SI-OPS-000-011.0 Containment Access, and SSP 12.8 "Foreign Material Exclusion."

4.0 SPECIAL TOOLS AND EQUIPMENT

Equipment shall be specified by individual NDE Procedures.

5.0 ACCEPTANCE STANDARDS

The acceptance criteria shall be in accordance with the Inspection Services Organization Programs Manual (refer to IEP series).

Evaluations of examinations in accordance with IWB-3132.4, IWB- 3142.4, IWC-3122.4, IWC-3132.3, or (N-491)-3122.3 shall be submitted to the regulatory authority having jurisdiction at the plant site. This information shall be submitted with the Inservice Inspection Summary Report or, if deemed necessary, a separate report shall be submitted.

6.0 QUALIFICATIONS OF NDE PERSONNEL

Personnel performing NDE operations shall be qualified and certified in accordance with IEP-200.

7.0 IMPLEMENTATION AND RESPONSIBILITIES

Any revisions to this program initiated by other groups shall be submitted to ISI/NDE for approval prior to incorporating the revisions into this program.

Responsibilities shall be in accordance with SSP-6.10.

7.1 NDE EXAMINATIONS

- A. NDE methods shall be in accordance with IWA-2200 of ASME Section XI and this program as scheduled in Attachment 4 for Unit 1 and Attachment 5 for Unit 2 .
- B. NDE shall be performed in accordance with Inspection Services Organization Programs Manual (refer to IEP series) or approved contractor/vendor procedures.
- C. In accordance with IWA-2600, a reference system shall be established for all welds and areas subject to surface or volumetric examination. Each such weld and area shall be located and identified by a system of reference points in accordance with applicable NDE procedures
- D. When less than the required ASME Section XI code examination volume or area is examined, the percentage examined shall be documented on the examination data sheet. The cause of the limitation shall be clearly specified as a part of the data sheet documentation. Areas that are inaccessible or partially inaccessible shall be handled in accordance with SSP-6.10.

7.2 COMPONENTS SUBJECT TO EXAMINATION

A. ASME CLASS 1 EQUIVALENT COMPONENTS SUBJECT TO EXAMINATION (IWB)

- 1. ASME Class 1 equivalent systems (including the components contained therein, but excluding the integral attachments and supports) subject to examination per Unit are:

Chemical and Volume Control System

Reactor Coolant System

Reactor Coolant System Main Loop

Reactor Coolant Pumps (4)

Reactor Vessel

Pressurizer

Steam Generators (4)

Residual Heat Removal System

Safety Injection System

2. Components are scheduled for examination in accordance with ASME Section XI, Table IWB-2500-1. The specific components subject to examination are described in Attachment 1 and identified on drawings listed in Attachment 7, ISI Drawings List. The number of components within each system, the number selected for examination during the interval and the number selected for examination by period are provided in Table A of Attachment 4 for Unit 1 and in Table A of Attachment 5 for Unit 2. ASME Class 1 valves are further defined in Attachment 6 for Unit 1 and Unit 2.
3. The rules of IWB-1220 (a) and (b) have been used to exempt components from examination and establish the numbers in Table A, of Attachment 4 for Unit 1 and Table A of Attachment 5 for Unit 2. Components exempted from examination include component connections, piping, and associated valves and their supports that are one inch nominal pipe size and smaller, except for steam generator tubing; components connected to and part of the reactor coolant pressure boundary (defined in 10 CFR 50, Section 50.2(V); revised January 1, 1975) but exempted from Class 1 requirements by regulations of the regulatory authority having jurisdiction at the plant site; reactor vessel head connections and associated piping, 2-inch nominal pipe size and smaller, made inaccessible by control rod drive penetrations.
4. Examination Category B-A, B-B, B-D, B-E, B-F, B-G-1, B-G-2, B-L-1, B-M-1, B-L-2, B-M-2, B-N-1, B-N-2, B-N-3 and B-O components shall be selected for examination in accordance with Table IWB-2500-1, 1989 Edition of ASME Section XI.
5. All Examination Category B-F circumferential welds shall be examined in the interval with approximately 1/3 examined in each Period. The Code basis for this selection of Item Numbers B5.130, B5.140, and B5.150 is Table IWB-2500-1, Examination Category B-F, 1989 Edition of ASME Section XI.
6. Category B-J circumferential welds that were not examined in the first interval shall be selected to provide a 25 percent sample this interval. SQN does not have stress level calculations as required for selection per Table IWB-2500-1, Examination Category B-J, NOTE: (1)(b). The Code basis for this method of selection of Item Numbers B9.11, B9.21, B9.31, B9.32, and B9.40 is Table IWB-2500-1, Examination Category B-J, 1989 Edition of Section XI except the extent of examination is determined by the requirements of Table IWB-2500 and Table IWB-2600, Examination Category B-J, 1974 Edition with Addenda through Summer 1975 as allowed by 10CFR50.55a(b)(2)(ii).
7. All ASME Class 1 equivalent piping is seamless.

8. The entire length of each circumferential weld selected shall be examined, unless otherwise noted or if a physical limitation exists.
9. ASME Class 1 equivalent integrally welded attachments, Examination Categories B-H and B-K-1 shall be in accordance with Code Case N-509 see Section 7.2.D.
10. ASME Class 1 equivalent component supports, ASME Section XI Subsection IWF shall be in accordance with Code Case N-491. See Section 7.2.E.

B. ASME CLASS 2 EQUIVALENT COMPONENTS SUBJECT TO EXAMINATION (IWC)

1. ASME Class 2 equivalent systems (including the components contained therein, but excluding the integral attachments and supports) subject to examination per Unit are:

Containment Spray System

Containment Spray Heat Exchangers (2)

Containment Spray Pumps (2)

Feedwater System

High Pressure Safety Injection System (includes Safety Injection Residual Heat Removal, Containment Spray, and Chemical Volume Control)

Centrifugal Charging Pump (CCP) Tank (1)

CVCS Centrifugal Charging Pumps (2)

Safety Injection Pumps (2)

Seal Water Filter

Seal Water Heat Exchanger

Seal Water Injection Filters (2)

Main Steam System

Residual Heat Removal System

RHR Heat Exchangers (2)

RHR Pumps (2)

Safety Injection System

Steam Generators Secondary Side (4)

2. Components are scheduled for examination in accordance with ASME Section XI, Table IWC-2500-1, 1989 Edition of ASME Section XI the specific components subject to examination are described in Attachment 2 and identified on drawings listed in Attachment 7, ISI Drawings List. The number of components within each system, the number selected for examination during the interval and the number selected for examination by period are provided in Table B of Attachment 4 for Unit 1 and in Table B Attachment 5 Unit 2.
3. The rules of IWC-1221 and IWC-1222 have been used to exempt components from examination and establish the numbers in Table B of Attachment 4 for Unit 1, and in Table B of Attachment 5 for Unit 2.

Note: SQN Unit 1 and Unit 2 shall use the following criteria for vessels, pumps, and valves and their connections in piping for exemption. The 'in'piping is defined as having a cumulative inlet and a cumulative outlet pipe cross-section area neither of which exceeds the nominal OD cross sectional area of the designated size. See Request for Relief 1-ISI-4 of Attachment 12 for Unit 1 and 2-ISI-4 of Attachment 13 for Unit 2.

4. Examination Category C-A, C-B, C-D, and C-G components shall be selected for examination in accordance with Table IWC-2500-1.
5. To the extent practical, Examination Category C-F-1, Item Numbers C5.10, C5.20, C5.30, and C5.40 circumferential welds that have been previously examined shall be in the 7.5 percent sample selected for examination during the second interval in accordance with IWC-2420(a). Welds examined in the first interval shall be selected to the extent practical for reexamination in the respective periods of the second interval.

Note: Note (2) of Table IWC-2500-1, Examination Category C-F-1 establishes an 'Excluded' welds category for welds with less than 3/8" nominal wall for item number C5.10 and less than or equal to 1/5" nominal wall for item number C5.20. Excluded welds shall not be examined for Code credit, since there is no Item Number under the Examination Category.

The excluded welds that are not exempt are included in the total population to which the 7.5% was applied to determine the number of C-F-1 welds to be examined in the interval.

6. To the extent practical, Examination Category C-F-2, Item Numbers C5.50, C5.70, and C5.80 circumferential welds that have been previously examined shall be in the 7.5 percent sample selected for examination during the second interval in accordance with IWC-2420(a). Welds examined in the first interval shall be selected to the

extent practical for reexamination in the respective periods of the second interval.

Note: Note (2) of Table IWC-2500-1, Examination Categories C-F-2 establishes an 'Excluded' weld category for welds with less than 3/8" nominal wall. Excluded welds shall not be examined for Code credit, since they have no Item Number under the Examination Category.

The excluded welds that are not exempt are included in the total population to which the 7.5% was applied to determine the number of C-F-2 welds to be examined in the interval.

7. ASME Class 2 equivalent longitudinal welds, Examination Category C-F-1, Item Number C5.12, C5.22 and C5.42 and Examination Category C-F-2, Item Numbers C5.52 and C5.82, shall be in accordance with Code Case N-524.
8. ASME Class 2 equivalent integrally welded attachments, Examination Category C-C shall be in accordance with Code Case N-509. See Section 7.2.D.
9. ASME Class 2 equivalent component supports, ASME Section XI Subsection IWF shall be in accordance with Code Case N-491. See Section 7.2.E.
10. Where examinations specify a percentage of the total length of weld to be examined, the areas(s) examined shall be documented in the examination report. Where a percentage of weld length is not referenced, the entire weld length shall be examined.

C. ASME CLASS 3 EQUIVALENT COMPONENTS SUBJECT TO EXAMINATION (IWD)

ASME Class 3 equivalent integrally welded attachments, examination categories D-A, D-B and D-C shall be in accordance with Code Case N-509. See Section 7.2.D.

ASME Class 3 equivalent component supports, ASME Section XI Subsection IWF shall be in accordance with Code Case N-491. See Section 7.2.E.

D. ASME CLASS 1, 2 and 3 EQUIVALENT INTEGRAL WELDED ATTACHMENTS

ASME Class 1, 2 and 3 equivalent systems including the components integrally welded attachments subject to examination (B-H, B-K-1, C-C, D-A, D-B, and D-C) in accordance with Code Case N-509.

1. ASME Class 1 equivalent integral attachments subject to examination per Unit are:

Chemical and Volume Control System

Reactor Coolant System

Reactor Coolant System Main Loop

Reactor Coolant Pumps (4) - RCP (Unit 2 only)

Reactor Vessel

Pressurizer

Steam Generators (4)

Residual Heat Removal System

Safety Injection System

2. ASME Class 2 equivalent systems integral attachments subject to examination per Unit are:

Containment Spray System

Containment Spray Heat Exchangers (2)

Containment Spray Pumps (2)

Feedwater System

High Pressure Safety Injection System (includes Safety Injection, Residual heat Removal, Containment Spray, and Chemical Volume Control)

Centrifugal Charging Pump (CCP) Tank/(Boron Injection Tank (1) (BIT))

CVCS Centrifugal Charging Pumps (2)

Safety Injection Pumps (2)

Seal Water Filter

Seal Water Heat Exchanger

Seal Water Injection Filters (2)

Mainsteam System

Residual Heat Removal System

RHR Heat Exchangers (2)

RHR Pumps (2)

Safety Injection System

Steam Generators (4)

3. ASME Class 3 equivalent systems integral attachments subject to examination per Unit are:

Auxiliary Feedwater System

Turbine Driven Auxiliary Feedwater Pump (1) Support -
TDAFP (AFW)

Motor Driven Auxiliary Feedwater Pump (2) Support -
MDAFP (AFW)

Component Cooling System

Component Cooling Surge Tank (1) Support - CCST (CCS)

Component Cooling System Water Pumps Unit 1(3), Unit 2(2)
Support -CCSWP (CCS)

Component Cooling Heat Exchanger (2) Support - CCHX (CCS)

Gas Stripper and Boric Acid Evaporator

GSBAE Evaporator Condenser (1) Support -EC (CCS)

GSBAE Distillate Cooler (1) Support - DC (CCS)

GSBAE Support Frame (1) - SF (CCS)

Nonregenerative Letdown Heat Exchanger (1) Support -
NRLHX (CCS)

RHR Heat Exchanger Secondary Side (2) Supports -
RHRHSXH (CCS)

Essential Raw Cooling Water System

Essential Raw Cooling Water System Strainer (2) Support - ERCWS (ERCW)

Essential Raw Cooling Water System Pump Station Pump Supports (included in Unit 1 only)

Essential Raw cooling Water Screen Wash Pump Support (included in Unit 1 only)

Old ERCW Pumping Station Strainer

Containment Spray Heat Exchanger (2) Support - CSH (ERCW)

Fuel Pool Cooling System (included in Unit 1 only)

Fuel Pool Cooling And Cleaning System - Spent Fuel Pit Pump Support (included in Unit 1 only)

Fuel Pool Cooling And Cleaning System - Spent Fuel Pit Heat Exchanger Support (included in Unit 1 only)

Air Conditioning Chilled Water System - (ACCW)

Shutdown Board Room Water Chiller

Chilled Water Circulation Pump

Chilled Water Air Separator

4. The specific integral welded support attachments subject to examination are described in Attachment 3 and identified on drawings listed in Attachment 7, ISI Drawings. The number of integral welded support attachments within each system, the number selected for examination during the interval and the number selected for examination by period are provided in Table C of Attachment 4 for Unit 1 and in Table C of Attachment 5 for Unit 2.

Note: Integral welded support attachments examination is required whenever component support member deformation (e.g., broken, bent, or pulled out parts) is identified during operation, refueling, maintenance, examination, inservice inspection, or testing.

5. The rules of IWB-1220, IWC-1220, and IWD-1220 have been used to exempt components from examination and establish the numbers in Table C of Attachment 4 for Unit 1, and in Table C of Attachment 5 for Unit 2. Except for ASME Class 3 equivalent Auxiliary Feedwater system.

Note: 1. SQN Unit 1 and Unit 2 shall use the following criteria for ASME Class 2 and 3 equivalent vessels, pumps, and valves and their connections in piping for exemption. The 'in' piping is defined as having a cumulative inlet and a cumulative outlet pipe cross-section area neither of which exceeds the nominal OD cross sectional area of the designated size. See Request for Relief 1-ISI-4 for Unit 1 and 2-ISI-4 for Unit 2.

Note: 2. SQN Unit 1 and Unit 2 shall use the following criteria for ASME Class 3 equivalent Auxiliary Feedwater System the piping nominal pipe size 1 inch and smaller and vessels, pumps, and valves and their connections in piping nominal pipe size 1 inch and smaller are exempt from NDE examinations. See Request for Relief 1-ISI-3 for Unit 1 and 2-ISI-3 for Unit 2.

E. COMPONENT SUPPORTS SUBJECT TO EXAMINATION (IWF, CODE CASE N-491)

ASME Class 1, 2, and 3 equivalent systems including the components supports subject to examination in accordance with Code Case N-491.

1. ASME Class 1 equivalent supports subject to examination per Unit are:

Chemical and Volume Control System

Reactor Coolant System

Reactor Coolant System Main Loop

Reactor Coolant Pumps (4)

Reactor Vessel

Pressurizer

Steam Generators (4)

Residual Heat Removal System

Safety Injection System

2. ASME Class 2 equivalent supports subject to examination per Unit are:

Containment Spray System

Containment Spray Heat Exchangers (2)

Containment Spray Pumps (2)

Feedwater System

High Pressure Safety Injection System (includes Safety Injection, Residual Heat Removal, Containment Spray, and Chemical Volume Control)

Centrifugal Charging Pump (CCP) Tank/(Boron Injection Tank (BIT)) (One)

CVCS Centrifugal Charging Pumps (2)

Safety Injection Pumps (2)

Seal Water Filter

Seal Water Heat Exchanger

Seal Water Injection Filters (2)

Main Steam System

Residual Heat Removal System

RHR Heat Exchangers (2)

RHR Pumps (2)

Safety Injection System

Steam Generators (4)

3. ASME Class 3 equivalent supports subject to examination are:

Auxiliary Feedwater System

Turbine Driven Auxiliary Feedwater Pump (1) Support -TDAFP (AFW)

Motor Driven Auxiliary Feedwater Pump (2) Support -MDAFP (AFW)

Chemical and Volume Control System

Component Cooling System

Component Cooling Surge Tank (1) Support - CCST (CCS)

Component Cooling System Water Pumps Unit 1(3), Unit 2(2) Support -CCSWP (CCS)

Component Cooling Heat Exchanger (2) Support - CCHX (CCS)

Gas Stripper and Boric Acid Evaporator

GSBAE Evaporator Condenser (1) Support -EC

GSBAE Distillate Cooler (1) Support - DC (CCS)

GSBAE Support Frame (1) - SF (CCS)

Nonregenerative Letdown Heat Exchanger (1) Support -NRLHX
(CCS)

RHR Heat Exchanger Secondary Side (2) Supports -RHRHSXH
(CCS)

Essential Raw Cooling Water System

Essential Raw Cooling Water System Strainer (2) Support -
ERCWS (ERCW)

Essential Raw Cooling Water System Pump Station Pump Supports
(included in Unit 1 only)

Essential Raw cooling Water Screen Wash Pump Support (included in
Unit 1 only)

Old ERCW Pumping Intake Station Strainer

Containment Spray Heat Exchanger (2) Support - CSH (ERCW)

Fuel Pool Cooling System (included in Unit 1 only)

Fuel Pool Cooling And Cleaning System - Spent Fuel Pit Pumps
(included in Unit 1 only)

Fuel Pool Cooling And Cleaning System - Spent Fuel Pit
Heat Exchanger (included in Unit 1 only)

Air Conditioning Chilled Water System - (ACCW)

Shutdown Board Room Water Chiller

Chilled Water Circulation Pump

Chilled Water Air Separator

4. Component and piping supports shall be examined in accordance with Code Case N-491 Table -2500-1. Component supports to be examined shall be the supports of those components that are required to be

examined under Sections 7.2.A, 7.2.B, and 7.2.D by volumetric, surface, or visual (VT-1 or VT-3) examination methods.

These component and piping supports are within the systems identified in Sections 7.2.E.1, 7.2.E.2 and 7.2.E.3. The specific supports subject to examination are identified on ISI Drawings listed in Attachment 7 and described in Attachments 1, 2, and 3.

5. Component and piping supports exempt from NDE examinations are those connected to components and items exempted by IWB-1220, IWC-1220, and IWD-1220, (except for ASME Class 3 equivalent Auxiliary Feedwater system) and portions of those that are inaccessible by being encased in concrete, buried underground, or encapsulated by guard pipe.

Note: 1. SQN Unit 1 and Unit 2 shall use the following criteria for ASME Class 2 and 3 equivalent vessels, pumps, and valves and their connections in piping for exemption. The in piping is defined as having a cumulative inlet and a cumulative outlet pipe cross-section area neither of which exceeds the nominal OD cross sectional area of the designated size. See Request for Relief 1-ISI-4 for Unit 1 and 2-ISI-4 for Unit 2.

Note: 2. SQN Unit 1 and Unit 2 shall use the following criteria for ASME Class 3 equivalent Auxiliary Feedwater System the piping nominal pipe size 1 inch and smaller and vessels, pumps, and valves and their connections in piping nominal pipe size 1 inch and smaller are exempt from NDE examinations. See Request for Relief 1-ISI-3 for Unit 1 and 2-ISI-3 for Unit 2.

6. Supports depicted as snubbers on the support drawings are subject to examination outside the boundaries of the snubber (beyond the pins) in accordance with IWF-5300(c). The pin to pin examination of snubbers are covered by the Snubber Inservice Testing Program.
7. The number of supports subject to an examination sample plan, the number selected for examination during the interval and the number selected for examination by period are provided in Table D of Attachment 4 for Unit 1, and in Table D of Attachment 5 for Unit 2.
8. Support examination boundaries shall be in accordance with (N- 491)-1300. Examination and acceptance of variable support settings shall be in accordance with the detailed support drawing. If a total acceptance range is required and is not given on the detail support drawing, it shall be calculated in accordance with Inspection Services Organization Programs Manuals (refer to IEP series).
9. Component supports that have been adjusted in accordance with (N-491)-3000, repaired, or replaced shall be examined prior to return

of the system to service per the applicable examinations listed in Table -2500-1. For systems that operate above 200 degrees F during normal operation, an additional preservice examination shall be performed on the affected component supports during or following the subsequent system heat-up and cool-down cycle unless determined unnecessary by evaluation. This examination shall be performed during operation or at the next refueling outage.

7.3 NOTIFICATION OF INDICATION

The process on handling notification of indication found during the performance of scheduled ISI examinations shall be in accordance with SSP-6.10.

7.4 SUCCESSIVE EXAMINATIONS AND ADDITIONAL EXAMINATIONS FOR ASME CODE CLASS 1, 2 AND 3

Successive examinations and additional examinations for ASME Code Class 1, 2 and 3 are determined in accordance with SSP-6.10. See Attachment 8 for Unit 1 and Attachment 9 for Unit 2 for scheduled successive examinations.

7.5 CONFIGURATION CHANGES

Configuration changes identified shall be handled in accordance with SSP-6.10.

7.6 CALIBRATION STANDARDS

Calibration standards shall be in accordance with SSP-6.10.

7.7 RECORDS AND REPORTS

A. Records and reports shall be in accordance with SSP-6.10.

B. Records for ASME Code Class 1, 2 and 3 (Equivalent) *

The following records and drawings are QA Records are generated by this instruction and shall be retained in accordance with SSP-2.9:

1. Site Final Report
2. ASME Section XI Boundary Classification Drawings
3. ASME Section XI ISI Drawings

In process records shall be controlled with SSP-2.9.

C. Augmented Examination Reports

For specific details on Augmented Examinations records, reports and reporting see Attachment 10 for Unit 1 and Attachment 11 for Unit 2.

D. Status of Completed Examinations

Status of completed examinations shall be in accordance with SSP-6.10.

7.8 REQUESTS FOR RELIEF (RFR)

Requests for relief shall be in accordance with SSP-6.10.

Requests for relief are included in Attachment 12 for Unit 1 and in Attachment 13 for Unit 2.

7.9 CORRECTIVE ACTION PROGRAM

Any corrective action required as a result of ISI examinations shall be handled in accordance with SSP-6.10.

7.10 SCAN PLAN

Scan Plans shall be in accordance with SSP-6.10.

NOTE: When inservice examinations are performed as a result of instructions other than this program (e.g., maintenance instructions, work plans, etc.), copies of the examination data sheet shall be submitted to ISI/NDE by the performing organization for assignment of a report number and incorporation into the scan plan.

7.11 AUGMENTED EXAMINATIONS

Attachment 10 for Unit 1 and in Attachment 11 for Unit 2 provides a description and schedule for augmented examinations. Augmented examinations are to be handled in accordance with SSP-6.10 The following is a listing of Augmented examinations:

Unit 1

Feedwater Nozzle-to-Pipe Welds and Adjacent Pipe/Fittings and Nozzle Areas/Auxiliary Feedwater

Reactor Coolant Pump Flywheel

RPV Nozzle Cladding [C.1]

Control Rod Guide Tube Flexures

Thimble Tube Guide

Examination of Piping Connected to the Reactor Coolant System Due to Thermal Stresses

Pressurizer Relief Line Repair Welds and Adjoining Areas

Unit 2

Feedwater Nozzle-to-Pipe Welds and Adjacent Pipe/Fittings and Nozzle Areas/Auxiliary Feedwater

Reactor Coolant Pump Flywheel

RPV Nozzle Cladding [C.1]

Control Rod Guide Tube Flexures

Thimble Tube Guide

Examination of Piping Connected to the Reactor Coolant System Due to Thermal Stresses

Source Notes

Requirements	Source Notes	Implementing Statements
All	SSP-6.10	All
All Applicable Articles	ASME Boiler and Pressure Vessel Code Section XI 1989 Edition	All
All Applicable articles	ASME Boiler and Pressure Vessel Code Section V	All
All Applicable Chapters	FSAR - SQN	All
Surveillance requirements 4.0.5 and 4.4.3.2.4	Technical Specifications Unit 1	All
Surveillance requirements 4.0.5	Technical Specifications Unit 2	All
10CFR50.55a	Code of Federal Regulations 10CFR50	All
As applicable	U.S.N.R.C. Regulatory Guides 1.14, 1.26, 1.147, and 1.150	All
All	Code Cases N-198-1, N-307-1, N-457, N-460, N-461, N-463-1, N-481, N-491, N-494-1, N-494-2, N-503, N-509, N-521, and N-524	All
Augmented Examination Reactor Pressure Vessel Nozzles	Memorandum from R.A. Fenech to NRC, dated February 22, 1994 (S64 940218 801) Memorandum from D.E. Labarge, NRC to O.D. Kingsley, Jr., dated March 15, 1994 (L44 940322 006) (NC0 930202 004)	C.1 Referenced in Section 7.11 and Attachment 10 and 11.

Attachment 1 ASME Class 1 Equivalent Components Subject to Examination (Unit 1 and Unit 2)

Mechanical/Nuclear Engineering

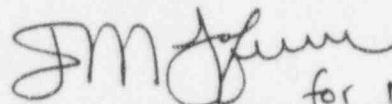
- A. **MAINTAIN** a listing of ASME Class 1 components subject to ISI/NDE examinations.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.


for M. Lorek _____, 10/13/95
Mechanical/Nuclear Engineering Manager/Designee Date

ASME CLASS 1 EQUIVALENT COMPONENTS SUBJECT TO EXAMINATION (UNIT 1 AND UNIT 2)

The ASME Code Class 1 (equivalent) components to be examined during the inspection interval are outlined below. The entire length of each weld described shall be examined for the second 10-year ISI interval unless otherwise noted. When a portion of a weld length is to be examined during an inspection period, the areas examined each inspection period shall be documented on the examination data sheets.

Table A, Table C (Integrally Welded Attachments), and Table D (Component Supports) of Attachment 4 for Unit 1 and Attachment 5 for Unit 2 shall be used for items selected for examination which provides the examination schedule for the interval and additional information such as reference ISI drawings numbers and ASME Section XI, Table IWB-2500-1, examination categories.

Note: Additional material specifications for piping and equipment is stated on the ISI drawings.

1.0 Reactor Vessel

1.1 Reactor Vessel Seam Welds (B-A)

A. Circumferential Shell Welds

Note: Due to the location of the vessel flange-to-upper shell weld, this weld is classified as a reactor vessel shell weld. See Request for Relief 1-ISI-1 for Unit 1 and 2-ISI-1 for Unit 2.

There are four circumferential welds and one vessel flange-to-upper shell weld on the Reactor Vessel classified as circumferential shell welds. Three of the circumferential shell welds are located behind the thermal shield. The entire length of each of these welds shall be ultrasonically examined during the third inspection period using remote inspection devices from the vessel inside diameter with the core internals removed.

B. Longitudinal Shell Welds

There are no longitudinal shell welds associated with the reactor vessel.

C. Closure Head Circumferential Weld

The entire length of the closure head cap weld shall be manually ultrasonically examined from the head outside diameter. The entire length of the weld shall be ultrasonically examined during the third inspection period.

D. Lower-Head Circumferential Weld

The entire length of the lower head circumferential weld shall be ultrasonically examined during the third inspection period using remote

inspection devices from the vessel inside diameter with the core internals removed.

E. Closure Head Meridional Weld

The closure head does not include any meridional welds.

F. Lower-Head Meridional Welds

There are six meridional welds located in the lower head. The entire length of each of these welds shall be ultrasonically examined during the third inspection period using remote inspection devices from the vessel inside diameter with the core internals removed.

G. Shell-to-Flange Weld

The vessel flange-to-upper shell weld is 39 inches for Unit 1 and 41.9 inches for Unit 2 below the flange face. Due to the location of the vessel flange-to-upper shell weld, this weld is being classified as a reactor vessel shell weld. See Section 1.1.A.

H. Closure Head-to-Flange Weld

The entire length of the head-to-flange weld will be manually, ultrasonically examined from the head outside diameter during the third inspection period. The entire length of the closure head-to-flange area will be surface examined during the first inspection period.

There is only one weld in examination Category B-A, Item No. B1.40. The ultrasonic examination shall be deferred to the end of the inspection interval. Therefore to accomplish the examination percentage 100% of weld length shall be examined in one inspection period.

I. Repair Welds

There are no base metal repair welds in the beltline region of the Unit 1 or Unit 2 reactor vessel.

1.2 Reactor Vessel Nozzle-to-Vessel Welds (B-D)

There are four inlet nozzles and four outlet nozzles. The eight nozzle-to-vessel welds shall be ultrasonically examined from the nozzle bore and from the vessel inside wall. These examinations will be performed during the third inspection period when the core barrel has been removed. See Code Case N-521.

1.3 Reactor Vessel Nozzle Inside Radius Section (B-D)

The eight nozzle inside radius sections shall be ultrasonically examined at the same time as the examination of the nozzle-to-vessel welds during the third

inspection period when the core barrel has been removed. See Code Case N-521.

1.4 Reactor Vessel Partial Penetration Welds (B-E)

The vessel includes 4 Upper Head Injection (UHI) nozzles (capped in Unit 1 and Unit 2 Cycle 4 UHI removal), 1 vent pipe nozzle, 78 control rod drive nozzles, and 58 instrumentation nozzles with partial penetration welds. Approximately 25 percent of each group of nozzles shall be examined from the vessel outside diameter in accordance with visual examination method VT-2. This 25 percent shall include 1 UHI nozzle, 1 vent pipe nozzle, 20 control rod drive nozzles, and 15 instrumentation nozzles. These nozzles shall be visually examined during the third inspection period.

1.5 Reactor Vessel Nozzle-to-Safe End Welds (B-F)

Note: This examination is to include the pipe to safe end weld.

The inlet and outlet nozzle-to-safe end welds shall be ultrasonically examined from the inside diameter using remote inspection devices. The ultrasonic examination shall be performed at the same time as the examination of the nozzle-to-vessel welds conducted from the nozzle bore during the third inspection period when the core barrel has been removed. See Section 1.2.

All of the nozzle-to-safe end welds shall be liquid penetrant examined during the third inspection period.

Each nozzle safe end weld is a stainless steel type 304 weld build up (buttering). See Code Case N-521.

1.6 Reactor Vessel Pressure Retaining Bolting Larger Than Two Inches In Diameter (B-G-1)

During each refueling outage all closure studs, nuts, and washers are removed. All of the 54 closure studs, nuts, washers, and threads in flange examinations shall be distributed among the inspection periods.

The closure nuts shall be magnetic particle examined. The closure studs shall be ultrasonically and magnetic particle examined. The threads in flange shall be ultrasonically examined. The closure washers shall be examined in accordance with visual examination method VT-1.

The bolting may be examined either (a) in place under tension, (b) when the connection is disassembled, or (c) when the bolting is removed.

Provisions for this examination are in accordance with 0-MI-MRR-068-005.0 and the applicable NDE procedure.

1.7 Reactor Vessel Pressure Retaining Bolting Two Inches And Smaller In Diameter (B-G-2)

There is no pressure retaining bolting two inches or smaller in diameter.

1.8 Reactor Vessel Control Rod Drive Housing Pressure Retaining Bolting Two Inches And Smaller In Diameter (B-G-2)

There is no pressure retaining bolting two inches or smaller in diameter.

1.9 Reactor Vessel Interior (B-N-1)

The vessel interior shall be examined in accordance with visual examination method VT-3. This examination shall include the space above and below the reactor core that is made accessible for examination by removal of components during normal refueling outages. This examination shall be performed each inspection period.

1.10 Reactor Vessel Interior Attachments Within Beltline Region (B-N-2)

There are no interior attachments within the Reactor Vessel beltline region.

1.11 Reactor Vessel Interior Attachments Beyond Beltline Region (B-N-2)

There are 6 interior attachments (core support pads) beyond the beltline region all 6 core support pads shall be examined in accordance with visual examination method VT-3. This examination may be deferred to the third inspection period.

1.12 Reactor Vessel Removable Core Support Structures (B-N-3)

The accessible attachment welds and accessible surfaces of the core support structure shall be examined in accordance with visual examination method VT-3. This examination may be deferred to the third inspection period. The core support structure shall be removed from the reactor vessel for examination.

1.13 Reactor Vessel Control Rod Drive Housings (B-O)

There are 78 control rod drive housings penetrating the closure head. Each housing includes a pressure retaining dissimilar metal butt weld.

There are 17 peripheral control rod drive housings. Two (10 percent) of the peripheral housing butt welds shall be ultrasonically examined during the inspection interval.

It is impractical due to radiation exposure, access, and time on the head to examine these welds in different periods as done in the first inspection interval. Since the examinations may be deferred the welds shall be examined in the third inspection period.

2.0 Pressurizer

2.1 Pressurizer Circumferential Shell-to-Head Welds (B-B)

There are two circumferential shell-to-head welds to be ultrasonically examined during the inspection interval. Examinations shall be distributed among the inspection periods.

2.2 Pressurizer Longitudinal Shell-to-Head Welds (B-B)

There is one longitudinal weld intersecting each circumferential shell-to-head weld. One foot of the longitudinal weld per head shall be ultrasonically examined during the inspection interval.

The one foot of weld examined during each examination shall include the length of weld as measured from the point of intersection of the longitudinal weld with the circumferential head-to-shell weld.

2.3 Pressurizer Head Circumferential and Meridional Welds (B-B)

There are no pressurizer circumferential or meridional head welds.

2.4 Pressurizer Nozzle-to-Vessel Welds and Nozzle Inside Radius Section (B-D)

The pressurizer includes three 6-inch safety valve nozzles, one 6-inch relief valve nozzle, one 4-inch spray nozzle, and one 14-inch surge nozzle. All of the nozzle-to-vessel welds, including nozzle inside radius section, shall be ultrasonically examined during the inspection interval. Examinations shall be distributed among the inspection periods.

2.5 Pressurizer Heater Penetration Welds (B-E)

There are 78 heater penetration welds located in the pressurizer lower head. All of the heater penetration welds shall be examined during the inspection interval in accordance with visual examination method VT-2. Examination of these penetrations during the inspection interval shall be during the third inspection period.

2.6 Pressurizer Nozzle-to-Safe End Welds (B-F)

Each of the six nozzles identified in Section 2.4 includes a welded forging safe end. All of the nozzle-to-safe end welds shall be ultrasonically and liquid penetrant examined during the inspection interval. Examinations shall be distributed among the inspection periods.

2.7 Pressurizer Pressure Retaining Bolting Larger Than Two Inches In Diameter (B-G-1)

There is no pressure retaining bolting larger than 2 inches in diameter.

2.8 Pressurizer Pressure Retaining Bolting Two Inches And Smaller In Diameter (B-G-2)

All of the pressurizer manway bolts shall be examined in accordance with visual examination method VT-1. Examinations shall be distributed among the inspection periods.

The bolts may be examined in place under tension, disassembled or when the bolts are removed. It is preferable to perform the examinations when the bolts are removed if possible.

Removal of the manway cover is performed in accordance with 0-MI-MXX-068-004.0 and provides for examination of bolting.

The pressurizer manway includes 16 bolts at 1.88 inches in diameter.

3.0 Steam Generators (4)

3.1 Steam Generator Primary Side Head Circumferential And Meridional Welds (B-B)

There are no steam generator primary side circumferential or meridional head welds.

3.2 Steam Generator Primary Tubesheet-to-Head Weld (B-B)

Each steam generator includes a tubesheet-to-head weld. The entire length of one tubesheet-to-head weld shall be ultrasonically examined during inspection interval.

3.3 Steam Generator Primary Nozzle Inside Radius Section (B-D)

The steam generator primary nozzles are an integral part of the vessel. Each steam generator consists of two integrally cast nozzles. The primary nozzle inside radius section of all nozzles shall be ultrasonically examined during the inspection interval.

3.4 Steam Generator Primary Nozzle-to-Safe End Welds (B-F)

Note: These examinations are to include the pipe to safe end weld.

Each steam generator includes two nozzles with buttered safe ends. Each nozzle-to-safe end weld from each generator shall be ultrasonically and liquid penetrant examined during the inspection interval. Examinations shall be distributed among the inspection periods.

3.5 Steam Generator Primary Pressure Retaining Bolting Larger Than Two Inches In Diameter (B-G-1)

There is no pressure retaining bolting larger than two inches in diameter.

3.6 Steam Generator Primary Pressure Retaining Bolting Two Inches And Smaller In Diameter (B-G-2)

Each steam generator includes two manways. Each manway includes 16 bolts at 1.88 inches in diameter. Two manways (all bolts, studs, and nuts) from one steam generator shall be visually examined in accordance with visual examination method VT-1 during the inspection interval. Examinations shall be distributed among the inspection periods.

The bolting may be examined in place under tension, disassembled or when they are removed. It is preferable to perform the examinations when the bolting is removed if possible. Removal of bolting is performed in accordance with 0-MI-MXX-068-003.0 and provides for examination of bolting.

4.0 Piping

All ASME Code Class 1 (equivalent) piping systems to be examined are fabricated of stainless steel. The reactor coolant main loop piping straight lengths are centrifugal cast and the elbows are static cast. The reactor vessel auxiliary head adapters are addressed in Sections 4.3.F. Specific material specifications for each piping system are included on the weld drawings.

The following ASME Code Class 1 (equivalent) piping systems are subject to examination:

Chemical and Volume Control (CVC)

Reactor Coolant Main Loop (RX)

Reactor Coolant System (RC)

Residual Heat Removal (RHR)

Safety Injection (SI)

4.1 Piping Pressure Retaining Bolting Larger Than 2 Inches In Diameter (B-G-1)

There is no piping pressure retaining bolting larger than 2 inches in diameter.

4.2 Piping Pressure Retaining Bolting 2 Inches and Smaller in Diameter (B-G-2)

The following systems contain bolted piping flange connections. All of the bolts or studs and nuts in each flange connection shall be examined during the

inspection interval in accordance with visual examination method VT-1. The examinations shall be distributed during the inspection interval.

The bolting may be examined in place under tension, disassembled or when the bolting is removed.

A. Reactor Coolant System Piping Bolting

The Reactor Coolant System piping includes bolted flange connections.

B. Chemical and Volume Control System Piping Bolting

The Chemical and Volume Control System (seal water injection) piping includes bolted flange connections.

C. RHR System Piping Bolting

The RHR System piping does not include any bolted connections.

D. Safety Injection System Piping Bolting

The Safety Injection System piping includes bolted flange connections.

4.3 Circumferential and Longitudinal Piping Welds (B-J)

All ASME Class 1 equivalent piping is seamless.

Examination Category B-J circumferential welds that were not examined in the first interval shall be selected to provide a 25 percent sample this interval. SQN does not have stress level calculations as required for selection per Table IWB-2500-1, Examination Category B-J, Note: (1) (b). The Code basis for this method of selection of Item Number B9.11, B9.21, B9.31, B9.32, and B9.40 is Table IWB-2500-1, Examination Category B-J, 1989 Edition of Section XI except the extent of examination is determined by the requirements of Table IWB-2500 and Table IWB-2600, Examination Category B-J, 1974 Edition with Addenda through Summer 1975 as allowed by 10CFR50.55a(b) (2) (ii).

Circumferential pipe welds 4 inches and greater NPS selected for examination shall be ultrasonically and liquid penetrant examined. Circumferential pipe welds less than 4-inch NPS selected for examination shall be liquid penetrant examined.

The examinations performed during the inspection interval shall include approximately 25 percent of the 40-year sample of circumferential welds. The examinations shall be distributed during the inspection interval.

A. Reactor Coolant System Main Loop Piping Circumferential Welds

The Reactor Coolant System Main Loop piping 4 inches and greater NPS welds shall be ultrasonically and liquid penetrant examined during the inspection periods.

There are no Class 1 pipe welds less than 4-inch NPS in the Reactor Coolant System Main Loop piping.

B. Reactor Coolant System Piping Circumferential Welds

The Reactor Coolant System piping 4 inches and greater NPS welds shall be ultrasonically and liquid penetrant examined during the inspection periods.

The Reactor Coolant System pipe less than 4-inch NPS welds shall be liquid penetrant examined during the inspection periods.

C. Chemical and Volume Control System Piping Circumferential Welds

There are no Class 1 pipe welds 4 inches and greater NPS in the CVCS system.

The Chemical and Volume Control System piping (including seal water injection) less than 4-inch NPS welds shall be liquid penetrant examined during the inspection periods.

D. RHR System Piping Circumferential Welds

The RHR System piping 4 inches and greater NPS welds shall be ultrasonically and liquid penetrant examined during the inspection periods.

There are no Class 1 pipe welds less than 4-inch NPS in the RHR system.

E. Safety Injection System Piping Circumferential Welds

The Safety Injection System piping 4 inches and greater NPS welds shall be ultrasonically and liquid penetrant examined during the inspection periods.

The Safety Injection System piping less than 4-inch NPS welds shall be liquid penetrant examined during the inspection periods.

F. Reactor Vessel Auxiliary Head Adapter Cap Welds (B-J)

1. Reactor Vessel Auxiliary Head Adapter Cap Welds

Note: These welds are classified as Reactor Coolant System.

The Upper Head Injection System was removed from service during Unit 1 Cycle 4 and Unit 2 Cycle 4 and replaced with welded pipe

caps. One of these four circumferential pipe cap welds (approximately 5.5 inches in diameter.) shall be ultrasonically and liquid penetrant examined during the inspection interval.

2. Reactor Vessel Auxiliary Head Adapter Dissimilar Metal Welds

Note: The auxiliary head adapter dissimilar metal welds are included in the Reactor Coolant System.

Each of the four auxiliary head adapters includes a pressure retaining dissimilar metal weld. One of these four dissimilar metal welds shall be ultrasonically and liquid penetrant examined during the inspection interval.

4.4 Branch Piping Connection Welds (B-J)

Note: In the case of branch pipe connections 4 inches NPS and smaller, the welds of all the systems affected have been combined and shall be evenly distributed over the four inspection intervals.

The entire length of each branch pipe connection weld selected for examination shall be examined. Branch pipe connection welds 4 inches and greater NPS shall be ultrasonically and liquid penetrant examined. Branch pipe connection welds less than 4 inches NPS shall be liquid penetrant examined.

The examinations performed during the inspection interval shall include approximately 25 percent of the branch pipe connection welds. The examinations shall be distributed during the inspection interval.

The following piping systems contain branch pipe connection welds 4 inches and greater NPS and branch pipe connection welds less than 4 inches NPS:

Chemical and Volume Control

Reactor Coolant

Reactor Coolant Main Loop

Residual Heat Removal

Safety Injection

4.5 Piping Socket Welds (B-J)

The entire length of each socket weld selected for examination shall be liquid penetrant examined.

The examinations performed during the inspection interval shall include approximately 25 percent of the socket welds. The examinations shall be distributed and performed during the inspection periods and include the following systems:

Chemical and Volume Control

Reactor Coolant

Residual Heat Removal

Safety Injection

5.0 Reactor Coolant Pumps (4) - RCP

5.1 RCP Pressure Retaining Bolting Larger Than Two Inches In Diameter (B-G-1)

The main flange on each pump includes 24 bolts of 4-1/2 inches in diameter and 30-1/2 inches in length.

All of the bolts from one pump shall be ultrasonically examined during the inspection interval (only if the pump interior surface examination is performed (B-L-2)). Bolting may be examined either (a) in place under tension, (b) when the connection is disassembled, or (c) when the bolting is removed.

Flange ligaments between threaded bolt holes shall be visually examined (VT-1) once during the inspection interval if the connection is disassembled at any time during the inspection interval.

If the bolts are removed at any time during the inspection interval, the threads in the base material shall be visually examined (VT-1) once during the inspection interval.

Provisions for this examination are included in MI-2.2.

5.2 RCP Pressure Retaining Bolting 2 Inches and Smaller in Diameter (B-G-2)

Each RCP includes two sets of pressure retaining bolting 2 inches and smaller in diameter. The bolting sets include the number 1 seal housing and cartridge seal assembly bolting. The Number 1 seal housing assembly bolting includes 12 HEX head cap screws at 2 inches in diameter. The cartridge seal assembly bolting includes 8 socket head cap screws at 1.5 inches in diameter. The number 1 seal assembly bolting and cartridge seal assembly bolting from one pump shall be visually examined in accordance with visual examination method VT-1. All of these shall be examined during the inspection interval (only if the pump interior surface examination is performed (B-L-2)).

Bolting may be examined either (a) in place under tension, (b) when the connection is disassembled, or (c) when the bolting is removed. It is preferable to perform the examinations when the bolts are removed if the

connection(s) is disassembled. Removal of bolting is performed in accordance with MI-10.2.3 and provides for examination of bolting.

5.3 RCP Casing Welds (B-L-1)

The Unit 2 RCPs pumps do not include casing welds.

Each Unit 1 RCP casing includes a 2-piece welded type 304SST casting. The casing welds cannot be ultrasonically examined and achieve meaningful results due to limitations of examining integrally cast material. The RCP casing welds shall be examined in accordance with Code Case N-481.

Code Case N-481 provides guidance for using alternative examination methods on cast austenitic pump casings. In using the Code Case N-481, the following requirements shall be met.

- A. Part (a) thru (c) of Code Case N-481 require visual examination:
 - 1. Perform a VT-2 visual examination of the exterior of all pumps during the hydrostatic pressure test required by Table IWB-2500-1, Category B-P.
 - 2. Perform a VT-1 visual examination of the external surfaces of the weld of one pump casing.
 - 3. Perform a VT-3 visual examination of the internal surfaces whenever a pump is disassembled for maintenance.
- B. Part (d) of Code Case N-481 requires an engineering evaluation which is to include the following, demonstrating the safety and serviceability of the pump casing.
 - 1. Material properties, including fracture toughness values.
 - 2. Performing a stress analysis of the pump casing.
 - 3. Review the operating history of the pump.
 - 4. Selecting locations for postulating flaws.
 - 5. Postulating one -quarter thickness flaw with a length six times its depth.
 - 6. Establishing the stability of the selected flaw under the governing stress conditions.
 - 7. Considering thermal aging embrittlement and many other processes that may degrade the properties of the pump casing service.

These attributes are addressed in Westinghouse WCAP-13045.

- C. Part (e), the final requirement of the Code Case N-481, dictates that a report of this evaluation shall be submitted to the NRC.

When inspections are performed on the applicable pump casing, the results of the examination shall be submitted to the NRC under the requirements of the NIS-1 Owners Data Report for inservice inspections. The report shall reference this Code Case N-481 and the applicable pumps that were inspected. This information shall be submitted with the ISI report discussed in SSP-6.10.

5.4 RCP Casing (B-L-2)

If a pump is disassembled for maintenance during the inspection interval, the internal pressure boundary surfaces shall be visually examined in accordance with visual examination method VT-3. The examination is limited to one pump. Disassembly of RCPs is performed in accordance with MI-2.2 and provides for these visual examinations.

6.0 Valves

A tabulation of valves is contained in Attachment 6 for Unit 1 and Unit 2.

6.1 Valve Pressure Retaining Bolting Larger Than 2 Inches in Diameter (B-G-1)

There are no valves with pressure retaining bolting larger than 2 inches in diameter.

6.2 Valve Pressure Retaining Bolting 2 Inches and Smaller in Diameter (B-G-2)

All of the bolts or studs and nuts in each connection shall be visually examined during the inspection interval in accordance with visual examination method VT-1. Examination is limited to only if the valve interior surface examination is performed (B-M-2). The examinations shall be distributed during the inspection interval.

Bolting may be examined either (a) in place under tension, (b) when the connection is disassembled, or (c) when the bolting is removed. It is preferable to examine the bolting when removed if possible. Valve disassembly is performed in accordance with 0-MI-MVV-000-008.0 and provides for examination of bolting.

The following systems contain valves exceeding 4 inches NPS with bolted bonnet connections:

Reactor Coolant System Valve Bolting

Residual Heat Removal System Valve Bolting

Safety Injection System Valve Bolting

6.3 Valve Body Welds (B-M-1)

There are no valves with body welds.

6.4 Valve Bodies (B-M-2)

If a valve exceeding 4-inch NPS is disassembled for maintenance during the inspection interval, the internal pressure boundary surface of the valve body shall be visually examined in accordance with visual examination method VT-3. Examinations are limited to one valve within each group of valves that are of the same constructional design (i.e., globe, gate, or check valve), manufacturing method, and that are performing similar functions in the system.

The following systems contain valves exceeding 4-inches NPS:

Reactor Coolant System

Residual Heat Removal System

Safety Injection System

A tabulation of valves by groupings is presented in Attachment 6 for Unit 1 and Unit 2. Disassembly of valves is performed in accordance with 0-MI-MVV-000.008.0 and provides for examination of valve internal pressure boundary surfaces.

Listings of valve examinations are identified on the Valve Interior Examination Drawing (See Attachment 7 for drawing number.).

7.0 Integrally Welded Support Attachments

SNQ shall utilize Code Case N-509 for selection and examination of integrally welded support attachments.

7.1 Reactor Vessel Integrally Welded Support Attachments (B-K)

There are no integrally welded vessel supports.

7.2 Pressurizer Integrally Welded Support Attachments (B-K)

A. Pressurizer Support Skirt Integrally Welded Support Attachment

The entire length of the pressurizer support skirt-to-vessel weld shall be ultrasonic examined during the inspection interval.

B. Pressurizer Seismic Lugs

There are four (4) integrally welded seismic lugs on the pressure vessel. All four (4) lugs shall be surface examined during the inspection interval. Examinations shall be distributed among the inspection periods..

7.3 Steam Generator Primary Integrally Welded Support Attachments (B-K)

There are no integrally welded vessel supports. The four main support pads are secured to the steam generator field support system by high strength bolts.

7.4 Piping and Valve Integrally Welded Support Attachments (B-K)

Integrally welded support attachments include the support attachments of piping required to be examined by Examination Category B-J. Included are those supports which have attachment welds to the valve and piping pressure retaining boundary. The entire length of each support attachment weld selected for examination shall be surface examined.

The examinations performed during the inspection interval shall include 10 percent of the integrally welded attachments associated with the component supports selected for examination. The examinations shall be distributed during the inspection interval.

The following systems include integrally welded support attachments:

Chemical and Volume Control System

Reactor Coolant System

Residual Heat Removal System

Safety Injection System

7.5 RCP Integrally Welded Support Attachments (B-K)

There are no integrally welded support attachments associated with the Unit 1 RCP.

There are three Unit 2 reactor coolant pumps, serial numbers 566 (RCP-1 casing), 704 (RCP-3 casing), and 709 (RCP-4 casing), with integrally welded support attachments. RCP-2 casing does not have any integrally welded support attachments. Each pump has three integrally welded pump feet. The integrally welded pump feet from one RCP shall be surface examined during the inspection interval. The examination shall cover 100 percent of the required area of each support attachment.

8.0 Component Supports

SN shall utilize Code Case N-491 for selection and examination of support components.

8.1 Reactor Vessel Component Supports (F-A)

The Reactor Vessel is supported by four reactor vessel supports at alternative nozzles (outlet). These four supports shall be examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the nozzles up to and including the attachment to the supporting structure.

8.2 Pressurizer Component Supports (F-A)

A. Pressurizer Support Skirt

The Pressurizer support skirt shall be examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the Pressurizer support skirt up to and including the attachment to the supporting structure.

B. Pressurizer Seismic Lugs

The Pressurizer seismic lugs support shall be examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the Pressurizer seismic lugs support up to and including the attachment to the supporting structure.

8.3 Steam Generator Component Supports (F-A)

All component supports from one Steam Generator shall be examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the Steam generator support up to and including the attachment to the supporting structure.

8.4 Piping and Valve Component Supports (F-A)

Twenty five percent of the piping and valve component supports of piping required to be examined by Examination Category B-J shall be visually examined during the inspection interval in accordance with visual examination method VT-3. This examination includes integrally welded and non-integrally welded component supports. Component supports extend from the piping and valves up to and including the attachment to the supporting structure.

The setting of variable spring-type hangers shall be verified in accordance with the applicable NDE procedure with the acceptance criteria identified in the Scan Plan (see PRISIM data base) or the applicable work instruction.

The component supports selected for examination shall be examined during the inspection interval.

The following systems include component supports:

Chemical and Volume Control System Piping and Valve Component Supports

Reactor Coolant System Piping and Valve Component Supports

Reactor Coolant System Main Loop Piping and Valve Component Supports

Residual Heat Removal System Piping and Valve Component Supports

Safety Injection System Piping and Valve Component Supports

8.5 RCP Component Supports (F-A)

All component supports from one RCP shall be visually examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the RCP up to and including the attachment to the supporting structure.

Attachment 2 ASME Class 2 Equivalent Components Subject to Examination (Unit 1 and Unit 2)

Mechanical/Nuclear Engineering

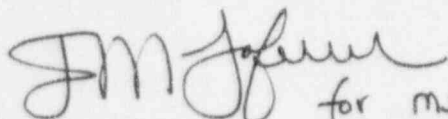
- A. **MAINTAIN** a listing of ASME Class 2 equivalent components subject to ISI examinations.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.


for m.lorek / 10/13/95

Mechanical/Nuclear Engineering Manager/Designee Date

**ASME CLASS 2 EQUIVALENT COMPONENTS SUBJECT TO EXAMINATION
(UNIT 1 AND UNIT 2)**

The ASME Code Class 2 (equivalent) components to be examined during the inspection interval are outlined below.

The entire length of each weld described shall be examined for the second 10-year ISI interval unless otherwise noted. When a portion of a weld length is to be examined during an inspection period, the areas examined each inspection period shall be documented on the examination data sheets.

Material specifications for piping and equipment is stated on the ISI drawings.

Table B, Table C (Integrally Welded Attachments), and Table D (Component Supports) of Attachment 4 for Unit 1 and Attachment 5 for Unit 2 shall be used for items selected for examination which provides the examination schedule for the interval and additional information such as reference ISI drawing numbers and ASME Section XI Table-IWC-2500-1 examination categories.

1.0 Steam Generators (4)

1.1 Steam Generator Secondary Side Circumferential Shell Welds (C-A)

There are three circumferential shell welds at gross structural discontinuities on each generator. The entire length of these three shell welds from one steam generator shall be ultrasonically examined during the inspection interval.

1.2 Steam Generator Secondary Side Circumferential Head Welds (C-A)

Each steam generator includes a circumferential head-to-shell weld. The entire length of one head-to-shell weld from one Steam Generator shall be ultrasonically examined during the inspection interval.

1.3 Steam Generator Secondary Side Tubesheet-to-Shell Weld (C-A)

Each steam generator includes a tubesheet-to-shell weld. The entire length of one tubesheet-to-shell weld from one Steam Generator shall be ultrasonically examined during the inspection interval.

1.4 Steam Generator Secondary Side Nozzle-to-Vessel Welds (C-B)

Each Steam Generator includes one feedwater nozzle (3.62 inches nominal wall thickness) and one main steam nozzle (3.62 inches nominal wall thickness). All of the nozzle-to-vessel welds from one Steam Generator shall be ultrasonically and magnetic particle examined during the inspection interval.

1.5 Steam Generator Secondary Side Nozzle to Vessel Inside Radius (C-B)

The nozzle inside radius sections on each nozzle from one Steam Generator shall be ultrasonically examined during the inspection interval.

1.6 Steam Generator Secondary Side Pressure Retaining Bolting Exceeding 2 Inches in Diameter (C-D)

There is no steam generator secondary side bolting exceeding 2 inches in diameter.

2.0 Residual Heat Removal Heat Exchangers (2) - RHRHX

2.1 RHRHX Shell Circumferential Weld (C-A)

There is one circumferential shell weld located at a gross structural discontinuity on each RHRHX. The entire length of one circumferential shell weld from one RHRHX shall be ultrasonically examined during each inspection interval.

2.2 RHRHX Head Circumferential Weld (C-A)

There is one circumferential head-to-shell weld per RHRHX. The entire length of one head-to-shell weld from one RHRHX shall be ultrasonically examined during the inspection interval.

2.3 RHRHX Tubesheet to Shell Weld (C-A)

There are no RHRHX tubesheet-to-shell welds.

2.4 RHRHX Nozzle-to-Vessel Welds (with out reinforcing plate) (C-B)

The channel cylinder section of each RHRHX includes one inlet nozzle (14-inch NPS) and one outlet nozzle (14-inch NPS) over 1/2-inch nominal thickness. A total of two nozzle-to-vessel welds from the one RHRHX shall be ultrasonically and liquid penetrant examined during the inspection interval.

2.5 RHRHX Nozzle Inside Radius Section (C-B)

The nozzle inside radius sections from one RHRHX shall be ultrasonically examined during the inspection interval.

2.6 RHRHX Pressure Retaining Bolting Exceeding 2 Inches in Diameter (C-D)

There is no RHRHX bolting exceeding 2 inches in diameter.

3.0 Containment Spray Heat Exchangers (2) - CSHX

3.1 CSHX Shell Circumferential Weld (C-A)

There is one circumferential shell weld located at a gross structural discontinuity on each CSHX. The entire length of this shell weld from one CSHX shall be ultrasonically examined during each inspection interval.

3.2 CSHX Head Circumferential Weld (C-A)

There is one circumferential head-to-shell weld per CSHX. The entire length of one head-to-shell weld from one CSHX shall be ultrasonically examined during the inspection interval.

3.3 CSHX Tubesheet to Shell Weld (C-A)

There are no CSHX tubesheet-to-shell welds.

3.4 CSHX Nozzle-to-Vessel Welds (with out reinforcing plate) (C-B)

The channel cylinder section of each CSHX includes one inlet nozzle (12-inch NPS) and one outlet nozzle (12-inch NPS) over 1/2-inch nominal thickness. A total of two nozzle-to-vessel welds from the one CSHX shall be ultrasonically and liquid penetrant examined during the inspection interval.

3.5 CSHX Nozzle to Vessel Inside Radius Section (C-B)

A total of two nozzle to vessel inside radius sections from one CSHX shall be ultrasonically examined during the inspection interval.

3.6 CSHX Pressure Retaining Bolting Exceeding 2 Inches in Diameter (C-D)

There is no CSHX bolting exceeding 2 inches in diameter.

4.0 SEAL WATER HEAT EXCHANGER (1) (SWHX)

4.1 SWHX Shell Circumferential Weld (C-A)

There is one circumferential shell weld located at a gross structural discontinuity on the SWHX. The entire length of this shell weld from the SWHX shall be ultrasonically examined during each inspection interval.

4.2 SWHX Head Circumferential Weld (C-A)

There is one circumferential head-to-shell weld the SWHX. The entire length of one head-to-shell weld from the SWHX shall be ultrasonically examined during the inspection interval.

4.3 SWHX Tubesheet to Shell Weld (C-A)

There are no SWHX tubesheet-to-shell welds.

4.4 SWHX Nozzle-to-Vessel Welds (without reinforcing plate) (C-B)

The channel cylinder section on the SWHX includes one inlet nozzle (4-inch NPS) and one outlet nozzle (4-inch NPS) less than 1/2-inch nominal thickness. A total of two nozzle-to-vessel welds from the SWHX will be liquid penetrant examined during the inspection interval.

4.5 SWHX Nozzle-to-Vessel Inside Radius Section (C-B)

No examination required due to nozzle thickness less than 1/2 inch nominal thickness.

4.6 SWHX Pressure Retaining Bolting Exceeding 2 Inches in Diameter (C-D)

There is no SWHX bolting exceeding 2 inches in diameter.

5.0 Seal Water Filter(1)- SWF

5.1 SWF Shell Circumferential Weld (C-A)

There is one circumferential shell weld located at a gross structural discontinuity on the SWF. The entire length of this shell weld shall be ultrasonically examined during each inspection interval.

5.2 SWF Head Circumferential Weld (C-A)

There is one circumferential head-to-shell weld on the SWF. The entire length of this head-to-shell weld from the SWF shall be ultrasonically examined during the inspection interval.

5.3 SWF Tubesheet to Shell Weld (C-A)

There are no SWF tubesheet-to-shell welds.

5.4 SWF Nozzle-to-Vessel Welds (with out reinforcing plate) (C-B)

The cylinder section of the SWF includes one inlet nozzle (3-inch NPS) and one outlet nozzle (3-inch NPS) less than 1/2-inch nominal thickness. A total of two nozzle-to-vessel welds from the SWF will be liquid penetrant examined during the inspection interval.

5.5 SWF Nozzle-to-Vessel Inside Radius Section (C-B)

No examination required due to nozzle thickness less than 1/2 inch nominal thickness.

5.6 SWF Pressure Retaining Bolting Exceeding 2 Inches in Diameter (C-D)

There is no SWF bolting exceeding 2 inches in diameter.

6.0 Seal Water Injection Filter (2) - SWIF

6.1 SWIF Circumferential Weld (C-A)

There is one circumferential shell weld located at a gross structural discontinuity on each SWIF. The entire length of this shell weld from one SWIF shall be ultrasonically examined during each inspection interval.

6.2 SWIF Head Circumferential Weld (C-A)

There is one circumferential head-to-shell weld on each SWIF. The entire length of this head-to-shell weld from one SWIF shall be ultrasonically examined during the inspection interval.

6.3 SWIF Tubesheet to Shell Weld (C-A)

There are no SWIF tubesheet-to-shell welds.

6.4 SWIF Nozzle-to-Vessel Welds (without reinforcing plate) (C-B)

Each SWIF includes one inlet nozzle (2-inch NPS) and one outlet nozzle (2-inch NPS) which are less than 1/2-inch nominal thickness. A total of two nozzle-to-vessel welds from one SWIF will be liquid penetrant examined during the inspection interval.

6.5 SWIF Nozzle-to-Vessel inside Radius Section (C-B)

No examination required due to nozzle thickness less than 1/2 nominal thickness.

6.6 SWIF Pressure Retaining Bolting Exceeding 2 Inches in Diameter (C-D)

There is no SWIF bolting exceeding 2 inches in diameter.

7.0 Centrifugal Charging Pump (CCP) Tank/(Boron Injection Tank (BIT)) (One)

Note: The CCP tank was formerly identified as the BIT tank. This change occurred in Unit 1 Cycle 4 and Unit 2 Cycle 4 refueling outage. As a transition, both IDs are being retained for tractability.

7.1 CCP Tank (BIT) Circumferential Shell Welds (C-A)

There are no CCP tank Circumferential shell welds.

7.2 CCP Tank (BIT) Circumferential Head Welds (C-A)

There are two circumferential head-to-shell welds located at structural discontinuities on the CCP Tank. These welds shall be ultrasonically examined during the inspection interval.

7.3 CCP Tank (BIT) Nozzle-to-Head Welds (without reinforcing plate) (C-B)

There are two nozzles, one located on each head with a 6-inch NPS whose nominal thickness (2.00 in.) is greater than 1/2 inch. These nozzle-to-vessel welds shall be ultrasonically and surface examined during the inspection interval.

7.4 CCP Tank (BIT) Nozzle-to-Head inside Radius Section (C-B)

The two nozzles to vessel inside radius sections from the CCP Tank shall be ultrasonically examined during the inspection interval.

7.5 CCP Tank (BIT) Pressure Retaining Bolting Exceeding Two Inches in Diameter (C-D)

There are 16 manway cover studs at 2-1/2 inches in diameter. All 16 studs shall be ultrasonically examined during the inspection interval. The studs may be examined either (a) in place under tension, (b) when the connection is disassembled, or (c) when the bolting is removed. It is preferable to perform the examinations when the studs are removed.

8.0 Piping

Material specifications for each piping system are stated on the weld isometrics. The following Class 2 piping systems are subject to examination:

High Pressure Safety Injection (includes parts of CVC, CS, RHR and SI)

Residual Heat Removal (RHR)

Safety Injection (SI)

Main Steam (MS)

Feedwater (FW)

Containment Spray (CS)

8.1 Piping Pressure-Retaining Bolting Greater Than 2 Inches In Diameter (C-D)

There is no Class 2 Pressure-Retaining Bolting larger than two inches in diameter.

8.2 Circumferential and Longitudinal Pipe Welds (C-F-1 and C-F-2)

Selection of welds for examination is based on Table IWC-2500-1, paragraph IWC-1220, and subparagraph IWC-2411. All of the welds selected shall be examined during the inspection interval.

SNQ shall utilize Code Case N-524 for the examination for longitudinal welds. ASME Class 2 equivalent longitudinal welds Examination Categories C-F-1 and C-F-2, Item Numbers C5.12, C5.22, C5.42, C5.52, C5.62 and C5.82 are included with the circumferential weld (Item Numbers C5.11, C5.21, C5.41, C5.51, C5.61 and C5.81) selected for examination.

Circumferential piping welds with a nominal wall thickness greater than or equal to 3/8 inch subject to examination for piping greater than 4 inches NPS shall be ultrasonically and surface examined.

Circumferential piping welds with a nominal wall thickness greater than 1/5 inch subject to examination for piping greater than or equal to 2 inches NPS and less than or equal to 4 inches NPS shall be ultrasonically and surface examined.

The following systems contain circumferential piping welds with a nominal wall thickness greater than or equal to 3/8 inch subject to examination for piping greater than 4" NPS:

Containment Spray

Feedwater

High Pressure Safety Injection (which includes Chemical Volume Control, Containment Spray, Residual Heat Removal, and Safety Injection Systems)
The welds selected for examination are included in the Chemical Volume Control, Containment Spray, Residual Heat Removal, or Safety Injection Systems.

Main Steam

Residual Heat Removal

Safety Injection

The following systems contain circumferential piping welds with a nominal wall thickness greater than 1/5 inch subject to examination for piping greater than or equal to 2 inches NPS and less than or equal to 4 inches NPS:

Chemical Volume Control

Containment Spray

High Pressure Safety Injection (which includes Chemical Volume Control, Containment Spray, Residual Heat Removal, and Safety Injection Systems)
The welds selected for examination are included in the Chemical Volume Control, Containment Spray, Residual Heat Removal, or Safety Injection Systems.

Residual Heat Removal

Safety Injection

There are no Main Steam or Feedwater Piping System Class 2 circumferential piping welds with a nominal wall thickness greater than 1/5 inch subject to

examination for piping greater than or equal to 2 inches NPS and less than or equal to 4 inches NPS.

8.3 Piping Socket Welds (C-F-1 and C-F-2)

Selection of welds for examination is based on Table IWC-2520, Paragraph IWC-2500-1, and subparagraph IWC-2411. All of the welds selected shall be examined during the inspection interval.

The entire length of each weld selected for examination shall be surfaced examined.

The following systems contain piping socket welds:

Chemical Volume Control

Containment Spray

High Pressure Safety Injection (which includes Chemical Volume Control, Containment Spray, Residual Heat Removal, and Safety Injection Systems)
The welds selected for examination are included in the Chemical Volume Control, Containment Spray, Residual Heat Removal, or Safety Injection Systems.

Residual Heat Removal

Safety Injection

There are no Main Steam or Feedwater Piping System Class 2 piping socket welds subject to examination.

8.4 Branch Piping Connection Welds (C-F-1 and C-F-2)

Selection of welds for examination is based on Table IWC-2500-1, Paragraph IWC-1220, and subparagraph IWC-2411. All of the welds selected shall be examined during the inspection interval.

The entire length of each weld selected for examination shall be surfaced examined.

The following systems contain piping branch connection welds subject to examination for piping greater than or equal to 2 inches NPS:

Chemical Volume Control

Containment Spray

High Pressure Safety Injection (which includes Chemical Volume Control, Containment Spray, Residual Heat Removal, and Safety Injection Systems)

The welds selected for examination are included in the Chemical Volume Control, Containment Spray, Residual Heat Removal, or Safety Injection Systems.

Residual Heat Removal

Safety Injection

There are no Main Steam or Feedwater Piping System Class 2 piping branch connection welds subject to examination.

9.0 Pumps

9.1 RHR Pumps (2) - RHRP

A. RHRP Pressure Retaining Bolting Greater Than 2 Inches in Diameter (C-D)

There is no pressure retaining bolting greater than 2 inches in diameter on the RHRP.

The stuffing box extension to pump casing connection bolting is not greater than two inches in diameter.

The connection includes 24 studs at 1-1/4 inches in diameter with nuts and washers.

B. RHRP Casing Welds (C-G)

The RHRP does not include any casing welds. The casing is a one piece forging fabricated to SA-182 F304.

9.2 CVCS Centrifugal Charging Pumps (2) CCP

A. CCP Pressure Retaining Bolting Greater Than 2 Inches In Diameter (C-D)

There is no pressure retaining bolting greater than 2 inches in diameter on the CCP.

B. CCP Casing Welds (C-G)

The CCP does not include any casing welds. The casing is a one piece forging.

9.3 Safety Injection Pumps (2) SIP

A. SIP Pressure Retaining Bolting Greater Than 2 Inches in Diameter (C-D)

There is no pressure retaining bolting greater than 2 inches in diameter on the SIP.

B. SIP Casing Welds (C-G)

The SIP does not include any casing welds. The casing is a one piece forging.

9.4 Containment Spray Pumps (2) - CSP

A. CSP Pressure Retaining Bolting Greater Than 2 Inches In Diameter (C-D)

There is no pressure retaining bolting greater than 2 inches in diameter on the CSP.

B. CSP Casing Welds (C-G)

The CSP does not include any casing welds. The casing is a one piece forging.

10.0 Valves

Systems including ASME Code Class 2 valves subject to examination are identified in Section 8. A tabulation of valves is presented in Attachment 6 for Unit 1 and Unit 2.

10.1 Valve Pressure-Retaining Bolting Greater Than 2 Inches in Diameter (C-D)

There is no Class 2 pressure-retaining bolting greater than 2 inches in diameter.

10.2 Valve Body Welds (C-G)

There are no Class 2 valves with body welds.

11.0 Integrally Welded Support Attachments (C-C)

SN shall utilize Code Case N-509 for selection and examination of integrally welded support attachments.

11.1 Steam Generator Secondary Side Integrally Welded Support Attachments

There are no vessel integrally welded support attachments.

11.2 RHRHX Integrally Welded Support Attachments

There are two integrally welded support attachments on each RHRHX. A total of two support pad-to-vessel welds from one RHRHX shall be liquid penetrant examined during the inspection interval.

11.3 CSHX Integrally Welded Support Attachments

There are four integrally welded support attachments on each CSHX. A total of four support pad-to-vessel welds from one CSHX shall be liquid penetrant examined during the inspection interval.

11.4 SWHX Integrally Welded Support Attachments

There are two integrally welded support attachments on the SWHX. A total of two support pad-to-vessel welds from the SWHX will be liquid penetrant examined during the inspection interval.

11.5 SWF Integrally Welded Support Attachments

There are four integrally welded support attachments on the SWF. A total of four integrally welded support attachments from the SWF will be liquid penetrant examined during the inspection interval.

11.6 SWIF Integrally Welded Support Attachments

There are three integrally welded support attachments on each SWIF. A total of three support pad-to-vessel welds from one SWIF shall be liquid penetrant examined during the inspection interval.

11.7 CCP Tank (BIT) Integrally Welded Supports

There are four integrally welded support attachment pads welded to the shell. A total of four integrally welded support attachments from the CCP Tank shall be surface examined during the inspection interval.

11.8 Piping and Valve Integrally Welded Support Attachments

Integrally welded support attachments include the support attachments of piping required to be examined by Examination Category C-F-1 and C-F-2. Included are those supports which have attachment welds to the valve and piping pressure retaining boundary. The entire length of each integrally welded support attachment weld selected for examination shall be surface examined during the inspection interval.

The examinations performed during the inspection interval shall include 10 percent of the integrally welded support attachments associated with the component support selected for examination.

The following piping systems include integrally welded support attachments:

Chemical Volume Control

Containment Spray

Feedwater

High Pressure Safety Injection (which includes Chemical Volume Control, Containment Spray, Residual Heat Removal, and Safety Injection Systems)
The integrally welded support attachments selected for examination are included in the Chemical Volume Control, Containment Spray, Residual Heat Removal, or Safety Injection Systems.

Main Steam

Residual Heat Removal

Safety Injection

11.9 CCP Integrally Welded Support Attachments

There are four integrally welded support attachments on each CCP. A total of four integrally welded support attachments from one CCP will be liquid penetrant examined during each inspection interval.

11.10 CSP Integrally Welded Support Attachments

There are no integrally welded support attachments associated with the CSP.

11.11 RHRP Integrally Welded Supports Attachments

There are no integrally welded support attachments associated with the RHRP.

11.12 SIP Integrally Welded Support Attachments

There are no integrally welded support attachments associated with the SIP.

12.0 Component Supports (E-A)

SQN shall utilize Code Case N-491 for selection and examination of support components.

12.1 Steam Generator Secondary Side Component Supports

There is one component support on each steam generator which is in contact with the vessel. The component support from one steam generator shall be visually examined during the inspection interval in accordance with visual examination method VT-3. Component support extends from steam generator up to and including the attachment to the supporting structure.

12.2 RHRHX Component Supports

There are two component supports on each RHRHX which are in contact with the vessel. All component supports from one heat exchanger shall be visually examined during the inspection interval in accordance with visual examination method VT-3. This examination includes integrally welded and non-integrally welded component supports. Component supports extend from the heat exchanger up to and including the attachment to the supporting structure.

The examinations shall be distributed during the inspection interval .

12.3 CSHX Component Supports

There are four component supports on each CSHX which are in contact with the vessel. All component supports from one heat exchanger shall be examined during the inspection interval in accordance with visual examination

method VT-3. This examination includes integrally welded and non-integrally welded component supports. Component supports extend from the heat exchanger up to and including the attachment to the supporting structure.

The examinations shall be distributed during the inspection interval

12.4 SWHX Component Supports

There are two component supports on the SWHX which are in contact with the vessel. All component supports from the heat exchanger shall be examined during the inspection interval in accordance with visual examination method VT-3. This examination includes integrally welded and non-integrally welded component supports. Component supports extend from the heat exchanger up to and including the attachment to the supporting structure.

The examinations shall be distributed during the inspection interval.

12.5 SWF Component Supports

There is one component support on the SWF which is in contact with the vessel. The component support from the SWF shall be examined during the inspection interval in accordance with visual examination method VT-3. Component supports extend from the SWF up to and including the attachment to the supporting structure.

The examination shall be distributed during the inspection interval.

12.6 SWIF Component Supports

There is one component support on each SWIF which is in contact with the vessel. The component support from one SWIF shall be visually examined during the inspection interval in accordance with visual examination method VT-3. This examination includes integrally welded and non-integrally welded component supports. Component supports extend from the SWIF up to and including the attachment to the supporting structure.

The examinations shall be distributed during the inspection interval.

12.7 CCP Tank (BIT) Component Supports

There are four component supports associated with the CCP tank. All of these supports shall be examined VT-3 during the inspection interval.

12.8 Piping and Valve Component Supports

Fifteen percent of the piping and valve component supports of piping required to be examined by examination category C-F-1 and C-F-2 shall be examined during the inspection interval in accordance with visual examination method VT-3. This examination includes integrally welded and non-integrally welded component supports. Component supports extend from the piping and valves up to and including the attachment to the supporting structure.

The setting of variable spring-type hangers shall be verified in accordance with the applicable NDE procedure with the acceptance criteria shown in the Scan Plan (see PRISIM data base) or the applicable work instruction.

The examinations shall be distributed during the inspection interval.

The following piping systems include component supports:

Chemical Volume Control

Containment Spray

Feedwater

High Pressure Safety Injection (which includes Chemical Volume Control, Containment Spray, Residual Heat Removal, and Safety Injection Systems)
The component supports selected for examination are included in the Chemical Volume Control, Containment Spray, Residual Heat Removal, or Safety Injection Systems.

Main Steam

Residual Heat Removal

Safety Injection

12.9 RHRP Component Supports

Each RHRP includes one component support bolted to the pump feet which are integrally forged with the pump. The component support from one pump shall be visually examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the RHRP up to and including the attachment to the supporting structure.

The component supports selected for examination shall be examined during the inspection interval.

12.10 CCP Component Supports

Each CCP includes one component support bolted to the pump feet which are integrally welded to the pump. The component support from one pump shall be visually examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the CCP up to and including the attachment to the supporting structure.

The component supports selected for examination shall be examined during the inspection interval.

12.11 SIP Component Supports

Each SIP includes one component support bolted to the pump feet which are integrally forged with the pump. The component support from one pump shall be visually examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the SIP up to and including the attachment to the supporting structure.

The component supports selected for examination shall be examined during the inspection interval.

12.12 CSP Component Supports

Each CSP includes one component support bolted to the pump feet which are integrally forged with the pump. The component support from one pump shall be visually examined during the inspection interval in accordance with visual examination method VT-3. Support components extend from the CSP up to and including the attachment to the supporting structure.

The component supports selected for examination shall be examined during the inspection interval.

Attachment 3 ASME Class 3 Equivalent Components Subject to Examination (Unit 1 and Unit 2)

Mechanical/Nuclear Engineering


- A. **MAINTAIN** a listing of components subject to ISI examination.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.


for M. Lorek / 10/13/95
Mechanical/Nuclear Engineering Manager/Designee Date

ASME CLASS 3 EQUIVALENT COMPONENTS SUBJECT TO EXAMINATION (UNIT 1 AND 2)

The ASME Code Class 3 (equivalent) components to be examined during the inspection interval are outlined below.

Table C for integrally welded support attachments and Table D for component supports of Attachment 4 for Unit 1 and Attachment 5 for Unit 2 shall be used for items selected for examination which provide examination schedule for the interval and additional information such as reference ISI drawings numbers, and ASME Section XI Examination Categories.

1.0 Piping and Valve Component Integrally Welded Support Attachments (D-A)

SQN shall utilize Code Case N-509 for selection and examination of integrally welded support attachments.

The entire length of each piping and valve integrally welded support attachments shall be VT-1 examined.

The examination performed during the inspection interval shall include 10 percent of the integrally welded attachments.

The following piping system contains integrally welded support attachments:

Air Conditioning Chilled Water

Auxiliary Feedwater

Component Cooling

Essential Raw Cooling Water

Fuel Pool Cooling (Unit 1 only)

The Chemical and Volume Control System piping has no ASME Code Class 3 (equivalent) components integrally welded support attachments to be examined. Rules of IWD-1220.2 have been used to exempt the components.

2.0 Equipment Integrally Welded Support Attachments (D-A)

SQN shall utilize Code Case N-509 for selection and examination of integrally welded support attachments.

The equipment integrally welded support attachments shall be VT-1 examined.

2.1 Containment Spray Heat Exchanger (2) - Integrally Welded Support Attachments - CSH (ERCW)

There are four integrally welded support attachment on each CSH. Four integrally welded support attachment from one CSH shall be examined during the inspection interval.

2.2 Nonregenerative Letdown Heat Exchanger (1) - Integrally Welded Support Attachments - NRLHX (CCS)

There is one integrally welded support attachment on the NRLHX. The integrally welded support attachment on the NRLHX shall be examined during the inspection interval.

2.3 Gas Stripper and Boric Acid Evaporator (1) - Integrally Welded Support Attachments - GSBAE (CCS)

A. GSBAE Evaporator Condenser (1) Support - EC

There are no integrally welded support attachments on the EC.

B. GSBAE Distillate Cooler (1) - Integrally Welded Support Attachments - DC (CCS)

There are two integrally welded support attachments on the DC. Two integrally welded support attachments on the DC shall be examined during the inspection interval.

C. GSBAE Support Frame (1) - Integrally Welded Support Attachment SF (CCS)

There are no integrally welded support attachments on the SF.

2.4 Component Cooling Surge Tank (1) - Integrally Welded Support Attachments - CCST (CCS)

There is one integrally welded support attachment on the CCST. The integrally welded support attachment on the CCST shall be examined during the inspection interval.

2.5 Essential Raw Cooling Water System Strainer (2) - Integrally Welded Support Attachments- ERCWS (ERCW)

There are 16 integrally welded support attachments on strainer A2A-A and 17 integrally welded support attachments on strainer B2B-B. All integrally welded support attachments on one ERCWS shall be examined during the inspection interval.

2.6 Air Conditioning Chilled Water System Shutdown Board Room Water Chiller (1) - Integrally Welded Support Attachments- SDBRWC

There are 2 integrally welded support attachments on the SDBRWC. The integrally welded attachments on the SDBRWC shall be examined during the inspection interval.

2.7 Air conditioning Chilled water System Chilled Water Air Separator (1)- Integrally Welded Support Attachments- CWAS

There are 4 integrally welded support attachments on the CWAS. The integrally welded attachments on the CWAS shall be examined during the inspection interval.

2.8 Component Cooling Heat Exchanger (2) - Integrally Welded Support Attachment CCHX (CCS)

There are no integrally welded support attachments on the CCHX.

2.9 Fuel Pool Cooling And Cleaning System - Spent Fuel Pit Heat Exchanger (2) - Integrally Welded Support Attachments- SFPHX (FPC) Unit 1 only

These integrally welded attachments are examined in accordance with the Unit 1 Program. There are two integrally welded support attachments on each SFPHX. Two integrally welded attachments on one SFPHX shall be examined during the inspection interval.

2.10 RHR Heat Exchanger Secondary Side (2) - Integrally Welded Support Attachments- RHRHSXH (CCS)

There are two integrally welded support attachments on each RHRSHX. Two integrally welded attachments on one RHRSHX shall be examined during the inspection interval.

2.11 ERCW Old Intake Pumping Station Strainer (2) - Integrally Welded Support Attachments- ERCW-STR

There are two integrally welded support attachments on each ERCW-STR. Two integrally welded attachments from one ERCW-STR shall be examined during the inspection interval.

2.12 Turbine Driven Auxiliary Feedwater Pump (1) - Integrally Welded Support Attachment TDAFP (AFW)

There are no integrally welded support attachments on the TDAFP.

2.13 Motor Driven Auxiliary Feedwater Pump (2) - Integrally Welded Support Attachment MDAFP (AFW)

There are no integrally welded support attachments on the MDAFP.

2.14 Component Cooling System Water Pumps (3) - Integrally Welded Support Attachments CCSWP (CCS)

There are no integrally welded support attachments on the CCSWP.

2.15 Essential Raw Cooling Water System Pump Station Pump (8) - Integrally Welded Support Attachments ERCWP (ERCW) Unit 1 only

These integrally welded support attachments are examined in accordance with the Unit 1 Program. There is one integrally welded support attachment on each ERCWP. One integrally welded support attachment on one ERCWP shall be examined during the inspection interval.

2.16 Fuel Pool Cooling And Cleaning System - Spent Fuel Pit Pumps (3) - Integrally Welded Support Attachment SFPP (FPC) Unit 1 only

These integrally welded support attachments are examined in accordance with the Unit 1 Program. There is one integrally welded support attachment on each SFPP. One integrally welded support attachment on one SFPP shall be examined during the inspection interval.

2.17 Air Conditioning Chilled Water System Chill Water Circulation Pump (1) - Integrally Welded Support Attachments- CWCP

There are no integrally welded support attachments on the CWCP.

2.18 ERCW Screen Wash Pump Support (4) supports - Integrally Welded Support Attachments- ERCWSWPH (ERCW) Unit 1 only

There are no integral welded support attachments on the ERCWSWPH.

3.0 Piping and Valve Component Supports (F-A)

SN shall utilize Code Case N-491 for selection and examination of support components.

Ten percent of the piping and valve component supports selected for examination shall be visually examined during each inspection interval in accordance with visual examination methods VT-3. This examination includes integrally welded and non-integrally welded component supports. Component supports extend from the piping and valves up to and including the attachment to the supporting structure. The setting of variable and spring-type hangers shall be verified in accordance with the applicable NDE procedure with the acceptance criteria shown in the Scan Plan (see PRISIM data base) or the applicable work instruction.

The following piping system contains component supports:

Air Conditioning Chilled Water

Auxiliary Feedwater

Component Cooling

Essential Raw Cooling Water

Fuel Pool Cooling (Unit 1 only)

The Chemical and Volume Control System piping has no ASME Code Class 3 (equivalent) components supports to be examined. Rules of IWD-1220.2 have been used to exempt the components.

4.0 Equipment Component Supports (F-A)

SN shall utilize Code Case N-491 for selection and examination of support components.

The equipment component support shall be VT-3 examined.

4.1 Containment Spray Heat Exchanger (2)-Component Support - CSH (ERCW)

There is one component support on each CSH. One component supports from one CSH shall be examined during the inspection interval.

4.2 Nonregenerative Letdown Heat Exchanger (1)-Component Support - NRLHX (CCS)

There is one component support on the NRLHX. The component support on the NRLHX shall be examined during the inspection interval.

4.3 Gas Stripper and Boric Acid Evaporator (1) - GSBAE (CCS)

A. GSBAE Evaporator Condenser (1)-Component Supports - EC

There are two component supports on the EC. The component supports on the EC shall be examined during the inspection interval.

B. GSBAE Distillate Cooler (1)-Component Supports - DC

There are two component supports on the DC. The component supports on the DC shall be examined during the inspection interval.

C. GSBAE Support Frame (1) - SF

There is one component support on the SF. The component support on the SF shall be examined during the inspection interval.

4.4 Component Cooling Surge Tank (1)-Component Support - CCST (CCS)

There is one component support on the CCST. The component support on the CCST shall be examined during the inspection interval.

4.5 Turbine Driven Auxiliary Feedwater Pump (1)-Component Supports - TDAFP (AFW)

There are two component supports on the TDAFP. The component supports on the TDAFP shall be examined during the inspection interval.

4.6 Motor Driven Auxiliary Feedwater Pump (2)-Component Supports - MDAFP (AFW)

There are two component supports on each MDAFP. Two component supports on one MDAFP shall be examined during the inspection interval.

4.7 Component Cooling System Water Pumps (3)-Component Support - CCSWP (CCS)

There is one component support on each CCSWP. One component support on one CCSWP shall be examined during the inspection interval.

4.8 Component Cooling Heat Exchanger (2)-Component Support - CCHX (CCS)

There is one component support on each CCHX. One component support on one CCHX shall be examined during the inspection interval.

4.9 Essential Raw Cooling Water System Strainer (2)-Component Support - ERCWS (ERCW)

There is one component support on each ERCWS. One component support from one ERCWS shall be examined during the inspection interval.

4.10 Essential Raw Cooling Water System Pump Station Pump(8)-Component Supports ERCWP (ERCW) Unit 1 only

These supports are examined in accordance with the Unit 1 Program. There is one component support on each ERCWP. One component support on one ERCWP shall be examined during the inspection interval.

4.11 Fuel Pool Cooling And Cleaning System - Spent Fuel Pit Pumps (3)-
Component Supports SFPP (FPC) Unit 1 only

These supports are examined in accordance with Unit 1 Program. There is one component support on each SFPP. One component support on one SFPP shall be examined during the inspection interval.

4.12 Air Conditioning Chilled Water System Shut Down Board Room Water
Chiller (1)-Component Supports SDBRWC

There is one component support on the SDBRCW. The component support on the SDBRWC shall be examined during the inspection interval.

4.13 Air Conditioning Chilled Water System Chill Water Circulation Pump (1)-
Component Support CWCP

There is one component support on the CWCP. The component support on the CWCP shall be examined during the inspection interval.

4.14 Air conditioning Chilled Water System Chill Water Air Separator (1)-
Component Support - CWAS

There is one component support on the CWAS. The component support on the CWAS shall be examined during the inspection interval.

4.15 Fuel Pool Cooling And Cleaning System - Spent Fuel Pit Heat Exchanger (2)-
Component Supports - SFPHX (FPC) Unit 1 only

These supports are examined in accordance with the Unit 1 Program. There are two component supports on each SFPHX. Two component support on one SFPHX shall be examined during the inspection interval.

4.16 RHR Heat Exchanger Secondary Side (2)-Component Supports -
RHRHSXH (CCS)

There are two component supports on each RHRHSXH. Two component supports on one RHRHSXH shall be examined during the inspection interval.

4.17 ERCW Screen Wash Pump Support (4)-Component Supports - ERCWSWPH
(ERCW) Unit 1 only

These supports are examined in accordance with the Unit 1 Program. There is one component support on each ERCWSWPH. One component support on one ERCWSWPH shall be examined during the inspection interval.

4.18 ERCW Old ERCW Intake Pumping Station Strainer (2)-Component Support
ERCW-STR

There is one component support on each ERCW-STR. One component support on one ERCW-STR shall be examined during the inspection interval

Attachment 4 Examination Schedule (Unit 1)

Mechanical/Nuclear Engineering


- A. **MAINTAIN** a listing of components for ISI examination.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.

 for MJ Lorek , 10/13/95

Mechanical/Nuclear Engineering Manager/Designee Date

ATTACHMENT 4

TABLE A

SQN UNIT 1 CLASS 1 SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
B-A		Pressure Retaining Welds In Reactor Vessel									
B-A	B1.10	RV Shell Welds	Volumetric								
B-A	B1.11	RV Shell Welds Circumferential	UT	5	100%	5	Deferral Permissible	0	0	5	CHM-2343-C
B-A	B1.12	RV Shell Welds Longitudinal	Volumetric	None	100%	N/A	Deferral Permissible	N/A	N/A	N/A	N/A
B-A	B1.20	RV Head Welds	Volumetric								
B-A	B1.21	RV Head Welds	UT	2 (closure and lower)	100% of accessible length	2	Deferral Permissible	0	0	2	CHM-2343-C CHM-2358-C
B-A	B1.22	RV Head Welds	UT	6 Meridional welds	100% of accessible length	6	Deferral Permissible	0	0	6	CHM-2343-C
B-A	B1.30	RV Shell-to-Flange Weld	UT	Included in Item No. B1.11, see RFR 1-ISI-1	100%	0	Partial Deferral See RFR 1-ISI-1	0	0	0	CHM-2343-C

ATTACHMENT 4

TABLE A

SQN UNIT 1 CLASS 1 SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
B-A	B1.40	RV Head-to-Flange Weld	MT & UT	1 (Closure)	100%	1	Partial Deferral See RFR 1-ISI-2	0	0	1	CHM-2358-C
B-A	B1.50	RV Beltline Repair Areas > 10% Wall	Volumetric								
B-A	B1.51	RV Repair Welds Beltline Region	Volumetric	None	All	N/A	Deferral Permissible	N/A	N/A	N/A	N/A
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessels										
B-B	B2.10	Pressurizer Shell-to-Head Welds	Volumetric								
B-B	B2.11	Pressurizer Circ. Shell-to-Head Welds	UT	2	Both	2	Deferral Not Permissible	1	0	1	ISI-0394-C

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B-B	B2.12	Pressurizer Shell to Head Intersecting Longitudinal Welds	UT	2 / 1 FOOT (one longitudinal weld intersecting two circumferential welds)	1 Foot of all	2 / 1 Foot	Deferral Not Permissible	1 Foot of weld intersecting circ. weld selected for examination	0	1 Foot of weld intersecting circ. weld selected for examination	ISI-0394-C
B-B	B2.20	Pressurizer Head Welds	Volumetric								
B-B	B2.21	Pressurizer Head Welds Circumferential	Volumetric	None	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.22	Pressurizer Head Welds Meridional	Volumetric	None	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.30	Steam Generator Primary Side Head Welds	Volumetric								
B-B	B2.31	Steam Generator Primary Side Head Welds Circumferential	Volumetric	None	One weld per head	N/A	Deferral not Permissible	N/A	N/A	N/A	N/A

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B-B	B2.32	Steam Generator Primary Side Head Welds Meridional	Volumetric	None	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.40	SG Tubesheet-to-Head Weld	UT	4 SG/ 1 weld each	One weld	1	Deferral Not Permissible	1	0	0	ISI-0399-C
B-B	B2.50	Heat Exchangers (Primary Side), Head Welds	Volumetric	N/A	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.51	Heat Exchangers (Primary Side), Head Welds, Circumferential	Volumetric	N/A	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.52	Heat Exchangers (Primary Side), Head Welds, Meridional	Volumetric	N/A	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.60	Heat Exchangers (Primary Side) -Shell, Tubesheet -to-Head Welds	Volumetric	N/A	One weld per group, 100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.70	Heat Exchangers (Primary Side) -Shell, Longitudinal Welds	Volumetric	N/A	One foot of one weld per group, at each end of shell	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-B	B2.80	Heat Exchangers (Primary Side) -Shell Tubesheet-to-Shell Welds	Volumetric	N/A	One weld per group at each end	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-D	Full Penetration Welds of Nozzles in Vessels										
B-D	B3.90	RV Noz-to-Ves Welds	UT	8	100%	8	Deferral Permissible See Code Case N-521	0	0	8	CHM-2343-C CHM-2360-C CHM-2361-C
B-D	B3.100	RV Noz Inside Radius Section	UT	8	100%	8	Deferral Not Permissible See Code Case N-521	0	0	8	CHM-2343-C CHM-2360-C CHM-2361-C ISI-0482-C
B-D	B3.110	Pressurizer Noz-Ves Welds	UT	6	100%	6	Deferral Not Permissible	2	2	2	ISI-0394-C
B-D	B3.120	Pressurizer Noz Inside Radius Section	UT	6	100%	6	Deferral Not Permissible	2	2	2	ISI-0394-C
B-D	B3.130	SG Primary Side Noz-Ves Welds	Volumetric	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-D	B3.140	SG Primary Side Nozzle Inside Radius Section	UT	8	100%	8	Deferral Not Permissible	2	2	4	ISI-0399-C
B-D	B3.150	Heat Exchanger Primary Side Nozzle-to-Vessel Welds	Volumetric	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-D	B3.160	Heat Exchanger Primary Side Noz Inside Radius Section	Volumetric	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-E	Pressure Retaining Partial Penetration Welds in Vessels										
B-E	B4.10	RV Partial Penetration Welds	Visual								
B-E	B4.11	RV Partial Penetration Welded Nozzles	VT-2	5 (4 UHI, 1 Vent)	25%	2 (1 UHI, 1 Vent)	Deferral Permissible	0	0	2 (1 UHI, 1 Vent)	CHM-2651-C ISI-0014-C
B-E	B4.12	RV Control Rod Drive Noz	VT-2	78	25%	20	Deferral Permissible	0	0	20	CHM-2651-C CHM-2359-A
B-E	B4.13	RV Instrumentation Noz	VT-2	58	25%	15	Deferral Permissible	0	0	15	MSG-0004-C

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B-E	B4.20	Pressurizer Heater Penetration Welds	VT-2	78	100%	78	Deferral Permissible	0	0	78	MSG-006-A
B-F	Pressure Retaining Dissimilar Metal Welds										
B-F	B5.10	RV Noz-to-SE Dissimilar Metal Butt Welds NPS 4" or Larger	PT & UT	8	100%	8	Deferral Not Permissible See Code Case N-521	0	0	8	CHM-2343-C ISI-0482-C
B-F	B5.20	RV Noz-to-SE Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.30	RV Noz-to-SE Dissimilar Metal Socket Welds	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.40	Pressurizer Noz-to-SE Dissimilar Metal Butt Welds NPS 4" or Larger	PT & UT	6	100%	6	Deferral Not Permissible	2	2	2	ISI-0394-C
B-F	B5.50	Pressurizer Noz-to-SE Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-F	B5.60	Pressurizer Noz-to-SE Dissimilar Metal Socket Welds	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.70	SG Noz-to-SE Dissimilar Metal Butt Welds NPS 4" or Larger	PT & UT	8	100%	8	Deferral Not Permissible	2	3	3	ISI-0399-C
B-F	B5.80	Steam Generator Noz-to-SE Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.90	Steam Generator Noz-to-SE Dissimilar Metal Socket Welds	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.100	Heat Exchanger Noz-to-SE Dissimilar Metal Welds NPS 4" or Larger	PT & UT	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.110	Heat Exchanger Noz-to-SE Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.120	Heat Exchanger Noz-to-SE Dissimilar Metal Socket Welds	Surface	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-F	B5.130	Piping Dissimilar Metal Butt Welds NPS 4" or Larger	PT & UT	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.140	Piping Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.150	Piping Dissimilar Metal Socket Welds	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	Pressure Retaining Bolting, Greater Than 2" in Diameter										
B-G-1	B6.10	RV Closure Head Nuts > 2" in diameter	MT	54	100%	54	Deferral Not Permissible	18	18	18	CHM-2341-C
B-G-1	B6.20	RV Closure Studs > 2" diameter, in place	Volumetric	Included in Item No. B6.30	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.30	RV Closure Studs > 2" diameter, when removed	MT & UT	54	100%	54	Deferral Permissible	18	18	18	CHM-2341-C
B-G-1	B6.40	RV Threads in Flange	UT	54	100%	54	Deferral Not Permissible	18	18	18	CHM-2341-C

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B-G-1	B6.50	RV Closure Washers, Bushings Note: RV does not have bushings only washers	VT-1	54	100%	54	Deferral Not Permissible	18	18	18	CHM-2341-C
B-G-1	B6.60	Pressurizer Bolts and Studs >2" diameter	Volumetric	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.70	Pressurizer Flange Surfaces When Connection Disassembled	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.80	Pressurizer Nuts, Bushings, and Washers	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.90	SG Bolts and Studs >2" diameter	Volumetric	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.100	SG Flange Surfaces When Connection Disassembled	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.110	SG Nuts, Bushings, and Washers	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.120	Heat Exchanger Bolts and Studs	Volumetric	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-G-1	B6.130	Heat Exchanger Flange Surfaces When Connection Disassembled	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.140	Heat Exchanger Nuts, Bushings, and Washers	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.150	Piping Bolts and Studs > 2" diameter	Volumetric	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.160	Piping Flange Surfaces When Connection Disassembled	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.170	Piping Nuts, Bushings, and Washers	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.180	RCP Bolts & Studs > 2" dia	UT	4 Pumps/ 24 bolts per pump	One pump selected for examination under B-L-2	one pump/ 24 bolts	Deferral Not Permissible	only if B-L-2 examination is done	only if B-L-2 examination is done	only if B-L-2 examination is done	CHM-2675-C
B-G-1	B6.190	RCP Flange Surface, when connection is disassembled	VT-1	4 Pumps/ 24 bolts per pump	One pump selected for examination under B-L-2	one pump/ 24 bolts	Deferral Not Permissible	only if B-L-2 examination is done	only if B-L-2 examination is done	only if B-L-2 examination is done	CHM-2675-C
B-G-1	B6.200	RCP Nuts, Bushings, and Washers	Visual	None	One pump selected for examination under B-L-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-G-1	B6.210	Valve Bolts & Studs > 2" dia	Volumetric	None	Valves selected for examination under B-M-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.220	Valve Flange Surface, when connection is disassembled	Visual	None	Valves selected for examination under B-M-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.230	Valve Nuts, Bushings, and Washers	Visual	None	Valves selected for examination under B-M-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-2	Pressure Retaining Bolting, 2" and Less in Diameter										
B-G-2	B7.10	Reactor Vessel Bolts, Studs, and Nuts <= 2" dia	Visual	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-2	B7.20	Pressurizer Bolts, Studs, and Nuts <= 2" dia	VT-1	One Manway / 16 Bolts	100%	One Manway / 16 Bolts	Deferral Not Permissible	0	One Manway	0	MSG-0002-B
B-G-2	B7.30	SG Bolts, Studs, and Nuts <= 2" dia	VT-1	4 Gen / 2 Manways / 16 Bolts each	One Steam Generator selected for exam under B-B	One Gen / 2 Manways / 16 Bolts each	Deferral Not Permissible	One Manway	0	One Manway	MSG-0002-B
B-G-2	B7.40	Heat Exchanger Bolts, Studs, and Nuts <= 2" dia	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-G-2	B7.50	Piping Bolts, Studs, and Nuts <= 2" dia	Visual								
	B7.50	CVCS	VT-1	4	100%	4	Deferral Not Permissible	1	1	2	CHM-2338-C
	B7.50	RCS	VT-1	5	100%	5	Deferral Not Permissible	2	1	2	ISI-0369-C
	B7.50	RHR	VT-1	NONE	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	CHM-2336-C
	B7.50	SIS	VT-1	4	100%	4	Deferral Not Permissible	1	1	2	CHM-2333-C
B-G-2	B7.60	Pumps Bolts, Studs, and Nuts <= 2" dia	VT-1	4 Pumps/ 2 Sets/ one set 12 bolts, the other set 8 bolts	One pump selected for examination under B-L-2	One pump/ 2 Sets	Deferral Not Permissible	Only if B-L-2 examination is done	Only if B-L-2 examination is done	Only if B-L-2 examination is done	
B-G-2	B7.70	Valves Bolts, Studs, and Nuts <= 2" dia	Visual								
	B7.70	CVCS	VT-1	NONE	One valve selected for examination under B-M-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	CHM-2338-C
	B7.70	RCS	VT-1	One Group / 3 Valves	One valve selected for examination under B-M-2	One Group / one valve per group	Deferral Not Permissible	Only if B-M-2 examination is done	Only if B-M-2 examination is done	Only if B-M-2 examination is done	ISI-0369-C

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	B7.70	RHR	VT-1	Three Groups/ 6 Valves	One valve selected for examination under B-M-2	Three Groups/ one valve per group	Deferral Not Permissible	Only if B-M-2 examination is done	Only if B-M-2 examination is done	Only if B-M-2 examination is done	CHM-2336-C
	B7.70	SIS	VT-1	Two Groups/ 14 Valves	One valve selected for examination under B-M-2	Two Groups/ one valve per group	Deferral Not Permissible	Only if B-M-2 examination is done	Only if B-M-2 examination is done	Only if B-M-2 examination is done	CHM-2333-C
B-G-2	B7.80	CRD Housing Bolts, Studs, and Nuts	Visual	None	Bolts, studs, and nuts in CRD housing when disassembled	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-J	Pressure Retaining Welds in Piping										
B-J	B9.10	NPS 4" or Larger	Surface and Volumetric								
B-J	B9.11	Piping NPS 4" or Larger Circumferential Welds	Surface and Volumetric								
	B9.11	RCS Main	PT & UT	45	25%	12	Deferral Not Permissible	4	4	4	ISI-0482-C
	B9.11	RCS	PT & UT	69 Note: This included the Auxiliary Head Adapter welds	25%	18	Deferral Not Permissible	5	6	7	ISI-0014-C ISI-0369-C

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	B9.11	RHRS	PT & UT	49	25%	13	Deferral Not Permissible	4	4	5	CHM-2336-C
	B9.11	SIS	PT & UT	84	25%	21	Deferral Not Permissible	7	7	7	CHM-2333-C
B-J	B9.12	Longitudinal Piping Welds NPS 4" or Larger	Code Case N-524	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-J	B9.20	Less Than NPS 4"	Surface								
B-J	B9.21	Piping Circ. Welds Less than NPS 4"	Surface								
	B9.21	CVCS	PT	62	25%	16	Deferral Not Permissible	5	5	6	CHM-2335-C
	B9.21	RCS	PT	20	25%	5	Deferral Not Permissible	2	1	2	ISI-0369-C ISI-0482-C
	B9.21	SIS	PT	33	25%	9	Deferral Not Permissible	3	3	3	CHM-2333-C
B-J	B9.22	Longitudinal Piping Welds Less than NPS 4"	Code Case N-524	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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B-J	B9.30	Branch Pipe Connection Welds	Surface and Volumetric								
B-J	B9.31	Piping Branch Connection Welds NPS 4" or Larger	Surface and Volumetric								
	B9.31	CVCS	PT & UT	0	25%	0	Deferral Not Permissible	0	0	0	CHM-2335-C
	B9.31	RCS	PT & UT	2	25%	1	Deferral Not Permissible	0	0	1	ISI-0369-C
	B9.31	RCS Main	PT & UT	1	25%	1	Deferral Not Permissible	0	1	0	ISI-0482-C
	B9.31	RHRS	PT & UT	3	25%	1	Deferral Not Permissible	0	0	1	CHM-2336-C
	B9.31	SIS	PT & UT	5	25%	2	Deferral Not Permissible	0	1	1	CHM-2333-C
B-J	B9.32	Piping Branch Connection Welds Less than NPS 4"	Surface								
	B9.32	CVCS	PT	4	25%	1	Deferral Not Permissible	0	0	1	CHM-2335-C
	B9.32	RCS	PT	11	25%	3	Deferrai Not Permissible	1	1	1	ISI-0482-C ISI-0369-C
	B9.32	RCS Main	PT	12	25%	3	Deferral Not Permissible	1	1	1	ISI-0482-C

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	B9.32	RHRS	PT	2	25%	1	Deferral Not Permissible	1	0	0	CHM-2336-C
	B9.32	SIS	PT	11	25%	3	Deferral Not Permissible	1	1	1	CHM-2333-C
B-J	B9.40	Piping Socket Welds	Surface								
	B9.40	CVCS	PT	246	25%	62	Deferral Not Permissible	20	21	21	CHM-2335-C CHM-2338-C
	B9.40	RCS	PT	71	25%	18	Deferral Not Permissible	6	6	6	ISI-0369-C ISI-0482-C
	B9.40	RHRS	PT	18	25%	5	Deferral Not Permissible	1	2	2	CHM-2336-C
	B9.40	SIS	PT	189	25%	48	Deferral Not Permissible	16	16	16	CHM-2333-C
B-L-1	Pressure Retaining Welds in Pump Casings										
B-L-1	B12.10	Pump Casing Welds	Volumetric	4	Code Case-481 (Note Unit 1 only)	1	Deferral Permissible	0	0	1	MSG-0003-C

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B-L-2		Pump Casings									
B-L-2	B12.20	Pump Casing Internal Surfaces	VT-3	4	At least one pump in each group of pumps when disassembled for maintenance.	One Pump	Deferral Permissible	Only if pump disassembled	Only if pump disassembled	Only if pump disassembled	MSG-0003-C
B-M-1		Pressure Retaining Welds in Valve Bodies									
B-M-1	B12.30	Valves (less than NPS 4") Body Welds	Surface	None	At least one valve in each group of valves.	N/A	Deferral Permissible	N/A	N/A	N/A	N/A
B-M-1	B12.40	Valves (NPS 4" or greater) Body Welds	Volumetric	None	At least one valve in each group of valves.	N/A	Deferral Permissible	N/A	N/A	N/A	N/A

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B-M-2		Valve bodies									
	B12.50	Valves (> NPS 4") Body Internal Surfaces	Visual								
	B12.50	RCS	VT-3	One Group	At least one valve in each group of valves when disassembled for maintenance.	One Group / one valve per group	Deferral Permissible	Only if disassembled	Only if disassembled	Only if disassembled	Attachment 6
	B12.50	RHR	VT-3	Three Groups	At least one valve in each group of valves when disassembled for maintenance.	Three Groups / one valve per group	Deferral Permissible	Only if disassembled	Only if disassembled	Only if disassembled	Attachment 6
	B12.50	SIS	VT-3	Two Groups	At least one valve in each group of valves when disassembled for maintenance.	Two Groups / one valve per group	Deferral Permissible	Only if disassembled	Only if disassembled	Only if disassembled	Attachment 6

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B-N-1		interior of Reactor Vessel									
B-N-1	B13.10	RV Interior Accessible areas	VT-3	1	Each Inspection Period	1	Deferral Not Permissible	1	1	1	CHM-2343-C
B-N-2		Integrally Welded Core Support Structure and Interior Attachments to Reactor Vessels									
B-N-2	B13.50	RV Interior Attachments Within Beltline Region	Visual	None	Accessible welds	N/A	Deferral Permissible	N/A	N/A	N/A	N/A
B-N-2	B13.60	RV Interior Attachments Beyond Beltline Region	VT-3	6	Accessible welds	6	Deferral Permissible	0	0	6	CHM-2343-C
B-N-3		Removal Core Support Structures									
B-N-3	B13.70	RV Core Support Structure Accessible Surfaces	VT-3	1	Accessible surfaces	1	Deferral Permissible	0	0	1	CHM-2343-C
B-O		Pressure Retaining welds in Control Rod housing									
B-O	B14.10	RV Welds in CRD Housings	UT	78 CRD Housings/ 17 Peripheral Housings	10% of Peripheral Housings during last period	2	Deferral Permissible	0	0	2	CHM-2651-C CHM-2359-A

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C-A		Pressure Retaining welds in pressure Vessels									
C-A	C1.10	Pressure Retaining Shell Circumferential Welds	Volumetric								
	C1.10	Steam Generator	UT	4 SG/ 3 welds per SG	All in one vessel at structural discontinuity	3	Each Inspection Interval	1 (upper shell-to-transition cone girth weld)	1	1	ISI-0399-C
	C1.10	Residual Heat Removal Heat Exchanger	UT	2 RHRHX/ 1 weld per RHRHX	All in one vessel at structural discontinuity	1	Each Inspection Interval	1	0	0	CHM-2404-A
	C1.10	Containment Spray Heat Exchanger	UT	2 CSHX/ 1 weld per CSHX	All in one vessel at structural discontinuity	1	Each Inspection Interval	0	1	0	ISI-0462-C
	C1.10	Seal Water Heat Exchanger	UT	1	All in one vessel at structural discontinuity	1	Each Inspection Interval	0	0	1	ISI-0460-C

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	C1.10	Seal Water Filter	UT	1	All in one vessel at structural discontinuity	1	Each Inspection Interval	0	0	1	ISI-0458-C
	C1.10	Seal Water Injection Filter	UT	2 SWIF/ 1 weld per SWIF	All in one vessel at structural discontinuity	1	Each Inspection Interval	0	0	1	ISI-0456-C
	C1.10	Centrifugal Charging Pump Tank	Volumetric	None	All in one vessel at structural discontinuity	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-A	C1.20	Pressure Retaining Head Circumferential Welds	Volumetric								
	C1.20	Steam Generator	UT	4 SG/ 1 weld per SG	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	1	0	0	ISI-0399-C
	C1.20	Residual Heat Removal Heat Exchanger	UT	2 RHRHX/ 1 weld per RHRHX	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	1	0	0	CHM-2404-A
	C1.20	Containment Spray Heat Exchanger	UT	2 CSHX/ 1 weld per CSHX	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	1	0	ISI-0462-C
	C1.20	Seal Water Heat Exchanger	UT	1	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	0	1	ISI-0460-C

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	C1.20	Seal Water Filter	UT	1	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	0	1	ISI-0458-C
	C1.20	Seal Water Injection Filter	UT	2 SWIF / 1 weld per SWIF	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	0	1	ISI-0456-C
	C1.20	Centrifugal Charging Pump Tank	UT	2	Head-to-Shell Welds, in one vessel	2	Each Inspection Interval	1	0	1	ISI-0069-C
C-A	C1.30	Tubesheet-to-shell Weld	Volumetric								
	C1.30	Steam Generator	UT	4 SG/ 1 weld per SG	Tubesheet-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	1	0	ISI-0399-C
	C1.30	Residual Heat Removal Heat Exchanger	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each inspection Interval	N/A	N/A	N/A	CHM-2404-A
	C1.30	Containment Spray Heat Exchanger	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0462-C

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	C1.30	Seal Water Heat Exchanger	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0460-C
	C1.30	Seal Water Filter	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0458-C
	C1.30	Seal Water Injection Filter	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0456-C
C-B	Pressure Retaining Nozzle Welds in Vessels										
C-B	C2.10	Nozzles in vessels <= 1/2" nominal thickness									
C-B	C2.11	Nozzle-to-Shell (or Head) Weld in Vessels <= 1/2" thk	Surface								
	C2.11	Seal Water Heat Exchanger	PT	2	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	2	0	0	ISI-0460-C

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	C2.11	Seal Water Filter	PT	2	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	2	0	ISI-0458-C
	C2.11	Seal Water Injection Filter	PT	2 SWIF/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	0	2	ISI-0456-C
C-B	C2.20	Nozzles without reinforcing plate in vessels >1/2" nominal thickness									
C-B	C2.21	Nozzles without Reinforcing Plate in Vessels > 1/2" thk	Surface and Volumetric								
	C2.21	Steam Generator	MT & UT	4 SG/ 1 FW nozzle and 1 MS nozzle	All nozzles at terminal ends of piping runs in one vessel	2 (1 FW and 1 MS)	Each Inspection Interval	1 (FW)	1 (MS)	0	ISI-0399-C
	C2.21	Residual Heat Removal Heat Exchanger	PT & UT	2 RHRHX/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	1	1	CHM-2404-A
	C2.21	Containment Spray Heat Exchanger	PT & UT	2 CSHX/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	1	1	0	ISI-0462-C

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	C2.21	Centrifugal Charging Pump Tank	MT & UT	2	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	1	1	ISI-0069-C
C-B	C2.22	Nozzle Inside Radius Section	Volumetric								
	C2.22	Steam Generator	UT	4 SG/ 1 FW nozzle and 1 MS nozzle per SG	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	1(FW)	1 (MS)	0	ISI-0399-C
	C2.22	Residual Heat Removal Heat Exchanger	UT	2 RHRHX/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	1	1	CHM-2404-A
	C2.22	Containment Spray Heat Exchanger	UT	2 CSHX/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	1	1	0	ISI-0462-C
	C2.22	Centrifugal Charging Pump Tank	UT	2	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	1	1	ISI-0069-C

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C-B	C2.30	Nozzles with reinforcing plate in vessels > 1/2" nominal thickness									
C-B	C2.31	Nozzles with Reinforcing Plate in Vessels > 1/2" thk. Reinforcing Plate Welds to Vessel & Nozzle	Surface	None	All nozzles at terminal ends of piping runs in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-B	C2.32	Nozzle-to-Shell (or head) Weld when inside of Vessel is accessible	Volumetric	None	All nozzles at terminal ends of piping runs in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-B	C2.33	Nozzle-to-Shell (or head) Weld when inside of Vessel is inaccessible	Visual	None	All nozzles at terminal ends of piping runs in one vessel	N/A	Each Inspection Period	N/A	N/A	N/A	N/A
C-D	Pressure Retaining Bolting greater Than 2 Inches in Diameter										
C-D	C4.10	Pressure Vessels Bolts & Studs > 2" dia	Volumetric								
	C4.10	Steam Generator	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Residual Heat Removal Heat Exchanger	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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	C4.10	Containment Spray Heat Exchanger	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Seal Water Heat Exchanger	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Seal Water Filter	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Seal Water Injection Filter	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Centrifugal Charging Pump Tank	UT	1 CCP/ 16 bolts	100% of one component	1 (16 bolts)	Each Inspection Interval	1 (16 bolts)	0	0	ISI-0069-C
C-D	C4.20	Piping Bolts & Studs > 2" dia	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-D	C4.30	Pumps Bolts & Studs > 2" dia	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-D	C4.40	Vaives Bolts & Studs > 2" dia	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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C-F-1		Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping									
C-F-1	ALL	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	See Each Item Number.		7.5% of all welds not exempted by IWC-1220 spread over the Item Numbers within this Exam Category, but not including welds excluded by wall thickness.						
C-F-1	C5.10	Piping welds $\geq 3/8$ " nominal wall thickness for piping $> \text{NPS } 4$ "									
C-F-1	C5.11	Piping Circ. Welds NPS > 4 " or Larger and $\geq 3/8$ " Nom Wall.	Surface and Volumetric								
	C5.11	CS	PT & UT	155	7.50%	12	Each Inspection Interval	4	4	4	CHM-2422-C ISI-0434-C

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	C5.11	CVCS	PT & UT	64	7.50%	5 Note: 62 of these welds are on excluded piping and the remaining 2 have limited access. Based on the above these 5 welds will be included in CVCS item number C5.21	Each Inspection Interval	N/A	N/A	N/A	ISI-0430-C ISI-0434-C
	C5.11	RHRS	PT & UT	254	7.50%	20	Each Inspection Interval	6	7	7	CHM-2336-C ISI-0434-C
	C5.11	SIS	PT & UT	316	7.50%	24	Each Inspection Interval	8	8	8	CHM-2333-C ISI-0430-C ISI-0434-C
C-F-1	C5.12	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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C-F-1	C5.20	Piping Welds >1/5" nominal wall thickness for piping >= NPS 2 " and <= NPS 4"									
C-F-1	C5.21	Circumferential Welds	Surface and Volumetric								
	C5.21	CS	PT & UT	1	7.50%	1	Each Inspection Interval	1	0	0	ISI-0430-C
	C5.21	CVCS	PT & UT	332	7.50%	30 Note: This includes the 5 welds from CVCS item number C5.11	Each Inspection Interval	10	10	10	ISI-0430-C ISI-0434-C
	C5.21	RHRS	PT & UT	58	7.50%	5	Each Inspection Interval	1	2	2	ISI-0430-C ISI-0434-C
	C5.21	SIS	PT & UT	244	7.50%	19	Each Inspection Interval	6	6	7	ISI-0430-C
	C5.22	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
C-F-1	C5.30	Socket Welds	Surface								
	C5.31	CS	PT	26	7.50%	2	Each Inspection Interval	1	0	1	ISI-0430-C
	C5.30	CVC	PT	169	7.50%	13	Each Inspection Interval	4	4	5	ISI-0430-C
	C5.30	RHR	PT	6	7.50%	1	Each Inspection Interval	0	1	0	ISI-0430-C
	C5.30	SIS	PT	207	7.50%	16	Each Inspection Interval	5	5	6	ISI-0430-C

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SQN UNIT 1 CLASS 2 SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
C-F-1	C5.40	Pipe Branch Connections of Branch Piping >= 2" NPS									
C-F-1	C5.41	Branch Connection Welds >= NPS 2"	Surface								
	C5.41	CVCS	PT	3	7.50%	1	Each Inspection Interval	1	0	0	ISI-0430-C
	C5.41	CS	PT	2	7.50%	1	Each Inspection Interval	0	1	0	ISI-0430-C
	C5.41	FHRS	PT	4	7.50%	1	Each Inspection Interval	0	0	1	ISI-0430-C
	C5.41	SIS	PT	7	7.50%	1	Each inspection Interval	0	0	1	ISI-0430-C
	C5.42	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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C-F-2		Pressure Retaining Welds in Carbon or Low Alloy Steel Piping									
C-F-2	All	Pressure retaining welds in carbon or low alloy steel piping	see each item number		7.5% of all welds not exempted by IWC-1220 spread over the item numbers within this examination category, but not including welds excluded by wall thickness						
C-F-2	C.5.50	Piping welds >= 3/8" nominal wall thickness for piping > NPS 4"									
C-F-2	C5.51	Piping circumferential welds >= 3/8" nominal wall thickness for piping > NPS 4"	Surface and Volumetric								
	C5.51	FW	MT & UT	70	7.5%, but not less than 28 welds total for all C-F-2	11	Each Inspection Interval	3	4	4	CHM-2339-C

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	C5.51	MS	MT & UT	119	7.5%, but not less than 28 welds total for all C-F-2	18	Each Inspection Interval	6	6	6	CHM-2340-C
C-F-2	C5.52	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C-F-2	C5.60	Piping welds >1/5" nominal wall thickness for piping >= NPS 2" and <= NPS 4"	Surface and Volumetric	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-F-2	C5.61	Piping Circ. Welds >=NPS 2" and <= NPS 4"	Surface and Volumetric	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-F-2	C5.62	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C-F-2	C5.70	Socket Welds	Surface	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
C-F-2	C5.80	Pipe Branch Connection of branch piping >= NPS 2"									
C-F-2	C5.81	Branch Connection Welds >= NPS 2"	Surface								
	C5.81	FW	MT	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	CHM-2339-C
	C5.81	MS	MT	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	CHM-2340-C
C-F-2	C5.82	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C-G	Pressure Retaining Welds in Pumps and Valves										
C-G	C6.10	Pump Casing Welds	Surface	None	100% of welds in components in piping runs examined under C-F.	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-G	C6.20	Valve Body Welds	Surface	None	100% of welds in components in piping runs examined under C-F.	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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TABLE C

SQN UNIT 1 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	% TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION OR DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER	
B-H	All	Integral Attachments for Class 1 Vessels					Reference Code Case N-509 in This Table					
B-K-1	All	Integral Attachments for Class 1 Piping, Pumps, and Valves					Reference Code Case N-509 in This Table					
C-C	All	Integral Attachments for Class 2 Vessels, Piping, Pumps, and Valves					Reference Code Case N-509 in This Table					
D-A	All	Integral Attachments for Class 3 Systems in Support of Reactor Shutdown Function					Reference Code Case N-509 in This Table					
D-B	All	Integral Attachments for Class 3 Systems in Support Emergency Core Cooling, Containment Heat Removal, Atmosphere Cleanup, and Reactor Residual Heat Removal Function					Reference Code Case N-509 in This Table					
D-C	All	Integral Attachments for Class 3 Systems in Support of Residual Heat Removal From Spent Fuel Storage Pool					Reference Code Case N-509 in This Table					
B-K of Code Case N-509		Integral Attachments for Class 1 Vessels, Piping, Pumps, and Valves										
B-K of Code Case N-509	B10.10	Pressure Vessels Integrally Welded Attachments Note: This includes Item No. B10.40.	Surface or Volumetric									
	B10.10	Reactor Vessel	Volumetric	None	100% of required areas of each welded attachment on one vessel whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A	

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	B10.10	Pressurizer Support Skirt	UT	1	100% of required areas of each welded attachment on one vessel whenever component support member deformation is identified	1	Each Inspection Interval	1	0	0	ISI-0394-C
	B10.10	Pressurizer Seismic Lugs	MT	4	100% of required areas of each welded attachment on one vessel whenever component support member deformation is identified	4	Each Inspection Interval	4	0	0	ISI-0394-C
	B10.10	Steam Generator	Surface	None	100% of required areas of each welded attachment on one vessel whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
B-K of Code Case N-509	B10.20	Piping Integrally Welded Attachments Note: This includes Item No. B10.40.	Surface								
	B10.20	CVC	PT	9	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 34 supports examined)	Each Inspection Interval	0	1	0	CHM-2433-C CHM-2434-C
	B10.20	RCS	PT	6	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 14 supports examined)	Each Inspection Interval	1	0	0	ISI-0370-C

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	B10.20	RCS MAIN	PT	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0303-C
	B10.20	RHR	PT	3	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 4 supports examined)	Each Inspection Interval	0	1	0	CHM-2435-C
	B10.20	SIS	PT	12	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	2 (Note: 24 supports examined)	Each Inspection Interval	0	0	2	CHM-2436-C
B-K of Code Case N-509	B10.30	Pumps Integrally Welded Attachments	Surface	NONE	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
B-K of Code Case N-509	B10.40	Valve Integrally Welded Attachments	Surface	Included under Item Number B10.20 of Code Case N-509	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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SON UNIT 1 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	% TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION OR DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
C-C of Code Case N-509	Integral Attachments for Class 2 Vessels, Piping, Pumps, and Valves										
C-C of Code Case N-509	C3.10	Pressure Vessels Integrally Welded Attachments	Surface								
	C3.10	Steam Generator	Surface	None	100% of required areas of each welded attachment on one vessel and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C3.10	Residual Heat Removal Heat Exchanger	PT	2 RHRHX / 2 IA's each	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	2 IA's on one RHRHX	Each Inspection Interval	0	2 IA's on one RHRHX	0	CHM-2404-A
	C3.10	Containment Spray Heat Exchanger	PT	2 CSHX / 4 IA's each	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	4 IA's on one CSHX	Each Inspection Interval	0	0	4 IA's on one CSHX	ISI-0462-C
	C3.10	Seal Water Heat Exchanger	PT	Heat exchanger / 2 IA's	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	Heat exchanger / 2 IA's	Each Inspection Interval	0	Heat exchanger / 2 IA's	0	ISI-0460-C
	C3.10	Seal Water Filter	PT	Filter / 4 IA's	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	Filter / 4 IA's	Each Inspection Interval	Filter / 4 IA's	0	0	ISI-0458-C

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SQL UNIT 1 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

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	C3.10	Seal Water Injector, Filter	PT	2 SWIF/ 3 IA's each	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	3 IA's on one SWIF	Each Inspection Interval	3 IA's on one SWIF	0	0	ISI-0456-C
	C3.10	Centrifugal Charging Pump Tank	MT	Tank / 4 IA's	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	Tank / 4 IA's	Each Inspection Interval	0	0	Tank / 4 IA's	ISI-0069-C
C-C of Code Case N-509	C3.20	Piping Integrally Welded Attachments Note: This includes Item No. C3.40.	Surface								
	C3.20	CS	PT	13	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 10 supports examined)	Each Inspection Interval	0	0	1	ISI-0448-C CHM-2440-C
	C3.20	CVC	PT	64	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	3 (Note: 23 supports examined)	Each Inspection Interval	1	1	1	ISI-0448-C

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	C3.20	FW	MT	8	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 7 supports examined)	Each Inspection Interval	0	1	0	CHM-2439-C
	C3.20	MS	MT	10	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 9 supports examined)	Each Inspection Interval	1	0	0	CHM-2438-C
	C3.20	RHR	PT	29	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	2 (Note: 18 supports examined)	Each Inspection Interval	1	0	1	ISI-0448-C CHM-2435-C
	C3.20	SIS	PT	64	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	4 (Note: 40 supports examined)	Each Inspection Interval	1	1	2	ISI-0448-C CHM-2436-C

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CC of Code Case N-509	C3.30	Pumps Integrally Welded Attachments	Surface								
	C3.30	Centrifugal Charging Pump	PT	2 CCP / 4 IA's on each	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	4 IA's on one pump	Each Inspection Interval	4 IA's on one pump	0	0	ISI-0466-C
	C3.30	Containment Spray Pump	Surface	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C3.30	Residual Heat Removal Pump	Surface	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C3.30	Safety Injection Pump	Surface	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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SQL UNIT 1 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

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C-C of Code Case N-509	C3.40	Valves Integrally Welded Attachments	Surface	Included under Item Number C3.20 of Code Case N-509	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
D-A of Code Case N-509	Integral Attachments for Class 3 Vessels, Piping, Pumps, and Valves										
D-A of Code Case N-509	D1.10	Pressure Vessels Integrally Welded Attachments	Visual								
	D1.10	Class 3 Containment Spray Heat Exchanger	VT-1	2 CSHX / 4 IA's each	One Heat Exchanger, 100% of required areas of each welded attachment and whenever component support member deformation is identified	4 IA's on one heat exchanger	Each Inspection Interval	0	0	4 IA's on one heat exchanger	ISI-0462-C
	D1.10	Class 3 Nonregenerative Letdown Heat Exchanger	VT-1	Heat Exchanger / 1 IA's	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Heat Exchanger / 1 IA's	Each Inspection Interval	0	Heat Exchanger / 1 IA's	0	ISI-0216-A
	D1.10	Class 3 Gas Stripper and Boric Acid Evaporator Condenser	Visual	None	100% of required areas of each welded attachment and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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SQL UNIT 1 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

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	D1.10	Class 3 Gas Stripper and Boric Acid Evaporator Distillate Cooler	VT-1	Cooler / 2 IA's	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Cooler / 2 IA's	Each Inspection Interval	0	0	Cooler / 2 IA's	ISI-0226-B
	D1.10	Class 3 Gas Stripper and Boric Acid Evaporator Support Frame	Visual	None	100% of required areas of each welded attachment and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.10	Class 3 Component Cooling Surge Tank	VT-1	Tank / 1 IA	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Tank / 1 IA	Each Inspection Interval	0	Tank / 1 IA	0	ISI-0227-B
	D1.10	Class 3 Essential Raw Cooling Water System Strainer	VT-1	2 ERCWS/ 16 IA's on A and 17 IA's on B	One Strainer, 100% of required areas of each welded attachment and whenever component support member deformation is identified	All IA's on one strainer	Each Inspection Interval	All IA's on one strainer	0	0	ISI-0285-A
	D1.10	Class 3 Air Conditioning /Chilled Water System Shut Down Board Room Water Chiller	VT-1	Chiller / 2 IA's	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Chiller / 2 IA's	Each Inspection Interval	Chiller / 2 IA's	0	0	ISI-0454-C
	D1.10	Class 3 Air conditioning Chilled Water System Chill Water Air Separator	VT-1	Separator / 4 IA's	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Separator / 4 IA's	Each Inspection Interval	Separator / 4 IA's	0	0	ISI-0478-C
	D1.10	Class 3 Component Cooling Heat Exchanger	VT-1	None	One Heat Exchanger, 100% of required areas of each welded attachment and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0284-B

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SQL UNIT 1 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

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	D1.10	Class 3 Fuel Pool Cooling and Cleaning System Spent Fuel Pit Heat Exchanger	VT-1	2 FPCCHX / 2 IA's each	One Heat Exchanger, 100% of required areas of each welded attachment and whenever component support member deformation is identified	2 IA's on one heat exchanger	Each Inspection Interval	0	0	2 IA's on one heat exchanger	ISI-0287-B
	D1.10	Class 3 RHR Heat Exchanger Secondary Side	VT-1	2 RHRHSHX / 2 IA's each	One Heat Exchanger, 100% of required areas of each welded attachment and whenever component support member deformation is identified	2 IA's on one heat exchanger	Each Inspection Interval	0	0	2 IA's on one heat exchanger	ISI-0290-B
	D1.10	Class 3 ERCW Old ERCW Intake Pumping Station Strainer	VT-1	2 ERCW-STR / 2 IA's each	One Strainer, 100% of required areas of each welded attachment and whenever component support member deformation is identified	2 IA's on one strainer	Each Inspection Interval	0	2 IA's on one strainer	0	ISI-0480-C
D-A of Code Case N-509	D1.20	Piping Integrally Welded Attachments Note: This includes Item No. D1.40.	Visual								
	D1.20	AFW	VT-1	29	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	3	Each Inspection Interval	1	1	1	ISI-0113-C
	D1.20	CC	VT-1	64	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	7	Each Inspection Interval	2	2	3	ISI-0126-C

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SON UNIT 1 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

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	D1.20	ERCW	VT-1	78	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	8	Each Inspection Interval	2	3	3	ISI-0123-C
	D1.20	FPCS	VT-1	5	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	1	Each Inspection Interval	0	0	1	ISI-0127-C
	D1.20	ACCW	VT-1	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0450-C
D-A of Code Case N-509	D1.30	Pumps Integrally Welded Attachments	Visual								
	D1.30	Class 3 Turbine Driven Auxiliary Feedwater Pump	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	% TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION OR DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	D1.30	Class 3 Motor Driven Auxiliary Feedwater Pump	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.30	Class 3 Component Cooling System Water Pumps	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.30	Class 3 Essential Raw Cooling Water System Pump Station Pump	VT-1	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.30	Class 3 Fuel Pool Cooling and Cleaning System Spent Fuel Pit Pumps	VT-1	3 FRCC Pumps / 1 IA on each pump	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	1 IA on each pump	Each Inspection Interval	1	0	0	ISI-0288-B
	D1.30	Class 3 Air Conditioning Chilled Water System Chill Water Circulation Pump	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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	D1.30	Class 3 ERCW Screen Wash Pump Support	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
D-A of Code Case N-509	D1.40	Valve Integrally Welded Attachments	VT-1	Included under Item No. D1.20 of Code Case N-509.	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each inspection interval	N/A	N/A	N/A	N/A

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER	
F-A of Code Case N-491		Class 1 Piping One-directional Restraints	Visual									
		Function A										
	F1.10A	CVC		VT-3	25	25%	7	Each inspection interval	2	3	2	CHM-2433-C CHM-2434-C
	F1.10A	RCS		VT-3	12	25%	3	Each inspection interval	1	1	1	ISI-0370-C
	F1.10A	RCS MAIN		VT-3	1	25%	1	Each inspection interval	0	0	1	ISI-0303-C ISI-0369-C
	F1.10A	RHR		VT-3	10	25%	3	Each inspection interval	1	1	1	CHM-2435-C
	F1.10A	SIS		VT-3	21	25%	6	Each inspection interval	2	2	2	CHM-2436-C
F-A of Code Case N-491		Class 1 Piping Multidirectional Restraints	Visual									
		Function B										
	F1.10B	CVC		VT-3	87	25%	22	Each inspection interval	7	7	8	CHM-2433-C CHM-2434-C
	F1.10B	RCS		VT-3	6	25%	2	Each inspection interval	1	1	0	ISI-0370-C
F1.10B	RCS MAIN	VT-3	5	25%	2	Each inspection interval	1	1	0	ISI-0303-C ISI-0369-C		

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	F1.10B	RHR	VT-3	4	25%	1	Each inspection interval	0	0	1	CHM-2435-C
	F1.10B	SIS	VT-3	52	25%	13	Each inspection interval	4	4	5	CHM-2436-C
F-A of Code Case N-491	F1.10C	Class 1 Piping Variable Supports (Springs and Constant Force) Function C	Visual								
	F1.10C	CVC	VT-3		25%	1	Each inspection interval	0	1	0	CHM-2433-C CHM-2434-C
	F1.10C	RCS	VT-3	16	25%	4	Each inspection interval	1	1	2	ISI-0370-C
	F1.10C	RCS MAIN	VT-3	1	25%	1	Each inspection interval	0	0	1	ISI-0303-C ISI-0369-C
	F1.10C	RHR	VT-3	None	25%	N/A	Each inspection interval	N/A	N/A	N/A	CHM-2435-C
	F1.10C	SIS	VT-3	5	25%	2	Each inspection interval	1	1	0	CHM-2436-C
F-A of Code Case N-491	F1.10D	Class 1 Piping Variable Supports (Snubbers) Function D	Visual								
	F1.10D	CVC	VT-3	11	25%	3	Each inspection interval	1	1	1	CHM-2433-C CHM-2434-C

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	F1.10D	RCS	VT-3	21	25%	6	Each inspection interval	2	2	2	ISI-0370-C
	F1.10D	RCS MAIN	VT-3	None	25%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0303-C ISI-0369-C
	F1.10D	RHR	VT-3	2	25%	1	Each inspection interval	0	0	1	CHM-2435-C
	F1.10D	SIS	VT-3	12	25%	3	Each inspection interval	1	1	1	CHM-2436-C
F-A of Code Case N-491	F1.20A	Class 2 Piping One-directional Restraints Function A	Visual								
	F1.20A	CS	VT-3	29	15%	5	Each inspection interval	1	2	2	ISI-0448-C CHM-2440-C
	F1.20A	CVC	VT-3	79	15%	12	Each inspection interval	4	4	4	ISI-0448-C
	F1.20A	FW	VT-3	16	15%	3	Each inspection interval	1	1	1	CHM-2439-C
	F1.20A	MS	VT-3	8	15%	2	Each inspection interval	0	1	1	CHM-2438-C
	F1.20A	RHR	VT-3	48	15%	8	Each inspection interval	3	2	3	ISI-0448-C CHM-2435-C
	F1.20A	SIS	VT-3	64	15%	10	Each inspection interval	3	3	4	ISI-0448-C CHM-2436-C

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F-A of Code Case N-491		Class 2 Piping Multidirectional Restraints	Visual									
		Function B										
	F1.20B	CS		VT-3	25	15%	4	Each inspection interval	1	1	2	ISI-0448-C CHM-2440-C
	F1.20B	CVC		VT-3	42	15%	7	Each inspection interval	2	2	3	ISI-0448-C
	F1.20B	FW		VT-3	2	15%	1	Each inspection interval	0	1	0	CHM-2439-C
	F1.20B	MS		VT-3	8	15%	2	Each inspection interval	1	1	0	CHM-2438-C
	F1.20B	RHR		VT-3	29	15%	5	Each inspection interval	1	2	2	ISI-0448-C CHM-2435-C
	F1.20B	SIS		VT-3	156	15%	24	Each inspection interval	8	8	8	ISI-0448-C CHM-2436-C
F-A of Code Case N-491		Class 2 Piping Variable Supports (Springs and Constant Force)	Visual									
		Function C										
	F1.20C	CS		VT-3	9	15%	2	Each inspection interval	1	1	0	ISI-0448-C CHM-2440-C
F1.20C	CVC	VT-3	10	15%	2	Each inspection interval	0	1	1	ISI-0448-C		

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	F1.20C	FW	VT-3	8	15%	2	Each inspection interval	1	0	1	CHM-2439-C
	F1.20C	MS	VT-3	16	15%	3	Each inspection interval	1	1	1	CHM-2438-C
	F1.20C	RHR	VT-3	20	15%	3	Each inspection interval	1	1	1	ISI-0448-C CHM-2435-C
	F1.20C	SIS	VT-3	10	15%	2	Each inspection interval	1	1	0	ISI-0448-C CHM-2436-C
F-A of Code Case N-491	F1.20D	Class 2 Piping Variable Supports (Snubbers) Function D	Visual								
	F1.20D	CS	VT-3	None	15%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0448-C CHM-2440-C
	F1.20D	CVC	VT-3	8	15%	2	Each inspection interval	1	1	0	ISI-0448-C
	F1.20D	FW	VT-3	9	15%	2	Each inspection interval	1	1	0	CHM-2439-C
	F1.20D	MS	VT-3	14	15%	3	Each inspection interval	1	1	1	CHM-2438-C
	F1.20D	RHR	VT-3	14	15%	3	Each inspection interval	1	1	1	ISI-0448-C CHM-2435-C
	F1.20D	SIS	VT-3	12	15%	2	Each inspection interval	0	1	1	ISI-0448-C CHM-2436-C

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F-A of Code Case N-491		Class 3 Piping One-directional Restraints	Visual									
		Function A										
	F1.30A	ACCW		VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.30A	AFW		VT-3	55	10%	6	Each inspection interval	2	2	2	ISI-0113-C
	F1.30A	CC		VT-3	118	10%	12	Each inspection interval	4	4	4	ISI-0126-C
	F1.30A	CVC		VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0448-C
	F1.30A	ERCW		VT-3	148	10%	15	Each inspection interval	5	5	5	ISI-0123-C
	F1.30A	FPCS		VT-3	29	10%	3	Each inspection interval	1	1	1	ISI-0127-C
F-A of Code Case N-491		Class 3 Piping Multidirectional Restraints	Visual									
		Function B										
	F1.30B	ACCW		VT-3	14	10%	2	Each inspection interval	0	1	1	ISI-0450-C
F1.30B	AFW	VT-3	43	10%	5	Each inspection interval	1	2	2	ISI-0113-C		

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	F1.30B	CC	VT-3	132	10%	14	Each inspection interval	4	5	5	ISI-0126-C
	F1.30B	CVC	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0448-C
	F1.30B	ERCW	VT-3	194	10%	20	Each inspection interval	6	7	7	ISI-0123-C
	F1.30B	FPCS	VT-3	11	10%	2	Each inspection interval	0	1	1	ISI-0127-C
F-A of Code Case N-491	F1.30C	Class 3 Piping Variable Supports (Springs and Constant Force) Function C	Visual								
	F1.30C	ACCW	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.30C	AFW	VT-3	27	10%	3	Each inspection interval	1	1	1	ISI-0113-C
	F1.30C	CC	VT-3	25	10%	3	Each inspection interval	1	1	1	ISI-0126-C
	F1.30C	CVC	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.30C	ERCW	VT-3	7	10%	1	Each inspection interval	0	1	0	ISI-0123-C
	F1.30C	FPCS	VT-3	2	10%	1	Each inspection interval	1	0	0	ISI-0127-C

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F-A of Code Case N-491	F1.30D	Class 3 Piping Variable Supports (Snubbers) Function D	Visual								
	F1.30D	ACCW	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.30D	AFW	VT-3	14	10%	2	Each inspection interval	1	1	0	ISI-0113-C
	F1.30D	CC	VT-3	19	10%	2	Each inspection interval	1	0	1	ISI-0126-C
	F1.30D	CVC	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.30D	ERCW	VT-3	10	10%	1	Each inspection interval	0	0	1	ISI-0123-C
	F1.30D	FPCS	VT-3	2	10%	1	Each inspection interval	0	1	0	ISI-0127-C
F-A of Code Case N-491	F1.40	Class 1, 2, or 3 Supports Other Than Piping Supports	Visual			Supports on one or one of multiple components	Each inspection interval				
		Class 1 Equipment									
	F1.40	Class 1 Reactor Vessel	VT-3	Reactor Vessel / 4 supports	All	Reactor Vessel / 4 supports	Each inspection interval	0	0	Reactor Vessel / 4 supports	CHM-2343-C

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	F1.40	Class 1 Pressurizer	VT-3	Pressurizer / 2 support	All	Pressurizer / 2 supports	Each inspection interval	Pressurizer / 2 supports	0	0	ISI-0394-C
	F1.40	Class 1 Steam Generator	VT-3	4 Steam Generator / 1 support each	One Steam Generator	One Steam Generator / 1 support	Each inspection interval	0	0	One Steam Generator / 1 support	ISI-0399-C
	F1.40	Class 1 Reactor Coolant Pump	VT-3	4 Reactor Coolant Pump / 1 support each	One Pump	One Reactor Coolant Pump / 1 support	Each inspection interval	0	One Reactor Coolant Pump / 1 support	0	ISI-0325-B
	F1.40	Class 1 Valves	VT-3	Included in item numbers F1.10A, F1.10B and F1.10C			Each inspection interval				
		Class 2 Equipment									
	F1.40	Class 2 Steam Generator	VT-3	4 Steam Generators / 1 support each	One steam Generator	One Steam Generators / 1 support	Each inspection interval	One Steam Generators / 1 support	0	0	ISI-0399-C
	F1.40	Class 2 Residual Heat Removal Heat Exchanger	VT-3	2 RHRHX / 2 supports on each	One Heat Exchanger	One Heat Exchanger / 2 supports	Each inspection interval	0	One Heat Exchanger / 2 supports	0	CHM-2404-A
	F1.40	Class 2 Containment Spray Heat Exchanger	VT-3	2 CSHX / 4 supports on each	One Heat Exchanger	One Heat Exchanger / 4 supports	Each inspection interval	0	0	One Heat Exchanger / 4 supports	ISI-0462-C

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	F1.40	Class 2 Seal Water Heat Exchanger	VT-3	Seal Water Heat Exchanger / 2 supports	All	Seal Water Heat Exchanger / 2 supports	Each inspection interval	0	Seal Water Heat Exchanger / 2 supports	0	ISI-0450-C
	F1.40	Class 2 Seal Water Filter	VT-3	Seal Water Filter / 1 support	All	Seal Water Filter / 1 support	Each inspection interval	Seal Water Filter / 1 support	0	0	ISI-0458-C
	F1.40	Class 2 Seal Water Injection Filter	VT-3	2 SWIF / 1 support each	One filter	One SWIF / 1 support	Each inspection interval	One SWIF / 1 support	0	0	ISI-0456-C
	F1.40	Class 2 Centrifugal Charging Pump Tank	VT-3	Centrifugal Charging Pump Tank / 4 supports	All	Centrifugal Charging Pump Tank / 4 supports	Each inspection interval	0	0	Centrifugal Charging Pump Tank / 4 supports	ISI-0069-C
	F1.40	Class 2 Residual Heat Removal Pump	VT-3	2 RHRP / 1 support each	One Pump	One RHRP / 1 support	Each inspection interval	0	One RHRP / 1 support	0	ISI-0353-B
	F1.40	Class 2 Centrifugal Charging Pump	VT-3	2 CCP / 1 support each	One Pump	One CCP / 1 support	Each inspection interval	One CCP / 1 support	0	0	ISI-0466-C
	F1.40	Class 2 Safety Injection Pump	VT-3	2 SIP / 1 support each	One Pump	One SIP / 1 support	Each inspection interval	0	One SIP / 1 support	0	ISI-0470-C

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	F1.40	Class 2 Containment Spray Pump	VT-3	2 CSP / 1 support each	One Pump	One CSP / 1 support	Each inspection interval	0	0	One CSP / 1 support	ISI-0464-C
	F1.40	Class 2 Valves	Visual	Included in item numbers F1.20A, F1.20B and F1.20C			Each inspection interval				
		Class 3 Equipment									
	F1.40	Class 3 Containment Spray Heat Exchanger	VT-3	2 CSHX / 1 support each	One Heat Exchanger	One CSHX / 1 support	Each inspection interval	0	0	One CSHX / 1 support	ISI-0462-C
	F1.40	Class 3 Nonregenerative Letdown Heat Exchanger	VT-3	Heat Exchanger / 1 support	All	Heat Exchanger / 1 support	Each inspection interval	0	Heat Exchanger / 1 support	0	ISI-0216-A
	F1.40	Class 3 Gas Stripper and Boric Acid Evaporator Condenser	VT-3	Condenser / 2 supports	All	Condenser / 2 supports	Each inspection interval	0	0	Condenser / 2 supports	ISI-0226-B
	F1.40	Class 3 Gas Stripper and Boric Acid Evaporator Distillate Cooler	VT-3	Cooler / 2 supports	All	Cooler / 2 supports	Each inspection interval	0	0	Cooler / 2 supports	ISI-0226-B

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	F1.40	Class 3 Gas Stripper and Boric Acid Evaporator Support Frame	VT-3	Frame / 1 support	All	Frame / 1 support	Each inspection interval	0	0	Frame / 1 support	ISI-0226-B
	F1.40	Class 3 Component Cooling Surge Tank	VT-3	Tank / 1 support	All	Tank / 1 support	Each inspection interval	0	Tank / 1 support	0	SI-0227-B
	F1.40	Class 3 Turbine Driven Auxiliary Feedwater Pump	VT-3	Pump / 2 supports	All	Pump / 2 supports	Each inspection interval	0	0	Pump / 2 supports	ISI-0474-C
	F1.40	Class 3 Motor Driven Auxiliary Feedwater Pump	VT-3	2 MDAFWP/ 2 supports each	One pump	One MDAFWP / 2 supports	Each inspection interval	0	0	One MDAFWP / 2 supports	ISI-0476-C
	F1.40	Class 3 CCS Water Pumps	VT-3	3 CCSWP / 1 support each	One pump	One CCSWP/ 1 support	Each inspection interval	0	One CCSWP/ 1 support	0	ISI-0281-A
	F1.40	Class 3 CCS Heat Exchanger	VT-3	2 CCHX / 1 support each	One heat exchanger	One CCHX/ 1 support	Each inspection interval	0	One CCHX/ 1 support	0	ISI-0284-B
	F1.40	Class 3 ERCW Strainer	VT-3	2 ERCWS / 1 support each	One Strainer	One ERCWS/ 1 support	Each inspection interval	One ERCWS/ 1 support	0	0	ISI-0285-A

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TABLE D

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	F1.40	Class 3 ERCW Pump Station Pump	VT-3	8 ERCW Pumps / 1 support each	One Pump	One ERCW pump / 1 support	Each inspection interval	0	0	1	ISI-0286-B
	F1.40	Class 3 FPCC Spent Fuel Pit Pumps	VT-3	3 FPCC Pumps / 1 support each	One Pump	Pump/ 1 Support	Each inspection interval	0	1	0	ISI-0288-B
	F1.40	Class 3 ACCW Shut Down Board Room Water Chiller	VT-3	Chiller / 1 support	All	Chiller / 1 support	Each inspection interval	Chiller / 1 support	0	0	ISI-0454-C
	F1.40	Class 3 ACCW Chill Water Circulation Pump	VT-3	Pump / 1 support	All	Pump / 1 support	Each inspection interval	Pump / 1 support	0	0	ISI-0472-C
	F1.40	Class 3 ACCW Chill Water Air Separator	VT-3	Separator / 1 support	All	Separator / 1 support	Each inspection interval	Separator / 1 support	0	0	ISI-0478-C
	F1.40	Class 3 FPCC Spent Fuel Pit Heat Exchanger	VT-3	2 FPCCHX / 2 supports each	One heat exchanger	Heat Exchanger / 2 Supports	Each inspection interval	Heat Exchanger / 2 Supports	0	0	ISI-0287-B
	F1.40	Class 3 RHR Heat Exchanger Secondary Side	VT-3	2 RHRSHX / 2 supports each	One heat exchanger	One RHRSHX/ 2 supports	Each inspection interval	0	0	One RHRSHX/ 2 supports	ISI-0290-B

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	F1.40	Class 3 ERCW Screen Wash Pump Support	VT-3	4 ERCWSW Pumps / 1 support each	One Pump	Pump / 1 Support	Each inspection interval	0	1	0	ISI-0296-B
	F1.40	Class 3 ERCW Intake Pumping Station Strainer	VT-3	2 ERCW-STR / 1 support each	One strainer	One ERCW- STR/ 1 support	Each inspection interval	0	One ERCW- STR/ 1 support	0	ISI-0480-C

Attachment 5 Examination Schedule (Unit 2)

Mechanical/Nuclear Engineering


- A. **MAINTAIN** a listing of components for ISI examination.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.


for M. Lorek _____, 10/13/95
Mechanical/Nuclear Engineering Manager/Designee Date

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B-A		Pressure Retaining Welds In Reactor Vessel									
B-A	B1.10	RV Shell Welds	Volumetric								
B-A	B1.11	RV Shell Welds Circumferential	UT	5	100%	5	Deferral Permissible	0	0	5	ISI-0298-C
B-A	B1.12	RV Shell Welds Longitudinal	Volumetric	None	100%	N/A	Deferral Permissible	N/A	N/A	N/A	N/A
B-A	B1.20	RV Head Welds	Volumetric								
B-A	B1.21	RV Head Welds	UT	2 (closure and lower)	100% of accessible length	2	Deferral Permissible	0	0	2	ISI-0298-C
B-A	B1.22	RV Head Welds	UT	6 Meridional welds	100% of accessible length	6	Deferral Permissible	0	0	6	ISI-0298-C ISI-0301-C
B-A	B1.30	RV Shell-to-Flange Weld	UT	Included in Item No. B1.11, see RFR 2-ISI-1	100%	0	Partial Deferral See RFR 2-ISI-1	0	0	0	ISI-0298-C

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B-A	B1.40	RV Head-to-Flange Weld	MT & UT	1 (Closure)	100%	1	Partial Deferral See RFR 2-ISI-2	0	0	1	ISI-0301-C
B-A	B1.50	RV Beltline Repair Areas > 10% Wall	Volumetric								
B-A	B1.51	RV Repair Welds Beltline Region	Volumetric	None	All	N/A	Deferral Permissible	N/A	N/A	N/A	N/A
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessels										
B-B	B2.10	Pressurizer Shell-to-Head Welds	Volumetric								
B-B	B2.11	Pressurizer Circ. Shell-to-Head Welds	UT	2	Both	2	Deferral Not Permissible	1	0	1	ISI-0396-C

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B-B	B2.12	Pressurizer Shell to Head Intersecting Longitudinal Welds	UT	2 / 1 FOOT (one longitudinal weld intersecting two circumferential welds)	1 Foot of all	2 / 1 Foot	Deferral Not Permissible	1 Foot of weld intersecting circ. weld selected for examination	0	1 Foot of weld intersecting circ. weld selected for examination	ISI-0396-C
B-B	B2.20	Pressurizer Head Welds	Volumetric								
B-B	B2.21	Pressurizer Head Welds Circumferential	Volumetric	None	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.22	Pressurizer Head Welds Meridional	Volumetric	None	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.30	Steam Generator Primary Side Head Welds	Volumetric								
B-B	B2.31	Steam Generator Primary Side Head Welds Circumferential	Volumetric	None	One weld per head	N/A	Deferral not Permissible	N/A	N/A	N/A	N/A

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B-B	B2.32	Steam Generator Primary Side Head Welds Meridional	Volumetric	None	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.40	SG Tubesheet-to-Head Weld	UT	4 SG/ 1 weld each	One weld	1	Deferral Not Permissible	1	0	0	ISI-0401-C
B-B	B2.50	Heat Exchangers (Primary Side), Head Welds	Volumetric	N/A	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.51	Heat Exchangers (Primary Side), Head Welds, Circumferential	Volumetric	N/A	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.52	Heat Exchangers (Primary Side), Head Welds, Meridional	Volumetric	N/A	One weld per head	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.60	Heat Exchangers (Primary Side) -Shell, Tubesheet -to-Head Welds	Volumetric	N/A	One weld per group, 100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-B	B2.70	Heat Exchangers (Primary Side) -Shell, Longitudinal Welds	Volumetric	N/A	One foot of one weld per group, at each end of shell	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-B	B2.80	Heat Exchangers (Primary Side) -Shell Tubesheet-to-Shell Welds	Volumetric	N/A	One weld per group at each end	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-D	Full Penetration Welds of Nozzles in Vessels										
B-D	B3.90	RV Noz-to-Ves Welds	UT	8	100%	8	Deferral Permissible See Code Case N-521	0	0	8	ISI-0298-C ISI-0297-C ISI-0392-C
B-D	B3.100	RV Noz Inside Radius Section	UT	8	100%	8	Deferral Not Permissible See Code Case N-521	0	0	8	ISI-0008-C ISI-0297-C ISI-0298-C ISI-0392-C
B-D	B3.110	Pressurizer Noz-Ves Welds	UT	6	100%	6	Deferral Not Permissible	2	2	2	ISI-0396-C
B-D	B3.120	Pressurizer Noz Inside Radius Section	UT	6	100%	6	Deferral Not Permissible	2	2	2	ISI-0396-C
B-D	B3.130	SG Primary Side Noz-Ves Welds	Volumetric	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-D	B3.140	SG Primary Side Nozzle Inside Radius Section	UT	8	100%	8	Deferral Not Permissible	2	2	4	ISI-0401-C
B-D	B3.150	Heat Exchanger Primary Side Nozzle-to-Vessel Welds	Volumetric	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-D	B3.160	Heat Exchanger Primary Side Noz Inside Radius Section	Volumetric	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-E		Pressure Retaining Partial Penetration Welds in Vessels									
B-E	B4.10	RV Partial Penetration Welds	Visual								
B-E	B4.11	RV Partial Penetration Welded Nozzles	VT-2	5 (4 UHI, 1 Vent)	25%	2 (1 UHI, 1 Vent)	Deferral Permissible	0	0	2 (1 UHI, 1 Vent)	ISI-0097-C ISI-0318-C
B-E	B4.12	RV Control Rod Drive Noz	VT-2	78	25%	20	Deferral Permissible	0	0	20	ISI-0097-C ISI-0300-C
B-E	B4.13	RV Instrumentation Noz	VT-2	58	25%	15	Deferral Permissible	0	0	15	ISI-0319-C

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B-E	B4.20	Pressurizer Heater Penetration Welds	VT 2	78	100%	78	Deferral Permissible	0	0	78	ISI-0309-A
B-F	Pressure Retaining Dissimilar Metal Welds										
B-F	B5.10	RV Noz-to-SE Dissimilar Metal Butt Welds NPS 4" or Larger	PT & UT	8	100%	8	Deferral Not Permissible See Code Case N-521	0	0	8	ISI-0298-C ISI-0008-C
B-F	B5.20	RV Noz-to-SE Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.30	RV Noz-to-SE Dissimilar Metal Socket Welds	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.40	Pressurizer Noz-to-SE Dissimilar Metal Butt Welds NPS 4" or Larger	PT & UT	6	100%	6	Deferral Not Permissible	2	2	2	ISI-0396-C
B-F	B5.50	Pressurizer Noz-to-SE Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-F	B5.60	Pressurizer Noz-to-SE Dissimilar Metal Socket Welds	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.70	SG Noz-to-SE Dissimilar Metal Butt Welds NPS 4" or Larger	PT & UT	8	100%	8	Deferral Not Permissible	2	3	3	ISI-0401-C
B-F	B5.80	Steam Generator Noz-to-SE Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.90	Steam Generator Noz-to-SE Dissimilar Metal Socket Welds	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.100	Heat Exchanger Noz-to-SE Dissimilar Metal Welds NPS 4" or Larger	PT & UT	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.110	Heat Exchanger Noz-to-SE Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.120	Heat Exchanger Noz-to-SE Dissimilar Metal Socket Welds	Surface	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
B-F	B5.130	Piping Dissimilar Metal Butt Welds NPS 4" or Larger	PT & UT	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.140	Piping Dissimilar Metal Butt Welds NPS Less Than 4"	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-F	B5.150	Piping Dissimilar Metal Socket Welds	Surface	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	Pressure Retaining Bolting, Greater Than 2" in Diameter										
B-G-1	B6.10	RV Closure Head Nuts > 2" in diameter	MT	54	100%	54	Deferral Not Permissible	18	18	18	ISI-0304-C
B-G-1	B6.20	RV Closure Studs > 2" diameter, in place	Volumetric	Included in Item No. B6.30	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.30	RV Closure Studs > 2" diameter, when removed	MT & UT	54	100%	54	Deferral Permissible	18	18	18	ISI-0304-C
B-G-1	B6.40	RV Threads in Flange	UT	54	100%	54	Deferral Not Permissible	18	18	18	ISI-0304-C

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B-G-1	B6.50	RV Closure Washers, Bushings Note: RV does not have bushings only washers	VT-1	54	100%	54	Deferral Not Permissible	18	18	18	ISI-0304-C
B-G-1	B6.60	Pressurizer Bolts and Studs >2" diameter	Volumetric	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.70	Pressurizer Flange Surfaces When Connection Disassembled	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.80	Pressurizer Nuts, Bushings, and Washers	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.90	SG Bolts and Studs >2" diameter	Volumetric	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.100	SG Flange Surfaces When Connection Disassembled	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.110	SG Nuts, Bushings, and Washers	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.120	Heat Exchanger Bolts and Studs	Volumetric	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-G-1	B6.130	Heat Exchanger Flange Surfaces When Connection Disassembled	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.140	Heat Exchanger Nuts, Bushings, and Washers	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.150	Piping Bolts and Studs > 2" diameter	Volumetric	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.160	Piping Flange Surfaces When Connection Disassembled	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.170	Piping Nuts, Bushings, and Washers	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.180	RCP Bolts & Studs > 2" dia	UT	4 Pumps/ 24 bolts per pump	One pump selected for examination under B-L-2	one pump/ 24 bolts	Deferral Not Permissible	only if B-L-2 examination is done	only if B-L-2 examination is done	only if B-L-2 examination is done	ISI-0307-C
B-G-1	B6.190	RCP Flange Surface, when connection is disassembled	VT-1	4 Pumps/ 24 bolts per pump	One pump selected for examination under B-L-2	one pump/ 24 bolts	Deferral Not Permissible	only if B-L-2 examination is done	only if B-L-2 examination is done	only if B-L-2 examination is done	ISI-0307-C
B-G-1	B6.200	RCP Nuts, Bushings, and Washers	Visual	None	One pump selected for examination under B-L-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
B-G-1	B6.210	Valve Bolts & Studs > 2" dia	Volumetric	None	Valves selected for examination under B-M-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.220	Valve Flange Surface, when connection is disassembled	Visual	None	Valves selected for examination under B-M-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-1	B6.230	Valve Nuts, Bushings, and Washers	Visual	None	Valves selected for examination under B-M-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-2	Pressure Retaining Bolting, 2" and Less in Diameter										
B-G-2	B7.10	Reactor Vessel Bolts, Studs, and Nuts <= 2" dia	Visual	None	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-G-2	B7.20	Pressurizer Bolts, Studs, and Nuts <= 2" dia	VT-1	One Manway / 16 Bolts	100%	One Manway / 16 Bolts	Deferral Not Permissible	0	One Manway	0	ISI-0299-B
B-G-2	B7.30	SG Bolts, Studs, and Nuts <= 2" dia	VT-1	4 Gen / 2 Manways / 16 Bolts each	One Steam Generator selected for exam under B-B	One Gen / 2 Manways / 16 Bolts each	Deferral Not Permissible	One Manway	0	One Manway	ISI-0299-B
B-G-2	B7.40	Heat Exchanger Bolts, Studs, and Nuts <= 2" dia	Visual	N/A	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A

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B-G-2	B7.50	Piping Bolts, Studs, and Nuts <= 2" dia	Visual								
	B7.50	CVCS	VT-1	4	100%	4	Deferral Not Permissible	1	1	2	MSG-0008-C
	B7.50	RCS	VT-1	5	100%	5	Deferral Not Permissible	1	2	2	ISI-0013-C
	B7.50	RHR	VT-1	NONE	100%	N/A	Deferral Not Permissible	N/A	N/A	N/A	ISI-0003-C
	B7.50	SIS	VT-1	4	100%	4	Deferral Not Permissible	1	1	2	ISI-0002-C
B-G-2	B7.60	Pumps Bolts, Studs, and Nuts <= 2" dia	VT-1	4 Pumps/ 2 Sets/ one set 12 bolts, the other set 8 bolts	One pump selected for examination under B-L-2	One pump/ 2 Sets	Deferral Not Permissible	Only if B-L-2 examination is done	Only if B-L-2 examination is done	Only if B-L-2 examination is done	
B-G-2	B7.70	Valves Bolts, Studs, and Nuts <= 2" dia	Visual								
	B7.70	CVCS	VT-1	NONE	One valve selected for examination under B-M-2	N/A	Deferral Not Permissible	N/A	N/A	N/A	MSG-0008-C
	B7.70	RCS	VT-1	One Group / 3 Valves	One valve selected for examination under B-M-2	One Group / one valve per group	Deferral Not Permissible	Only if B-M-2 examination is done	Only if B-M-2 examination is done	Only if B-M-2 examination is done	ISI-0013-C

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	B7.70	RHR	VT-1	Three Groups/ 6 Valves	One valve selected for examination under B-M-2	Three Groups/ one valve per group	Deferral Not Permissible	Only if B-M-2 examination is done	Only if B-M-2 examination is done	Only if B-M-2 examination is done	ISI-0003-C
	B7.70	SIS	VT-1	Two Groups/ 14 Valves	One valve selected for examination under B-M-2	Two Groups/ one valve per group	Deferral Not Permissible	Only if B-M-2 examination is done	Only if B-M-2 examination is done	Only if B-M-2 examination is done	ISI-0002-C
B-G-2	B7.80	CRD Housing Bolts, Studs, and Nuts	Visual	None	Bolts, studs and nuts in CRD housing when disassembled	N/A	Deferral Not Permissible	N/A	N/A	N/A	N/A
B-J	Pressure Retaining Welds in Piping										
B-J	B9.10	NPS 4" or Larger	Surface and Volumetric								
B-J	B9.11	Piping NPS 4" or Larger Circumferential Welds	Surface and Volumetric								
	B9.11	RCS Main	PT & UT	45	25%	12	Deferral Not Permissible	4	4	4	ISI-0008-C
	B9.11	RCS	PT & UT	70 Note: This includes the Auxiliary Head Adapter welds.	25%	18	Deferral Not Permissible	5	6	7	ISI-0013-C ISI-0318-C

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	B9.11	RHRS	PT & UT	45	25%	12	Deferral Not Permissible	4	4	4	ISI-0003-C
	B9.11	SIS	PT & UT	72	25%	18	Deferral Not Permissible	6	6	6	ISI-0002-C
B-J	B9.12	Longitudinal Piping Welds NPS 4" or Larger	Code Case N-524	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-J	B9.20	Less Than NPS 4"	Surface								
B-J	B9.21	Piping Circ. Welds Less than NPS 4"	Surface								
	B9.21	CVCS	PT	62	25%	16	Deferral Not Permissible	5	5	6	ISI-0009-C
	B9.21	RCS	PT	20	25%	5	Deferral Not Permissible	2	1	2	ISI-0003-C ISI-0013-C
	B9.21	SIS	PT	38	25%	10	Deferral Not Permissible	3	4	3	ISI-0002-C
B-J	B9.22	Longitudinal Piping Welds Less than NPS 4"	Code Case N-524	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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B-J	B9.30	Branch Pipe Connection Welds	Surface and Volumetric								
B-J	B9.31	Piping Branch Connection Welds NPS 4" or Larger	Surface and Volumetric								
	B9.31	CVCS	PT & UT	0	25%	0	Deferral Not Permissible	0	0	0	ISI-0009-C
	B9.31	RCS	PT & UT	2	25%	1	Deferral Not Permissible	0	0	1	ISI-0008-C ISI-0013-C
	B9.31	RCS Main	PT & UT	1	25%	1	Deferral Not Permissible	0	1	0	ISI-0008-C
	B9.31	RHRS	PT & UT	3	25%	1	Deferral Not Permissible	0	1	0	ISI-0003-C
	B9.31	SIS	PT & UT	5	25%	2	Deferral Not Permissible	1	0	1	ISI-0002-C
B-J	B9.32	Piping Branch Connection Welds Less than NPS 4"	Surface								
	B9.32	CVCS	PT	4	25%	1	Deferral Not Permissible	0	0	1	ISI-0009-C ISI-0013-C
	B9.32	RCS	PT	11	25%	3	Deferral Not Permissible	1	1	1	ISI-0008-C ISI-0013-C
	B9.32	RCS Main	PT	12	25%	3	Deferral Not Permissible	1	1	1	ISI-0008-C

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	B9.32	RHRS	PT	2	25%	1	Deferral Not Permissible	1	0	0	ISI-0003-C
	B9.32	SIS	PT	11	25%	3	Deferral Not Permissible	1	1	1	ISI-0002-C
B-J	B9.40	Piping Socket Welds	Surface								
	B9.40	CVCS	PT	238	25%	60	Deferral Not Permissible	20	20	20	ISI-0009-C MSG-0008-C
	B9.40	RCS	PT	70	25%	18	Deferral Not Permissible	6	6	6	ISI-0008-C ISI-0013-C
	B9.40	RHRS	PT	18	25%	5	Deferral Not Permissible	1	2	2	ISI-0003-C
	B9.40	SIS	PT	171	25%	43	Deferral Not Permissible	14	15	14	ISI-0002-C
B-L-1		Pressure Retaining Welds in Pump Casings									
B-L-1	B12.10	Pump Casing Welds	Volumetric	None	Code Case-481 (Note Unit 1 only).	N/A	Deferral Permissible	N/A	N/A	N/A	N/A

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B-L-2		Pump Casings									
B-L-2	B12.20	Pump Casing Internal Surfaces	VT-3	4	At least one pump in each group of pumps when disassembled for maintenance.	One Pump	Deferral Permissible	Only if pump disassembled	Only if pump disassembled	Only if pump disassembled	ISI-0307-C
B-M-1		Pressure Retaining Welds in Valve Bodies									
B-M-1	B12.30	Valves (less than NPS 4") Body Welds	Surface	None	At least one valve in each group of valves.	N/A	Deferral Permissible	N/A	N/A	N/A	N/A
B-M-1	B12.40	Valves (NPS 4" or greater) Body Welds	Volumetric	None	At least one valve in each group of valves.	N/A	Deferral Permissible	N/A	N/A	N/A	N/A

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B-M-2		Valve bodies									
	B12.50	Valves (> NPS 4") Body Internal Surfaces	Visual								
	B12.50	RCS	VT-3	One Group	At least one valve in each group of valves when disassembled for maintenance.	One Group / one valve per group	Deferral Permissible	Only if disassembled	Only if disassembled	Only if disassembled	Attachment 6
	B12.50	RHR	VT-3	Three Groups	At least one valve in each group of valves when disassembled for maintenance.	Three Groups / one valve per group	Deferral Permissible	Only if disassembled	Only if disassembled	Only if disassembled	Attachment 6
	B12.50	SIS	VT-3	Two Groups	At least one valve in each group of valves when disassembled for maintenance.	Two Groups / one valve per group	Deferral Permissible	Only if disassembled	Only if disassembled	Only if disassembled	Attachment 6

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B-N-1		Interior of Reactor Vessel									
B-N-1	B13.10	RV Interior Accessible areas	VT-3	1	Each Inspection Period	1	Deferral Not Permissible	1	1	1	ISI-0298-C
B-N-2		Integrally Welded Core Support Structure and Interior Attachments to Reactor Vessel									
B-N-2	B13.50	RV Interior Attachments Within Beltline Region	Visual	None	Accessible welds	N/A	Deferral Permissible	N/A	N/A	N/A	N/A
B-N-2	B13.60	RV Interior Attachments Beyond Beltline Region	VT-3	6	Accessible welds	6	Deferral Permissible	0	0	6	ISI-0298-C
B-N-3		Removal Core Support Structures									
B-N-3	B13.70	RV Core Support Structure Accessible Surfaces	VT-3	1	Accessible surfaces	1	Deferral Permissible	0	0	1	ISI-0298-C
B-O		Pressure Retaining welds in Control Rod housing									
B-O	B14.10	RV Welds in CRD Housings	UT	78 CRD Housings/ 17 Peripheral Housings	10% of Peripheral Housings during last period	2	Deferral Permissible	0	0	2	ISI-0097-C ISI-0300-C

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C-A		Pressure Retaining welds in pressure Vessels									
C-A	C1.10	Pressure Retaining Shell Circumferential Welds	Volumetric								
	C1.10	Steam Generator	UT	4 SG/ 3 welds per SG	All in one vessel at structural discontinuity	3	Each Inspection Interval	1 (upper shell-to-transition cone girth weld)	1	1	ISI-0401-C
	C1.10	Residual Heat Removal Heat Exchanger	UT	2 RHRHX/ 1 weld per RHRHX	All in one vessel at structural discontinuity	1	Each Inspection Interval	1	0	0	ISI-0289-C
	C1.10	Containment Spray Heat Exchanger	UT	2 CSHX/ 1 weld per CSHX	All in one vessel at structural discontinuity	1	Each Inspection Interval	0	1	0	ISI-0463-C
	C1.10	Seal Water Heat Exchanger	UT	1	All in one vessel at structural discontinuity	1	Each Inspection Interval	0	0	1	ISI-0461-C
	C1.10	Seal Water Filter	UT	1	All in one vessel at structural discontinuity	1	Each Inspection Interval	0	0	1	ISI-0459-C

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	C1.10	Seal Water Injection Filter	UT	2 SWIF/ 1 weld per SWIF	All in one vessel at structural discontinuity	1	Each Inspection Interval	0	0	1	ISI-0457-C
	C1.10	Centrifugal Charging Pump Tank	Volumetric	None	All in one vessel at structural discontinuity	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-A	C1.20	Pressure Retaining Head Circumferential Welds	Volumetric								
	C1.20	Steam Generator	UT	4 SG/ 1 weld per SG	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	1	0	0	ISI-0401-C
	C1.20	Residual Heat Removal Heat Exchanger	UT	2 RHRHX/ 1 weld per RHRHX	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	1	0	0	ISI-0289-C
	C1.20	Containment Spray Heat Exchanger	UT	2 CSHX/ 1 weld per CSHX	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	1	0	ISI-0463-C
	C1.20	Seal Water Heat Exchanger	UT	1	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	0	1	ISI-0461-C
	C1.20	Seal Water Filter	UT	1	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	0	1	ISI-0459-C

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	C1.20	Seal Water Injection Filter	UT	2 SWIF / 1 weld per SWIF	Head-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	0	1	ISI-0457-C
	C1.20	Centrifugal Charging Pump Tank	UT	2	Head-to-Shell Welds, in one vessel	2	Each Inspection Interval	1	0	1	ISI-0074-A
C-A	C1.30	Tubesheet-to-shell Weld	Volumetric								
	C1.30	Steam Generator	UT	4 SG/ 1 weld per SG	Tubesheet-to-Shell Welds, in one vessel	1	Each Inspection Interval	0	1	0	ISI-0401-C
	C1.30	Residual Heat Removal Heat Exchanger	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each inspection Interval	N/A	N/A	N/A	ISI-0284-A
	C1.30	Containment Spray Heat Exchanger	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0463-C
	C1.30	Seal Water Heat Exchanger	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0461-C
	C1.30	Seal Water Filter	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0459-C

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	C1.30	Seal Water Injection Filter	Volumetric	None	Tubesheet-to-Shell Welds, in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0457-C
C-B	Pressure Retaining Nozzle Welds in Vessels										
C-B	C2.10	Nozzles in vessels <= 1/2" nominal thickness									
C-B	C2.11	Nozzle-to-Shell (or Head) Weld in Vessels <= 1/2" thk	Surface								
	C2.11	Seal Water Heat Exchanger	PT	2	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	2	0	0	ISI-0461-C
	C2.11	Seal Water Filter	PT	2	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	2	0	ISI-0459-C
	C2.11	Seal Water Injection Filter	PT	2 SWIF/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	0	2	ISI-0457-C

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C-B	C2.20	Nozzles without reinforcing plate in vessels >1/2" nominal thickness									
C-B	C2.21	Nozzles without Reinforcing Plate in Vessels > 1/2" thk	Surface and Volumetric								
	C2.21	Steam Generator	MT & UT	4 SG/ 1 FW nozzle and 1 MS nozzle	All nozzles at terminal ends of piping runs in one vessel	2 (1 FW and 1 MS)	Each Inspection Interval	1 (FW)	1 (MS)	0	ISI-0401-C
	C2.21	Residual Heat Removal Heat Exchanger	PT & UT	2 RHRHX/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	1	1	ISI-0289-C
	C2.21	Containment Spray Heat Exchanger	PT & UT	2 CSHX/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	1	1	0	ISI-0463-C
	C2.21	Centrifugal Charging Pump Tank	MT & UT	2	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	1	1	ISI-0074-A

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C-B	C2.22	Nozzle Inside Radius Section	Volumetric								
	C2.22	Steam Generator	UT	4 SG/ 1 FW nozzle and 1 MS nozzle per SG	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	1(FW)	1 (MS)	0	ISI-0401-C
	C2.22	Residual Heat Removal Heat Exchanger	UT	2 RHRHX/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	1	1	ISI-0284-A
	C2.22	Containment Spray Heat Exchanger	UT	2 CSHX/ 2 nozzles each	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	1	1	0	ISI-0463-C
	C2.22	Centrifugal Charging Pump Tank	UT	2	All nozzles at terminal ends of piping runs in one vessel	2	Each Inspection Interval	0	1	1	ISI-0074-A

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C-B	C2.30	Nozzles with reinforcing plate in vessels > 1/2 " nominal thickness									
C-B	C2.31	Nozzles with Reinforcing Plate in Vessels > 1/2" thk. Reinforcing Plate Welds to Vessel & Nozzle	Surface	None	All nozzles at terminal ends of piping runs in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-B	C2.32	Nozzle-to-Shell (or head) Weld when inside of Vessel is accessible	Volumetric	None	All nozzles at terminal ends of piping runs in one vessel	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-B	C2.33	Nozzle-to-Shell (or head) Weld when inside of Vessel is inaccessible	Visual	None	All nozzles at terminal ends of piping runs in one vessel	N/A	Each Inspection Period	N/A	N/A	N/A	N/A
C-D	Pressure Retaining Bolting greater Than 2 Inches in Diameter										
C-D	C4.10	Pressure Vessels Bolts & Studs > 2" dia	Volumetric								
	C4.10	Steam Generator	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Residual Heat Removal Heat Exchanger	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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	C4.10	Containment Spray Heat Exchanger	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Seal Water Heat Exchanger	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Seal Water Filter	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Seal Water Injection Filter	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C4.10	Centrifugal Charging Pump Tank	UT	1 CCP/ 16 bolts	100% of one component	1 (16 bolts)	Each Inspector. Interval	1 (16 bolts)	0	0	ISI-0074-A
C-D	C4.20	Piping Bolts & Studs > 2" dia	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-D	C4.30	Pumps Bolts & Studs > 2" dia	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-D	C4.40	Valves Bolts & Studs > 2" dia	Volumetric	None	100% of one component	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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C-F-1		Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping									
C-F-1	ALL	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	See Each Item Number.		7.5% of all welds not exempted by IWC-1220 spread over the Item Numbers within this Exam Category, but not including welds excluded by wall thickness.						
C-F-1	C5.10	Piping welds >= 3/8" nominal wall thickness for piping > NPS 4"									
C-F-1	C5.11	Piping Circ. Welds NPS > 4" or Larger and >= 3/8" Nom Wall.	Surface and Volumetric								
	C5.11	CS	PT & UT	154	7.50%	12	Each Inspection Interval	4	4	4	ISI-0007-C

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	C5.11	CVCS	PT & UT	66	7.50%	5 Note: 64 of these welds are on excluded piping and the remaining 2 have limited access. Based on the above these 5 welds will be included in CVCS item number C5.21	Each Inspection Interval	N/A	N/A	N/A	ISI-0431-C ISI-0435-C
	C5.11	RHRS	PT & UT	270	7.50%	21	Each Inspection Interval	7	7	7	ISI-0003-C
	C5.11	SIS	PT & UT	330	7.50%	25	Each Inspection Interval	8	8	9	ISI-0002-C
C-F-1	C5.12	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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C-F-1	C5.20	Piping Welds >1/5" nominal wall thickness for piping >= NPS 2" and <= NPS 4"									
C-F-1	C5.21	Circumferential Welds	Surface and Volumetric								
	C5.21	CS	PT & UT	1	7.50%	1	Each Inspection Interval	1	0	0	ISI-0431-C ISI-0435-C
	C5.21	CVCS	PT & UT	344	7.50%	31 Note: This includes the 5 welds from CVCS item number C5.11	Each Inspection Interval	10	10	11	ISI-0431-C ISI-0435-C
	C5.21	RHRS	PT & UT	55	7.50%	5	Each Inspection Interval	1	2	2	ISI-0431-C ISI-0435-C
	C5.21	SIS	PT & UT	255	7.50%	20	Each Inspection Interval	6	7	7	ISI-0431-C ISI-0435-C
	C5.22	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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C-F-1	C5.30	Socket Welds	Surface								
	C5.30	CS	PT	26	7.50%	2	Each Inspection Interval	1	0	1	ISI-0431-C ISI-0435-C
	C5.30	CVC	PT	153	7.50%	12	Each Inspection Interval	4	4	4	ISI-0431-C ISI-0435-C
	C5.30	RHR	PT	6	7.50%	1	Each Inspection Interval	0	1	0	ISI-0431-C ISI-0435-C
	C5.30	SIS	PT	215	7.50%	17	Each Inspection Interval	5	6	6	ISI-0431-C ISI-0435-C

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C-F-1	C5.40	Pipe Branch Connections of Branch Piping >= 2" NPS									
C-F-1	C5.41	Branch Connection Welds >= NPS 2"	Surface								
	C5.41	CVCS	PT	3	7.50%	1	Each Inspection Interval	1	0	0	ISI-0431-C ISI-0435-C
	C5.41	CS	PT	2	7.50%	1	Each Inspection Interval	1	1	0	ISI-0007-C ISI-0431-C ISI-0435-C
	C5.41	RHRS	PT	4	7.50%	1	Each Inspection Interval	0	0	1	ISI-0003-C ISI-0431-C ISI-0435-C
	C5.41	SIS	PT	7	7.50%	1	Each Inspection Interval	0	0	1	ISI-0002-C ISI-0431-C ISI-0435-C
	C5.42	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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C-F-2		Pressure Retaining Welds in Carbon or Low Alloy Steel Piping									
C-F-2	All	Pressure retaining welds in carbon or low alloy steel piping	see each item number		7.5% of all welds not exempted by IWC-1220 spread over the item numbers within this examination category, but not including welds excluded by wall thickness						
C-F-2	C.5.50	Piping welds \geq 3/8" nominal wall thickness for piping > NPS 4"									
C-F-2	C5.51	Piping circumferential welds \geq 3/8" nominal wall thickness for piping > NPS 4"	Surface and Volumetric								
	C5.51	FW	MT & UT	71	7.5%, but not less than 28 welds total for all C-F-2	11	Each Inspection Interval	3	4	4	CHM-2403-C

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	C5.51	MS	MT & UT	127	7.5%, but not less than 28 welds total for all C-F-2	18	Each Inspection Interval	6	6	6	ISI-0015-C
C-F-2	C5.52	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C-F-2	C5.60	Piping welds >1/5" nominal wall thickness for piping >= NPS 2" and <= NPS 4"	Surface and Volumetric	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-F-2	C5.61	Piping Circ. Welds >=NPS 2" and <= NPS 4"	Surface and Volumetric	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-F-2	C5.62	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C-F-2	C5.70	Socket Welds	Surface	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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C-F-2	C5.80	Pipe Branch Connection of branch piping >= NPS 2"									
C-F-2	C5.81	Branch Connection Welds >= NPS 2"	Surface								
	C5.81	FW	MT	None	7.50%	N/A	Each inspection Interval	N/A	N/A	N/A	CHM-2403-C
	C5.81	MS	MT	None	7.50%	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0015-C
C-F-2	C5.82	Longitudinal Welds	Code Case N-524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C-G	Pressure Retaining Welds in Pumps and Valves										
C-G	C6.10	Pump Casing Welds	Surface	None	100% of welds in components in piping runs examined under C-F.	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
C-G	C6.20	Valve Body Welds	Surface	None	100% of welds in components in piping runs examined under C-F.	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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B-H	All	Integral Attachments for Class 1 Vessels					Reference Code Case N-509 in This Table					
B-K-1	All	Integral Attachments for Class 1 Piping, Pumps, and Valves					Reference Code Case N-509 in This Table					
C-C	All	Integral Attachments for Class 2 Vessels, Piping, Pumps, and Valves					Reference Code Case N-509 in This Table					
D-A	All	Integral Attachments for Class 3 Systems in Support of Reactor Shutdown Function					Reference Code Case N-509 in This Table					
D-B	All	Integral Attachments for Class 3 Systems in Support Emergency Core Cooling, Containment Heat Removal, Atmosphere Cleanup, and Reactor Residual Heat Removal Function					Reference Code Case N-509 in This Table					
D-C	All	Integral Attachments for Class 3 Systems in Support of Residual Heat Removal From Spent Fuel Storage Pool					Reference Code Case N-509 in This Table					
B-K of Code Case N-509	Integral Attachments for Class 1 Vessels, Piping, Pumps, and Valves											
B-K of Code Case N-509	B10.10	Pressure Vessels Integrally Welded Attachments	Surface or Volumetric									
	B10.10	Reactor Vessel	Volumetric	None	100% of required areas of each welded attachment on one vessel whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A	

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	B10.10	Pressurizer Support Skirt	UT	1	100% of required areas of each welded attachment on one vessel whenever component support member deformation is identified	1	Each Inspection Interval	1	0	0	ISI-0396-C
	B10.10	Pressurizer Seismic Lugs	MT	4	100% of required areas of each welded attachment on one vessel whenever component support member deformation is identified	4	Each Inspection Interval	4	0	0	ISI-0396-C
	B10.10	Steam Generator	Surface	None	100% of required areas of each welded attachment on one vessel whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
B-K of Code Case N-509	B10.20	Piping Integrally Welded Attachments Note: This includes Item No. B10.40.	Surface								
	B10.20	CVC	PT	10	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 34 supports examined)	Each Inspection Interval	0	1	0	MSG-0012-C MSG-0015-C
	B10.20	RCS	PT	6	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 14 supports examined)	Each Inspection Interval	1	0	0	MSG-0013-C

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	B10.20	RCS MAIN	PT	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0302-C ISI-0321-C
	B10.20	RHR	PT	3	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 4 supports examined)	Each Inspection Interval	0	1	0	MSG-0010-C
	B10.20	SiS	PT	13	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	2 (Note: 24 supports examined)	Each Inspection Interval	0	0	2	MSG-0009-C
B-K of Code Case N-509	B10.30	Pumps Integrally Welded Attachments Note: This includes Item No. C3.40.	Surface	3 RCP with 3 IA's on each pump	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	3 IA's on one pump	Each Inspection Interval	0	3 IA's on one pump	0	ISI-0326-B
B-K of Code Case N-509	B10.40	Valve Integrally Welded Attachments	Surface	Included under Item Number B10.20 of Code Case N-509	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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C-C of Code Case N-509	Integral Attachments for Class 2 Vessels, Piping, Pumps, and Valves										
C-C of Code Case N-509	C3.10	Pressure Vessels Integrally Welded Attachments	Surface								
	C3.10	Steam Generator	Surface	None	100% of required areas of each welded attachment on one vessel and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C3.10	Residual Heat Removal Heat Exchanger	PT	2 RHRHX / 2 IA's each	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	2 IA's on one RHRHX	Each Inspection Interval	0	2 IA's on one RHRHX	0	ISI-0289-A
	C3.10	Containment Spray Heat Exchanger	PT	2 CSHX / 4 IA's each	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	4 IA's on one CSHX	Each Inspection Interval	0	0	4 IA's on one CSHX	ISI-0463-C
	C3.10	Seal Water Heat Exchanger	PT	Heat exchanger / 2 IA's	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	Heat exchanger / 2 IA's	Each Inspection Interval	0	Heat exchanger / 2 IA's	0	ISI-0461-C
	C3.10	Seal Water Filter	PT	Filter / 4 IA's	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	Filter / 4 IA's	Each Inspection Interval	Filter / 4 IA's	0	0	ISI-0459-C

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	C3.10	Seal Water Injection Filter	PT	2 SWIF/ 3 IA's each	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	3 IA's on one SWIF	Each Inspection Interval	3 IA's on one SWIF	0	0	ISI-0457-C
	C3.10	Centrifugal Charging Pump Tank	MT	Tank / 4 IA's	100% of required areas of each welded attachment on one vessel, whenever component support member deformation is identified	Tank / 4 IA's	Each Inspection Interval	0	0	Tank / 4 IA's	ISI-0074-A
C-C of Code Case N-509	C3.20	Piping Integrally Welded Attachments Note: This includes Item No. C3.40.	Surface								
	C3.20	CS	PT	18	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination; and whenever component support member deformation is identified	1 (Note: 10 supports examined)	Each Inspection Interval	0	0	1	ISI-0449-C MSG-0011-C
	C3.20	CVC	PT	62	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	3 (Note: 23 supports examined)	Each Inspection Interval	1	1	1	ISI-0449-C

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	C3.20	FW	MT	5	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 7 supports examined)	Each Inspection Interval	0	1	0	MSG-0016-C
	C3.20	MS	MT	11	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	1 (Note: 9 supports examined)	Each Inspection Interval	1	0	0	MSG-0017-C
	C3.20	RHR	PT	30	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	2 (Note: 18 supports examined)	Each Inspection Interval	1	0	1	ISI-0449-C MSG-0010-C
	C3.20	SIS	PT	69	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	4 (Note: 40 supports examined)	Each Inspection Interval	1	1	2	ISI-0449-C MSG-0009-C

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SGN UNIT 2 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	% TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION OR DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
C-C of Code Case N-509	C3.30	Pumps Integrally Welded Attachments	Surface								
	C3.30	Centrifugal Charging Pump	PT	2 CCP / 4 IA's on each	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	4 IA's on one pump	Each Inspection Interval	4 IA's on one pump	0	0	ISI-0467-C
	C3.30	Containment Spray Pump	Surface	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C3.30	Residual Heat Removal Pump	Surface	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	C3.30	Safety Injection Pump	Surface	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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SQL UNIT 2 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	% TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION OR DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
C-C of Code Case N-509	C3.40	Valves Integrally Welded Attachments	Surface	Included under Item Number C3.20 of Code Case N-509	100% of required areas of each welded attachment on 10% of the welded attachments associated with the component supports selected for examination and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
D-A of Code Case N-509	Integral Attachments for Class 3 Vessels, Piping, Pumps, and Valves										
D-A of Code Case N-509	D1.10	Pressure Vessels Integrally Welded Attachments	Visual								
	D1.10	Class 3 Containment Spray Heat Exchanger	VT-1	2 CSHX / 4 IA's each	One Heat Exchanger, 100% of required areas of each welded attachment and whenever component support member deformation is identified	4 IA's on one heat exchanger	Each Inspection Interval	0	0	4 IA's on one heat exchanger	ISI-0463-C
	D1.10	Class 3 Nonregenerative Letdown Heat Exchanger	VT-1	Heat Exchanger / 1 IA's	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Heat Exchanger / 1 IA's	Each Inspection Interval	0	Heat Exchanger / 1 IA's	0	ISI-0257-A
	D1.10	Class 3 Gas Stripper and Boric Acid Evaporator Condenser	Visual	None	100% of required areas of each welded attachment and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	% TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION OR DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	D1.10	Class 3 Gas Stripper and Boric Acid Evaporator Distillate Cooler	VT-1	Cooler / 2 IA's	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Cooler / 2 IA's	Each Inspection Interval	0	0	Cooler / 2 IA's	ISI-0226-C
	D1.10	Class 3 Gas Stripper and Boric Acid Evaporator Support Frame	Visual	None	100% of required areas of each welded attachment and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.10	Class 3 Component Cooling Surge Tank	VT-1	Tank / 1 IA	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Tank / 1 IA	Each Inspection Interval	0	Tank / 1 IA	0	ISI-0227-B
	D1.10	Class 3 Essential Raw Cooling Water System Strainer	VT-1	2 ERCWS/ 16 IA's on A and 17 IA's on B	One Strainer, 100% of required areas of each welded attachment and whenever component support member deformation is identified	All IA's on one strainer	Each Inspection Interval	All IA's on one strainer	0	0	ISI-0268-A
	D1.10	Class 3 Air Conditioning /Chilled Water System Shut Down Board Room Water Chiller	VT-1	Chiller / 2 IA's	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Chiller / 2 IA's	Each Inspection Interval	Chiller / 2 IA's	0	0	ISI-0455-C
	D1.10	Class 3 Air conditioning Chilled Water System Chill Water Air Separator	VT-1	Separator / 4 IA's	All, 100% of required areas of each welded attachment and whenever component support member deformation is identified	Separator / 4 IA's	Each Inspection Interval	Separator / 4 IA's	0	0	ISI-0479-C
	D1.10	Class 3 Component Cooling Heat Exchanger	VT-1	None	One Heat Exchanger, 100% of required areas of each welded attachment and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0261-B

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	% TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION OR DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	D1.10	Class 3 Fuel Pool Cooling and Cleaning System Spent Fuel Pit Heat Exchanger	VT-1	Unit 1 only	100% of required areas of each welded attachment and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.10	Class 3 RHR Heat Exchanger Secondary Side	VT-1	2 RHRHSHX / 2 IA's each	One Heat Exchanger, 100% of required areas of each welded attachment and whenever component support member deformation is identified	2 IA's on one heat exchanger	Each Inspection Interval	0	0	2 IA's on one heat exchanger	ISI-0291-B
	D1.10	Class 3 ERCW Old ERCW Intake Pumping Station Strainer	VT-1	2 ERCW-STR / 2 IA's each	One Strainer, 100% of required areas of each welded attachment and whenever component support member deformation is identified	2 IA's on one strainer	Each Inspection Interval	0	2 IA's on one strainer	0	ISI-0481-C
D-A of Code Case N-509	D1.20	Piping Integrally Welded Attachments Note: This includes Item No. D1.40.	Visual								
	D1.20	AFW	VT-1	30	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	3	Each Inspection Interval	1	1	1	ISI-0146-C
	D1.20	CC	VT-1	41	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	5	Each Inspection Interval	1	2	2	ISI-0154-C

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SGN UNIT 2 CLASS 1,2, AND 3 INTEGRALLY WELDED ATTACHMENTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	% TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION OR DEFERRAL OF INSPECTION TO END OF INTERVAL	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	D1.20	ERCW	VT-1	65	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	7	Each Inspection Interval	2	2	3	ISI-0158-C
	D1.20	FPCS	VT-1	Unit 1 only	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.20	ACCW	VT-1	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	ISI-0451-C
D-A of Code Case N-509	D1.30	Pumps Integrally Welded Attachments	Visual								
	D1.30	Class 3 Turbine Driven Auxiliary Feedwater Pump	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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	D1.30	Class 3 Motor Driven Auxiliary Feedwater Pump	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.30	Class 3 Component Cooling System Water Pumps	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.30	Class 3 Essential Raw Cooling Water System Pump Station Pump	VT-1	Unit 1 only	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.30	Class 3 Fuel Pool Cooling and Cleaning System Spent Fuel Pit Pumps	VT-1	Unit 1 only	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
	D1.30	Class 3 Air Conditioning Chilled Water System Chill Water Circulation Pump	Visual	None	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A

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	D1.30	Class 3 ERCW Screen Wash Pump Support	Visual	Unit 1 only	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each Inspection Interval	N/A	N/A	N/A	N/A
D-A of Code Case N-509	D1.40	Valve Integrally Welded Attachments	VT-1	Included under Item No. D1.20 of Code Case N-509.	100% of required areas of each welded attachment on 10% of the welded attachments associated with the nonexempt component supports and whenever component support member deformation is identified	N/A	Each inspection interval	N/A	N/A	N/A	N/A

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER	
F-A of Code Case N-491		Class 1 Piping One-directional Restraints	Visual									
		Function A										
	F1.10A	CVC		VT-3	27	25%	7	Each inspection interval	2	3	2	MSG-0012-C MSG-0015-C
	F1.10A	RCS		VT-3	9	25%	3	Each inspection interval	1	1	1	MSG-0013-C
	F1.10A	RCS MAIN		VT-3	None	25%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0302-C ISI-0321-C
	F1.10A	RHR		VT-3	8	25%	2	Each inspection interval	1	1	0	MSG-0010-C
F1.10A	SIS	VT-3	21	25%	6	Each inspection interval	2	2	2	MSG-0009-C		
F-A of Code Case N-491		Class 1 Piping Multidirectional Restraints	Visual									
		Function B										
	F1.10B	CVC		VT-3	90	25%	23	Each inspection interval	8	7	8	MSG-0012-C MSG-0015-C
	F1.10B	RCS		VT-3	6	25%	2	Each inspection interval	1	1	0	MSG-0013-C
F1.10B	RCS MAIN	VT-3	4	25%	1	Each inspection interval	1	0	0	ISI-0302-C ISI-0321-C		

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	F1.10B	RHR	VT-3	4	25%	1	Each inspection interval	0	0	1	MSG-0010-C
	F1.10B	SIS	VT-3	52	25%	13	Each inspection interval	4	4	5	MSG-0009-C
F-A of Code Case N-491	F1.10C	Class 1 Piping Variable Supports (Springs and Constant Force) Function C	Visual								
	F1.10C	CVC	VT-3	2	25%	1	Each inspection interval	0	1	0	MSG-0012-C MSG-0015-C
	F1.10C	RCS	VT-3	14	25%	4	Each inspection interval	1	1	2	MSG-0013-C
	F1.10C	RCS MAIN	VT-3	None	25%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0302-C ISI-0321-C
	F1.10C	RHR	VT-3	None	25%	N/A	Each inspection interval	N/A	N/A	N/A	MSG-0010-C
	F1.10C	SIS	VT-3	6	25%	2	Each inspection interval	1	1	0	MSG-0009-C
F-A of Code Case N-491	F1.10D	Class 1 Piping Variable Supports (Snubbers) Function D	Visual								
	F1.10D	CVC	VT-3	10	25%	3	Each inspection interval	1	1	1	MSG-0012-C MSG-0015-C

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	F1.10D	RCS	VT-3	22	25%	6	Each inspection interval	2	2	2	MSG-0013-C
	F1.10D	RCS MAIN	VT-3	None	25%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0302-C ISI-0321-C
	F1.10D	RHR	VT-3	1	25%	1	Each inspection interval	0	0	1	MSG-0010-C
	F1.10D	SIS	VT-3	12	25%	3	Each inspection interval	1	1	1	MSG-0009-C
F-A of Code Case N-491	F1.20A	Class 2 Piping One-directional Restraints Function A	Visual								
	F1.20A	CS	VT-3	27	15%	5	Each inspection interval	1	2	2	ISI-0449-C MSG-0011-C
	F1.20A	CVC	VT-3	76	15%	12	Each inspection interval	4	4	4	ISI-0449-C
	F1.20A	FW	VT-3	14	15%	3	Each inspection interval	1	1	1	MSG-0016-C
	F1.20A	MS	VT-3	6	15%	1	Each inspection interval	0	0	1	MSG-0017-C
	F1.20A	RHR	VT-3	50	15%	8	Each inspection interval	3	2	3	ISI-0449-C MSG-0010-C
	F1.20A	SIS	VT-3	68	15%	11	Each inspection interval	4	3	4	ISI-0449-C MSG-0009-C

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F-A of Code Case N-491		Class 2 Piping Multidirectional Restraints	Visual									
		Function B										
	F1.20B	CS		VT-3	25	15%	4	Each inspection interval	1	1	2	ISI-0449-C MSG-0011-C
	F1.20B	CVC		VT-3	43	15%	7	Each inspection interval	2	2	3	ISI-0449-C
	F1.20B	FW		VT-3	3	15%	1	Each inspection interval	0	1	0	MSG-0016-C
	F1.20B	MS		VT-3	11	15%	2	Each inspection interval	1	1	0	MSG-0017-C
	F1.20B	RHR		VT-3	30	15%	5	Each inspection interval	1	2	2	ISI-0449-C MSG-0010-C
F1.20B	SIS	VT-3	158	15%	24	Each inspection interval	8	8	8	ISI-0449-C MSG-0009-C		
F-A of Code Case N-491		Class 2 Piping Variable Supports (Springs and Constant Force)	Visual									
		Function C										
	F1.20C	CS		VT-3	9	15%	2	Each inspection interval	1	1	0	ISI-0449-C MSG-0011-C
F1.20C	CVC	VT-3	10	15%	2	Each inspection interval	0	1	1	ISI-0449-C		

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	F1.20C	FW	VT-3	8	15%	2	Each inspection interval	0	1	1	MSG-0016-C
	F1.20C	MS	VT-3	17	15%	3	Each inspection interval	1	1	1	MSG-0017-C
	F1.20C	RHR	VT-3	20	15%	3	Each inspection interval	1	1	1	ISI-0449-C MSG-0010-C
	F1.20C	SIS	VT-3	12	15%	2	Each inspection interval	1	1	0	ISI-0449-C MSG-0009-C
F-A of Code Case N-491	F1.20D	Class 2 Piping Variable Supports (Snubbers) Function D	Visual								
	F1.20D	CS	VT-3	None	15%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0449-C MSG-0011-C
	F1.20D	CVC	VT-3	9	15%	2	Each inspection interval	1	1	0	ISI-0449-C
	F1.20D	FW	VT-3	5	15%	1	Each inspection interval	1	0	0	MSG-0016-C
	F1.20D	MS	VT-3	14	15%	3	Each inspection interval	1	1	1	MSG-0017-C
	F1.20D	RHR	VT-3	9	15%	2	Each inspection interval	1	1	0	ISI-0449-C MSG-0010-C
	F1.20D	SIS	VT-3	15	15%	3	Each inspection interval	1	1	1	ISI-0449-C MSG-0009-C

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F-A of Code Case N-491	F1.30A	Class 3 Piping One-directional Restraints Function A	Visual								
	F1.30A	ACCW	VT-3	1	10%	1	Each inspection interval	1	0	0	ISI-0451-C
	F1.30A	AFW	VT-3	53	10%	6	Each inspection interval	2	2	2	ISI-0146-C
	F1.30A	CC	VT-3	82	10%	9	Each inspection interval	3	3	3	ISI-0154-C
	F1.30A	CVC	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0449-C
	F1.30A	ERCW	VT-3	137	10%	14	Each inspection interval	4	5	5	ISI-0158-C
	F1.30A	FPCS	VT-3	Unit 1 only	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A
F-A of Code Case N-491	F1.30B	Class 3 Piping Multidirectional Restraints Function B	Visual								
	F1.30B	ACCW	VT-3	11	10%	2	Each inspection interval	0	1	1	ISI-0451-C
	F1.30B	AFW	VT-3	38	10%	4	Each inspection interval	1	1	2	ISI-0146-C

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	F1.30B	CC	VT-3	98	10%	10	Each inspection interval	3	3	4	ISI-0154-C
	F1.30B	CVC	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0449-C
	F1.30B	ERCW	VT-3	154	10%	16	Each inspection interval	5	5	6	ISI-0158-C
	F1.30B	FPCS	VT-3	Unit 1 only	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A
F-A of Code Case N-491	F1.30C	Class 3 Piping Variable Supports (Springs and Constant Force) Function C	Visual								
	F1.30C	ACCW	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0451-C
	F1.30C	AFW	VT-3	30	10%	3	Each inspection interval	1	1	1	ISI-0146-C
	F1.30C	CC	VT-3	16	10%	2	Each inspection interval	1	1	0	ISI-0154-C
	F1.30C	CVC	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0449-C
	F1.30C	ERCW	VT-3	4	10%	1	Each inspection interval	0	1	0	ISI-0158-C
	F1.30C	FPCS	VT-3	Unit 1 only	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A

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SQN UNIT 2 CLASS 1, 2, AND 3 SUPPORTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
F-A of Code Case N-491		Class 3 Piping Variable Supports (Snubbers) Function D	Visual								
	F1.30D	ACCW	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0451-C
	F1.30D	AFW	VT-3	9	10%	1	Each inspection interval	0	1	0	ISI-0146-C
	F1.30D	CC	VT-3	16	10%	2	Each inspection interval	1	0	1	ISI-0154-C
	F1.30D	CVC	VT-3	None	10%	N/A	Each inspection interval	N/A	N/A	N/A	ISI-0449-C
	F1.30D	ERCW	VT-3	9	10%	1	Each inspection interval	0	0	1	ISI-0158-C
	F1.30D	FPCS	VT-3	Unit 1 only	10%	N/A	Each inspection interval	N/A	N/A	N/A	N/A
F-A of Code Case N-491	F1.40	Class 1, 2, or 3 Supports Other Than Piping Supports	Visual			Supports on one or one of multiple components	Each inspection interval				
		Class 1 Equipment									
	F1.40	Class 1 Reactor Vessel	VT-3	Reactor Vessel / 4 supports	All	Reactor Vessel / 4 supports	Each inspection interval	0	0	Reactor Vessel / 4 supports	ISI-0298-C

ATTACHMENT 5

TABLE D

SQN UNIT 2 CLASS 1, 2, AND 3 SUPPORTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	F1.40	Class 1 Pressurizer	VT-3	Pressurizer / 2 support	All	Pressurizer / 2 supports	Each inspection interval	Pressurizer / 2 supports	0	0	ISI-0396-C
	F1.40	Class 1 Steam Generator	VT-3	4 Steam Generator / 1 support each	One Steam Generator	One Steam Generator / 1 support	Each inspection interval	0	0	One Steam Generator / 1 support	ISI-0401-C
	F1.40	Class 1 Reactor Coolant Pump	VT-3	4 Reactor Coolant Pump / 1 support each	One Pump	One Reactor Coolant Pump / 1 support	Each inspection interval	0	One Reactor Coolant Pump / 1 support	0	ISI-0326-B
	F1.40	Class 1 Valves	VT-3	Included in item numbers F1.10A, F1.10B and F1.10C			Each inspection interval				
		Class 2 Equipment									
	F1.40	Class 2 Steam Generator	VT-3	4 Steam Generators / 1 support each	One steam Generator	One Steam Generators / 1 support	Each inspection interval	One Steam Generators / 1 support	0	0	ISI-0401-C
	F1.40	Class 2 Residual Heat Removal Heat Exchanger	VT-3	2 RHRHX / 2 supports on each	One Heat Exchanger	One Heat Exchanger / 2 supports	Each inspection interval	0	One Heat Exchanger / 2 supports	0	ISI-0289-A
	F1.40	Class 2 Containment Spray Heat Exchanger	VT-3	2 CSHX / 4 supports on each	One Heat Exchanger	One Heat Exchanger / 4 supports	Each inspection interval	0	0	One Heat Exchanger / 4 supports	ISI-0463-C

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SQN UNIT 2 CLASS 1, 2, AND 3 SUPPORTS SCHEDULE PLANNING DOCUMENT

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	F1.40	Class 2 Seal Water Heat Exchanger	VT-3	Seal Water Heat Exchanger / 2 supports	All	Seal Water Heat Exchanger / 2 supports	Each inspection interval	0	Seal Water Heat Exchanger / 2 supports	0	ISI-0461-C
	F1.40	Class 2 Seal Water Filter	VT-3	Seal Water Filter / 1 support	All	Seal Water Filter / 1 support	Each inspection interval	Seal Water Filter / 1 support	0	0	ISI-0459-C
	F1.40	Class 2 Seal Water Injection Filter	VT-3	2 SWIF / 1 support each	One filter	One SWIF / 1 support	Each inspection interval	One SWIF / 1 support	0	0	ISI-0457-C
	F1.40	Class 2 Centrifugal Charging Pump Tank	VT-3	Centrifugal Charging Pump Tank / 4 supports	All	Centrifugal Charging Pump Tank / 4 supports	Each inspection interval	0	0	Centrifugal Charging Pump Tank / 4 supports	ISI-0074-A
	F1.40	Class 2 Residual Heat Removal Pump	VT-3	2 RHRP / 1 support each	One Pump	One RHRP / 1 support	Each inspection interval	0	One RHRP / 1 support	0	ISI-0352-B
	F1.40	Class 2 Centrifugal Charging Pump	VT-3	2 CCP / 1 support each	One Pump	One CCP / 1 support	Each inspection interval	One CCP / 1 support	0	0	ISI-0467-C
	F1.40	Class 2 Safety Injection Pump	VT-3	2 SIP / 1 support each	One Pump	One SIP / 1 support	Each inspection interval	0	One SIP / 1 support	0	ISI-0471-C

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SQN UNIT 2 CLASS 1, 2, AND 3 SUPPORTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	F1.40	Class 2 Containment Spray Pump	VT-3	2 CSP / 1 support each	One Pump	One CSP / 1 support	Each inspection interval	0	0	One CSP / 1 support	ISI-0465-C
	F1.40	Class 2 Valves	Visual	Included in item numbers F1.20A, F1.20B and F1.20C			Each inspection interval				
		Class 3 Equipment									
	F1.40	Class 3 Containment Spray Heat Exchanger	VT-3	2 CSHX / 1 support each	One Heat Exchanger	One CSHX / 1 support	Each inspection interval	0	0	One CSHX / 1 support	ISI-0463-C
	F1.40	Class 3 Nonregenerative Letdown Heat Exchanger	VT-3	Heat Exchanger / 1 support	All	Heat Exchanger / 1 support	Each inspection interval	0	Heat Exchanger / 1 support	0	ISI-0257-A
	F1.40	Class 3 Gas Stripper and Boric Acid Evaporator Condenser	VT-3	Condenser / 2 supports	All	Condenser / 2 supports	Each inspection interval	0	0	Condenser / 2 supports	ISI-0226-C
	F1.40	Class 3 Gas Stripper and Boric Acid Evaporator Distillate Cooler	VT-3	Cooler / 2 supports	All	Cooler / 2 supports	Each inspection interval	0	0	Cooler / 2 supports	ISI-0226-C

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SQN UNIT 2 CLASS 1, 2, AND 3 SUPPORTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	F1.40	Class 3 Gas Stripper and Boric Acid Evaporator Support Frame	VT-3	Frame / 1 support	All	Frame / 1 support	Each inspection interval	0	0	Frame / 1 support	ISI-0226-C
	F1.40	Class 3 Component Cooling Surge Tank	VT-3	Tank / 1 support	All	Tank / 1 support	Each inspection interval	0	Tank / 1 support	0	ISI-0227-B
	F1.40	Class 3 Turbine Driven Auxiliary Feedwater Pump	VT-3	Pump / 2 supports	All	Pump / 2 supports	Each inspection interval	0	0	Pump / 2 supports	ISI-0475-C
	F1.40	Class 3 Motor Driven Auxiliary Feedwater Pump	VT-3	2 MDAFWP / 2 supports each	One pump	One MDAFWP / 2 supports	Each inspection interval	0	0	One MDAFWP / 2 supports	ISI-0477-C
	F1.40	Class 3 CCS Water Pumps	VT-3	2 CCSWP / 1 support each	One pump	One CCSWP / 1 support	Each inspection interval	0	One CCSWP / 1 support	0	ISI-0260-A
	F1.40	Class 3 CCS Heat Exchanger	VT-3	2 CCHX / 1 support each	One heat exchanger	One CCHX / 1 support	Each inspection interval	0	One CCHX / 1 support	0	ISI-0261-B
	F1.40	Class 3 ERCW Strainer	VT-3	2 ERCWS / 1 support each	One Strainer	One ERCWS / 1 support	Each inspection interval	One ERCWS / 1 support	0	0	ISI-0268-A

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SGN UNIT 2 CLASS 1, 2, AND 3 SUPPORTS SCHEDULE PLANNING DOCUMENT

EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	F1.40	Class 3 ERCW Pump Station Pump	VT-3	Unit 1 only	One Pump	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.40	Class 3 FPCC Spent Fuel Pit Pumps	VT-3	Unit 1 only	One Pump	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.40	Class 3 ACCW Shut Down Board Room Water Chiller	VT-3	Chiller / 1 support	All	Chiller / 1 support	Each inspection interval	Chiller / 1 support	0	0	ISI-0455-C
	F1.40	Class 3 ACCW Chill Water Circulation Pump	VT-3	Pump / 1 support	All	Pump / 1 support	Each inspection interval	Pump / 1 support	0	0	ISI-0473-C
	F1.40	Class 3 ACCW Chill Water Air Separator	VT-3	Separator / 1 support	All	Separator / 1 support	Each inspection interval	Separator / 1 support	0	0	ISI-0479-C
	F1.40	Class 3 FPCC Spent Fuel Pit Heat Exchanger	VT-3	Unit 1 only	One heat exchanger	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.40	Class 3 RHR Heat Exchanger Secondary Side	VT-3	2 RHRSHX / 2 supports each	One heat exchanger	One RHRSHX/ 2 supports	Each inspection interval	0	0	One RHRSHX/ 2 supports	ISI-0291-B

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SQN UNIT 2 CLASS 1, 2, AND 3 SUPPORTS SCHEDULE PLANNING DOCUMENT

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EXAM CAT.	ITEM NO.	DESCRIPTION	EXAM METHOD	NUMBER OF COMPONENTS IN ITEM NUMBER	TO BE EXAMINED DURING INTERVAL	NUMBER TO BE EXAMINED IN THE INTERVAL	FREQUENCY OF EXAMINATION	NUMBER TO BE EXAMINED IN THE FIRST PERIOD	NUMBER TO BE EXAMINED IN THE SECOND PERIOD	NUMBER TO BE EXAMINED IN THE THIRD PERIOD	ISI DRAWING NUMBER
	F1.40	Class 3 ERCW Screen Wash Pump Support	VT-3	Unit 1 only	One Pump	N/A	Each inspection interval	N/A	N/A	N/A	N/A
	F1.40	Class 3 ERCW Intake Pumping Station Strainer	VT-3	2 ERCW-STR / 1 support each	One strainer	One ERCW- STR/ 1 support	Each inspection interval	0	One ERCW- STR/ 1 support	0	ISI-0481-C

Attachment 6 - ASME Class 1 and 2 Valves (Unit 1 and Unit 2)

Mechanical/Nuclear Engineering

- A. **MAINTAIN** a listing of valves subject to examination.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.



10/13/95

Mechanical/Nuclear Engineering Manager/Designee Date

ATTACHMENT 6

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Attachment 6

ASME Class 1 and 2 Valves

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UNIT	SYS	CLASS	VALVE	ISI DRAWING UNIT 1	ISI DRAWING UNIT 2	SIZE	TYPE	GROUP	VALVE BOLTING < 2"	VALVE BOLTING > 2"	VALVE BODY WELDS	PISTONAL ATTACH	MANUFACTURE	VENDOR DRAWING
1 & 2	MS	2	1-512	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-513	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-514	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-515	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-516	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-517	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-518	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-519	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-520	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-521	CHM-2340-C SH2	ISI-0015-C SH2	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-522	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-523	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-524	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-525	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-526	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-527	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-528	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-529	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-530	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-531	CHM-2340-C SH1	ISI-0015-C SH1	6	SAF	N/A	YES	NONE	NONE	NONE	CROSBY	H-55095
1 & 2	MS	2	1-619	CHM-2340-C SH1	ISI-0015-C SH1	6	GATE	N/A	YES	NONE	NONE	NONE	WALWORTH	A-6609-M-128B
1 & 2	MS	2	1-620	CHM-2340-C SH2	ISI-0015-C SH2	6	GATE	N/A	YES	NONE	NONE	NONE	WALWORTH	A-6609-M-128B
1 & 2	MS	2	1-621	CHM-2340-C SH2	ISI-0015-C SH2	6	GATE	N/A	YES	NONE	NONE	NONE	WALWORTH	A-6609-M-128B
1 & 2	MS	2	1-622	CHM-2340-C SH1	ISI-0015-C SH1	6	GATE	N/A	YES	NONE	NONE	NONE	WALWORTH	A-6609-M-128B
1 & 2	MS	2	1-623	CHM-2340-C SH1	ISI-0015-C SH1	32	CKV	N/A	YES	NONE	NONE	NONE	ATWOOD & MORRILL	21339-H
1 & 2	MS	2	1-624	CHM-2340-C SH2	ISI-0015-C SH2	32	CKV	N/A	YES	NONE	NONE	NONE	ATWOOD & MORRILL	21339-H
1 & 2	MS	2	1-625	CHM-2340-C SH2	ISI-0015-C SH2	32	CKV	N/A	YES	NONE	NONE	NONE	ATWOOD & MORRILL	21339-H
1 & 2	MS	2	1-626	CHM-2340-C SH1	ISI-0015-C SH1	32	CKV	N/A	YES	NONE	NONE	NONE	ATWOOD & MORRILL	21339-H
1 & 2	FW	2	3-508	CHM-2339-C SH2	CHM-2403-C SH2	16	CKV	N/A	YES	NONE	NONE	NONE	WALWORTH	A-11332-M-32A
1 & 2	FW	2	3-509	CHM-2339-C SH2	CHM-2403-C SH2	16	CKV	N/A	YES	NONE	NONE	NONE	WALWORTH	A-11332-M-32A
1 & 2	FW	2	3-510	CHM-2339-C SH1	CHM-2403-C SH1	16	CKV	N/A	YES	NONE	NONE	NONE	WALWORTH	A-11332-M-32A
1 & 2	FW	2	3-511	CHM-2339-C SH1	CHM-2403-C SH1	16	CKV	N/A	YES	NONE	NONE	NONE	WALWORTH	A-11332-M-32A
1 & 2	HPSI	2	62-500	ISI-0430-C SH15	ISI-0431-C SH15	4	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	88503
1 & 2	HPSI	2	62-508	ISI-0430-C SH14	ISI-0431-C SH14	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	HPSI	2	62-519	ISI-0430-C SH32	ISI-0431-C SH32	3	CKV	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	78409
1 & 2	HPSI	2	62-520	ISI-0430-C SH32	ISI-0431-C SH32	3	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV. CORP	13920
1 & 2	HPSI	2	62-523	ISI-0430-C SH18	ISI-0431-C SH18	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	62-524	ISI-0430-C SH18	ISI-0431-C SH18	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529

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Attachment 6

ASME Class 1 and 2 Valves

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UNIT	SYS	CLASS	VALVE	ISI DRAWING UNIT 1	ISI DRAWING UNIT 2	SIZE	TYPE	GROUP	VALVE BOLTING < - 2"	VALVE BOLTING > 2"	VALVE BODY WELDS	INTEGRAL ATTACH	MANUFACTURE	VENDOR DRAWING
1 & 2	HPSI	2	62-525	ISI-0430-C SH17	ISI-0431-C SH17	4	CKV	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	78501
1 & 2	HPSI	2	62-526	ISI-0430-C SH17	ISI-0431-C SH17	3	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV. CORP	13920
1 & 2	HPSI	2	62-527	ISI-0430-C SH17	ISI-0431-C SH17	4	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	88503
1 & 2	HPSI	2	62-530	ISI-0430-C SH18	ISI-0431-C SH18	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	62-531	ISI-0430-C SH18	ISI-0431-C SH18	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	62-532	ISI-0430-C SH17	ISI-0431-C SH17	4	CKV	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	78501
1 & 2	HPSI	2	62-533	ISI-0430-C SH17	ISI-0431-C SH17	4	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	88503
1 & 2	HPSI	2	62-534	ISI-0430-C SH17	ISI-0431-C SH17	3	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV. CORP	13920
1 & 2	HPSI	2	62-535	ISI-0430-C SH17	ISI-0431-C SH17	3	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	8843-016
1 & 2	HPSI	2	62-536	ISI-0430-C SH32	ISI-0431-C SH32	3	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	8843-016
1 & 2	HPSI	2	62-537	ISI-0430-C SH33	ISI-0431-C SH33	3	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	8843-016
1 & 2	HPSI	2	62-538	ISI-0430-C SH33	ISI-0431-C SH33	3	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV. CORP	13920
1 & 2	HPSI	2	62-539	ISI-0430-C SH33	ISI-0431-C SH33	3	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV. CORP	8843-016
1 & 2	HPSI	2	62-546	ISI-0430-C SH29	ISI-0431-C SH29	3	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV. CORP	13920
1 & 2	HPSI	2	62-547	ISI-0430-C SH30	ISI-0431-C SH30	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	HPSI	2	62-548	ISI-0430-C SH30	ISI-0431-C SH30	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	HPSI	2	62-549	ISI-0430-C SH30	ISI-0431-C SH30	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	HPSI	2	62-550	ISI-0430-C SH30	ISI-0431-C SH30	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	CVC	1	62-560	CHM-2338-C SH1	MSG-0008-C SH1	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	CVC	1	62-561	CHM-2338-C SH2	MSG-0008-C SH2	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	CVC	1	62-562	CHM-2338-C SH4	MSG-0008-C SH5	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	CVC	1	62-563	CHM-2338-C SH3	MSG-0008-C SH3	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	CVC	1	62-564	CHM-2338-C SH1	MSG-0008-C SH1	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	CVC	1	62-565	CHM-2338-C SH2	MSG-0008-C SH2	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	CVC	1	62-566	CHM-2338-C SH4	MSG-0008-C SH5	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	CVC	1	62-567	CHM-2338-C SH3	MSG-0008-C SH3	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	CVC	1	62-576	CHM-2338-C SH1	MSG-0008-C SH1	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	CVC	1	62-577	CHM-2338-C SH2	MSG-0008-C SH2	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	CVC	1	62-578	CHM-2338-C SH3	MSG-0008-C SH4	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	CVC	1	62-579	CHM-2338-C SH4	MSG-0008-C SH5	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	62-642	ISI-0430-C SH24	ISI-0431-C SH24	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	HPSI	2	62-643	ISI-0430-C SH25	ISI-0431-C SH25	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	HPSI	2	62-644	ISI-0430-C SH25	ISI-0431-C SH25	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	HPSI	2	62-647	ISI-0430-C SH25	ISI-0431-C SH25	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	HPSI	2	62-648	ISI-0430-C SH25	ISI-0431-C SH25	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	HPSI	2	62-649	ISI-0430-C SH25	ISI-0431-C SH25	2	RELIEF	N/A	YES	NONE	NONE	NONE	CROSBY	H-51382-2
1 & 2	HPSI	2	62-650	ISI-0430-C SH25	ISI-0431-C SH25	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	HPSI	2	62-652	ISI-0430-C SH25	ISI-0431-C SH25	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS

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ASME Class 1 and 2 Valves

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UNIT	SYS	CLASS	VALVE	ISI DRAWING UNIT 1	ISI DRAWING UNIT 2	SIZE	TYPE	GROUP	VALVE BOLTING < 2"	VALVE BOLTING > 2"	VALVE BODY WELDS	INTEGRAL ATTACH	MANUFACTURE	VENDOR DRAWING
1 & 2	HPSI	2	62-653	ISI-0430-C SH26	ISI-0431-C SH26	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	CVC	1	62-659	CHM-2335-C SH1	ISI-0009-C SH2	3	CKV	N/A	YES	NONE	NONE	NONE	BORG-WARNER	80290
1 & 2	CVC	1	62-660	CHM-2335-C SH1	ISI-0009-C SH2	3	CKV	N/A	YES	NONE	NONE	NONE	BORG-WARNER	80290
1 & 2	CVC	1	62-661	CHM-2335-C SH1	ISI-0009-C SH2	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	62-697	ISI-0430-C SH26	ISI-0431-C SH26	4	CKV	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	1026-3
1 & 2	CVC	1	62-716	CHM-2335-C SH1	ISI-0009-C SH2	3	CKV	N/A	YES	NONE	NONE	NONE	BORG-WARNER	80290
1 & 2	CVC	1	62-717	CHM-2335-C SH1	ISI-0009-C SH2	3	CKV	N/A	YES	NONE	NONE	NONE	BORG-WARNER	80290
1 & 2	HPSI	2	62-752	ISI-0430-C SH14	ISI-0431-C SH14	2	CKV	N/A	NONE	NONE	NONE	NONE	KEROTEST CORP	W-D-9911A-(2)
1 & 2	HPSI	2	62-753	ISI-0430-C SH14	ISI-0431-C SH14	4	DIAPHRAM	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	SD-C-IC0414
1 & 2	HPSI	2	62-755	ISI-0430-C SH15	ISI-0431-C SH15	4	DIAPHRAM	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	SD-C-IC0414
1 & 2	HPSI	2	62-930	ISI-0430-C SH15	ISI-0431-C SH15	3	CKV	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	78409
1 & 2	HPSI	2	62-931	ISI-0430-C SH15	ISI-0431-C SH15	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	62-938	ISI-0430-C SH36	ISI-0431-C SH36	2	DIAPHRAM	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-4-SS
1 & 2	SIS	2	63-502	CHM-2333-C SH6	ISI-0002-C SH1	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO/ WALWORTH	D-48276
1 & 2	HPSI	2	63-524	ISI-0430-C SH2	ISI-0431-C SH2	4	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	78501
1 & 2	HPSI	2	63-525	ISI-0430-C SH2	ISI-0431-C SH2	4	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88503
1 & 2	HPSI	2	63-526	ISI-0430-C SH3	ISI-0431-C SH3	4	CKV	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	78501
1 & 2	HPSI	2	63-527	ISI-0430-C SH3	ISI-0431-C SH3	4	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88503
1 & 2	HPSI	2	63-531	ISI-0430-C SH23	ISI-0431-C SH22	4	BONNET	N/A	YES	NONE	NONE	NONE	ITT GRINNELL	WREF-6-SS
1 & 2	HPSI	2	63-542	ISI-0430-C SH19	ISI-0431-C SH19	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-473229
1 & 2	RHR	1	63-543	CHM-2336-C SH6	ISI-0003-C SH8	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	63-544	ISI-0430-C SH7	ISI-0431-C SH7	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-473229
1 & 2	RHR	1	63-545	CHM-2336-C SH6	ISI-0003-C SH8	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	63-546	ISI-0430-C SH22	ISI-0431-C SH22	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-473229
1 & 2	SIS	1	63-547	CHM-2333-C SH7	ISI-0002-C SH12	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	63-548	ISI-0430-C SH5	ISI-0431-C SH5	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-473229
1 & 2	SIS	1	63-549	CHM-2333-C SH7	ISI-0002-C SH12	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	63-550	ISI-0430-C SH11	ISI-0431-C SH11	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-473229
1 & 2	SIS	1	63-551	CHM-2333-C SH9	ISI-0002-C SH5	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	63-552	ISI-0430-C SH9	ISI-0431-C SH9	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-473229
1 & 2	SIS	1	63-553	CHM-2333-C SH10	ISI-0002-C SH6	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	63-554	ISI-0430-C SH8	ISI-0431-C SH8	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-473229
1 & 2	SIS	1	63-555	CHM-2333-C SH10	ISI-0002-C SH6	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	HPSI	2	63-556	ISI-0430-C SH1	ISI-0431-C SH1	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-473229
1 & 2	SIS	1	63-557	CHM-2333-C SH9	ISI-0002-C SH4	2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-464529
1 & 2	SIS	1	63-558	CHM-2333-C SH7	ISI-0002-C SH7	6	CKV	3	YES	NONE	NONE	NONE	VELAN VLV CORP	78704
1 & 2	SIS	1	63-559	CHM-2333-C SH7	ISI-0002-C SH7	6	CKV	3	YES	NONE	NONE	NONE	VELAN VLV CORP	78704
1 & 2	SIS	1	63-560	CHM-2333-C SH9	ISI-0002-C SH5	10	CKV	2	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-12892

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ASME Class 1 and 2 Valves

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UNIT	SYS	CLASS	VALVE	ISI DRAWING UNIT 1	ISI DRAWING UNIT 2	SIZE	TYPE	GROUP	VALVE BOLTING < 2"	VALVE BOLTING > 2"	VALVE BODY WELDS	INTEGRAL ATTACH	MANUFACTURE	VENDOR DRAWING
1 & 2	SIS	1	63-584	CHM-2333-C SH2	ISI-0002-C SH10	1 1/2	GATE	N/A	NONE	NONE	NONE	NONE	EDWARDS CO.	D-478072
1 & 2	SIS	1	63-585	CHM-2333-C SH1	ISI-0002-C SH11	1 1/2	GATE	N/A	NONE	NONE	NONE	NONE	EDWARDS CO.	D-478072
1 & 2	SIS	1	63-586	CHM-2333-C SH1	ISI-0002-C SH8	1 1/2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-465347
1 & 2	SIS	1	63-587	CHM-2333-C SH2	ISI-0002-C SH9	1 1/2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-465347
1 & 2	SIS	1	63-588	CHM-2333-C SH1	ISI-0002-C SH10	1 1/2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-465347
1 & 2	SIS	1	63-589	CHM-2333-C SH2	ISI-0002-C SH11	1 1/2	CKV	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	C-465347
1 & 2	SIS	1	63-622	CHM-2333-C SH9	ISI-0002-C SH5	10	CKV	2	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-12892
1 & 2	SIS	1	63-623	CHM-2333-C SH10	ISI-0002-C SH6	10	CKV	2	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-12892
1 & 2	SIS	1	63-624	CHM-2333-C SH10	ISI-0002-C SH6	10	CKV	2	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-12892
1 & 2	SIS	1	63-625	CHM-2333-C SH9	ISI-0002-C SH4	10	CKV	2	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-12892
1 & 2	SIS	1	63-632	CHM-2333-C SH10	ISI-0002-C SH6	6	CKV	3	YES	NONE	NONE	NONE	VELAN VLV CORP	78704
1 & 2	SIS	1	63-633	CHM-2333-C SH9	ISI-0002-C SH5	6	CKV	3	YES	NONE	NONE	NONE	VELAN VLV CORP	78704
1 & 2	SIS	1	63-634	CHM-2333-C SH10	ISI-0002-C SH6	6	CKV	3	YES	NONE	NONE	NONE	VELAN VLV CORP	78704
1 & 2	SIS	1	63-635	CHM-2333-C SH9	ISI-0002-C SH4	6	CKV	3	YES	NONE	NONE	NONE	VELAN VLV CORP	78704
1 & 2	RHR	1	63-640	CHM-2336-C SH6	ISI-0003-C SH5	8	CKV	5	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-12892
1 & 2	RHR	1	63-641	CHM-2336-C SH6	ISI-0003-C SH5	8	CKV	6	YES	NONE	NONE	NONE	VELAN VLV CORP	78704
1 & 2	RHR	1	63-643	CHM-2336-C SH6	ISI-0003-C SH6	8	CKV	5	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-12892
1 & 2	RHR	1	63-644	CHM-2336-C SH6	ISI-0003-C SH6	6	CKV	6	YES	NONE	NONE	NONE	VELAN VLV CORP	78704
1 & 2	RCS	1	68-549	ISI-0369-C SH1	ISI-0013-C SH10	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	RCS	1	68-550	ISI-0369-C SH1	ISI-0013-C SH10	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	RCS	1	68-553	ISI-0369-C SH1	ISI-0013-C SH10	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	RCS	1	68-554	ISI-0369-C SH1	ISI-0013-C SH10	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	RCS	1	68-557	ISI-0369-C SH1	ISI-0013-C SH11	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	RCS	1	68-558	ISI-0369-C SH1	ISI-0013-C SH11	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	RCS	1	68-563	ISI-0369-C SH3	ISI-0013-C SH3	6	RELIEF	4	YES	NONE	NONE	NONE	CROSBY	H-51688
1 & 2	RCS	1	68-564	ISI-0369-C SH3	ISI-0013-C SH3	6	RELIEF	4	YES	NONE	NONE	NONE	CROSBY	H-51688
1 & 2	RCS	1	68-565	ISI-0369-C SH3	ISI-0013-C SH3	6	RELIEF	4	YES	NONE	NONE	NONE	CROSBY	H-51688
1 & 2	CVC	1	68-580	CHM-2333-C SH2	ISI-0009-C SH1	3	GATE	N/A	NONE	NONE	NONE	NONE	VELAN VLV CORP	13920
1 & 2	RCS	1	68-581	ISI-0369-C SH1	ISI-0013-C SH11	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	RCS	1	68-582	ISI-0369-C SH1	ISI-0013-C SH11	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	HPSI/CS	2	72-500	ISI-0430-C SH12	ISI-0431-C SH12	3	GATE	N/A	YES	NONE	NONE	NONE	LIMITORQUE	D-48865
1 & 2	HPSI/CS	2	72-501	ISI-0430-C SH36	ISI-0431-C SH36	2	GLOBE	N/A	NONE	NONE	NONE	NONE	KEROTEST CORP	TVN-D-9909-(2)
1 & 2	CS	2	72-503	CHM-2422-C SH3	ISI-0007-C SH4	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48833
1 & 2	CS	2	72-504	CHM-2422-C SH4	ISI-0007-C SH4	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48833
1 & 2	CS	2	72-506	CHM-2422-C SH1	ISI-0007-C SH1	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	D-49267
1 & 2	CS	2	72-507	CHM-2422-C SH2	ISI-0007-C SH2	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	D-49267
1 & 2	CS	2	72-528	CHM-2422-C SH3	ISI-0007-C SH3	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	D-49267
1 & 2	CS	2	72-529	CHM-2422-C SH5	ISI-0007-C SH5	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	D-49267
1 & 2	CS	2	72-533	CHM-2422-C SH3	ISI-0007-C SH3	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48841

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ASME Class 1 and 2 Valves

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UNIT	SYS	CLASS	VALVE	ISI DRAWING UNIT 1	ISI DRAWING UNIT 2	SIZE	TYPE	GROUP	VALVE BOLTING < Z"	VALVE BOLTING > Z"	VALVE BODY WELDS	INTEGRAL ATTACH	MANUFACTURE	VENDOR DRAWING
1 & 2	CS	2	72-503	CHM-2422-C SH3	ISI-0007-C SH4	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48833
1 & 2	CS	2	72-504	CHM-2422-C SH4	ISI-0007-C SH4	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48833
1 & 2	CS	2	72-506	CHM-2422-C SH1	ISI-0007-C SH1	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	D-49267
1 & 2	CS	2	72-507	CHM-2422-C SH2	ISI-0007-C SH2	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	D-49267
1 & 2	CS	2	72-528	CHM-2422-C SH3	ISI-0007-C SH3	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	D-49267
1 & 2	CS	2	72-529	CHM-2422-C SH5	ISI-0007-C SH5	12	CKV	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	D-49267
1 & 2	CS	2	72-533	CHM-2422-C SH3	ISI-0007-C SH3	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48841
1 & 2	CS	2	72-534	CHM-2422-C SH5	ISI-0007-C SH5	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48841
1 & 2	RHR	2	74-514	CHM-2336-C SH3	ISI-0003-C SH2	8	CKV	N/A	YES	NONE	NONE	NONE	CRANE	K-7422
1 & 2	RHR	2	74-515	CHM-2336-C SH3	ISI-0003-C SH3	8	CKV	N/A	YES	NONE	NONE	NONE	CRANE	K-7422
1 & 2	RHR	2	74-520	CHM-2336-C SH3	ISI-0003-C SH2	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-47381
1 & 2	RHR	2	74-521	CHM-2336-C SH3	ISI-0003-C SH3	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-47381
1 & 2	RHR	2	74-524	CHM-2336-C SH3	ISI-0003-C SH2	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-47381
1 & 2	RHR	2	74-525	CHM-2336-C SH3	ISI-0003-C SH3	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-47381
1 & 2	HPSI	2	74-530	ISI-0430-C SH35	ISI-0431-C SH35	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	HPSI	2	74-531	ISI-0430-C SH35	ISI-0431-C SH35	2	GATE	N/A	NONE	NONE	NONE	NONE	ROCKWELL INT	D-464532
1 & 2	MS	2	FCV-1-11	CHM-2340-C SH2	ISI-0015-C SH2	32	GATE	N/A	YES	NONE	NONE	NONE	ATWOOD & MORRILL	21245-H
1 & 2	MS	2	FCV-1-22	CHM-2340-C SH2	ISI-0015-C SH2	32	GATE	N/A	YES	NONE	NONE	NONE	ATWOOD & MORRILL	21245-H
1 & 2	MS	2	FCV-1-29	CHM-2340-C SH1	ISI-0015-C SH1	32	GATE	N/A	YES	NONE	NONE	NONE	ATWOOD & MORRILL	21245-H
1 & 2	MS	2	FCV-1-4	CHM-2340-C SH1	ISI-0015-C SH1	32	GATE	N/A	YES	NONE	NONE	NONE	ATWOOD & MORRILL	21245-H
1 & 2	FW	2	FCV-3-100	CHM-2339-C SH1	CHM-2403-C SH1	18	GATE	N/A	YES	NONE	NONE	NONE	WALWORTH	A-6614-M-15D
1 & 2	FW	2	FCV-3-33	CHM-2339-C SH1	CHM-2403-C SH1	18	GATE	N/A	YES	NONE	NONE	NONE	WALWORTH	A-6614-M-15D
1 & 2	FW	2	FCV-3-47	CHM-2339-C SH2	CHM-2403-C SH2	18	GATE	N/A	YES	NONE	NONE	NONE	WALWORTH	A-6614-M-15D
1 & 2	FW	2	FCV-3-87	CHM-2339-C SH2	CHM-2403-C SH2	18	GATE	N/A	YES	NONE	NONE	NONE	WALWORTH	A-6614-M-15D
1 & 2	HPSI	2	FCV-62-61	ISI-0430-C SH24	ISI-0431-C SH24	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	3S-1029-3
1 & 2	HPSI	2	FCV-62-63	ISI-0430-C SH24	ISI-0431-C SH24	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	3S-1029-3
1 & 2	CVC	1	FCV-62-69	CHM-2335-C SH2	ISI-0009-C SH1	3	GATE	N/A	YES	N/A	NONE	N/A	MASONEILAN/WORTH	CPI-1855,A8425
1 & 2	CVC	1	FCV-62-70	CHM-2335-C SH2	ISI-0009-C SH1	3	GATE	N/A	YES	N/A	NONE	N/A	MASONEILAN/WORTH	CPI-1855,A8475
1 & 2	CVC	1	FCV-62-84	CHM-2335-C SH2	ISI-0009-C SH2	2	GATE	N/A	YES	N/A	NONE	N/A	MASONEILAN	A-8474,A-8475
1 & 2	HPSI	2	FCV-62-89	ISI-0430-C SH33	ISI-0431-C SH33	3	GLOBE	N/A	YES	NONE	NONE	NONE	MASONEILAN	A8515, A8510
1 & 2	HPSI	2	FCV-62-90	ISI-0430-C SH34	ISI-0431-C SH34	3	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88405-2
1 & 2	HPSI	2	FCV-62-91	ISI-0430-C SH34	ISI-0431-C SH34	3	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88405-2
1 & 2	HPSI	2	FCV-62-93	ISI-0430-C SH17	ISI-0431-C SH17	3	GLOBE	N/A	YES	NONE	NONE	NONE	MASONEILAN	B-167371
1 & 2	HPSI	2	FCV-62-98	ISI-0430-C SH18	ISI-0431-C SH18	2	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV CORP	137.116/1
1 & 2	HPSI	2	FCV-62-99	ISI-0430-C SH18	ISI-0431-C SH18	2	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV CORP	137.116/1
1 & 2	SIS	2	FCV-63-1	CHM-2333-C SH6	ISI-0002-C SH1	12	GATE	N/A	YES	NONE	NONE	NONE	CRANE	K-7634
1 & 2	SIS	2	FCV-63-11	CHM-2333-C SH6	ISI-0002-C SH3	8	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-13295
1 & 2	SIS	2	FCV-63-118	CHM-2333-C SH4	ISI-0002-C SH5	10	GATE	N/A	YES	N/A	NONE	N/A	VELAN VLV CORP	8892S R.D1

ATTACHMENT 6

0-SI-DXI-000-114.2

ASME Class 1 and 2 Valves

Attachment 6

Revision 0

Page 7 of 8

UNIT	SYS	CLASS	VALVE	ISI DRAWING UNIT 1	ISI DRAWING UNIT 2	SIZE	TYPE	GROUP	VALVE BOLTING < - 2"	VALVE BOLTING > 2"	VALVE BODY WELDS	INTEGRAL ATTACH	MANUFACTURE	VENDOR DRAWING
1 & 2	HPSI	2	FCV-63-152	ISI-0430-C SH2	ISI-0431-C SH2	4	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88521-3
1 & 2	HPSI	2	FCV-63-153	ISI-0430-C SH2	ISI-0431-C SH2	4	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88521-3
1 & 2	HPSI	2	FCV-63-156	ISI-0430-C SH2	ISI-0431-C SH2	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	93-12859
1 & 2	HPSI	2	FCV-63-157	ISI-0430-C SH3	ISI-0431-C SH3	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	93-12859
1 & 2	RHR	2	FCV-63-172	CHM-2336-C SH4	ISI-0003-C SH5	12	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88907-2
1 & 2	HPSI	2	FCV-63-175	ISI-0430-C SH27	ISI-0431-C SH27	2	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV CORP	137.116/1
1 & 2	HPSI	2	FCV-63-22	ISI-0430-C SH2	ISI-0431-C SH2	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	93-12859
1 & 2	HPSI	2	FCV-63-25	ISI-0430-C SH16	ISI-0431-C SH16	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	93-12859
1 & 2	HPSI	2	FCV-63-26	ISI-0430-C SH16	ISI-0431-C SH16	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	93-12859
1 & 2	HPSI	2	FCV-63-3	ISI-0430-C SH27	ISI-0431-C SH27	2	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV CORP	137.116/1
1 & 2	HPSI	2	FCV-63-39	ISI-0430-C SH16	ISI-0431-C SH16	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	93-12859
1 & 2	HPSI	2	FCV-63-4	ISI-0430-C SH27	ISI-0431-C SH27	2	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV CORP	137.116/1
1 & 2	HPSI	2	FCV-63-40	ISI-0430-C SH16	ISI-0431-C SH16	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	93-12859
1 & 2	HPSI	2	FCV-63-6	ISI-0430-C SH23	ISI-0431-C SH23	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	1S-1029-3
1 & 2	SIS	2	FCV-63-67	CHM-2333-C SH4	ISI-0002-C SH4	10	GATE	N/A	YES	N/A	NONE	N/A	VELAN VLV CORP	88926 R.D1
1 & 2	HPSI	2	FCV-63-7	ISI-0430-C SH23	ISI-0431-C SH22	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	1S-1029-3
1 & 2	RHR	2	FCV-63-72	CHM-2336-C SH2	ISI-0003-C SH1	18	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-13300
1 & 2	RHR	2	FCV-63-73	CHM-2336-C SH2	ISI-0003-C SH1	18	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-13300
1 & 2	SIS	2	FCV-63-8	CHM-2333-C SH6	ISI-0002-C SH3	8	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	94-13295
1 & 2	SIS	2	FCV-63-80	CHM-2333-C SH5	ISI-0002-C SH6	10	GATE	N/A	YES	N/A	NONE	N/A	VELAN VLV CORP	88926 R.D1
1 & 2	SIS	2	FCV-63-93	CHM-2333-C SH3	ISI-0002-C SH1	8	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88806-1
1 & 2	SIS	2	FCV-63-94	CHM-2333-C SH3	ISI-0002-C SH2	8	GATE	N/A	YES	NONE	NONE	NONE	VELAN VLV CORP	88806-1
1 & 2	SIS	2	FCV-63-98	CHM-2333-C SH5	ISI-0002-C SH6	10	GATE	N/A	YES	N/A	NONE	N/A	VELAN VLV CORP	88936 R.D1
1 & 2	RCS	1	FCV-68-332	ISI-0369-C SH3	ISI-0013-C SH3	3	GATE	N/A	YES	N/A	NONE	N/A	VELAN VLV CORP	02-405-0494-2
1 & 2	RCS	1	FCV-68-333	ISI-0369-C SH3	ISI-0013-C SH3	3	GATE	N/A	YES	N/A	NONE	N/A	VELAN VLV CORP	02-405-0494-2
1 & 2	CS	2	FCV-72-2	CHM-2422-CSH4	ISI-0007-C SH4	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48848
1 & 2	CS	2	FCV-72-20	CHM-2422-C SH1	ISI-0007-C SH2	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-48840
1 & 2	CS	2	FCV-72-21	CHM-2422-C SH2	ISI-0007-C SH2	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-48848
1 & 2	CS	2	FCV-72-22	CHM-2422-C SH1	ISI-0007-C SH1	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-48848
1 & 2	CS	2	FCV-72-23	CHM-2422-C SH1	ISI-0007-C SH1	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-48840
1 & 2	CS	2	FCV-72-39	CHM-2422-CSH4	ISI-0007-C SH4	12	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO / WALWORTH	E-48848
1 & 2	SIS	2	FCV-72-40	CHM-2333-C SH6	ISI-0002-C SH3	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-48836
1 & 2	SIS	2	FCV-72-41	CHM-2333-C SH6	ISI-0002-C SH3	8	GATE	N/A	YES	NONE	NONE	NONE	ALOYCO	E-48836
1 & 2	RHR	1	FCV-74-1	CHM-2336-C SH1	ISI-0003-C SH7	14	GATE	1	YES	NONE	NONE	NONE	COPEP-VULCAN	E-1-144831
1 & 2	HPSI	2	FCV-74-12	ISI-0430-C SH35	ISI-0431-C SH35	2	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV CORP	137.116/1
1 & 2	RHR	2	FCV-74-16	CHM-2336-C SH3	ISI-0003-C SH2	8	BUTF	N/A	YES	NONE	NONE	NONE	FISHER CONTINENTAL	F-41304
1 & 2	RHR	1	FCV-74-2	CHM-2336-C SH1	ISI-0003-C SH7	14	GATE	1	YES	NONE	NONE	NONE	COPEP-VULCAN	E-1-144831
1 & 2	RHR	2	FCV-74-21	CHM-2336-C SH5	ISI-0003-C SH4	14	GATE	N/A	YES	N/A	NONE	N/A	ANCHOR/DARLING	94-13298

ATTACHMENT 6

0-SI-DXI-000-114.2

Attachment 6

ASME Class 1 and 2 Valves

Revision 0

Page 8 of 8

UNIT	SYS	CLASS	VALVE	ISI DRAWING UNIT 1	ISI DRAWING UNIT 2	SIZE	TYPE	GROUP	VALVE BOLTING < > 2"	VALVE BOLTING > < 2"	VALVE BODY WELDS	INTEGRAL ATTACH	MANUFACTURE	VENDOR DRAWING
1 & 2	HPSI	2	FCV-74-24	ISI-0430-C SH35	ISI-0431-C SH35	2	GLOBE	N/A	NONE	NONE	NONE	NONE	VELAN VLV CORP	137.116/1
1 & 2	RHR	2	FCV-74-28	CHM-2336-C SH3	ISI-0003-C SH3	8	BUTF	N/A	YES	NONE	NONE	NONE	FISHER CONTINENTAL	F-41304
1 & 2	RHR	2	FCV-74-3	CHM-2336-C SH5	ISI-0003-C SH4	14	GATE	N/A	YES	N/A	NONE	N/A	ANCHOR/DARLING	94-13298
1 & 2	RHR	2	FCV-74-32	CHM-2336-C SH3	ISI-0003-C SH2	8	BUTF	N/A	YES	NONE	NONE	NONE	FISHER CONTINENTAL	F-41304
1 & 2	RHR	2	FCV-74-33	CHM-2336-C SH3	ISI-0003-C SH2	8	GATE	N/A	YES	N/A	NONE	N/A	ANCHOR/DARLING	93-13435
1 & 2	RHR	2	FCV-74-35	CHM-2336-C SH3	ISI-0003-C SH3	8	GATE	N/A	YES	N/A	NONE	N/A	ANCHOR/DARLING	93-13435
1 & 2	RHR	2	HCV-74-34	CHM-2336-C SH3	ISI-0003-C SH ²	8	GATE	N/A	YES	N/A	NONE	N/A	ANCHOR/DARLING	93-13435
1 & 2	RHR	2	HCV-74-36	CHM-2336-C SH3	ISI-0003-C SH2	8	GATE	N/A	YES	N/A	NONE	N/A	ANCHOR/DARLING	93-14074
1 & 2	RHR	2	HCV-74-37	CHM-2336-C SH3	ISI-0003-C SH3	8	GATE	N/A	YES	N/A	NONE	N/A	ANCHOR/DARLING	93-13435
1 & 2	HPSI	2	LCV-62-132	ISI-0430-C SH26	ISI-0431-C SH26	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	1S-1029-3
1 & 2	HPSI	2	LCV-62-133	ISI-0430-C SH26	ISI-0431-C SH26	4	GATE	N/A	YES	NONE	NONE	NONE	ANCHOR/DARLING	1S-1029-3
1 & 2	MS	2	PCV-1-12	CHM-2340-C SH2	ISI-0015-C SH2	6	GATE	N/A	YES	NONE	NONE	NONE	COPEES-VULCAN	B-149093
1 & 2	MS	2	PCV-1-23	CHM-2340-C SH2	ISI-0015-C SH2	6	GATE	N/A	YES	NONE	NONE	NONE	COPEES-VULCAN	B-149093
1 & 2	MS	2	PCV-1-30	CHM-2340-C SH1	ISI-0015-C SH1	6	GATE	N/A	YES	NONE	NONE	NONE	COPEES-VULCAN	B-149093
1 & 2	MS	2	PCV-1-5	CHM-2340-C SH1	ISI-0015-C SH1	6	GATE	N/A	YES	NONE	NONE	NONE	COPEES-VULCAN	B-149093
1 & 2	RCS	1	PCV-68-334	ISI-0369-C SH3	ISI-0013-C SH3	3	GLB	N/A	N/A	N/A	NONE	N/A	TARGET ROCK	052020-3
1 & 2	RCS	1	PCV-68-340A	ISI-0369-C SH3	ISI-0013-C SH3	3	GLB	N/A	N/A	N/A	NONE	N/A	TARGET ROCK	1052020-3
1 & 2	RCS	1	PCV-68-340B	ISI-0369-C SH2	ISI-0013-C SH1	4	BALL	N/A	YES	N/A	NONE	N/A	FISHER	50A2159
1 & 2	RCS	1	PCV-68-340D	ISI-0369-C SH2	ISI-0013-C SH1	4	BALL	N/A	YES	N/A	NONE	N/A	FISHER	50A2159

Attachment 7 - Listing of Drawings (Unit 1 and Unit 2)

Mechanical/Nuclear Engineering

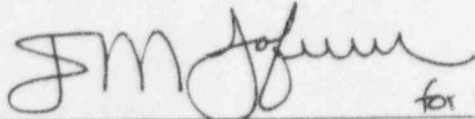
- A. **MAINTAIN** a listing of ISI drawings.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.

 for M. Lorek / 10/13/95

Mechanical/Nuclear Engineering Manager/Designee Date

LIST OF DRAWINGS - UNIT 1 and 2

The drawings listed below are for the performance of ISI examinations. These drawings are issued through Document Control and Records Management (DCRM). These drawings shall receive controlled distribution. Individual copies may be obtained from DCRM.

Drawing Number Unit 1	Drawing Number Unit 2,	Reactor Vessel
CHM-2341-C	ISI-0304-C	Reactor Vessel Stud Locations and Details
CHM-2343-C	ISI-0298-C	Reactor Vessel General Arrangement, Seam Welds, and Support
CHM-2358-C	ISI-0301-C	Reactor Vessel Closure Head
CHM-2359-A	ISI-0300-C	Control Rod Drive Housing
CHM-2360-C	ISI-0392-C	Reactor Vessel Inlet Nozzles
CHM-2361-C	ISI-0297-C	Reactor Vessel Outlet Nozzles
CHM-2651-C	ISI-0097-C	Closure Head Penetrations
ISI-0014-C	ISI-0318-C	Auxiliary Head Adapter/UHI Cap Welds
MSG-0004-C	ISI-0319-C	Reactor Vessel Bottom Head Penetrations

Drawing Number Unit 1	Drawing Number Unit 2.	Pressurizer
ISI-0394-C	ISI-0396-C	Pressurizer
MSG-0002-B	ISI-0299-B	Pressurizer and Steam Generator Manway Bolting
MSG-0006-A	ISI-0309-A	Pressurizer Heater Penetrations

Drawing Number Unit 1	Drawing Number Unit 2.	Steam Generators
ISI-0397-C	ISI-0398-C	Steam Generators Tube Sheet Arrangement
ISI-0399-C	ISI-0401-C	Steam Generator
MSG-0002-B	ISI-0299-B	Pressurizer and Steam Generators Manway Bolting
MSG-0005-A	ISI-0350-C	Steam Generator/Feed water Transition Spool Piece
ISI-0357-A	ISI-0358-A	Steam Generator Feedwater Ring Header

Drawing Number Unit 1	Drawing Number Unit 2.	Heat Exchangers
CHM-2404-A	ISI-0289-A	Residual Heat Removal Heat Exchanger
ISI-0215-A	ISI-0259-A	Containment Spray Heat Exchanger Support
ISI-0226-C	ISI-0226-C	Gas Stripper and Boric Acid Evaporator Package Support
ISI-0216-A	ISI-0257-A	Non-Regenerative Letdown Heat Exchanger Support
ISI-0284-B	ISI-0261-B	Component Cooling Heat Exchanger
ISI-0285-A	ISI-0268-A	Essential Raw Cooling Water Strainer Support
ISI-0290-B	ISI-0291-B	RHR Heat Exchanger Secondary Side Support
ISI-0287-B	UNIT 1 ONLY	Spent Fuel Pit Heat Exchanger
ISI-0462-C	ISI-0463-C	Containment Spray Heat Exchanger
ISI-0458-C	ISI-0459-C	Seal Water Filter
ISI-0456-C	ISI-0457-C	Seal Water Injection Filter
ISI-0460-C	ISI-0461-C	Seal Water Heat Exchanger

Drawing Number Unit 1	Drawing Number Unit 2.	Piping and Valve Weld Isometrics
ISI-0482-C	ISI-0008-C	Reactor Coolant Piping (Main Loops)
CHM-2333-C	ISI-0002-C	Safety Injection System
ISI-0369-C	ISI-0013-C	Reactor Coolant System
CHM-2335-C	ISI-0009-C	Chemical and Volume Control System
CHM-2336-C	ISI-0003-C	Residual Heat Removal System
CHM-2338-C	MSG-0008-C	Seal Water Injection (Chemical and Volume Control System)
CHM-2339-C	CHM-2403-C	Feedwater System
CHM-2340-C	ISI-0015-C	Main Steam System
CHM-2422-C	ISI-0007-C	Containment Spray System
ISI-0430-C	ISI-0431-C	High Pressure Safety Injection System (CS, CVC, RHR, and SI)
ISI-0434-C	ISI-0435-C	High Pressure Safety Injection System (CS, CVC, RHR, and SI)(Excluded Piping)

Drawing Number Unit 1	Drawing Number Unit 2	Class 1 and 2 Piping and Valve Support Drawings
ISI-0370-C	MSG-0013-C	Reactor Coolant System
CHM-2433-C	MSG-0012-C	Chemical and Volume Control System
CHM-2434-C	MSG-0015-C	Seal Water Injection (Chemical and Volume Control)
CHM-2435-C	MSG-0010-C	Residual Heat Removal System
CHM-2436-C	MSG-0009-C	Safety Injection System
CHM-2438-C	MSG-0017-C	Main Steam System
CHM-2439-C	MSG-0016-C	Feedwater System
CHM-2440-C	MSG-0011-C	Containment Spray System
ISI-0303-C	ISI-0302-C ISI-0321-C	Reactor Coolant System (Main Loop)
ISI-0448-C	ISI-0449-C	High Pressure Safety Injection System (CS, CVC, RHR, and SI)

Drawing Number Unit 1	Drawing Number Unit 2.	Class 3 Piping and Valve Support Drawings
ISI-0113-C	ISI-0146-C	Auxiliary Feedwater System
ISI-0123-C	ISI-0158-C	Essential Raw Cooling Water System
ISI-0126-C	ISI-0154-C	Component Cooling Water System
ISI-0127-C	UNIT 1 ONLY	Fuel pool Cooling System
ISI-0450-C	ISI-0451-C	Air Conditioning Chilled Water System

Drawing Number Unit 1	Drawing Number Unit 2.	Pumps
CHM-2675-C	ISI-0307-C	Reactor Coolant Pump Main Flange and Number 1 Seal House Bolt Pattern
ISI-0325-B	ISI-0326-B	Reactor Coolant Pump Support
ISI-0305-B	ISI-0306-B	Reactor Coolant Pump Motor Flywheel Examination
ISI-0353-B	ISI-0352-B	RHR Pump Support Locations
ISI-0474-C	ISI-0475-C	Turbine Driven Auxiliary Feedwater Pump Support
ISI-0476-C	ISI-0477-C	Motor Driven Auxiliary Feedwater Pump Support
ISI-0281-A	ISI-0260-A	Component Cooling Water Pumps Support
ISI-0288-B	UNIT 1 ONLY	Spent Fuel Pump Support
ISI-0296-B	UNIT 1 ONLY	ERCW Screen Wash Pump Support
MSG-0003-C	UNIT 1 ONLY	Reactor Coolant Pump Casing Weld
ISI-0470-C	ISI-0471-C	Safety Injection Pumps
ISI-0466-C	ISI-0467-C	Centrifugal Charging Pumps
ISI-0464-C	ISI-0465-C	Containment Spray Pumps
ISI-0472-C	ISI-0473-C	Chill Water Circulation Pump

Drawing Number Unit 1	Drawing Number Unit 2.	Tanks
ISI-0069-C	ISI-0074-A	Centrifugal Charging Pump Tank (Formerly BIT Tank)
ISI-0227-B	ISI-0227-B	Component Cooling Surge Tank

Drawing Number Unit 1	Drawing Number Unit 2.	Miscellaneous
ISI-0403-A	ISI-0403-A	Reactor Coolant Pump Flywheel Examinations
ISI-0405-A	ISI-0405-A	Support Acceptance Ranges
ISI-0402-A	ISI-0452-A	Valve Interior Examinations
ISI-0436-C	ISI-0436-A	Unit 1 and Unit 2 Piping Support Examination Boundaries
ISI-0480-C	ISI-0481-C	Old ERCW Pumping Station Strainer
ISI-0454-C	ISI-0455-C	Shutdown Board Room Water Chiller
ISI-0478-C	ISI-0479-C	Chilled Water System Air Separator

ASME Section XI Boundary Classification Drawings List

Drawing No. _____ **ASME Section XI Boundary Classification Drawings**

NOTE: Refer to TVA Calculation SQN-SQTP-001, "ASME Section XI Inservice Code Class Boundaries For The Second 10 Year Interval", for drawing boundary classifications.

Attachment 8 - Successive Examinations (Unit 1)

Mechanical/Nuclear Engineering

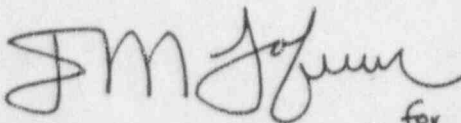
- A. **MAINTAIN** a listing of successive examinations.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.



for M.J. Lorek

10/13/95

Mechanical/Nuclear Engineering Manager/Designee Date

SUCCESSIVE EXAMINATIONS
 UNIT 1

COMPONENT	PROGRAM REFERENCE SECTION	EXAM METHOD	EXAM CATEGORY	FLAW INITIALLY DETECTED UNIT /CYCLE	FIRST SUCCESSIVE PERIOD UNIT/CYCLE	SECOND SUCCESSIVE PERIOD UNIT/CYCLE	THIRD SUCCESSIVE PERIOD UNIT/CYCLE	REFERENCE DWG.
RCW-28-SE	Att. 1, Section 2.6	PT	B-F	U1C5	U1C8 or C9	U1C10 or C11	U1C12 or C13	ISI-0394-C
1-RCH-80	Att. 1, Section 8.4	PT NOTE 1	F-A	U1C4	U1C5	U1C8 or /C9	U1C10 or C11	ISI-0370-C
1-SIH-75-IA	Att. 2, Section 11.8	PT	C-C	U1C5	U1C8 or C9			CHM-2436-C

NOTES: 1. PT Examination performed in lieu of VT examination.

Attachment 9 - Successive Examinations (Unit 2)

Mechanical/Nuclear Engineering

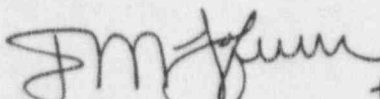
- A. **MAINTAIN** a listing of successive examinations.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.

 for MJ Lorek / 10/13/95

Mechanical/Nuclear Engineering Manager/Designee Date

SUCCESSIVE EXAMINATIONS
 UNIT 2

COMPONENT	PROGRAM REFERENCE SECTION	EXAM METHOD	EXAM CATEGORY	FLAW INITIALLY DETECTED UNIT /CYCLE	FIRST SUCCESSIVE PERIOD UNIT/CYCLE	SECOND SUCCESSIVE PERIOD UNIT/CYCLE	THIRD SUCCESSIVE PERIOD UNIT/CYCLE	REFERENCE DWG.
2-SIH-20-1A	Att. 1, Section 7.4	PT	B-K	U2C4	U2C5 or C6	U2C7or C8	U2C9 or C10	MSG-0009-C
BIT-4	Att. 2, Section 7.2	UT	C-A	U2C6	U2C7 or C8	N/A	N/A	ISI-0074-A

Attachment 10 - Augmented Examination (Unit 1)

Mechanical/Nuclear Engineering

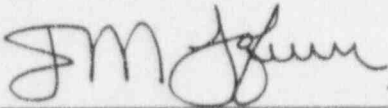
- A. **MAINTAIN** a listing of augmented examinations.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.

 for M. Lock / 10/13/95

Mechanical/Nuclear Engineering Manager/Designee Date

AUGMENTED EXAMINATIONS

Augmented examinations are performed in addition to ASME Section XI code requirements. The augmented examinations may be required by the NRC or be self-imposed by TVA. Typical sources include generic letters, IE Bulletins, technical specifications, vendor recommendations, and industry experience. Table A of this attachment provides a schedule for augmented examinations. Responsible organizations requesting inclusion of augmented examinations in this section shall submit a written request to the ISI/NDE representative (see Appendix B in SSP-6.10).

1.0 Feedwater Nozzle-to-Pipe Welds and Adjacent Pipe/Fittings and Nozzle Areas/Auxiliary Feedwater

Responsible Organization: Mech/Nuc Engineering

Due to the safety-related ramifications and the assessments concluded in Incident Investigation (II) No. II-S-92-027 of the steam generator nozzle transition section cracking problem and potential for cracking in adjacent components within the feedwater piping system, TVA will perform augmented examinations as determined by Mech/Nuc Engineering. This shall include the four feedwater nozzle transition pieces and associated piping components with inspections being performed during the intervals as listed below.

The augmented examination of the steam generator nozzle transition and feedwater piping shall include 100 percent volume of the transition pieces, the nozzle-to-transition piece welds, transition piece-to-elbow welds, 4-inch feedwater/auxiliary feedwater tee-to-pipe welds, and base metal adjacent to each weld for a distance of two wall thicknesses. These welds shall be volumetrically examined by the ultrasonic method and supplemented with radiographic examination when specified by Mech/Nuc Engineering.

Ultrasonic acceptance criteria shall be in accordance with ASME Section XI 1989 Edition, IWC-3514, for Class 2 welds. The results of the examination will be submitted to Mech/Nuc Engineering for evaluation and trending of flaw sizes and growth rates. The results of this examination shall be included in the ISI Report discussed in SSP-6.10. Inspection of the transition pieces, nozzle-to-transition piece welds, transition piece-to-elbow welds, and the associated base metal shall be scheduled for inspection at each consecutive refueling outage unless otherwise revised or waived by Mech/Nuc Engineering.

Inspection of the 4-inch feedwater/auxiliary feedwater reducer-to-pipe welds and the associated base metal shall be to the following schedule unless otherwise revised or waived by Mech/Nuc Engineering.

Loops 2 and 4 are to be inspected each even numbered outage. Initial inspection performed during Cycle 6 Refueling Outage.

Loops 1 and 3 are to be inspected each odd numbered outage. Initial inspection performed during Cycle 7 Refueling Outage.

Feedwater loops that have been replaced with the feedwater thermal liner during and after Unit 1 Cycle 7 will be examined to ASME Section XI requirements with no additional examination requirements or examination volume coverage. Welds to be examined are

nozzle-to-elbow, elbow-to-thermal liner adapter, and thermal liner adapter to pipe weld. Additional examinations may be required by Mech/Nuc Engineering where further evaluation indicates a potential for cracking in this area of piping.

FEEDWATER NOZZLE TRANSITION PIECE EXAM SCHEDULE

The following is a summary of the examinations conducted during successive cycles. The requirements of NRC IE Bulletin 79-13 were satisfied during the Unit 1 Cycle 1 outage.

<u>Cycle</u>	<u>Examination Areas</u>
1	IE Bulletin 79-13 completed
2	1 nozzle-to-pipe weld and adjacent pipe and nozzle area
3	1 nozzle-to-pipe weld and adjacent pipe and nozzle area
4	All nozzle transition section pieces and welds
5	All nozzle transition section pieces and welds
6	All nozzle transition section pieces and welds

2.0 Reactor Coolant Pump Flywheel

Responsible Organization: Mech/Nuc Engineering

The augmented examination requirements of the reactor coolant pump flywheel are included in Regulatory Position C.4.b of Regulatory Guide 1.14; (1) an in-place ultrasonic examination of the areas of higher stress concentration at the bore and keyway at approximately 3-year intervals during the refueling or maintenance shutdown coinciding with the ISI schedule as required by Section XI of the ASME Code, and (2) a surface examination of all exposed surfaces (exposed areas are considered as those areas accessible for examination without having to remove the flywheel from the housing) and complete ultrasonic examination at approximately 10-year intervals during the plant shutdown coinciding with the ISI schedule as required by Section XI of the ASME Code. This examination is performed in accordance with SQN Technical Specifications and satisfies Surveillance Requirement 4.0.5.

This augmented examination does not require a special report unless the examination reveals a flaw. The acceptance criteria should conform to the recommendations of Regulatory Position C.2.F in Regulatory guide 1.14. If the examination and evaluation indicate an increase in flaw size or growth rate greater than predicted for the service life of the flywheel, the results of the examination and evaluation should be submitted to the NRC for evaluation. Refer to Regulatory Guide 1.14 for information to be included. The examination results shall be included in the ISI Report discussed in SSP-6.10.

The flywheel consists of 2 plates, approximately 5 inches and 8 inches thick, bolted together. Each plate is fabricated from vacuum degassed A-533, GR. B, Class 1, steel.

The 3-year in place RCP examinations shall be recorded using the RCP motor serial number and exam ID:

RCP Motor S/N - BOREKEY (i.e., 4S-81P352 - BOREKEY)

For the 10-year exam, the IDs shall be:

RCP Motor S/N - SUR (i.e., 4S-81P352 - SUR)

RCP Motor S/N - VOL (i.e., 4S-81P352 - VOL)

3.0 RPV Nozzle Cladding

Responsible Organization: Mech/Nuc Engineering

By memorandum from David E. Labarge NRC to O.D. Kingsley, TVA dated March 15, 1994 (L44 940322 006) Sequoyah Nuclear Plant, Units 1 and 2 Technical Specifications Requirement 4.4.10.b were amended to remove Surveillance Requirement 4.4.10.b [C.1]. The amendments remove the surveillance requirement to perform reactor vessel nozzle inspections at the end of each 10-year inspection interval subject to the commitments to perform the augmented ISI examination as stated below.

TVA has committed to the following requirements:

1. The volumetric examinations of the reactor pressure vessel nozzles will be performed over the same cladded nozzle areas required by American Society of Mechanical Engineers Code. [C.1]
2. The ultrasonic technique for future examinations shall be at least as sensitive as that used to conduct the examinations during the Unit 1 Cycle 6 refueling outage. [C.1]
3. The examinations performed during the Unit 1 Cycle 6 refueling outage shall serve as the baseline for future examinations. [C.1]
4. All of the detected flaws will be sized regardless of the percent Distance Amplitude Correction Curve (DAC). [C.1]
5. The results of the examination shall be submitted to NRC. [C.1]
6. The above commitments shall not be removed from the Unit 1, ISI program without notifying NRC. [C.1]

TVA plans to perform a second examination of the Unit 1 reactor vessel nozzle cladding near the end of SQN second 10-year ISI interval. (see reference memorandum S64 950206 800).

This augmented examination does not require a special report. Results of the examination shall be reported to the NRC via the ISI Report discussed in SSP-6.10.

A special preservice examination of the reactor vessel nozzles was conducted to evaluate the extent of underclad cracking. The examination utilized a 70° angle beam and 0° beam manual contact technique. All indications found were demonstrated to be acceptable in accordance with ASME Code Section XI criteria. (Reference FSAR Section 5.4.1.1)

4.0 Control Rod Guide Tube Flexures

Responsible Organization: Technical Support - Reactor Engineering

Any revisions or waivers of this augmented examination plan as stated in this section shall be the responsibility of the Technical Support - Reactor Engineering Supervisor or his designee.

Due to the potential of intergranular stress corrosion cracking of guide tube flexures, the control rod guide tube flexure augmented examination plan was initiated during the first inspection interval (see Westinghouse reference memorandums A27 840123 022 and L01 840723 035).

The control rod guide tube flexures shall be visually examined in accordance with visual examination method VT-3 during the second 10 year ISI inspection interval vessel interior examination at the request of Technical Support - Reactor Engineering. If any flexure heads are discovered to be broken from their stems, the heads should be retrieved and flexureless inserts installed. If flexureless inserts are not installed after a break has occurred, a safety evaluation will be required to confirm continued safe plant operation. A copy of the VT data sheets shall be forwarded to the appropriate cognizant engineer.

The PRISIM identifiers for the control rod guide tube flexures are:

CRDTUBEFLEX - A07
CRDTUBEFLEX - E09
CRDTUBEFLEX - G05
CRDTUBEFLEX - J11
CRDTUBEFLEX - L07

This augmented examination is self-imposed by TVA and does not require a report. Results of the examination shall be included in the ISI Report discussed in SSP-6.10.

5.0 Thimble Tube Guide

Responsible Organization: Technical Support - Reactor Engineering

Due to the potential thinning of thimble tube guides as reported on NRC Bulletin 88-09 and Information Notice No. 87-44 supplement 1, TVA performed an augmented examination of the thimble tubes using Eddy Current Examination (ET) during the Unit 1 Cycle 4 refueling outage. See R. W. Fortenberry's July 21, 1988 memorandum to S. J. Smith (S57 880721 821) and J. F. Murdock's June 3, 1988 memorandum to J. B. Hosmer (L29 880531 914).

Future examinations as requested by Technical Support - Reactor Engineering during the second ISI inspection interval shall be to examine all thimble tubes as warranted by the wear data base and measured wear rate. Results of the examinations shall be forwarded to Technical Support - Reactor Engineering See P. G. Trudel's April 20, 1990 memorandum to M. J. Burzynski (B25 900420 008) and Design Change Notice Drawing Deviation F-07706-A (B85 911107 124).

Results of the examinations shall be included in the ISI Report discussed in SSP-6.10.

6.0 Examination of Piping Connected to the Reactor Coolant System Due to Thermal Stresses

Responsible Organization: Mech/Nuc Engineering

In response to NRC Bulletin due to the potential thermal stresses on unisolatable piping attached to the RCS (see NRC Bulletin 88-08), TVA has examined the following areas: 1) the four 1.5-inch high head injection lines, 2) the 2-inch pressurizer spray line from the charging path, 3) the 3-inch alternate charging path, and 4) the 3-inch normal charging path. During Cycle 3 shutdown period all of the welds up to the first valve were PT examined, and the 3-inch line was UT examined. The SQN Project Engineer has prepared a report to Licensing, who in turn prepared a report to the NRC. (See memorandums B29 880906 008, S08 880830 843, L44 880824 802, and B25 880819 014.)

Due to the assessments concluded in Incident Investigation (II) No. II-S-92-027 of the steam generator nozzle transition section cracking problem and NRC Bulletin 88-08, similar conditions were evaluated for the Chemical and Volume Control System (CVCS), Safety Injection System (SIS) and Reactor Coolant System (RCS). Potential for cracking in these systems, in particular the Alternate Charging Line, are the cases that resulted in the cracking of welds at Farley (NRC Bulletin 88-08) and the elbow at Tihange (NRC Bulletin 88-08, Supplement 1). The thermal cycling stresses can be quite severe at these locations with leakage across the closed FCVs, and it is possible for a crack to initiate and grow substantially in a single fuel cycle.

As some of the fatigue crack mechanisms are much more likely than others to occur and result in crack development, a graded approach regarding inspection frequency has been recommended by Mech/Nuc Engineering. This graded approach couples the likelihood of occurrence with the severity of the postulated event. Some of these welds and adjacent base metal were baseline examined during the Unit 2 Cycle 5 outage due to the feedwater transition piece cracking problem.

TVA will perform an augmented inspection of the areas noted with inspections being performed during the intervals as listed below, unless otherwise revised or waived by Mech/Nuc Engineering. Additional welds and/or inspection techniques may be added by Mech/Nuc Engineering where further evaluations indicate a potential for thermal stratification. (see memorandum B25 931129 001)

Unless alternate examination volume/area/extents are specified in the following paragraphs, the examination volume/area/extents specified in this paragraph shall be utilized for all volumetric and surface examinations.

Ultrasonic (UT) examinations shall include 100 percent volume of the welds and base metal adjacent to each weld for a distance of two wall thicknesses where accessible (fittings, elbow interdose, and valves may prevent full circumference evaluation). Liquid penetrant (PT) examinations shall include the welds and base metal adjacent to each weld for a distance of one-half (1/2) inch. UT and PT acceptance criteria shall be in accordance with ASME Section XI, 1989 Edition, IWB-3514 and IWC-3514, for Class 1 and 2 welds, respectively.

The results of the examination will be submitted to Mech/Nuc Engineering for evaluation and trending. The results of this examination shall be included in the ISI Report discussed in SSP-6.10.

During the second interval, inspection of cold leg Loop 1 and cold leg Loop 4 CVC welds shall be performed by the UT examination method, with supplemental PT examination where the UT method is impractical due to configuration (e.g. intrados of elbow). The examination shall include the welds and the adjacent base metal for each weld for a distance of one inch, except that the base metal of the elbow shall be examined 100%. The welds and the schedule inspection interval are noted below.

Cold Leg loop 4 - Weld 1-CVCF-246, 1-CVCS-414, and 1-CVCF-246/CVCS-414 ELBOW inspect each even numbered RFO beginning with RFO 8 (initial inspection performed during RFO 6).

Cold Leg Loop 1 - Weld 1-CVCF-213, 1-CVCF-214, and 1-CVCF-213/214 ELBOW inspect each odd numbered RFO beginning with RFO 9. (Initial inspection performed during RFO 7.)

Inspection of pressurizer surge line, weld RC-33 and RC-35 shall be performed by the UT examination method and scheduled for inspection as noted below. (Reference NRC Bulletin 88-11.)

Pressurizer surge line, Weld RC-33, shall be inspected every fourth refueling outage beginning with refueling outage 10.

Pressurizer surge line, Weld RC-35 shall be inspected every fourth refueling outage beginning with refueling outage 12.

Inspection of cold leg loops 1, 2, 3, and 4 SI welds shall be performed by the PT examination method. The examination shall include the welds and adjacent base metal for each weld for a distance of one inch, except that the base metal for the elbows between the associated welds listed below shall be examined 100%. The acceptance criteria shall be in accordance with ASME Section XI, 1989 Edition, IWB-3514.3. The results of the examination will be submitted to SQN Mech/Nuc Engineering for evaluation and trending. The welds and the scheduled inspection intervals are noted below.

Cold Leg Loop 1 - 1-SI-1605, 1-SI-1606, 1-SI-1607, and 1-SI-1606/1607 ELBOW inspect each odd numbered RFO beginning with RFO 9. (Initial inspection performed during RFO 7.)

Cold Leg Loop 2 - 1-SI-1610, 1-SI-1611, 1-SI-1612, and 1-SI-1610/1611 ELBOW inspect each even numbered RFO beginning with RFO 8 (initial inspection performed during RFO 6).

Cold Leg Loop 3 - 1-SI-1692, 1-SI-1693, 1-SI-1694, and 1-SI-1693/1694 ELBOW inspect each odd numbered RFO beginning with RFO 9. (Initial inspection performed during RFO 7.)

Cold Leg Loop 4 - 1-SI-1697, 1-SI-1698, 1-SI-1699, and 1-SI-1697/1698 ELBOW inspect each even numbered RFO beginning with RFO 8.

Inspection of the Auxiliary Spray line CVC welds 1-CVC-2599, 1-CVC-2600 and 1-CVC-2601 shall be performed by the PT examination method. The examination shall include the welds and the adjacent base metal for each weld for a distance of one inch, except that the base metal for the elbow 1-CVC-2599/2600 ELBOW shall be examined 100%. The acceptance criteria shall be in accordance with ASME Section XI, 1989 Edition, IWB-3514.3. Inspect each refueling outage beginning with RFO 8 initial examinations was performed during RFO 6 and RFO 7.

7.0 Pressurizer Relief Line Repair Welds and Adjoining Areas

Responsible Organization: Mech/Nuc Engineering

The augmented examination requirements of the pressurizer relief line (draw bead welds) are included in the Technical Specifications 4.0.5 and 4.4.3.2.4. The pressurizer relief line repair welds (RCF-24P and RCF-24H) and adjoining areas were examined in accordance with TVA procedure N-UT-18 using improved ultrasonic detection and evaluation procedures prior to entering Mode 4 whenever the plant has been in cold shutdown for 72 hours or more if the examination had not been performed in the previous six months. When these 6-month period examinations found the piping free of unacceptable indications for 3 successive inspections, the inspection interval was extended to 36 months intervals (12 months to coincide with a schedule refueling outage). When these 36-month period examinations found the piping free of unacceptable indications for 3 successive inspections, the inspection interval was extended to 80-month periods. The procedure have been qualified by demonstrating proficiency in detecting Intergranular Stress Corrosion Cracking (IGSCG). All future examinations of the pressurizer relief line repair welds will be performed using procedures with ultrasonic sensitivities equivalent to those required for detecting IGSCC. The report shall be submitted with the ISI Report discussed in SSP 6.10. See examination history below:

Examination History

<u>Date Examination Performed</u>	<u>Examination Periods</u>
10-20-91 (Examination performed by SI-114.1)	Start of first 80-month period

Note: RCF-24P and RCF-24H will be examined in RFO 7 (~ 48 months) and in RFO 11 (~ 72 months) to coincide with Unit 1 RFO in lieu of the 80 month examination (10/91 - 4/98) projected schedule.

AUGMENTED EXAMINATIONS
TABLE A

COMPONENT	PROGRAM REFERENCE SECTION	EXAM METHOD	CYCLE 8	CYCLE 9	CYCLE 10	CYCLE 11	CYCLE 12	CYCLE 13	REFERENCE DRAWING NUMBER
Feed water Nozzle to Pipe Welds Loop 1 and 2	1.0	UT	X	X	X	X	X	X	CHM-2339-C
Feedwater Nozzle to Pipe Loop 3 and 4	1.0	UT	X	X	X	X	X	X	CHM-2339-C
Feedwater/Auxiliary feedwater 4-inch Reducer-to-Pipe welds and the Associated Base Metal Loop 2 and 4	1.0	UT	X		X		X		CHM-2339-C
Feedwater/Auxiliary feedwater 4-inch Reducer-to-Pipe welds and the Associated Base Metal Loops 1 and 3	1.0	UT		X		X		X	CHM-2339-C
Reactor Coolant Pump Flywheel	2.0	UT, PT	TBD	TBD	TBD	TBD	TBD	TBD	CHM-2333-C ISI-0403-A
RFV Nozzle Cladding	3.0	UT					X		CHM-2343-C CHM-2360-C CHM-2361-C
Control rod Guide Tubes Flexures	4.0	VT	X	X	X	X	X	X	
Thimble Tube Guide	5.0	ET	TBD	TBD	TBD	TBD	TBD	TBD	
Examination of Piping Connected to the Reactor Coolant System Due to thermal Stresses	6.0								
Examination of Welds 1-CVCF-246, 1-CVCS-414, and 1-CVCF-246/CVCS-414 ELBOW	6.0	UT/ (supplemental PT)	X		X		X		CHM-2335-C
Examination of Welds 1-CVCF-213, 1-CVCF-414, and 1-CVCF-213/214 ELBOW	6.0	UT/ (supplemental PT)		X		X		X	CHM-2335-C
Examination of Weld RC-33	6.0	UT			X				ISI-0482-C
Examination of Weld RC-35	6.0	UT					X		ISI-0482-C
Examination of Welds 1-SI-1605, 1-SI-1606, 1-SI-1607, and 1-SI-1606/1607 ELBOW	6.0	PT		X		X		X	ISI-0482-C
Examination of Welds 1-SI-1610, 1-SI-1611, 1-SI-1612, and 1-SI-1610/1611 ELBOW	6.0	PT	X		X		X		ISI-0482-C

AUGMENTED EXAMINATIONS
 TABLE A
 (continued)

COMPONENT	PROGRAM REFERENCE SECTION	EXAM METHOD	CYCLE 8	CYCLE 9	CYCLE 10	CYCLE 11	CYCLE 12	CYCLE 13	REFERENCE DRAWING NUMBER
Examination of Welds 1-SI-1692, 1-SI-1693, 1-SI-1694, and 1-SI-1693/1694 ELBOW	6.0	PT		X		X		X	ISI-0482-C
Examination of Welds 1-SI-1697, 1-SI-1698, 1-SI-1699, and 1-SI-1697/1698 ELBOW	6.0	PT	X		X		X		ISI-0482-C
Examination of Welds 1-CVC-2599, 1-CVC-2600, 1-CVC-2601, and 1-CVC-2599/2600 ELBOW	6.0	PT	X	X	X	X	X	X	CHM-2335-C
PRZ Relief line repair Welds and adjoining areas RCF-24P and RCF-24H	7.0	UT				X			ISI-0369-C

Attachment 11 - Augmented Examination (Unit 2)

Mechanical/Nuclear Engineering


- A. **MAINTAIN** a listing of augmented examinations.
- B. **UPDATE** listing as necessary.
- C. **SIGN** below.
- D. **FORWARD** to SPS for updating Table of Contents, etc.

SPS

- E. **FORWARD** to DCRM.

DCRM

- F. **DISTRIBUTE** per SSP-2.7.

 for M. Loreck, 10/13/95

Mechanical/Nuclear Engineering Manager/Designee Date

AUGMENTED EXAMINATIONS

Augmented examinations are performed in addition to ASME Section XI code requirements. The augmented examinations may be required by the NRC or be self-imposed by TVA. Typical sources include generic letters, IE Bulletins, technical specifications, vendor recommendations, and industry experience. Table A of this attachment provides a schedule for augmented examinations. Responsible organizations requesting inclusion of augmented examinations in this section shall submit a written request to the ISI/NDE representative (see Appendix B in SSP-6.10).

1.0 Feedwater Nozzle-to-Pipe Welds and Adjacent Pipe/Fittings and Nozzle Areas/Auxiliary Feedwater

Responsible Organization: Mech/Nuc Engineering

Due to the safety-related ramifications and the assessments concluded in Incident Investigation (II) No. II-S-92-027 of the steam generator nozzle transition section cracking problem and potential for cracking in adjacent components within the feedwater piping system, TVA will perform augmented examinations as determined by Mech/Nuc Engineering. This shall include the four feedwater nozzle transition pieces and associated piping components with inspections being performed during the intervals as listed below.

The augmented examination of the steam generator nozzle transition and feedwater piping shall include 100 percent volume of the transition pieces, the nozzle-to-transition piece welds, transition piece-to-elbow welds, 4-inch feedwater/auxiliary feedwater tee-to-pipe welds, and base metal adjacent to each weld for a distance of two wall thicknesses. These welds shall be volumetrically examined by the ultrasonic method and supplemented with radiographic examination when specified by Mech/Nuc Engineering.

Ultrasonic acceptance criteria shall be in accordance with ASME Section XI 1989 Edition, IWC-3514, for Class 2 welds. The results of the examination will be submitted to Mech/Nuc Engineering for evaluation and trending of flaw sizes and growth rates. The results of this examination shall be included in the ISI Report discussed in SSP-6.10.

Inspection of the transition pieces, nozzle-to-transition piece welds, transition piece-to-elbow welds, and the associated base metal shall be scheduled for inspection at each consecutive refueling outage unless otherwise revised or waived by Mech/Nuc Engineering.

Inspection of the 4-inch feedwater/auxiliary feedwater reducer-to-pipe welds and the associated base metal shall be into the following schedule unless otherwise revised or waived by Mech/Nuc Engineering.

Loop 2 is to be inspected each outage. Initial inspection performed during Cycle 6 refueling outage.

Loops 4 is to be inspected each even numbered outage. Initial inspection performed during Cycle 6 Refueling Outage.

Loops 1 and 3 are to be inspected each odd numbered outage beginning with the Cycle 7 Refueling Outage.

Feedwater loops that have been replaced with the feedwater thermal liner during and after Unit 2 Cycle 6 will be examined to ASME Section XI requirements with no additional examination requirements or examination volume coverage. Welds to be examined are nozzle-to-elbow, elbow-to-thermal liner adapter, and thermal liner adapter to pipe weld. Additional examinations may be required by Mech/Nuc Engineering where further evaluation indicates a potential for cracking in this area of piping.

FEEDWATER NOZZLE TRANSITION PIECE EXAM SCHEDULE

The following is a summary of the examinations conducted during successive cycles. The requirements of NRC IE Bulletin 79-13 were satisfied during the Unit 2 Cycle 1 outage.

<u>Cycle</u>	<u>Examination Areas</u>
1	IE Bulletin 79-13 completed
2	1 nozzle-to-pipe weld and adjacent pipe and nozzle area
3	All nozzle transition section pieces and welds
4	All nozzle transition section pieces and welds
5	All nozzle transition section pieces and welds
6	All nozzle transition section pieces and welds for loops 1 and 4, loops 2 and 3 replaced in U2C6.

2.0 Reactor Coolant Pump Flywheel

Responsible Organization: Mech/Nuc Engineering

The augmented examination requirements of the reactor coolant pump flywheel are included in Regulatory Position C.4.b of Regulatory Guide 1.14; (1) an in-place ultrasonic examination of the areas of higher stress concentration at the bore and keyway at approximately 3-year intervals during the refueling or maintenance shutdown coinciding with the ISI schedule as required by Section XI of the ASME Code, and (2) a surface examination of all exposed surfaces (exposed areas are considered as those areas accessible for examination without having to remove the flywheel from the housing) and complete ultrasonic examination at approximately 10-year intervals during the plant shutdown coinciding with the ISI schedule as required by Section XI of the ASME Code. This examination is performed in accordance with SQN Technical Specifications and satisfies Surveillance Requirement 4.0.5.

This augmented examination does not require a special report unless the examination reveals a flaw. The acceptance criteria should conform to the recommendations of Regulatory Position C.2.F in Regulatory guide 1.14. If the examination and evaluation indicate an increase in flaw size or growth rate greater than predicted for the service life of the flywheel, the results of the examination and evaluation should be submitted to the NRC for evaluation. Refer to Regulatory Guide 1.14 for information to be included. The examination results shall be included in the ISI Report discussed in SSP-6.10.

The flywheel consists of 2 plates, approximately 5 inches and 8 inches thick, bolted together. Each plate is fabricated from vacuum degassed A-533, GR. B, Class 1, steel.

The 3-year in place RCP examinations shall be recorded using the RCP motor serial number and exam ID:

RCP Motor S/N - BOREKEY (i.e., 4S-81P352 - BOREKEY)

For the 10-year exam, the IDs shall be:

RCP Motor S/N - SUR (i.e., 4S-81P352 - SUR)

RCP Motor S/N - VOL (i.e., 4S-81P352 - VOL)

3.0 RPV Nozzle Cladding

Responsible Organization: Mech/Nuc Engineering

By memorandum from David E. Labarge NRC to O.D. Kingsley, TVA dated March 15, 1994 (L44 940322 006) Sequoyah Nuclear Plant, Units 1 and 2 Technical Specifications Requirement 4.4.10.b were amended to remove Surveillance Requirement 4.4.10.b [C.1]. The amendments remove the surveillance requirement to perform reactor vessel nozzle inspections at the end of each 10-year inspection interval subject to the commitments to perform the augmented ISI examination as stated below.

TVA has committed to the following requirements:

1. The volumetric examinations of the reactor pressure vessel nozzles will be performed over the same cladded nozzle areas required by American Society of Mechanical Engineers Code. [C.1]
2. The ultrasonic technique for the Unit 2 Cycle 6 refueling outage examinations and future examinations will be at least as sensitive as that used to conduct the examinations during the Unit 1 Cycle 6 refueling outage. [C.1]
3. The examinations to be performed during the Unit 2 Cycle 6 refueling outage will serve as the baseline for future examinations. [C.1]
4. All of the detected flaws will be sized regardless of the percent Distance Amplitude Correction Curve (DAC). [C.1]
5. The results of the examination will be submitted to NRC. [C.1]
6. The above commitments will not be removed from the Unit 2, ISI program without notifying NRC. [C.1]

TVA plans to perform a second examination of the Unit 1 reactor vessel nozzle cladding near the end of SQN second 10-year ISI interval. At that time, based on the results of the second Unit 1 examination, TVA plans to evaluate the need for performing a second Unit 2 examination. (see reference memorandum S64 950206 800).

This augmented examination does not require a special report. Results of the examination shall be reported to the NRC via the ISI Report discussed in SSP-6.10.

A special preservice examination of the reactor vessel nozzles was conducted to evaluate the extent of underclad cracking. The examination utilized a 70° angle beam and 0° beam manual contact technique. All indications found were demonstrated to be acceptable in accordance with ASME Code Section XI criteria. (Reference FSAR Section 5.4.1.1)

4.0 Control Rod Guide Tube Flexures

Responsible Organization: Technical Support - Reactor Engineering

Any revisions or waivers of this augmented examination plan as stated in this section shall be the responsibility of the Technical Support - Reactor Engineering Supervisor or his designee.

Due to the potential of intergranular stress corrosion cracking of guide tube flexures, the control rod guide tube flexure augmented examination plan was initiated during the first inspection interval (see Westinghouse reference memorandums A27 840123 022 and L01 840723 035).

The control rod guide tube flexures shall be visually examined in accordance with visual examination method VT-3 during the second 10 year ISI inspection interval vessel interior examination at the request of Technical Support - Reactor Engineering. If any flexure heads are discovered to be broken from their stems, the heads should be retrieved and flexureless inserts installed. If flexureless inserts are not installed after a break has occurred, a safety evaluation will be required to confirm continued safe plant operation. A copy of the VT data sheets shall be forwarded to the appropriate cognizant engineer.

The PRISIM identifiers for the control rod guide tube flexures are:

CRDTUBEFLEX - A07
CRDTUBEFLEX - E09
CRDTUBEFLEX - G05
CRDTUBEFLEX - J11
CRDTUBEFLEX - L07

This augmented examination is self-imposed by TVA and does not require a report. Results of the examination shall be included in the ISI Report discussed in SSP-6.10.

5.0 Thimble Tube Guide

Responsible Organization: Technical Support - Reactor Engineering

Due to the potential thinning of thimble tube guides as reported on NRC Bulletin 88-09 and Information Notice No. 87-44 supplement 1, TVA performed an augmented examination of the thimble tubes using Eddy Current Examination (ET) during the Unit 2 Cycle 3 refueling outage. See R. W. Fortenberry's July 21, 1988 memorandum to

S. J. Smith (S57 880721 821) and J. F. Murdock's June 3, 1988 memorandum to J. B. Hosmer (L29 880531 914).

Future examinations as required by Technical Support - Reactor Engineering during the second ISI inspection interval shall be to examine all thimble tubes as warranted by the ware data base and measured ware rate. Results of the examinations shall be forwarded to Technical Support - Reactor Engineering. See P. G. Trudel's February 27, 1989 memorandum to M. J. Burzynski (B25 890227 002) and Design Change Notice Drawing Deviation F-07706-A (B85 911107 124).

Results of the examinations shall be included in the ISI Report discussed in SSP-6.10.

6.0 Examination of Piping Connected to the Reactor Coolant System Due to Thermal Stresses

Responsible Organization: Mech/Nuc Engineering

In response to NRC Bulletin due to the potential thermal stresses on unisolatable piping attached to the RCS (see NRC Bulletin 88-08), TVA has examined the following areas: 1) the four 1.5-inch high head injection lines, 2) the 2-inch pressurizer spray line from the charging path, 3) the 3-inch alternate charging path, and 4) the 3-inch normal charging path. During Cycle 3 shutdown period all of the welds up to the first valve were PT examined, and the 3-inch line was UT examined. The SQN Project Engineer has prepared a report to Licensing, who in turn prepared a report to the NRC. (See memorandums B29 880906 008, S08 880830 843, L44 880824 802, and B25 880819 014.)

Due to the assessments concluded in Incident Investigation (II) No. II-S-92-027 of the steam generator nozzle transition section cracking problem and NRC Bulletin 88-08, similar conditions were evaluated for the Chemical and Volume Control System (CVCS), Safety Injection System (SIS) and Reactor Coolant System (RCS). Potential for cracking in these systems, in particular the Alternate Charging Line, are the cases that resulted in the cracking of welds at Farley (NRC Bulletin 88-08) and the elbow at Tihange (NRC Bulletin 88-08, Supplement 1). The thermal cycling stresses can be quite severe at these locations with leakage across the closed FCVs, and it is possible for a crack to initiate and grow substantially in a single fuel cycle.

As some of the fatigue crack mechanisms are much more likely than others to occur and result in crack development, a graded approach regarding inspection frequency has been recommended by Mech/Nuc Engineering. This graded approach couples the likelihood of occurrence with the severity of the postulated event. Some of these welds and adjacent base metal were baseline examined during the Unit 2 Cycle 5 outage due to the feedwater transition piece cracking problem.

TVA will perform an augmented inspection of the areas noted with inspections being performed during the intervals as listed below, unless otherwise revised or waived by Mech/Nuc Engineering. Additional welds and/or inspection techniques may be added by Mech/Nuc Engineering where further evaluations indicate a potential for thermal stratification. (see memorandum B25 931129 001)

Unless alternate examination volume/area/extents are specified in the following paragraphs, the examination volume/area/extents specified in this paragraph shall be utilized for all volumetric and surface examinations.

Ultrasonic (UT) examinations shall include 100 percent volume of the welds and base metal adjacent to each weld for a distance of two wall thicknesses where accessible (fittings, elbow interdose, and valves may prevent full circumference evaluation). Liquid penetrant (PT) examinations shall include the welds and base metal adjacent to each weld for a distance of one-half (1/2) inch. UT and PT acceptance criteria shall be in accordance with ASME Section XI, 1989 Edition, IWB-3514 and IWC-3514, for Class 1 and 2 welds, respectively.

The results of the examination will be submitted to Mech/Nuc Engineering for evaluation and trending. The results of this examination shall be included in the ISI Report discussed in SSP-6.10.

During the second interval, inspection of cold leg Loop 1 and cold leg Loop 4 CVC welds shall be performed by the UT examination method, with supplemental PT examination where the UT method is impractical due to configuration (e.g. intrados of elbow). The examination shall include the welds and the adjacent base metal for each weld for a distance of one inch, except that the base metal of the elbow shall be examined 100%. The welds and the schedule inspection interval are noted below.

Cold Leg loop 4 - Weld 2-CVCF-244E, 2-CVCF-244F, and 2-CVCF-244E/244F ELBOW inspect each even numbered RFO beginning with RFO 8 (initial inspection performed during E/C forced outage during 1993).

Cold Leg Loop 1 - Weld 2-CVCF-213, 2-CVCF-214, and 2-CVCF-213/214 ELBOW inspect each odd numbered RFO beginning with RFO 7.

Inspection of pressurizer surge line, weld RC-33 and RC-35 shall be performed by the UT examination method and scheduled for inspection as noted below. (Reference NRC Bulletin 88-11.)

Pressurizer surge line, Weld RC-33, shall be inspected every fourth refueling outage beginning with refueling outage 10.

Pressurizer surge line, Weld RC-35 shall be inspected every fourth refueling outage beginning with refueling outage 12.

Inspection of cold leg loops 1, 2, 3, and 4 SI welds shall be performed by the PT examination method. The examination shall include the welds and adjacent base metal for each weld for a distance of one inch, except that the base metal for the elbows between the associated welds listed below shall be examined 100%. The acceptance criteria shall be in accordance with ASME Section XI, 1989 Edition, IWB-3514.3. The results of the examination will be submitted to SQN Mech/Nuc Engineering for evaluation and trending. The welds and the scheduled inspection intervals are noted below.

Cold Leg Loop 1 - 2-SI-1124, 2-SI-1125, 2-SI-1126, and 2-SI-1124/1125 ELBOW inspect each odd numbered RFO beginning with RFO 7 (initial inspection performed during E/C forced outage during 1993).

Cold Leg Loop 2 - 2-SI-1816A, 2-SI-1817A, 2-SI-1818A, and 2-SI-1816A/1817A ELBOW inspect each even numbered RFO beginning with RFO 8 (initial inspection performed during E/C forced outage during 1993).

Cold Leg Loop 3 - 2-SI-1894, 2-SI-1895, 2-SI-1896, and 2-SI-1895/1896 ELBOW inspect each odd numbered RFO beginning with RFO 7 (initial inspection performed during E/C forced outage during 1993).

Cold Leg Loop 4 - 2-SI-1899, 2-SI-1900, 2-SI-1901, and 2-SI-1899/1900 ELBOW inspect each even numbered RFO beginning with RFO 8 (initial inspection performed during E/C forced outage during 1993).

Inspection of the Auxiliary Spray line CVC welds 2-CVC-1745, 2-CVC-1746, and 2-CVC-1747 shall be performed by the PT examination method. The examination shall include the welds and the adjacent base metal for each weld for a distance of one inch, except that the base metal for the elbow 2-CVC-1745/1746 ELBOW shall be examined 100%. The acceptance criteria shall be in accordance with ASME Section XI, 1989 Edition, IWB-3514.3. Inspect each refueling outage beginning with RFO 7 (initial examination was performed during E/C forced outage).

AUGMENTED EXAMINATIONS
TABLE A

COMPONENT	PROGRAM REFERENCE SECTION	EXAM METHOD	CYCLE 7	CYCLE 8	CYCLE 9	CYCLE 10	CYCLE 11	CYCLE 12	REFERENCE DRAWING NUMBER
Feed water Nozzle to Pipe Welds Loop 1 and 4	1.0	UT	X	X	X	X	X	X	CHM-2403-C
Feedwater/Auxiliary feedwater 4-inch Reducer-to-Pipe welds and the Associated Base Metal Loop 2	1.0	UT	X	X	X	X	X	X	CHM-2403-C
Feedwater/Auxiliary feedwater 4-inch Reducer-to-Pipe welds and the Associated Base Metal Loop 4	1.0	UT		X		X		X	CHM-2403-C
Feedwater/Auxiliary feedwater 4-inch Reducer-to-Pipe welds and the Associated Base Metal Loops 1 and 3	1.0	UT	X		X		X		CHM-2403-C
Reactor Coolant Pump Flywheel	2.0	UT, PT	TBD	TBD	TBD	TBD	TBD	TBD	ISI-0306-B ISI-0403-A
RPV Nozzle Cladding	3.0	UT						X	ISI-0298-C ISI-0297-C ISI-0392-C
Control rod Guide Tubes Flexures	4.0	VT	X	X	X	X	X	X	
Thimble Tube Guide	5.0	ET	TBD	TBD	TBD	TBD	TBD	TBD	
Examination of Piping Connected to the Reactor Coolant System Due to thermal Stresses	6.0								
Examination of Welds 2-CVCF-244E, 2-CVCF-244F, and 2-CVCF-244E/244F ELBOW	6.0	UT/ (Supplemental PT)		X		X		X	ISI-0009-C-2
Examination of Welds 2-CVCF-213, 2-CVCF-414, and 2-CVCF-213/214 ELBOW	6.0	UT/ (Supplemental PT)	X		X		X		ISI-0009-C-2
Examination of Weld RC-33	6.0	UT				X			ISI-0008-C-1
Examination of Weld RC-35	5	UT						X	ISI-0008-C-1
Examination of Welds 2-SI-1124, 2-SI-1125, 2-SI-1126, and 2-SI-1124/1125 ELBOW	6.0	PT	X		X		X		ISI-0002-C-8

AUGMENTED EXAMINATIONS
 TABLE A
 (continued)

COMPONENT	PROGRAM REFERENCE SECTION	EXAM METHOD	CYCLE 7	CYCLE 8	CYCLE 9	CYCLE 10	CYCLE 11	CYCLE 12	REFERENCE DRAWING NUMBER
Examination of Welds 2-SI-1816A, 2-SI-1817A, 2-SI-1818A, and 2-SI-1816A/1817A ELBOW	6.0	PT		X		X		X	ISI-0002-C-9
Examination of Welds 2-SI-1894, 2-SI-1895, 2-SI-1896, and 2-SI-1895/1896 ELBOW	6.0	PT	X		X		X		ISI-0002-C-10
Examination of Welds 2-SI-1899, 2-SI-1900, 2-SI-1901, and 2-SI-1899/1900 ELBOW	6.0	PT		X		X		X	ISI-0002-C-11
Examination of Welds 2-CVC-1745, 2-CVC-1746, 2-CVC-1747, and 2-CVC-1745/1746 ELBOW	6.0	PT	X	X	X	X	X	X	ISI-0009-C-2

Attachment 12- Request For Relief (Unit 1)

Mechanical/Nuclear Engineering

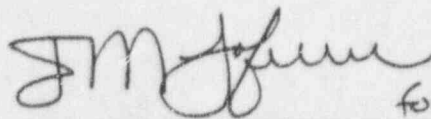
- A. MAINTAIN a listing of Requests for Relief.
- B. UPDATE listing as necessary.
- C. SIGN below.
- D. FORWARD to SPS for updating Table of Contents, etc.

SPS

- E. FORWARD to DCRM.

DCRM

- F. DISTRIBUTE per SSP-2.7.

 for m.lorek

Mechanical/Nuclear Engineering Manager/Designee

10/13/95

Date

REQUEST FOR RELIEF 1-ISI-1

Components: Reactor Vessel Flange to Upper Shell Weld

Class: ASME Code Class 1 (Equivalent)

Section XI Edition: 1989 Edition

Code Table: IWB-2500-1

Code Category: B-A

Code Item Number: B1.30

Code Requirement: ASME Section XI, Table IWB-2500-1, Examination Category B-A, Item No. B1.30, Volumetric Examination

Impractical Requirement: Classification of this weld as an reactor vessel flange-to-upper shell weld.

Basis for Relief: The reactor vessel flange-to-upper shell weld is located behind the core barrel and is therefore inaccessible until the core barrel is removed. The vessel flange-to-upper shell weld is 39 inches below the flange face. Due to the location of the vessel flange-to-upper shell weld, TVA intends to classify the weld as a reactor vessel shell weld. (Examination Category B-A, Item No. B1.11)

The Sequoyah Reactor Vessel Stress Report entitled Analysis of the Main Closure Including Core Support Ledge (Document No. 30616-1105) has been reviewed to determine a fatigue usage factor for the vessel flange to shell weld. This analysis does not provide a usage factor specifically for the weld because the analysis considers weld and base material to be homogeneous and equal in elasticity, strength, and fatigue properties. Instead, the analysis provides usage factors at critical locations.

REQUEST FOR RELIEF 1-ISI-1 (continued)

The maximum fatigue usage factor in the vessel in the vicinity of the flange to shell weld as found in the above analysis is 0.00662. This value can be conservatively used for the weld and is considered extremely low compared to the code allowed fatigue usage factor of 1.0.

Due to the distance (39") from the flange face to the flange-to-upper shell weld, limitations of present ultrasonic techniques, and the very low fatigue usage factor, the flange-to-upper shell weld should be classified as a reactor vessel shell weld.

Examinations Performed: A remote ultrasonic examination of the weld will be conducted from the vessel inside diameter near the end of the inspection interval.

Justification: The location of the flange face to the flange-to-upper shell weld coupled with present ultrasonic techniques and the very low fatigue usage factor justify that the flange-to-upper shell weld should be treated as a reactor vessel shell weld.

Conclusion: Based on the above justification, it is concluded that the classification of the weld as an reactor vessel flange to upper shell weld is impractical. TVA treating this weld as a reactor vessel shell weld and TVA's remote ultrasonic examination of the weld provides an acceptable level of quality and safety. Therefore, pursuant to 10CFR50.55a(g)(6)(i), it is recommended that relief be granted.

Back Ground Information:

This Request for Relief was submitted as ISI-10 for Unit 1 in the first interval and was approved with no additional augmented requirements.

Reference: Memorandum from F. J. Hebdon, NRC, to O. D. Kingsley, TVA, dated February 7, 1991 (A02 910214 009).

Second Interval Status:

Pending review by NRC.

Referenced in Program Section 2.7; Attachment 1, paragraph 1.1.A; and Attachment 4, Table A, B-A, B1.30.

Request for Relief 1-ISI-2

Components: Reactor Pressure Vessel Closure Head-to-Flange Weld

Class: ASME Code Class 1 (Equivalent)

Section XI Edition: 1989 Edition

Code Table: IWB-2500-1

Code Category: B-A

Code Item Number: B1.40

Code Requirement: ASME Section XI, Table IWB-2500-1, Examination Category B-A, Item No. B1.40, Volumetric and Surface Examination

Impractical Requirement: (1) Volumetric examination coverage and (2) not being permissible to defer the volumetric and surface examination to the end of the interval.

Basis for Relief:

(1) The design configuration of the closure head precludes full ultrasonic (UT) examination of the reactor pressure vessel (RPV) closure head-to-flange weld [W08-09]. Examination of the closure head-to-flange weld is obstructed by lifting lugs (three) and the tapered portion of the flange. The design configuration allows for ultrasonic testing only approximately 50% of the required volume of coverage for the RPV closure head-to-flange weld.

(2) In the first interval TVA elected to examine the closure head-to-flange weld [W08-09] in three equal segments during the first, second, and third inspection periods respectively. In the second interval TVA will perform the entire circumference of the weld during one examination at the end of the interval. This will require the closure head shroud and accompanying insulation to be removed only one time. The closure head is highly radioactive and eliminating two shroud

Request for Relief 1-ISI-2 (continued)

removals would reduce the overall personnel radiation exposure considerably. Therefore, TVA request deferral of the volumetric and surface examination of the closure head-to-flange weld to the third inspection period of the second interval.

Examinations Performed:

TVA will perform a best-effort ultrasonic examination to achieve as much code coverage as possible and achieve meaningful results. In addition, TVA will perform a surface examination (MT) of essentially 100% of the closure head-to-flange weld area in the third inspection period.

Justification:

(1) The design configuration of the closure head precludes ultrasonic (UT) examination from the flange side of the closure head-to-flange weld. In order to examine the welds in accordance with the requirement, the reactor vessel would require extensive design modifications. TVA will perform a best-effort ultrasonic examination and a surface examination (MT) of essentially 100% of the closure head-to-flange weld area in the third inspection period.

(2) The closure head is highly radioactive and shroud removal is required to access the closure head-to-flange weld. Shroud removal is manpower intensive and eliminating two shroud removals would reduce personnel radiation exposure considerably. Therefore, TVA request deferral of the examination of the closure head-to-flange weld to the third inspection period of the second interval.

Conclusion:

Based on the above justifications, it is concluded that performing a volumetric examination of essentially 100% of the RPV closure head-to-flange weld is impractical. In addition, it is impractical to remove the RPV head shroud each inspection period to examine a portion of the RPV closure head-to-flange weld. TVA's surface examination and best effort volumetric examination of the RPV closure head-to-flange weld in the third period of the second interval will provide an acceptable level of quality and safety. Therefore pursuant to 10CFR 50.55a(g)(6i), it is recommended that relief be granted.

Background Information:

A Request for Relief for volumetric examination coverage limitations was submitted as ISI-18 for Unit 1 in the first interval and was approved with no additional augmented requirements.

Reference: Memorandum from F. J. Hebdon, NRC, to Dr. M. O. Medford, TVA, dated January 6, 1993 (A02 930108 005).

Second Interval Status:

Pending review by NRC.

Referenced in Program Section 2.7; and Attachment 4, Table A, B-A, B1.40.

Request for Relief 1-ISI-3

Components: Auxiliary Feedwater Piping

Class: ASME Code Class 3 (Equivalent)

Section XI Edition: 1989 Edition

Code Paragraph: IWD-1220.1

Code Requirement: Integral attachments of supports and restraints to components that are Nominal Pipe Size (NPS) 4" and smaller within the system boundaries of Examination Categories D-A, D-B and D-C of Table IWD-2500-1 shall be exempt from the visual examination VT-3, except for PWR Auxiliary Feedwater System.

Impractical Requirement: PWR Auxiliary Feedwater does not have a NPS exemption.

Basis for Relief: Later ASME Section XI Code (1991 Addenda) incorporated the exemption requirements for Auxiliary Feedwater System. The exemption includes piping NPS 1 and smaller and exemptions for vessels, pumps, and valves and their connections in piping NPS 1 and smaller.

Examinations Performed: TVA will perform examinations as required by the ASME Section XI code on the non-exempted ASME Code Class 3 PWR Auxiliary Feedwater System.

Justification: The Auxiliary Feedwater exemptions have been incorporated in later editions of the ASME Section XI code.

Conclusion: Based on the above justification, it is concluded that for no exemptions on the Auxiliary Feedwater system the code requirements are impractical. TVA's examinations on the ASME code Class 3 Auxiliary Feedwater System as required by the ASME Section XI code will provide an acceptable level of quality and safety. Therefore, pursuant to 10CFR50.55a(g)(6)(i), it is recommended that relief be granted.

Request for Relief 1-ISI-3 (continued)

Second Interval Status:

Pending review by NRC.

Referenced in Program Section 7.2.D.5 and 7.2.E.5.

Request for Relief 1-ISI-4

Components: Class 2 and 3 Pressure Retaining Components

Class: ASME Code Class 2 and 3 (Equivalent)

Section XI Edition: 1989 Edition

Code Section: IWC-1220 and IWD-1220

Code Requirement: Components and items exempted from examination

Impractical Requirement: Clarification on Nominal Pipe Size (NPS) criteria and the exemption of vessels, pumps and valves from examination.

Basis for Relief: Later Addenda of the code, 1989 Edition with 89 Addenda, added IWC-1220 footnote 2 and IWD-1220 footnote 1 "In piping is defined as having a cumulative inlet and a cumulative outlet pipe cross-sectional area neither of which exceeds the nominal OD cross-sectional area of the designated size".

Examinations Performed: TVA will perform examinations as required by the ASME Section XI code.

Justification: The 1989 Edition with 89 Addenda of the Code provides justification and clarification on exemptions from examinations by adding footnotes discussed above.

Conclusion: Based on the above justification it would be impractical to examine components that would be exempted due to the clarification on exemptions. TVA's examinations on the ASME Class 2 and 3 components as required by the ASME Section XI code will provide an acceptable level of quality and safety. Therefore, pursuant to 10CFR 50.55a (g)(6)(i), it is recommended that relief be granted.

Second Interval Status:

Pending review by NRC.

Referenced in Program Sections 7.2.B.3, 7.2.D.5 and 7.2.E.5.

Attachment 13- Request For Relief (Unit 2)

Mechanical/Nuclear Engineering

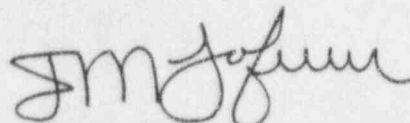
- A. MAINTAIN a listing of Requests for Relief.
- B. UPDATE listing as necessary.
- C. SIGN below.
- D. FORWARD to SPS for updating Table of Contents, etc.

SPS

- E. FORWARD to DCRM.

DCRM

- F. DISTRIBUTE per SSP-2.7.

 for M. Lorek
Mechanical/Nuclear Engineering Manager/Designee

10/13/95
Date

REQUEST FOR RELIEF 2-ISI-1

Components: Reactor Vessel Flange to Upper Shell Weld

Class: ASME Code Class 1 (Equivalent)

Section XI Edition: 1989 Edition

Code Table: IWB-2500-1

Code Category: B-A

Code Item Number: B1.30

Code Requirement: ASME Section XI, Table IWB-2500-1, Examination Category B-A, Item No. B1.30, Volumetric Examination

Impractical Requirement: Classification of this weld as an reactor vessel flange-to-upper shell weld.

Basis for Relief: The reactor vessel flange-to-upper shell weld is located behind the core barrel and is therefore inaccessible until the core barrel is removed. The vessel flange-to-upper shell weld is 41.9 inches below the flange face. Due to the location of the vessel flange-to-upper shell weld, TVA intends to classify the weld as a reactor vessel shell weld. (Examination Category B-A, Item No. B1.11)

The Sequoyah Reactor Vessel Stress Report entitled Analysis of the Main Closure Including Core Support Ledge (Document No. 30616-1105) has been reviewed to determine a fatigue usage factor for the vessel flange to shell weld. This analysis does not provide a usage factor specifically for the weld because the analysis considers weld and base material to be homogeneous and equal in elasticity, strength, and fatigue properties. Instead, the analysis provides usage factors at critical locations.

REQUEST FOR RELIEF 2-ISI-1 (continued)

The maximum fatigue usage factor in the vessel in the vicinity of the flange to shell weld as found in the above analysis is 0.00662. This value can be conservatively used for the weld and is considered extremely low compared to the code allowed fatigue usage factor of 1.0.

Due to the distance (41.9") from the flange face to the flange-to-upper shell weld, limitations of present ultrasonic techniques, and the very low fatigue usage factor, the flange-to-upper shell weld should be classified as a reactor vessel shell weld.

Examinations Performed: A remote ultrasonic examination of the weld will be conducted from the vessel inside diameter near the end of the inspection interval.

Justification: The location of the flange face to the flange-to-upper shell weld coupled with present ultrasonic techniques and the very low fatigue usage factor justify that the flange-to-upper shell weld should be treated as a reactor vessel shell weld.

Conclusion: Based on the above justification, it is concluded that the classification of the weld as an reactor vessel flange to upper shell weld is impractical. TVA treating this weld as a reactor vessel shell weld and TVA's remote ultrasonic examination of the weld provides an acceptable level of quality and safety. Therefore, pursuant to 10CFR50.55a(g)(6)(i), it is recommended that relief be granted.

Back Ground Information:

This Request for Relief was submitted as ISI-10 for Unit 2 in the first interval and was approved with no additional augmented requirements.

Reference: Memorandum from F. J. Hebdon, NRC, to O. D. Kingsley, TVA, dated February 7, 1991 (A02 910211 001).

Memorandum from Suzanne Black, NRC, to O. D. Kingsley, TVA, dated April 19, 1990 (A02 900426 005).

REQUEST FOR RELIEF 2-ISI-1 (continued)

Second Interval Status:

Pending review by NRC.

Referenced in Program Section 2.7; Attachment 1, paragraph 1.1.A; and Attachment 5, Table A, B-A, B1.30.

Request for Relief 2-ISI-2

Components: Reactor Pressure Vessel Closure Head-to-Flange Weld

Class: ASME Code Class 1 (Equivalent)

Section XI Edition: 1989 Edition

Code Table: IWB-2500-1

Code Category: B-A

Code Item Number: B1.40

Code Requirement: ASME Section XI, Table IWB-2500-1, Examination Category B-A, Item No. B1.40, Volumetric and Surface Examination

Impractical Requirement: (1) Volumetric examination coverage and (2) not being permissible to defer the volumetric and surface examination to the end of the interval.

Basis for Relief:

(1) The design configuration of the closure head precludes full ultrasonic (UT) examination of the reactor pressure vessel (RPV) closure head-to-flange weld [W08-09]. Examination of the closure head-to-flange weld is obstructed by lifting lugs (three) and the tapered portion of the flange. The design configuration allows for ultrasonic testing only approximately 50% of the required volume of coverage for the RPV closure head-to-flange weld.

(2) In the first interval TVA elected to examine the closure head-to-flange weld [W08-09] in three equal segments during the first, second, and third inspection periods respectively. In the second interval TVA will perform the entire circumference of the weld during one examination at the end of the interval. This will require the closure head shroud and accompanying insulation to be removed only one time. The closure head is highly radioactive and eliminating two shroud

Request for Relief 2-ISI-2 (continued)

removals would reduce the overall personnel radiation exposure considerably. Therefore, TVA request deferral of the volumetric and surface examination of the closure head-to-flange weld to the third inspection period of the second interval.

Examinations Performed:

TVA will perform a best-effort ultrasonic examination to achieve as much code coverage as possible and achieve meaningful results. In addition, TVA will perform a surface examination (MT) of essentially 100% of the closure head-to-flange weld area in the third inspection period.

Justification:

(1) The design configuration of the closure head precludes ultrasonic (UT) examination from the flange side of the closure head-to-flange weld. In order to examine the welds in accordance with the requirement, the reactor vessel would require extensive design modifications. TVA will perform a best-effort ultrasonic examination and a surface examination (MT) of essentially 100% of the closure head-to-flange weld area in the third inspection period.

(2) The closure head is highly radioactive and shroud removal is required to access the closure head-to-flange weld. Shroud removal is manpower intensive and eliminating two shroud removals would reduce personnel radiation exposure considerably. Therefore, TVA request deferral of the examination of the closure head-to-flange weld to the third inspection period of the second interval.

Conclusion:

Based on the above justifications, it is concluded that performing a volumetric examination of essentially 100% of the RPV closure head-to-flange weld is impractical. In addition, it is impractical to remove the RPV head shroud each inspection period to examine a portion of the RPV closure head-to-flange weld. TVA's surface examination and best effort volumetric examination of the RPV closure head-to-flange weld in the third period of the second interval will provide an acceptable level of quality and safety. Therefore pursuant to 10CFR 50.55a(g)(6i), it is recommended that relief be granted.

Background Information:

A Request for Relief for volumetric examination coverage limitations was submitted as ISI-18 for Unit 2 in the first interval and was approved with no additional augmented requirements.

Reference: Memorandum from F. J. Hebdon, NRC, to Dr. M. O. Medford, TVA, dated April 29, 1993 (A02 930503 002).

Second Interval Status:

Pending review by NRC.

Referenced in Program Section 2.7; and Attachment 5, Table A, B-A, B1.40.

Request for Relief 2-ISI-3

Components: Auxiliary Feedwater Piping

Class: ASME Code Class 3 (Equivalent)

Section XI Edition: 1989 Edition

Code Paragraph: IWD-1220.1

Code Requirement: Integral attachments of supports and restraints to components that are Nominal Pipe Size (NPS) 4" and smaller within the system boundaries of Examination Categories D-A, D-B and D-C of Table IWD-2500-1 shall be exempt from the visual examination VT-3, except for PWR Auxiliary Feedwater System.

Impractical Requirement: PWR Auxiliary Feedwater does not have a NPS exemption.

Basis for Relief: Later ASME Section XI Code (1991 Addenda) incorporated the exemption requirements for Auxiliary Feedwater System. The exemption includes piping NPS 1 and smaller and exemptions for vessels, pumps, and valves and their connections in piping NPS 1 and smaller.

Examinations Performed: TVA will perform examinations as required by the ASME Section XI code on the non-exempted ASME code Class 3 PWR Auxiliary Feedwater System.

Justification: The Auxiliary Feedwater exemptions have been incorporated in later editions of the ASME Section XI code.

Conclusion: Based on the above justification, it is concluded that for no exemptions on the Auxiliary Feedwater system the code requirements are impractical. TVA's examinations on the ASME code Class 3 Auxiliary Feedwater System as required by the ASME Section XI code will provide an acceptable level of quality and safety. Therefore, pursuant to 10CFR50.55a(g)(6)(i), it is recommended that relief be granted.

Request for Relief 2-ISI-3 (continued)

Second Interval Status:

Pending review by NRC.

Referenced in program section 7.2.D.5 and 7.2.E.5.

Request for Relief 2-ISI-4

Components: Class 2 and 3 Pressure Retaining Components

Class: ASME Code Class 2 and 3 (Equivalent)

Section XI Edition: 1989 Edition

Code Section: IWC-1220 and IWD-1220

Code Requirement: Components and items exempted from examination

Impractical Requirement: Clarification on Nominal Pipe Size (NPS) criteria and the exemption of vessels, pumps and valves from examination.

Basis for Relief: Later Addenda of the code, 1989 Edition with 89 Addenda, added IWC-1220 footnote 2 and IWD-1220 footnote 1 "In piping is defined as having a cumulative inlet and a cumulative outlet pipe cross-sectional area neither of which exceeds the nominal OD cross-sectional area of the designated size".

Examinations Performed: TVA will perform examinations as required by the ASME Section XI code.

Justification: The 1989 Edition with 89 Addenda of the Code provides justification and clarification on exemptions from examinations by adding footnotes discussed above.

Conclusion: Based on the above justification it would be impractical to examine components that would be exempted due to the clarification on exemptions. TVA's examinations on the ASME Class 2 and 3 components as required by the ASME Section XI code will provide an acceptable level of quality and safety. Therefore, pursuant to 10CFR 50.55a (g)(6)(i), it is recommended that relief be granted.

Second Interval Status:

Pending review by NRC.

Referenced in program sections 7.2.B.3, 7.2.D.5 and 7.2.E.5.