



WOLF CREEK GENERATING STATION

INSERVICE INSPECTION REPORT

Date of Report Completion: August 1990

Commercial Service Date: September 3, 1985
Operating Capacity: 3411 MWt
Refueling Outage: 4
Period: 2
Interval: 1

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INTRODUCTION

Wolf Creek Nuclear Operating Corporation is reporting the examinations, tests, and repairs/replacements conducted on ASME Class Components for Refueling Outage IV. These activities are performed to ensure the Structural Integrity of Safety Related components and to comply with both the Code of Federal Regulations and the ASME Code Section XI.

This report contains specific information pertaining to the following:

- Inservice Inspections
- System Pressure Testing
- Steam Generator Tube Inspection
- Repair/Replacement

NOTE: The Authorized Nuclear Inservice Inspector performing the ASME Code required third party inspection activity was Jeff Winkel, who is employed by Arkwright Mutual Insurance Company/Factory Mutual System of Norwood, MA.

INSERVICE INSPECTION (ISI)

The examinations performed for ISI are done per the ISI Program Plan. This Plan was developed by Nuclear Energy Services (NES) for Wolf Creek Generating Station (WCGS) and adheres to the requirements of ASME Section XI 1980 Ed. W'81 Add.

All volumetric (UT) and surface (PT or MT) examinations, except for those in the Refueling Water Storage Tank System and portions of the Residual Heat Removal System, were performed by Nuclear Energy Services. WCGS Quality Control personnel or their subcontractors performed the volumetric (UT) and surface (PT or MT) examinations of the Refueling Water Storage Tank and portions of the Residual Heat Removal System, plus one (1) volumetric (RT) and all visual examinations.

ISI examinations producing indications or limited examinations have been specifically identified and addressed in the "Exam Results" Section of this report.

SYSTEM PRESSURE TEST

The system pressure tests are also based on ASME Section XI 1980 Ed. W'81 Add. and were developed by WCGS Engineers. These tests were conducted on ASME Class 1, 2 and 3 Systems and received visual examination by WCGS Quality Control personnel.

Visual examinations to detect leakage are performed on pressure retaining welds. Class 1 welds in vessels are examined per Code Category B-E of Table IWB-2500-1. Nozzles to Class 2 vessels are examined per C-B of Table IWC-2500-1. All other pressure retaining welds in Class 1, 2, or 3 are visually examined per Code Category B-F of Table IWB-2500-1, Category C-H of Table IWC-2500-1 and Category D-A, D-B, and D-C of Table IWD-2500-1, respectively.

STEAM GENERATOR TUBE INSPECTION

The Steam Generator Tubes are inspected in accordance with WCGS Technical Specifications 4.4.5.

Westinghouse Electric Corporation personnel or their subcontractors performed the Eddy Current testing of the Steam Generator tubing.

REPAIR/REPLACEMENT

The Repairs, Replacements and/or Modifications of ASME Code Class 1, 2, and 3 components and component supports are worked in accordance with the Repair/Replacement Program.

Maintenance and Modifications personnel or their subcontractors performed the Repair/Replacement activities on ASME Class Components.

WCGS Quality Control personnel or their subcontractors performed the non-destructive examinations (NDE) required for Repair/Replacement items to re-establish baseline data for the ISI Program.

EXAM RESULTS**EXAM INDICATION:**

<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
BG-24-H002-261	VT3&4	FC	Constant Spring Support, Chemical and Volume Control System, Auxiliary Spray Regenerative Heat Exchanger to Pressurizer Auxiliary Spray Line.

Condition: The spring setting was found to be out of tolerance.

Corrective Action: An engineering evaluation determined these conditions were not ISI failures requiring subsequent examination. The spring settings were readjusted to within tolerance and the line was returned to service.

EXAM INDICATION:

<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
BG-24-H003-261	VT3&4	FC	Constant Spring Support, Chemical and Volume Control System, Auxiliary Spray Regenerative Heat Exchanger to Pressurizer Auxiliary Spray Line.

Condition: The spring setting was found to be out of tolerance.

Corrective Action: An engineering evaluation determined these conditions were not ISI failures requiring subsequent examination. The spring settings were readjusted to within tolerance and the line was returned to service.

EXAM INDICATION:

<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
EN-02-R004-121	VT-3	FC	Rigid Support, Containment Spray Pump "B" Discharge Line.

Condition: The pin at the welded beam attachment end was found to be missing a locking ring.

Corrective Action: This condition was classified as a failure per Program Plan 83A1714. Additional inspection was not required at this time since the sample plan acceptance limit was not exceeded for this examination group. A locking ring was installed and the line was returned to service.

EXAM RESULTS**EXAM INDICATION:**

<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
EP-01-S011-J	PT	BJ B9.32	Accumulator Safety Injection to Reactor Coolant System Loop 4, 2" Socket Weld to 6" Piping from Residual Heat Removal Pump "B".

Condition: Three (3) linear indications were found on the weld surface. All three (3) were sized and found acceptable; however, one of the three (3) indications does appear to be growing.

Corrective Action: Re-examine next refueling outage.

EXAM INDICATION:

<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
PEJ01A-SUP-1	PT	CC C3.30	Residual Heat Removal System Pump "A", Support Leg Integral Attachment.

Condition: Four (4) indications were found on the weld surface. All four (4) were sized and found acceptable with no indication of growth over previous examinations.

Corrective Action: Re-examine inspection period 3.

EXAM INDICATION:

<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
TBB03-LUG-C-W	VT-3	FA F1.10	Pressurizer Seismic Support Lug Weld.

Condition: The cold clearance gap for this lug was found to be less than the minimum required and metal gouging was discovered on the plates.

Corrective Action: None, the minimum cold clearance gap was an initial installation criteria for the Pressurizer and does not apply to ISI Examinations. The metal gouging was found structurally insignificant and determined to be acceptable.

EXAM RESULTS**LIMITED EXAM:**

<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
EBB01A-SEAM-5-W	UT	CA C1.10	Steam Generator "A" Upper Shell Section to Transition Cone Seam Weld.

Condition: Transducer lift off occurred on a 1" area between the weld and shell section. This lift off was observed completely around the weld and resulted in 13.6% of the Weld Required Volume (WRV) not being scanned with a 0° beam, 24.8% of the WRV not being scanned with a 60° beam and 30.8% of the WRV not being scanned with a 45° beam.

Corrective Action: None. Wolf Creek has been granted relief to examine this weld to the maximum extent practical.

LIMITED EXAM:

<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
TBB03-CIRCUM-1-W	UT	BB B2.11	Pressurizer Shell to Upper Head Weld.

Condition: Four (4) 2 1/2" X 2 1/2" integrally welded lugs restrict transducer movement on the shell side of the weld. This limits the Volumetric Examination by approximately 1% when using 45° and 60° shear wave angle beams.

Corrective Action: None. Wolf Creek invokes Code Case N-460 which has been approved by the NRC for use on this site. This code case establishes that an examination of 90% or more meets the intent of ASME Section XI requirements when permanent interference preclude a 100% examination.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

MAIN STEAM (AB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1697	AB-01-F020	UT	CF C5.21	Main Steam Loop 2, 32" Pipe Weld to Steam Generator "B" Outlet Nozzle.
83A1697	AB-01-F020-LD	UT	CF C5.22	Main Steam Loop 2, 32" Pipe Longitudinal Downstream Seam Weld to Steam Generator "B" Outlet Nozzle.
83A1697	AB-01-F099	UT	N/A N/A	Main Steam Loop 2, 28" Pipe Weld to Elbow.
83A1697	AB-01-F099-LD	UT	N/A N/A	Main Steam Loop 2, 28" Pipe Seam Weld Longitudinal Downstream at Elbow.
83A1697	AB-01-F108	UT	N/A N/A	Main Steam Loop 2, 28" Pipe Weld to Flued Head (P-3).
83A1697	AB-01-F108-LU	UT	N/A N/A	Main Steam Loop 2, Pipe Seam Weld Longitudinal Upstream.
83A1697	AB-01-S017-E	UT	N/A N/A	Main Steam Loop 2, 28" Elbow to Elbow Weld.

MAIN FEEDWATER (AE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1696	AE-04-F016	UT	N/A N/A	Main Feedwater Loop 2, 14" Elbow Weld to 14" Torsional Restraint.
83A1696	AE-04-F017	UT	N/A N/A	Main Feedwater Loop 2, 14" Torsional Restraint to Flow Element FE-520.
83A1696	AE-04-F018	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe Weld to Flow Element FE-520.
83A1696	AE-04-F019	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe Weld to Inlet of Valve FV40.
83A1696	AE-04-F020	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe Weld to Outlet of Valve FV40.
83A1696	AE-04-F021	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe to Pipe Weld.
83A1696	AE-04-F022	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe to Pipe Weld.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

MAIN FEEDWATER (AE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1696	AE-04-F024	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe to Flued Head (P-7) Weld.
83A1696	AE-04-F033	UT	N/A N/A	Main Feedwater Loop 2, 4" Elbow Weld at V124 to 4" Auxiliary Feedwater Line.
83A1696	AE-04-F040	UT	N/A N/A	Main Feedwater Loop 2, 4" Weldolet Weld to 4" Pipe Line.
83A1696	AE-04-F043	RT	N/A N/A	Main Feedwater Loop 2, 14" X 3" Weldolet to Valve V326.
83A1696	AE-04-FW314	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe to Pipe Weld.
83A1696	AE-04-FW315	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe to Flued Head (P-7) Weld.
83A1696	AE-04-FW900	UT	N/A N/A	Main Feedwater Loop 2, 14" X 3" Weldolet to 14" Pipe.
83A1696	AE-04-S014A	UT	N/A N/A	Main Feedwater Loop 2, 14" Pipe Weld to 14" X 4" Weldolet.
83A1696	AE-04-S022-A	UT	N/A N/A	Main Feedwater Loop 1, Handhole at Flow Element FE-510.
83A1696	AE-04-S023-B	UT	N/A N/A	Main Feedwater Loop 2, Handhole at Flow Element FE-520.
83A1696	AE-04-S026-A	UT	N/A N/A	Main Feedwater Loop 2, 4" Pipe Weld to Elbow.
83A1696	AE-04-S026-B	UT	N/A N/A	Main Feedwater Loop 2, 4" Pipe Weld to Elbow.
83A1696	AE-04-S026-C	UT	N/A N/A	Main Feedwater Loop 2, 4" Pipe Weld to Elbow.
83A1696	AE-05-F001	UT	N/A N/A	Main Feedwater Loop 4, 14" Elbow Weld to Torsional Restraint.
83A1696	AE-05-F002	UT	N/A N/A	Main Feedwater Loop 4, 14" Weld at Flow Element FE-540 to Torsional Restraint.
83A1696	AE-05-F003	UT	N/A N/A	Main Feedwater Loop 4, 14" Pipe Weld to Flow Element FE-540.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

MAIN FEEDWATER (AE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1696	AE-05-F004	UT	N/A N/A	Main Feedwater Loop 4, 14" Pipe Weld to Valve FV42.
83A1696	AE-05-FW302	UT	N/A F/A	Main Feedwater Loop 4, 14" Pipe Weld to Valve FV42.
83A1696	AE-05-FW316	UT	N/A N/A	Main Feedwater Loop 4, 14" Pipe Weld to Pipe.
83A1696	AE-05-S023-A	UT	N/A N/A	Main Feedwater Loop 4, Flow Element FE-540 Handhole.
83A1696	AE-05-S023-B	UT	N/A N/A	Main Feedwater Loop 4, Flow Element FE-540 Handhole.

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-02-F001A	UT	BJ B9.11	Reactor Coolant System Pressurizer Safety Line, 6" Pipe to Pressurizer Safety Line Nozzle Safe End.
83A1700	BB-02-F005A	UT	BJ B9.11	Reactor Coolant System Pressurizer Safety Line, 6" Pipe to Pressurizer Safety Line Nozzle Safe End.
83A1700	BB-02-FW300	UT	BJ B9.11	Reactor Coolant System Pressurizer Safety Line, 6" Pipe 180° Return to Inlet Flange of Valve BB-8010B.
83A1700	BB-02-FW301	UT	BJ B9.11	Reactor Coolant System Pressurizer Safety Line, 6" Pipe 180° Return to Inlet Flange of Valve BB-8010A.
83A1700	BB-07-F001	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Flued Head to 2" Pipe.
83A1700	BB-07-F002	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Flued Head to 2" Elbow.
83A1700	BB-07-F-111	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe Weld Downstream of Valve BB-V209.
83A1700	BB-07-FW304	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pipe.
83A1700	BB-07-FW530	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" X 2 3/4" Tee to 2" Pipe.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-07-FW545	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pup Piece.
83A1700	BB-07-FW546	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pup Piece to 2" Elbow.
83A1700	BB-07-FW553	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 2 3/4" Tee.
83A1700	BB-07-OW002	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to Valve BB-V209.
83A1700	BB-07-V208-1	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Valve BB-V208 to 2" Pup Piece.
83A1700	BB-07-V208-2	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pup Piece to Valve BB-V208.
83A1700	BB-07-W543	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 2" X 3/4" Reducer.
83A1700	BB-07-W547	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Elbow to 2" Pipe
83A1700	BB-07-W548	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Elbow
83A1700	BB-11-F002	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to Flued Head (P-22).
83A1700	BB-11-FW300	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pipe.
83A1700	BB-11-FW500	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pup Piece to 2" Pipe.
83A1700	BB-11-FW501	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection. Containment Penetration, 2" X 2" X 3/4" Tee to 2" Pup Piece.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-11-FW505	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, Valve V-149 to 2" Pipe.
83A1700	BB-11-FW506	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to Valve V-149.
83A1700	BB-11-V148-1	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, Valve V-148 to 2" Pup Piece.
83A1700	BB-11-V148-2	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pup Piece to Valve V-148.
83A1700	BB-11-W504	UT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 2" X 3/4" Tee.
83A1708	EBB01A-SEAM-5-W	UT	CA C1.10	Steam Generator "A" Upper Shell Section to Transition Cone Seam Weld.
83A1708	EBB01B-SP-21A-(1-6)	UT	N/A N/A	Steam Generator "B" Support Pad Bolts at Tubesheet Flange.
83A1708	EBB01B-SP-21B-(1-6)	UT	N/A N/A	Steam Generator "B" Support Pad Bolts at Tubesheet Flange.
83A1708	EBB01B-SP-21C-(1-6)	UT	N/A N/A	Steam Generator "B" Support Pad Bolts at Tubesheet Flange.
83A1708	EBB01B-SP-21D-(1-6)	UT	N/A N/A	Steam Generator "B" Support Pad Bolts at Tubesheet Flange.
83A1708	EBB01C-1A-IR	UT	BD B3.140	Steam Generator "C" Primary Inlet Nozzle from RCS Piping Inner Radius Weld.
83A1708	EBB01C-1B-IR	UT	BD B3.140	Steam Generator "C" Primary Outlet Nozzle to RCS Piping Inner Radius Weld.
83A1708	EBB01C-SP-21A-(1-6)	UT	N/A N/A	Steam Generator "C" Support Pad Bolts at Tubesheet Flange.
83A1708	EBB01C-SP-21B-(1-6)	UT	N/A N/A	Steam Generator "C" Support Pad Bolts at Tubesheet Flange.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01C-SP-21C-(1-6)	UT	N/A N/A	Steam Generator "C" Support Pad Bolts at Tubesheet Flange.
83A1708	EBB01C-SP-21D-(1-6)	UT	N/A N/A	Steam Generator "C" Support Pad Bolts at Tubesheet Flange.
83A1700	PBB01A-FLYWHEEL	UT	N/A N/A	Reactor Coolant Pump "A" Pump Flywheel.
83A1700	PBB01B-FLYWHEEL	UT	N/A N/A	Reactor Coolant Pump "B" Pump Flywheel.
83A1700	PBB01C-FLYWHEEL	UT	N/A N/A	Reactor Coolant Pump "C" Pump Flywheel.
83A1700	PBB01D-FLYWHEEL	UT	N/A N/A	Reactor Coolant Pump "D" Pump Flywheel.
83A1709	TBB03-10B-C-IR	UT	BD B3.120	Pressurizer Safety Nozzle "C" Inner Radius.
83A1709	TBB03-10B-D-IR	UT	BD B3.120	Pressurizer Relief Nozzle "D" Inner Radius.
83A1709	TBB03-3-C-W	UT	BF B5.40	Pressurizer Safety Nozzle "C" Safe-End to Pipe Weld.
83A1709	TBB03-4-W	UT	BF B5.40	Pressurizer Relief Nozzle "D" Safe-End to Pipe Weld.
83A1709	TBB03-CIRCUM-1-W	UT	BB B2.11	Pressurizer Shell to Upper Head Weld.

CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BG-09-FW800	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe.
83A1700	BG-09-W691	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" X 1 1/2 " Reducer to 2" Pipe.
83A1700	BG-09-W724	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 2" 3/4" Tee.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BG-09-W738	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" X 2" X 3/4" Tee to 2" Pipe.
83A1700	BG-09-W791	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Orifice Flange FE-142 to 2" Pipe.
83A1700	BG-09-W792	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2' X 1 1/2" Reducer.
83A1700	BG-09-W793	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to Orifice Flange FE-142.
83A1700	BG-09-W799	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe.
83A1700	BG-09-W801	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Tee.
83A1700	BG-09-W873	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 1" Reducer.
83A1700	BG-09-W888	UT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pipe.
83A1698	BG-22-F021	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe Line Weld at BG HV8160.
83A1698	BG-22-F022	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe Line Weld at BG HV8160.
83A1698	BG-22-F029	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe to Elbow Weld.
83A1698	BG-22-F030	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe to Elbow Weld.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	BG-22-S018-A	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe Line Weld to Elbow.
83A1698	BG-22-S018-B	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe Line Weld to Elbow.
83A1698	BG-22-S018-C	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe Line Weld to Elbow.
83A1698	BG-22-S019-C	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe Line Weld to Elbow.
83A1698	BG-22-S019-D	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe Line Weld to Elbow.
83A1698	BG-22-S022-A	UT	N/A N/A	Chemical and Volume Control System Letdown, 3" Pipe Line Weld to Elbow.

STEAM GENERATOR BLOWDOWN (BM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1693	BM-01-FW314	UT	N/A N/A	Steam Generator "D" Blowdown 4" Elbow Weld to Containment Penetration Flued Head (P-9).

REFUELING WATER STORAGE (BN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
M-189-0359	BN-01-F032	UT	N/A N/A	Refueling Water Storage Tank 12" Supply Line to Valve BN HV003 Weld.
M-189-0359	BN-01-F032-LU	UT	N/A N/A	Refueling Water Storage Tank 12" Supply Line to Valve BN HV003 Longitudinal Upstream Pipe Seam Weld.
M-189-0359	BN-01-F050	UT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Insulating Flange Weld.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

REFUELING WATER STORAGE (BN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
M-189-0359	BN-01-F050-LU	UT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Insulating Flange Longitudinal Upstream Pipe Seam Weld.
M-189-0359	BN-01-S006-G	UT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Elbow Weld.
M-189-0359	BN-01-S006-G-LDI	UT	N/A N/A	Refueling Water Storage Tank Elbow Longitudinal Downstream Seam Inner Radius.
M-189-0359	BN-01-S006-G-LDO	UT	N/A N/A	Refueling Water Storage Tank Elbow Longitudinal Downstream Seam Outer Radius.
M-189-0359	BN-01-S006-G-LU	UT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Elbow Longitudinal Upstream Pipe Seam Weld.
M-189-0359	BN-01-S007-C	UT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Elbow Weld.
M-189-0359	BN-01-S007-C-LU	UT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Elbow Longitudinal Upstream Pipe Seam Weld.
M-189-0359	BN-01-S024-C	UT	N/A N/A	Refueling Water Storage Tank 14" Supply Line to Elbow Weld.
M-189-0359	BN-01-S024-C-LD	UT	N/A N/A	Refueling Water Storage Tank 14" Supply Line to Elbow Longitudinal Downstream Pipe Seam Weld.
M-189-0359	BN-01-S024-C-LU	UT	N/A N/A	Refueling Water Storage Tank 14" Supply Line to Elbow Longitudinal Upstream Pipe Seam Weld.

REACTOR VESSEL CLOSURE HEAD (CH)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1710	CH-101-104-B	UT	BA B1.22	Reactor Vessel Closure, Head Torus Assembly Meridional Weld Between 90° and 180°.
83A1710	CH-101-104-C	UT	BA B1.22	Reactor Vessel Closure, Head Torus Assembly Meridional Weld Between 0° and 90°.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-04-F008-B	UT	CF C5.21	Residual Heat Removal System to Safety Injection System Loop 2 and 3, 10" Pipe to 10" Elbow Weld.
83A1699	EJ-04-F008-B-LD	UT	CF C5.22	Residual Heat Removal System to Safety Injection System Loop 2 and 3, 10" Elbow Longitudinal Seam Weld Downstream.
83A1699	EJ-04-F008-B-LU	UT	CF C5.22	Residual Heat Removal System to Safety Injection System Loop 2 and 3, 10" Elbow Longitudinal Seam Weld Upstream.
83A1699	EJ-04-F017	UT	BJ B9.11	Safety Injection Pumps to Reactor Coolant System 6" Pipe Line to Check Valve 8841B.
83A1699	EJ-04-F021	UT	BJ B9.11	Residual Heat Removal "B" Train, 12" Pipe to Valve HV-8701B Weld.
83A1699	EJ-04-F026	UT	BJ B9.11	Residual Heat Removal "B" Train, 12" Pipe to Reactor Coolant System Hot Leg Loop 4 12" Nozzle Weld.
83A1699	EJ-04-S006-B	UT	CF C5.21	Residual Heat Removal to Safety Injection System Loop 2 and 3, 10" Pipe to Elbow Weld.
83A1699	EJ-04-S006-B-LD	UT	CF C5.22	Residual Heat Removal to Safety Injection System Loop 2 and 3, Longitudinal Weld Downstream of 10" Elbow to Pipe Weld.
83A1699	EJ-04-S006-B-LU	UT	CF C5.22	Residual Heat Removal to Safety Injection System Loop 2 and 3, Longitudinal Weld Upstream of 10" Elbow to 10" Pipe Weld.

SAFETY INJECTION (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-03-F016	UT	BJ B9.11	Loop 3 Hot Leg Recirc Nozzle to 6" Recirc Line Weld.
83A1695	F1-03-S015-B	UT	BJ B9.11	Loop 3 Hot Leg 6" Recirc Line to Elbow Weld.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

CONTAINMENT SPRAY (EN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
M-189-0359	EN-01-F009	UT	N/A N/A	Containment Spray Pump "A" Suction Nozzle to 14" Suction Header Weld.
M-189-0359	EN-01-F009-LU	UT	N/A N/A	Containment Spray Pump "A" Suction Nozzle to 14" Suction Header Longitudinal Upstream Seam Weld.
M-189-0359	EN-02-F004	UT	N/A N/A	Containment Recirc Sump 12" Line to Valve EN-V008 Weld.
M-189-0359	EN-02-F004-LU	UT	N/A N/A	Containment Recirc Sump 12" Line to Valve EN-V008 Longitudinal Upstream Seam Weld.
M-189-0359	EN-02-FW321	UT	N/A N/A	Containment Recirc Sump 12" Line to Elbow Weld.
M-189-0359	EN-02-FW321-LD	UT	N/A N/A	Containment Recirc Sump Line to Elbow Longitudinal Downstream Seam Weld.
M-189-0359	EN-02-FW323	UT	N/A N/A	Containment Recirc Sump 12" Line to Valve EN-V008 Weld.

ACCUMULATOR SAFETY INJECTION (EP)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-01-F022	UT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 4, 6" Piping from Residual Heat Removal Pump "B" Weld.
83A1694	EP-01-S013-B	UT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 4, 10" Pipe Weld to 10" X 10" X 6" Tee.
83A1694	EP-01-S013-C	UT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 4, 10" Pipe Weld to 10" X 10" X 6" Tee.
83A1694	EP-01-S013-K	UT	BJ B9.11	Residual Heat Removal to Accumulator Safety Injection 6" Pipe Weld to 10" X 10" X 6" Tee.
83A1694	EP-02-F008	UT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System 10" Elbow to Reactor Coolant System Piping Weld.

**EXAMINATION
ISI VOLUMETRIC EXAMS**

CONTAINMENT SPRAY (EN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-02-F009	UT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 2, 6" Pipe Weld to 10" X 10 X 6" Tee.
83A1694	EP-02-S003-F	UT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 2, 10" Pipe Weld to 10" X 10" X 6" Tee.

**EXAMINATION
ISI SURFACE EXAMS**

MAIN STEAM (AB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1697	AB-01-F020	PT	CF C5.21	Main Steam Loop 2, 32" Pipe Weld to Steam Generator "B" Outlet Nozzle.
83A1697	AB-01-F020-LD	PT	CF C5.22	Main Steam Loop 2, 32" Pipe Longitudinal Downstream Seam Weld to Steam Generator "B" Outlet Nozzle.
83A1697	AB-01-R008	MT	CC C3.20	Main Steam Loop 2, Integrally Welded Pipe Support Lugs.
83A1697	AB-01-R010	MT	CC C3.20	Main Steam Loop 2, Integrally Welded Pipe Support Lugs.

MAIN FEEDWATER (AE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1696	AE-04-FW315	PT	CF C5.21	Main Feedwater Loop 2, 14" Pipe to Flued Head (P-7) Weld.
83A1696	AE-04-R004	MT	CC C3.20	Main Feedwater Loop 2 Integrally Welded Lugs.
83A1696	AE-05-R002	MT	CC C3.20	Main Feedwater Loop 3 Pipe Support, Integrally Welded Lugs.
83A1696	AE-05-R021	MT	CC C3.20	Main Feedwater Loop 3 Pipe Support, Integrally Welded Lugs.
83A1696	AE-05-R022	MT	CC C3.20	Main Feedwater Loop 3 Pipe Support, Integrally Welded Lugs.

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-01-S101-13	PT	BJ B9.21	Reactor Coolant Loop 1, Cold Leg 3" Nozzle to 3" X 1 1/2" Reducer Pipe Weld.
83A1700	BB-01-S201-15	PT	BJ B9.21	Reactor Coolant Loop 2, Cold Leg 3" Nozzle to 3" X 1 1/2" Reducer Pipe Weld.

**EXAMINATION
ISI SURFACE EXAMS**

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-02-F001A	PT	BJ B9.11	Reactor Coolant System Pressurizer Safety Line, 6" Pipe to Pressurizer Safety Nozzle Safe End.
83A1700	BB-02-F005A	PT	BJ B9.11	Reactor Coolant System Pressurizer Safety Line, 6" Pipe to Pressurizer Safety Nozzle Safe End.
83A1700	BB-02-FW300	PT	BJ B9.11	Reactor Coolant System Pressurizer Safety Line, 6" Pipe 180° Return to Valve BB-8010B.
83A1700	BB-02-FW301	PT	BJ B9.11	Reactor Coolant System Pressurizer Safety Line, 6" Pipe 180° Return to Inlet Flange of Valve BB-8C10A.
83A1700	BB-07-F001	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Flued Head to 2" Pipe.
83A1700	BB-07-F002	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Flued Head to 2" Elbow.
83A1700	BB-07-FW524	PT	BJ B9.21	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pup Piece to 2" Pup Piece.
83A1700	BB-07-FW540	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe.
83A1700	BB-07-FW545	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pup Piece.
83A1700	BB-07-FW546	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pup Piece to 2" Elbow.
83A1700	BB-07-V208-1	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Valve BB-V208 to 2" Pup Piece.
83A1700	BB-07-V208-2	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pup Piece to Valve BB-V208.
83A1700	BB-07-W500	PT	BJ B9.21	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 1 1/2" Pipe to 1 1/2" Flange.
83A1700	BB-07-W541	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe.

**EXAMINATION
ISI SURFACE EXAMS**

REACTOR COOLANT (BE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-07-W544	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Tee.
83A1700	BB-07-W547	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Elbow to 2" Pipe.
83A1700	BB-07-W548	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Elbow.
83A1700	BB-11-F002	PT	N/A N/A	Reactor Coolant Pump "B", Seal Water Injection Containment Penetration 2" Pipe to Flued Head (P-22).
83A1700	BB-11-FW300	PT	N/A N/A	Reactor Coolant Pump "B", Seal Water Injection Containment Penetration 2" Pipe to 2" Pipe.
83A1700	BB-11-FW500	PT	N/A N/A	Reactor Coolant Pump "B", Seal Water Injection Containment Penetration 2" Pup Piece to 2" Pipe.
83A1700	BB-11-FW501	PT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" X 2" X 3/4" Tee to 2" Pup Piece.
83A1700	BB-11-FW505	PT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, Valve V-149 to 2" Pipe.
83A1700	BB-11-FW506	PT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to Valve V-149.
83A1700	BB-11-V148-1	PT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, Valve V-148 to 2" Pup Piece.
83A1700	BB-11-V148-2	PT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pup Piece to Valve V-148.
83A1700	BB-11-W504	PT	N/A N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 2" X 3/4" Tee.
83A1709	TBB03-3-C-W	PT	BF B5.40	Pressurizer Safety Nozzle "C" Safe-End to Pipe Weld.
83A1709	TBB03-4-W	PT	BF B5.40	Pressurizer Relief Nozzle "D" Safe-End to Pipe Weld.
83A1709	TBB03-LUG-C-W	PT	BH B8.20	Pressurizer Seismic Support Lug Weld.

**EXAMINATION
ISI SURFACE EXAMS**

CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BG-09-FW796	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Valve HV-8351D to 2" Pipe.
83A1700	BG-09-FW797	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to Valve HV-8351D.
83A1700	BG-09-FW800	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe.
83A1700	BG-09-W691	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" X 1 1/2" Reducer to 2" Pipe.
83A1700	BG-09-W724	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 2" X 3/4" Tee.
83A1700	BG-09-W738	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" X 2" X 3/4" Tee to 2" Pipe.
83A1700	BG-09-W791	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, Orifice Flange FE-142 to 2" Pipe.
83A1700	BG-09-W792	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 1 1/2" Reducer.
83A1700	BG-09-W793	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to Orifice Flange FE-142.
83A1700	BG-09-W799	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe.
83A1700	BG-09-W801	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Tee.
83A1700	BG-09-W873	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" X 1" Reducer.
83A1700	BG-09-W888	PT	N/A N/A	Reactor Coolant Pump "D" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pipe.

**EXAMINATION
ISI SURFACE EXAMS**

CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	BC-21-F013B	PT	BJ B9.21	Chemical and Volume Control System Normal Charging 3" Pipe Line Weld at Valve BB8378A.
83A1698	BG-21-F014A	PT	BJ B9.21	Chemical and Volume Control System Alternate Charging Line 3" Nozzle to Reactor Coolant System Loop 1 Cold Leg.
83A1698	BG-21-F024	PT	BJ B9.21	Chemical and Volume Control System Alternate Charging 3" Pipe Line at Valve BB8379B.
83A1698	BG-21-F025	PT	BJ B9.21	Chemical and Volume Control System Alternate Charging 3" Pipe Line at Valve BB8379A.
83A1698	BG-21-F026A	PT	BJ B9.21	Chemical and Volume Control System Alternate Charging 3" Pipe Line at Valve BB8379A.
83A1698	BG-21-F027A	PT	BJ B9.21	Chemical and Volume Control System Alternate Charging Line 3" Nozzle to Reactor Coolant System Loop 4 Cold Leg.

REFUELING WATER STORAGE (BN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
M-189-0359	BN-01-F032	PT	N/A N/A	Refueling Water Storage Tank 12" Supply Line to Valve BN HV003 Weld.
M-189-0359	BN-01-F032-LU	PT	N/A N/A	Refueling Water Storage Tank 12" Supply Line to Valve BN HV003 Longitudinal Upstream Pipe Seam weld.
M-189-0359	BN-01-F050	PT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Insulating Flange Weld.
M-189-0359	BN-01-F050-LU	PT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Insulating Flange Longitudinal Upstream Pipe Seam Weld.

**EXAMINATION
ISI SURFACE EXAMS**

REFUELING WATER STORAGE (BN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
M-189-0359	BN-01-S006-G	PT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Elbow Weld.
M-189-0359	BN-01-S006-G-LDI	PT	N/A N/A	Refueling Water Storage Tank 24" Elbow Longitudinal Downstream Seam Inner Radius.
M-189-0359	BN-01-S006-G-LDO	PT	N/A N/A	Refueling Water Storage Tank 24" Elbow Longitudinal Downstream Seam Outer Radius.
M-189-0359	BN-01-S006-G-LU	PT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Elbow Longitudinal Upstream Pipe Seam Weld.
M-189-0359	BN-01-S007-C	PT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Elbow Weld.
M-189-0359	BN-01-S007-C-LU	PT	N/A N/A	Refueling Water Storage Tank 24" Main Header to Elbow Longitudinal Upstream Pipe Seam Weld.
M-189-0359	BN-01-S024-C	PT	N/A N/A	Refueling Water Storage Tank 14" Supply Line to Elbow Weld.
M-189-0359	BN-01-S024-C-LD	PT	N/A N/A	Refueling Water Storage Tank 14" Supply Line to Elbow Longitudinal Downstream Pipe Seam Weld.
M-189-0359	BN-01-S024-C-LU	PT	N/A N/A	Refueling Water Storage Tank 14" Supply Line to Elbow Longitudinal Upstream Pipe Seam Weld.

RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-04-F008-B	PT	CF C5.21	Residual Heat Removal System to Safety Injection System Loop 2 and 3 10" Pipe to 10" Elbow Weld.
83A1699	EJ-04-F008-B-LD	PT	CF C5.22	Residual Heat Removal System to Safety Injection System Loop 2 and 3, 10" Elbow Longitudinal Seam Weld Downstream.
83A1699	EJ-04-F008-B-LU	PT	CF C5.22	Residual Heat Removal System to Safety Injection System Loop 2 and 3, 10" Elbow Longitudinal Seam Weld Upstream.

**EXAMINATION
ISI SURFACE EXAMS**

RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EJ-04-F017	PT	BJ B9.11	Safety Injection Pumps to Reactor Coolant System, 6" Pipe Line to Check Valve 8841B.
83A1699	EJ-04-F019	PT	CF C5.11	Residual Heat Removal System "B" Train, 12" Pipe to Flued Head (P-52).
83A1699	EJ-04-F019-LU	PT	CF C5.12	Residual Heat Removal System "B" Train, Longitudinal Weld Upstream of 12" Pipe to Flued Head (P-52).
83A1699	EJ-04-F021	PT	BJ B9.11	Residual Heat Removal System "B" Train, 12" Pipe to Valve HV-8701B Weld.
83A1699	EJ-04-F026	PT	BJ B9.11	Residual Heat Removal System "B" Train, 12" Pipe to Reactor Coolant System Hot Leg Loop 4 12" Nozzle Weld.
83A1699	EJ-04-S006-B	PT	CF C5.21	Residual Heat Removal System to Safety Injection System Loop 2 and 3, 10" Pipe to Elbow Weld.
83A1699	EJ-04-S006-B-LD	PT	CF C5.22	Residual Heat Removal System to Safety Injection System Loop 2 and 3, Longitudinal Weld Downstream of 10" Elbow to Pipe Weld.
83A1699	EJ-04-S006-B-LU	PT	CF C5.22	Residual Heat Removal System to Safety Injection System Loop 2 and 3, Longitudinal Weld Upstream of 10" Elbow to 10" Pipe Weld.
83A1699	PEJ-04-SUP-1	PT	CC C3.30	Residual Heat Removal System Pump "A", Support Leg Integral Attachment.

SAFETY INJECTION (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-03-BBV022-1	PT	BJ B9.21	Pressure Coolant Injection High Pressure Coolant Injection Boron Injection Tank Valve V022 to 1 1/2" Pup Piece.
83A1695	EM-03-F002	P.	BJ B9.21	High Head Emergency Core Cooling System 3" Main Header to Valve EM8815 Weld.

**EXAMINATION
ISI SURFACE EXAMS**

SAFETY INJECTION (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-03-F016	PT	BJ B9.11	Reactor Coolant System Loop 3 Hot Leg Recirc Nozzle to 6" Recirc Line Weld.
83A1695	EM-03-FW540	PT	BJ B9.21	Reactor Coolant System Loop 2 High Head Emergency Core Cooling System Injection Nozzle to 1 1/2" Injection Line Weld.
83A1695	EM-03-FW560	PT	BJ B9.21	Reactor Coolant System Loop 3 High Head Emergency Core Cooling System 1 1/2" Injection Line to Valve EM-V1109 Weld.
83A1695	EM-03-FW664B	PT	BJ B9.21	Reactor Coolant System Loop 3 High Head Emergency Core Cooling System 1 1/2" Injection Line Weld.
83A1695	EM-03-S003-E	PT	BJ B9.21	High Head Emergency Core Cooling System 3" Main Header to Elbow Weld.
83A1695	EM-03-S013-B	PT	BJ B9.32	Reactor Coolant System Loop 3 Hot Leg 2" Safety Injection Recirc Line to 2" X 4 1/2" Nipolet Weld.
83A1695	EM-03-S015-E	PT	BJ B9.11	Reactor Coolant System Loop 3 Hot Leg 6" Recirc Line to Elbow Weld.
83A1695	EM-05-W527	PT	BJ B9.21	Reactor Coolant System Loop 1 Hot Leg 2" Safety Injection Recirc Line to 2" X 2" X 1" Tee Weld.
83A1695	EM-05-W529	PT	BJ B9.21	Reactor Coolant System Loop 1 Hot Leg 2" Safety Injection Recirc Line to 2" X 2" X 1" Tee Weld.
83A1695	EM-05-W530	PT	BJ B9.21	Loop 1 Hot Leg 2" Safety Injection Recirc Line to 2" X 2" X 3/4" Tee Weld.

CONTAINMENT SPRAY (EN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
M-189-0359	EN-01-F009	PT	N/A N/A	Containment Spray Pump "A" Suction Nozzle to 14" Suction Header Weld.
M-189-0359	EN-01-F009-LU	PT	N/A N/A	Containment Spray Pump "A" Suction Nozzle to 14" Suction Header Longitudinal Upstream Seam Weld.

**EXAMINATION
ISI SURFACE EXAMS**

CONTAINMENT SPRAY (EN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
M-189-0359	EN-02-F004	PT	N/A N/A	Containment Recirc Sump 12" Line to Valve EN-V008 Weld.
M-189-0359	EN-02-F004-LU	PT	N/A N/A	Containment Recirc Sump 12" Line to Valve EN-V008 Longitudinal Upstream Seam Weld.
M-189-0359	EN-02-FW321	PT	N/A N/A	Containment Recirc Sump 12" Line to Elbow Weld.
M-189-0359	EN-02-FW321-LD	PT	N/A N/A	Containment Recirc Sump Line to Elbow Longitudinal Downstream Seam Weld.
M-189-0359	EN-02-FW323	PT	N/A N/A	Containment Recirc Sump 12" Line to Valve EN-V008 Weld.

ACCUMULATOR SAFETY INJECTION (EP)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-01-F022	PT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 4, 6" Piping from Residual Heat Removal Pump "B" Weld.
83A1694	EP-01-FW503A	PT	BJ B9.21	Accumulator Safety Injection to Reactor Coolant System Loop 4, Weld on Upstream side of 2" X 2" X 3/4" Tee on 2" Piping from Safety Injection Pumps.
83A1694	EP-01-S011-J	PT	BJ E9.32	Accumulator Safety Injection to Reactor Coolant System Loop 4, 2" Sockolet Weld to 6" Piping from Residual Heat Removal Pump "B".
83A1694	EP-C1-S013-B	PT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 4, 10" Pipe Weld to 10" X 10" X 6" Tee.
83A1694	EP-01-S013-C	PT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 4, 10" Pipe Weld to 10" X 10" X 6" Tee.
83A1694	EP-01-S013-K	PT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 4, 10" Pipe Weld to 10" X 10" X 6" Tee.

EXAMINATION
ISI SURFACE EXAMS

ACCUMULATOR SAFETY INJECTION (EP)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-01-V040-2	PT	BJ B9.21	Accumulator Safety Injection to Reactor Coolant System Loop 4, Weld on Downstream Side of Valve EP-V040.
83A1694	EP-02-F008	PT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 2, Weld on Downstream Side of 10" 45° Elbow at Reactor Coolant System Piping.
83A1694	EP-02-F009	PT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 2, Weld on Upstream Side of 10" X 10" X 6" Tee on 6" Piping.
83A1694	EP-02-S003-F	PT	BJ B9.11	Accumulator Safety Injection to Reactor Coolant System Loop 2, Weld on Upstream Side of 10" X 10" X 6" Tee on 10" Piping to Reactor Coolant System.
83A1694	EP-02-S005-B	PT	BJ B9.32	Accumulator Safety Injection to Reactor Coolant System Loop 2, 2" Sockolet Weld to 6" Piping from "A" Residual Heat Removal System Pump.
83A1694	EP-02-W509	PT	BJ B9.21	Accumulator Safety Injection to Reactor Coolant System Loop 2, Weld on Downstream Side of 2" X 2" X 3/4" Tee on 2" Piping from Safety Injection Pumps.
83A1694	EP-02-W510	PT	BJ B9.21	Accumulator Safety Injection to Reactor Coolant System Loop 2, Weld on Upstream Side of 2" X 2" X 3/4" Tee on 2" Piping from Safety Injection Pumps.

**EXAMINATION
ISI VISUAL EXAMS
(VT-1)**

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-02-8010A-b	VT-1	BG2 B7.70	Pressurizer Safety Valve Bonnet Bolting.
83A1700	BB-02-8010A-FL-b	VT-1	BG2 B7.70	Pressurizer Safety Valve Flange Bolting.
83A1700	BB-05-FE-417-FL-b	VT-1	BG2 B7.50	Reactor Coolant System Loop 1 RTD Line Flow Element Flange Bolting.
83A1700	BB-05-F0-1-FL-b	VT-1	BG2 B7.50	Reactor Coolant System Loop 1 RTD Line Flow Orifice Flange Bolting.
83A1700	BB-14-FE-437-FL-b	VT-1	BG2 B7.50	Reactor Coolant System Loop 3 RTD Line Flow Element Flange Bolting.
83A1700	BB-14-F0-3-FL-b	VT-1	BG2 B7.50	Reactor Coolant System Loop 3 RTD Line Flow Orifice Flange Bolting.

RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ04-HV-8701B-b	VT-1	BG2 B7.70	Residual Heat Removal Train "B" Suction Line from RCS Loop 4 Hot Leg Valve EJ-HV8701B Bolting.

SAFETY INJECTION (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM03-FE-925-FL-b	VT-1	BG2 B7.70	Boron Injection Tank Header to Reactor Coolant System Cold Leg 2 Flow Element FE-925 Bolting.

**EXAMINATION
ISI VISUAL EXAMS
(VT-1)**

ACCUMULATOR SAFETY INJECTION (EP)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP01-8818A-b	VT-1	BG2 B7.70	Residual Heat Removal to Accumulator Safety Injection Check Valve EP-8818A Bolting.
83A1694	EP02-8818B-b	VT-1	BG2 B7.70	Residual Heat Removal to Accumulator Safety Injection Check Valve EP-8818B Bolting.
83A1694	EP02-8956B-b	VT-1	BG2 B7.70	Accumulator Safety Injection to RCS Cold Leg Loop 2 Isolation Check Valve EP-8956B Bolting.
83A1694	EP02-BB-8948B-b	VT-1	BG2 B7.70	Accumulator Safety Injection to RCS Cold Leg Loop 2 Isolation Check Valve BB-8948B Bolting.

**EXAMINATION
ISI VISUAL EXAMS
(VT-2)**

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1710	CH-112-201-05	VT-2	BE B4.12	Reactor Pressure Vessel Closure Head Control Rod Drive Mechanism Penetration.
83A1710	CH-112-205-17	VT-2	BE B4.12	Reactor Pressure Vessel Closure Head Control Rod Drive Mechanism Penetration.
83A1710	CH-112-207-29	VT-2	BE B4.12	Reactor Pressure Vessel Closure Head Control Rod Drive Mechanism Penetration.
83A1710	CH-112-209-41	VT-2	BE B4.12	Reactor Pressure Vessel Closure Head Control Rod Drive Mechanism Penetration.
83A1710	CH-112-211-53	VT-2	BE B4.12	Reactor Pressure Vessel Closure Head Control Rod Drive Mechanism Penetration.
83A1710	CH-112-213-65	VT-2	BE B4.12	Reactor Pressure Vessel Closure Head Control Rod Drive Mechanism Penetration.
83A1710	RV-201-151-05-W	VT-2	BE B4.13	Reactor Pressure Vessel Instrument Penetration.
83A1710	RV-201-151-17-W	VT-2	BE B4.13	Reactor Pressure Vessel Instrument Penetration.
83A1710	RV-201-151-29-W	VT-2	BE B4.13	Reactor Pressure Vessel Instrument Penetration.
83A1710	RV-201-151-41-W	VT-2	BE B4.13	Reactor Pressure Vessel Instrument Penetration.
83A1710	RV-201-151-53-W	VT-2	BE B4.13	Reactor Pressure Vessel Instrument Penetration.
83A1709	TBB03-HTRS-1-W	VT-2	BE B4.20	Pressurizer Immersion Heater Penetration.
83A1709	TBB03-HTRS-13-W	VT-2	BE B4.20	Pressurizer Immersion Heater Penetration.
83A1709	TBB03-HTRS-25-W	VT-2	BE B4.20	Pressurizer Immersion Heater Penetration.
83A1709	TBB03-HTRS-37-W	VT-2	BE B4.20	Pressurizer Immersion Heater Penetration.
83A1709	TBB03-HTRS-49-W	VT-2	BE B4.20	Pressurizer Immersion Heater Penetration.
83A1709	TBB03-HTRS-61-W	VT-2	BE B4.20	Pressurizer Immersion Heater Penetration.
83A1709	TBB03-HTRS-73-W	VT-2	BE B4.20	Pressurizer Immersion Heater Penetration.

**EXAMINATION
ISI VISUAL EXAMS
(VT-3)**

MAIN STEAM (AB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	AB01-R002-251	VT-3	FC	Snubber Support, Main Steam System, Steam Generator "A" Main Steam Line.

MAIN FEEDWATER (AE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	AE05-R017-242	VT-3	FC	Snubber Support, Steam Generator "C" Feedwater Inlet Pipe.

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BB04-C006-241	VT-3	FC	Rigid Support, Pressurizer Spray Line.
83A1715	BB04-C010-241	VT-3	FC	Rigid Support, Pressurizer Spray Line.
83A1715	BB04-H005-241	VT-3	FC	Rigid Support, Pressurizer Spray Line.
83A1715	BB04-R012-251	VT-3	FC	Rigid Support, Pressurizer Spray Line.
83A1715	BB04-R017-261	VT-3	FC	Snubber Support, Reactor Coolant System, Cold Leg 2 Pressurizer Spray Line.
83A1715	BB06-R006-232	VT-3	FC	Snubber Support, Reactor Coolant System, Loop 2 Combined Resistance Temperature Detector Return Line.
83A1715	BB07-C007-231	VT-3	FC	Rigid Support, Seal Water to Reactor Coolant Pump "D".
83A1715	BB07-R009-231	VT-3	FC	Rigid Support, Seal Water to Reactor Coolant Pump "D".
83A1715	BB14-C001-232	VT-3	FC	Snubber Support, Reactor Coolant System Loop 3 Combined Resistance Temperature Detector Return Line.
83A1715	BB16-C002-232	VT-3	FB	Frame Support, Reactor Coolant System, Pressurizer Relief Tank to Containment Normal Sump.

**EXAMINATION
ISI VISUAL EXAMS
(VT-3)**

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BB16-H001-232	VT-3	FB	Frame Support, Reactor Coolant System, Pressurizer Relief Tank Drain to Reactor Coolant Drain Tank.
83A1700	CRDMPL-SUP-3	VT-3	FC C3.30	Seismic Support to Control Rod Drive Mechanism Platform.
83A1700	CRDMPL-SUP-4	VT-3	FC C3.30	Seismic Support to Control Rod Drive Mechanism Platform.
83A1710	RV-INTERIOR	VT-3	BN1 B13.10	Reactor Pressure Vessel Internal.
83A1709	TBB03-LUG-C-W	VT-3	FA F1.10	Pressurizer Seismic Support Lug Weld.

CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BG15-R010-112	VT-3	FC	Rigid Support, Chemical and Volume Control System Line from Boric Acid Transfer Pumps to Charging Pump Suction.
83A1715	BG21-C005-232	VT-3	FC	Rigid Support, Alternate Charging Water to Reactor Coolant System Loop 4.
83A1715	BG24-C504-232	VT-3	FC	Frame Support, Chemical and Volume Control System, Regenerative Heat Exchanger to Pressurizer Auxiliary Spray.
83A1715	BG24-C509-232	VT-3	FC	Frame Support, Chemical and Volume Control System, Regenerative Heat Exchanger to Pressurizer Auxiliary Spray.
83A1715	BG24-H502-231	VT-3	FC	Frame Support, Chemical and Volume Control System, Regenerative Heat Exchanger to Pressurizer Auxiliary Spray.
83A1698	EBG01-SUPPORT-1	VT-3	FA F1.30	Chemical and Volume Control Letdown Heat Exchanger Equipment Support.

**EXAMINATION
ISI VISUAL EXAMS
(VT-3)**

STEAM GENERATOR BLOW DOWN (BM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BM01-R017-231	VT-3	FC	Snubber Support, Steam Generator "D" Blowdown Line.
83A1715	BM03-R501-231	VT-3	FC	Frame Support, Steam Generator Blowdown System, Steam Generator "D" Drain from Containment Isolation Valve to Draindown Isolation Valves.
83A1715	BM17-R516-251	VT-3	FC	Snubber Support, Steam Generator "A" Sample/Blowdown Crossconnect Line.
83A1715	BM20-R506-241	VT-3	FC	Snubber Support, Steam Generator "D" Blowdown Sample Line.
83A1715	BM20-R508-231	VT-3	FC	Snubber Support, Steam Generator Blowdown "D" Tubesheet Drain Line.

FUEL POOL COOLING AND CLEAN UP (EC)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EC04-R035-611	VT-3	FC	Rigid Support, Train "B" Fuel Pool Cooling Pump Discharge Line.

ESSENTIAL SERVICE WATER (EF)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EF05-R013-131	VT-3	FC	Rigid Support, Essential Service Water System, Train "B" Component Cooling Water Heat Exchanger Return Line.
83A1715	EF05-R017-141	VT-3	FC	Rigid Support, Essential Service Water System, Train "B" Containment Spray Pump Room Cooler Supply Line.
83A1715	EF05-R019-111	VT-3	FC	Rigid Support, Essential Service Water System, Train "B" Return Header from Class IE Switchgear A/C Condenser and Diesel Generator Cooler.

**EXAMINATION
ISI VISUAL EXAMS
(VT-3)**

ESSENTIAL SERVICE WATER (EF)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EF06-C053-142	VT-3	FC	Rigid Support, Essential Service Water System, Train "B" Control Room A/C Condenser Return Line.
83A1715	EF08-H001-511	VT-3	FB	Rigid Support, Essential Service Water Train "A", Return Header From Class IE Switchgear A/C Condenser and Diesel Generator Coolers.
83A1715	EF15-C005-341	VT-3	FC	Rigid Support, Essential Service Water System, Train "B" Class IE Switchgear A/C Condenser Return Line.

COMPONENT COOLING WATER (EG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EG07-C003-134	VT-3	FC	Rigid Support, Component Cooling Water System Train "A" Supply Header.
83A1715	EG17-R006-241	VT-3	FC	Rigid Support, Component Cooling Water Return from Reactor Coolant Pump "D" Thermal Barrier Cooling Coil.
83A1715	EG17-R009-241	VT-3	FC	Rigid Support, Component Cooling Water Return from Reactor Coolant Pump "D" Motor Air Cooler.
83A1715	EG17-R015-241	VT-3	FC	Rigid Support, Component Cooling Water Return from Excess Letdown Heat Exchanger.
83A1715	EG24-H002-141	VT-3	FC	Rigid Support, Component Cooling Water Train "B" Return Header.
83A1715	EG24-R008-111	VT-3	FC	Rigid Support, Component Cooling Water System Train "B" Centrifugal Charging Pump Oil Cooler Supply Line.
83A1715	EG26-R002-142	VT-3	FC	Rigid Support, Component Cooling Water System Train "A" Supply Header to Safety Injection Pump Oil Cooler, Residual Heat Removal Pump Seal Cooler and Centrifugal Charging Pump Oil Cooler.

**EXAMINATION
ISI VISUAL EXAMS
(VT-3)**

RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EJ04-R012-231	VT-3	FC	Snubber Support, Residual Heat Removal System, Reactor Coolant System Hot Leg 4 to Residual Heat Removal Pump "B"
83A1699	PEJ01A-SUP-1	VT-3	FB F2.30	Residual Heat Removal Pump "A" Support Foot.
83A1699	TEJ01B-123	VT-3	FA F1.30	Residual Heat Removal Valve EJ-HV8811B Encapsulation Tank Support.

SAFETY INJECTION (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EM02-H004-134	VT-3	FC	Rigid Support, High Pressure Safety Injection System, Discharge Line from the Boron Injection Tank.
83A1715	EM03-C008-232	VT-3	FC	Rigid Support, Safety Injection to Header for Reactor Coolant Loops 2 & 3 Cold Leg.
83A1715	EM03-C035-232	VT-3	FC	Rigid Support, Safety Injection to Reactor Coolant Loop 4 Cold Leg.
83A1715	EM03-C047-231	VT-3	FC	Rigid Support, Safety Injection to Reactor Coolant Loop 4 Cold Leg.
83A1715	EM05-C008-231	VT-3	FC	Rigid Support, Safety Injection to Reactor Coolant Loop 4 Hot Leg.
83A1715	EM05-R004-231	VT-3	FC	Snubber Support, High Pressure Coolant Injection System, Safety Injection to Loop 4.
83A1695	TEM01-SUPPORT-2	VT-3	FA F1.30	Boron Injection Tank Support.
83A1695	TEM01-SUPPORT-3	VT-3	FA F1.30	Boron Injection Tank Support.

**EXAMINATION
ISI VISUAL EXAMS
(VT-3)**

CONTAINMENT SPRAY (EN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EN02-R004-121	VT-3	FC	Rigid Support, Containment Spray Pump "B" Discharge Line.

ACCUMULATOR SAFETY INJECTION (EP)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP01-8818A-SURF	VT-3	BM2 B12.50	Residual Heat Removal to Accumulator Safety Injection Check Valve EP-8818A Internal Surfaces.
83A1715	EP01-R009-231	VT-3	FC	Rigid Support, Accumulator Safety Injection Tank "A" Discharge to Reactor Coolant Loop 1 Cold Leg.
83A1715	EP01-R019-231	VT-3	FC	Snubber Support, Accumulator Safety Injection/Accumulator to Reactor Coolant System Cold Leg 4.
83A1694*	EP02-BB8948B-SURF	VT-3	BM2 B12.50	Accumulator Safety Injection to Reactor Coolant System Cold Leg Loop 2 Isolation Check Valve Internal Surface.
83A1715	EP02-R004-232	VT-3	FC	Snubber Support, Accumulator Safety Injection System, Accumulator Tank "B" Discharge into Reactor Coolant System Loop 2 Cold Leg.
83A1715	EP02-R006-232	VT-3	FC	Snubber Support, Accumulator Safety Injection System, Accumulator Tank "B" Discharge into Reactor Coolant System Loop 2 Cold Leg.
83A1715	EP02-R007-232	VT-3	FC	Snubber Support, Accumulator Safety Injection System, Accumulator Tank "B" Discharge into Reactor Coolant System Loop 2 Cold Leg.
83A1715	EP02-R021-232	VT-3	FC	Snubber Support, Accumulator Safety Injection into Reactor Coolant System Loop 3 Cold Leg.
83A1694	TEP01C-SEAM-5-W	VT-3	FA F1.30	Accumulator Safety Injection Tank "C" Support Skirt to Bottom Head Weld.

* EP02-BB8948B-SURF VT-3 examination was substituted for EP01-8956A-SURF VT-3.

**EXAMINATION
ISI VISUAL EXAMS
(VT-3)**

CONTAINMENT COOLING (GN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	GN01-H005-252	VT-3	FC	Rigid Support, Containment Cooler "C" Return to Essential Service Water.
83A1715	GN02-C006-231	VT-3	FC	Rigid Support, Containment Cooler "D" Supply from Essential Service Water.

LIQUID RADWASTE (HB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	HB24-R015-231	VT-3	FC	Snubber Support, Liquid Radwaste System, Reactor Coolant System Loop 1 to Reactor Coolant Drain Tank Line.

DIESEL A and B PIPING (KJ, JE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	KJ01-R008-511	VT-3	FC	Rigid Support, Exhaust Line to Silencer For "A" Diesel Generator.

**EXAMINATION
ISI VISUAL EXAMS
(VT-3&4)**

CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BG21-H008-231	VT3&4	FC	Variable Spring Support, Chemical and Volume Control System, Reactor Coolant System Alternate Charging to Cold Leg 4.
83A1715	BG22-H007-232	VT3&4	FC	Variable Spring Support, Chemical and Volume Control System, Reactor Coolant System Letdown from Loop 3 Crossover Leg.
83A1715	BG24-H002-261	VT3&4	FC	Constant Spring Support, Chemical and Volume Control System, Auxiliary Spray Regenerative Heat Exchanger to Pressurizer Auxiliary Spray Line.
83A1715	BG24-H003-261	VT3&4	FC	Constant Spring Support, Chemical and Volume Control System, Auxiliary Spray Regenerative Heat Exchanger to Pressurizer Auxiliary Spray Line.

STEAM GENERATOR BLOW DOWN (BM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT & SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BM20-H501-251	VT3&4	FC	Variable Spring Support, Steam Generator "D" Blowdown Sample Line.

FORM NIS-1 (back)

8. Examination Dates 01/06/88 to 05/11/90 9. Inspection Interval from 09/03/85 to 09/02/95

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

See Examination Section in the ISI Summary Report.

11. Abstract of Conditions Noted

See Examination Results Section in the ISI Summary Report.

12. Abstract of Corrective Measures Recommended and Taken

See Examination Results Section in the ISI Summary Report.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date Aug 10 19 90 Signed Wolf Creek Nuclear Operating Corporation By [Signature]
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Kansas and employed by * of Norwood, MA have inspected the components described in this Owners' Data Report during the period 01/06/88 to 05/11/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date AUG 10 19 90
[Signature] Commissions KS# 299 (NB#9752)
Inspector's Signature National Board, State, Province and No.

* Arkwright Mutual Insurance Company/Factory Mutual System

STEAM GENERATOR TUBE INSERVICE INSPECTION

The third steam generator tube inservice inspection of steam generators was completed by Westinghouse Electric Corporation on April 4, 1990, during Refueling Outage IV. This inspection included Steam Generators "B" and "D". This was the second inservice inspection of the Steam Generator "D" and the third for Steam Generator "B".

During the Steam Generator Eddy Current inspection performed, a total of 6374 tubes were inspected, 3205 in Steam Generator "B" and 3169 in Steam Generator "D". This included 32 tubes which required re-inspection due to previously identified indications. Of these 32 tubes, seven were in Steam Generator "B" and 25 were in Steam Generator "D".

The results of the third inspection showed 15 tubes in Steam Generator "B" and 57 tubes in Steam Generator "D" that had indications greater than 20% (degraded) and must be inspected during the next inspection of these steam generators. The following defective tubes were plugged as a result of this inspection:

	<u>Row</u>	<u>Column</u>
Steam Generator "B"	None	None
Steam Generator "D"	50 45	66 101

Steam Generator "B" now has 4 plugged tubes. Steam Generator "D" now has 19 plugged tubes.

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NUMBR	BOARD NO.
AB-01-F020	Daniel International Corporation	N/A	N/A	N/A
AB-01-F020-LD	Daniel International Corporation	N/A	N/A	N/A
AB-01-F099	Daniel International Corporation	N/A	N/A	N/A
AB-01-F099-LD	Daniel International Corporation	N/A	N/A	N/A
AB-01-F108	Daniel International Corporation	N/A	N/A	N/A
AB-01-F108-LU	Daniel International Corporation	N/A	N/A	N/A
AB-01-R002-251	Pacific Scientific	1192	N/A	N/A
AB-01-R008	Daniel International Corporation	N/A	N/A	N/A
AB-01-R010	Daniel International Corporation	N/A	N/A	N/A
AB-01-S017-E	Dravo Corporation	15136	N/A	N/A
AE-04-F016	Daniel International Corporation	N/A	N/A	N/A
AE-04-F017	Daniel International Corporation	N/A	N/A	N/A
AE-04-F018	Daniel International Corporation	N/A	N/A	N/A
AE-04-F019	Daniel International Corporation	N/A	N/A	N/A
AE-04-F020	Daniel International Corporation	N/A	N/A	N/A
AE-04-F021	Daniel International Corporation	N/A	N/A	N/A
AE-04-F022	Daniel International Corporation	N/A	N/A	N/A
AE-04-F024	Daniel International Corporation	N/A	N/A	N/A
AE-04-F033	Daniel International Corporation	N/A	N/A	N/A
AE-04-F040	Daniel International Corporation	N/A	N/A	N/A
AE-04-F043	Daniel International Corporation	N/A	N/A	N/A
AE-04-FW314	Daniel International Corporation	N/A	N/A	N/A
AE-04-FW315	Daniel International Corporation	N/A	N/A	N/A
AE-04-FW900	Daniel International Corporation	N/A	N/A	N/A
AE-04-R004	Daniel International Corporation	N/A	N/A	N/A
AE-04-S014-A	Pullman Power Products	1-AE-04-S014/145	N/A	N/A
AE-04-S022-A	Permutit Company	N-1505	N/A	208
AE-04-S023-B	Permutit Company	N-1506	N/A	209
AE-04-S026-A	Pullman Power Products	1-AE-04-S026/145	N/A	N/A
AE-04-S026-B	Pullman Power Products	1-AE-04-S026/145	N/A	N/A
AE-04-S026-C	Pullman Power Products	1-AE-04-S026/145	N/A	N/A
AE-05-F001	Daniel International Corporation	N/A	N/A	N/A
AE-05-F002	Daniel International Corporation	N/A	N/A	N/A
AE-05-F003	Daniel International Corporation	N/A	N/A	N/A
AE-05-F004	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW302	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW316	Daniel International Corporation	N/A	N/A	N/A
AE-05-R002	Daniel International Corporation	N/A	N/A	N/A
AE-05-R017-242	Pacific Scientific	1972	N/A	N/A
AE-05-R021	Daniel International Corporation	N/A	N/A	N/A
AE-05-R022	Daniel International Corporation	N/A	N/A	N/A
AE-05-S023-A	Permutit Company	N-1508	N/A	N/A
AE-05-S023-B	Permutit Company	N-1508	N/A	N/A
BB-01-S101-13	Southwest Fabricating & Welding Company	15579	N/A	N/A
BB-01-S201-15	Southwest Fabricating & Welding Company	15583	N/A	N/A
BB-02-8010A-B	Crosby Valve & Gage Company	N60446-00-0002	N/A	538
BB-02-8010A-FL-B	Crosby Valve & Gage Company	Stud N91500-0013 thru 0024	N/A	538

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NUMBER	BOARD NO.
BB-02-F001A	Daniel International Corporation	N/A	N/A	N/A
BB-02-F005A	Daniel International Corporation	N/A	N/A	N/A
BB-02-FW300	Daniel International Corporation	N/A	N/A	N/A
BB-02-FW301	Daniel International Corporation	N/A	N/A	N/A
BB-04-C006-241	Bergen Paterson	1-BB04-C006/241	N/A	N/A
BB-04-C010-241	Bergen Paterson	1-BB04-C010/241	N/A	N/A
BB-04-H005-241	Bergen Paterson	1-BB04-H005/241	N/A	N/A
BB-04-R012-251	Bergen Paterson	1-BB04-R012/251	N/A	N/A
BB-04-R017-261	Pacific Scientific	8122	N/A	N/A
BB-05-FE-417-FL-B	A&G Eng (Studs) & Texas Bolt Company (Nuts)	HT# KDH, NH18	N/A	QSC455,NA
BB-05-FO-1-FL-B	A&G Eng (Studs) & Cartech Technology (Nuts)	HT# KDH, 10	N/A	QSC455,QSC
BB-06-R006-232	Bergen Paterson	1-BB06-R006/232	N/A	N/A
BB-07-OW002	Kansas Gas & Electric Company	N/A	N/A	N/A
BB-07-C007-231	Bergen Paterson	1-BB07-C007/231	N/A	N/A
BB-07-F-111	Daniel International Corporation	N/A	N/A	N/A
BB-07-F001	Daniel International Corporation	N/A	N/A	N/A
BB-07-F002	Daniel International Corporation	N/A	N/A	N/A
BB-07-FW304	Daniel International Corporation	N/A	N/A	N/A
BB-07-FW524	Daniel International Corporation	N/A	N/A	N/A
BB-07-FW530	Daniel International Corporation	N/A	N/A	N/A
BB-07-FW540	Daniel International Corporation	N/A	N/A	N/A
BB-07-FW545	Daniel International Corporation	N/A	N/A	N/A
BB-07-FW546	Daniel International Corporation	N/A	N/A	N/A
BB-07-FW553	Daniel International Corporation	N/A	N/A	N/A
BB-07-R009-231	Bergen Paterson	1-BB07-R009/231	N/A	N/A
BB-07-V208-1	Borg Warner	118	N/A	N/A
BB-07-V208-2	Borg Warner	127	N/A	N/A
BB-07-W500	Daniel International Corporation	N/A	N/A	N/A
BB-07-W541	Daniel International Corporation	N/A	N/A	N/A
BB-07-W543	Daniel International Corporation	N/A	N/A	N/A
BB-07-W544	Daniel International Corporation	N/A	N/A	N/A
BB-07-W547	Daniel International Corporation	N/A	N/A	N/A
BB-07-W548	Daniel International Corporation	N/A	N/A	N/A
BB-11-F002	Daniel International Corporation	N/A	N/A	N/A
BB-11-FW300	Daniel International Corporation	N/A	N/A	N/A
BB-11-FW500	Daniel International Corporation	N/A	N/A	N/A
BB-11-FW501	Daniel International Corporation	N/A	N/A	N/A
BB-11-FW505	Daniel International Corporation	N/A	N/A	N/A
BB-11-FW506	Daniel International Corporation	N/A	N/A	N/A
BB-11-V148-1	Borg Warner	129	N/A	N/A
BB-11-V148-2	Borg Warner	130	N/A	N/A
BB-11-W504	Daniel International Corporation	N/A	N/A	N/A
BB-14-C001-232	Pacific Scientific	14502	N/A	N/A
BB-14-FE-437-FL-B	A&G Eng (Studs) & Texas Bolt Company (Nuts)	HT# KDH, NH18	N/A	QSC455,NA
BB-14-FO-3-FL-B	A&G Eng (Studs) & Vitco Nuclear Products	HT# KDH, 5	N/A	QSC455,QSC
BB-16-C002-232	Daniel International Corporation	N/A	N/A	N/A
BB-16-H001-232	Daniel International Corporation	N/A	N/A	N/A
BG-09-FW796	Daniel International Corporation	N/A	N/A	N/A

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NUMBER	BOARD NO.
BG-09-FW797	Daniel International Corporation	N/A	N/A	N/A
BG-09-FW800	Daniel International Corporation	N/A	N/A	N/A
BG-09-W691	Daniel International Corporation	N/A	N/A	N/A
BG-09-W724	Daniel International Corporation	N/A	N/A	N/A
BG-09-W738	Daniel International Corporation	N/A	N/A	N/A
BG-09-W791	Daniel International Corporation	N/A	N/A	N/A
BG-09-W792	Daniel International Corporation	N/A	N/A	N/A
BG-09-W793	Daniel International Corporation	N/A	N/A	N/A
BG-09-W799	Daniel International Corporation	N/A	N/A	N/A
BG-09-W801	Daniel International Corporation	N/A	N/A	N/A
BG-09-W873	Daniel International Corporation	N/A	N/A	N/A
BG-09-W888	Daniel International Corporation	N/A	N/A	N/A
BG-15-R010-112	Bergen Paterson	1-BG15-R011/112	N/A	N/A
BG-21-C005-232	Corner & Lada	1-BG21-C005/232	N/A	N/A
BG-21-F013B	Daniel International Corporation	N/A	N/A	N/A
BG-21-F014A	Daniel International Corporation	N/A	N/A	N/A
BG-21-F024	Daniel International Corporation	N/A	N/A	N/A
BG-21-F025	Daniel International Corporation	N/A	N/A	N/A
BG-21-F026A	Daniel International Corporation	N/A	N/A	N/A
BG-21-F027A	Daniel International Corporation	N/A	N/A	N/A
BG-21-H008-231	Bergen Paterson	1-BG21-H008/231	N/A	N/A
BG-22-F021	Daniel International Corporation	N/A	N/A	N/A
BG-22-F022	Daniel International Corporation	N/A	N/A	N/A
BG-22-F029	Daniel International Corporation	N/A	N/A	N/A
BG-22-F030	Daniel International Corporation	N/A	N/A	N/A
BG-22-J007-232	Bergen Paterson	1-BG22-H007/232	N/A	N/A
BG-22-S018-A	Pullman Power Products	1-BG-22-S-018/231	N/A	N/A
BG-22-S018-B	Pullman Power Products	1-BG-22-S-018/231	N/A	N/A
BG-22-S018-C	Pullman Power Products	1-BG-22-S-018/231	N/A	N/A
BG-22-S019-C	Pullman Power Products	1-BG-22-S-019/231	N/A	N/A
BG-22-S019-D	Pullman Power Products	1-BG-22-S-019/231	N/A	N/A
BG-22-S022-A	Pullman Power Products	1-BG-22-S-022/231	N/A	N/A
BG-24-C504-232	ITT Grinnell	J5088 J6440	N/A	N/A
BG-24-C509-232	ITT Grinnell	85536 A9481	N/A	N/A
BG-24-H002-261	Bergen Paterson	1-BG24-H001/261	N/A	N/A
BG-24-H003-261	Bergen Paterson	A002193	N/A	N/A
BG-24-H502-231	ITT Grinnell	A9841 B5425	N/A	N/A
BM-01-FW314	Daniel International Corporation	N/A	N/A	N/A
BM-01-R017-231	Pacific Scientific	26142, 26135	N/A	N/A
BM-03-R501-231	Daniel International Corporation	N/A	N/A	N/A
BM-17-R516-251	Pacific Scientific	14515, 14517	N/A	N/A
BM-20-H501-251	Corner & Lada	1-BM20-H501/251	N/A	N/A
BM-20-R506-241	Pacific Scientific	19066	N/A	N/A
BM-20-R508-231	Pacific Scientific	19068	N/A	N/A
BN-01-F032	Daniel International Corporation	N/A	N/A	N/A
BN-01-F032-LU	Daniel International Corporation	N/A	N/A	N/A
BN-01-F050	Daniel International Corporation	N/A	N/A	N/A
BN-01-F050-LU	Daniel International Corporation	N/A	N/A	N/A

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NUMBR	BOARD NO.
BN-01-S006-G	Dravo Corporation	13427	N/A	N/A
BN-01-S006-G-LDI	Dravo Corporation	13427	N/A	N/A
BN-01-S006-G-LDO	Dravo Corporation	13427	N/A	N/A
BN-01-S006-G-LU	Dravo Corporation	13427	N/A	N/A
BN-01-S007-C	Dravo Corporation	13428	N/A	N/A
BN-01-S007-C-LU	Dravo Corporation	13428	N/A	N/A
BN-01-S024-C	Dravo Corporation	13442	N/A	N/A
BN-01-S024-C-LD	Dravo Corporation	13442	N/A	N/A
BN-01-S024-C-LU	Dravo Corporation	13442	N/A	N/A
CH-101-104-B	Combustion Engineering Incorporated	11373	N/A	22244
CH-101-104-C	Combustion Engineering Incorporated	11373	N/A	22244
CH-112-202-05	Combustion Engineering Incorporated	11373	N/A	22244
CH-112-205-17	Combustion Engineering Incorporated	11373	N/A	22244
CH-112-207-29	Combustion Engineering Incorporated	11373	N/A	22244
CH-112-209-41	Combustion Engineering Incorporated	11373	N/A	22244
CH-112-211-53	Combustion Engineering Incorporated	11373	N/A	22244
CH-112-213-65	Combustion Engineering Incorporated	11373	N/A	22244
CRDMPL-SUP-3	Speedway Machine & Tool Company	3	N/A	9
CRDMPL-SUP-4	Speedway Machine & Tool Company	4	N/A	9
EBB01A-SEAM-5-W	Westinghouse Electric Corporation	2274	N/A	W22174
EBB01B-SP-21A-1	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21A-2	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21A-3	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21A-4	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21A-5	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21A-6	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21B-1	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21B-2	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21B-3	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21B-4	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21B-5	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21B-6	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21C-1	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21C-2	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21C-3	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21C-4	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21C-5	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21C-6	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21D-1	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21D-2	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21D-3	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21D-4	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21D-5	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01B-SP-21D-6	Westinghouse Electric Corporation	2273	N/A	W22173
EBB01C-1A-IR	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-1B-IR	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21A-1	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21A-2	Westinghouse Electric Corporation	2272	N/A	W22172

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NUMBER	BOARD NO.
EBB01C-SP-21A-3	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21A-4	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21A-5	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21A-6	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21B-1	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21B-2	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21B-3	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21B-4	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21B-5	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21B-6	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21C-1	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21C-2	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21C-3	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21C-4	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21C-5	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21C-6	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21D-1	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21D-2	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21D-3	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21D-4	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21D-5	Westinghouse Electric Corporation	2272	N/A	W22172
EBB01C-SP-21D-6	Westinghouse Electric Corporation	2272	N/A	W22172
EBG01-SUPPORT-1	Richmond Engineering Company	N.2284.10	N/A	75455
EC-04-R035-611	Corner & Lada	1-EC04-R035/611	N/A	N/A
EF-05-R013-131	Bergen Paterson	1-EF05-R013/131	N/A	N/A
EF-05-R017-141	Corner & Lada	0-EF05-R017/141	N/A	N/A
EF-05-R019-111	Corner & Lada	0-EF05-R019/111	N/A	N/A
EF-06-C053-142	ITT Grinnell	A7986	N/A	N/A
EF-08-H001-511	Corner & Lada	1-EF08-H001/511	N/A	N/A
EF-15-C005-341	Corner & Lada	0-EF15-C005/341	N/A	N/A
EG-07-C003-134	Bergen Paterson	1-EG07-C003/134	N/A	N/A
EG-17-R006-241	Corner & Lada	0-EG17-R006/241	N/A	N/A
EG-17-R009-241	Corner & Lada	1-EG17-R009/241	N/A	N/A
EG-17-R015-241	Bergen Paterson	1-EG17-R015/241	N/A	N/A
EG-24-H002-141	ITT Grinnell	A7976	N/A	N/A
EG-24-R008-111	ITT Grinnell	A7963	N/A	N/A
EG-26-R002-142	Corner & Lada	1-EG26-R002/142	N/A	N/A
EJ-04-F008-B	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F008-B-LD	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F008-B-LU	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F017	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F019	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F019-LU	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F021	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F026	Daniel International Corporation	N/A	N/A	N/A
EJ-04-HV-8701B-B	Plainville Mfg Co (Studs) & SPS Company (Nuts)	HT# 3613K13 & HT# 20268	N/A	N/A
EJ-04-R012-231	Pacific Scientific	2114	N/A	N/A
EJ-04-S006-B	Dravo Corporation	16943	N/A	N/A

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NUMBER	BOARD NO.
EJ-04-S006-B-LD	Dravo Corporation	16493	N/A	N/A
EJ-04-S006-B-LU	Dravo Corporation	16493	N/A	N/A
EM-02-H004-134	Bergen Paterson	1-BM01-H001/145	N/A	N/A
EM-03-BBV022-1	Borg Warner	55 & 56	N/A	N/A
EM-03-C008-232	Bergen Paterson	1-EM03-C008/232	N/A	N/A
EM-03-C035-232	Bergen Paterson	1-EM03-C035/232 D021276	N/A	N/A
EM-03-C047-231	Bergen Paterson	1-EM03-C047/231	N/A	N/A
EM-03-F002	Daniel International Corporation	N/A	N/A	N/A
EM-03-F016	Daniel International Corporation	N/A	N/A	N/A
EM-03-FE-925-FL-B	Vitco Nuclear Products (Studs) & Cartech (Nuts)	HT# S-16, 5 & 10	N/A	QSC453,454
EM-03-FW540	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW560	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW664B	Daniel International Corporation	N/A	N/A	N/A
EM-03-S003-E	Dravo Corporation	16147	N/A	N/A
EM-03-S013-B	Dravo Corporation	16150	N/A	N/A
EM-03-S015-B	Dravo Corporation	16151	N/A	N/A
EM-05-C008-231	Bergen Paterson	1-EM05-C008/231	N/A	N/A
EM-05-R004-231	Pacific Scientific	8110	N/A	N/A
EM-05-W527	Daniel International Corporation	N/A	N/A	N/A
EM-05-W529	Daniel International Corporation	N/A	N/A	N/A
EM-05-W530	Daniel International Corporation	N/A	N/A	N/A
EN-01-F009	Daniel International Corporation	N/A	N/A	N/A
EN-01-F009-LU	Daniel International Corporation	N/A	N/A	N/A
EN-02-F004	Daniel International Corporation	N/A	N/A	N/A
EN-02-F004-LU	Daniel International Corporation	N/A	N/A	N/A
EN-02-FW321	Daniel International Corporation	N/A	N/A	N/A
EN-02-FW321-LD	Daniel International Corporation	N/A	N/A	N/A
EN-02-FW323	Daniel International Corporation	N/A	N/A	N/A
EN-02-R004-121	ITT Grinnell	K4470, 9627	N/A	N/A
EP-01-8818A-B	Plainville Mfg Co (Studs) & Valley Toleco (Nuts)	HT# 3931K14 & HT# 91696	N/A	N/A
EP-01-8818A-SURF	Westinghouse Electric Corporation	06001CS990000D000W750018	N/A	W17572
EP-01-F022	Daniel International Corporation	N/A	N/A	N/A
EP-01-FW503A	Daniel International Corporation	N/A	N/A	N/A
EP-01-R009-231	Bergen Paterson	1-EP01-R009/231	N/A	N/A
EP-01-R019-231	Pacific Scientific	11678	N/A	N/A
EP-01-S011-J	Dravo Corporation	16424	N/A	N/A
EP-01-S013-B	Dravo Corporation	18709	N/A	N/A
EP-01-S013-C	Dravo Corporation	18709	N/A	N/A
EP-01-S013-K	Dravo Corporation	18709	N/A	N/A
EP-01-V040-2	Borg Warner	27835	N/A	N/A
EP-02-8818B-B	Plainville Mfg Co (Studs) & SPS Company (Nuts)	HT# L3931K14 & HT# 818174	N/A	N/A
EP-02-8956B-B	Plainville Mfg Co (Studs) & Valley Telco (Nuts)	HT# L4017K14 & HT# 20220	N/A	N/A
EP-02-BB8948B-B	Plainville Mfg Co (Studs) & Valley Telco (Nuts)	HT# L4017K14 & HT# 29939-2	N/A	N/A
EP-02-BB8948B-SURF	Westinghouse Electric Corporation	10001CS990000D000W750012	N/A	W18272
EP-02-F008	Daniel International Corporation	N/A	N/A	N/A
EP-02-F009	Daniel International Corporation	N/A	N/A	N/A
EP-02-R004-232	Pacific Scientific	6923	N/A	N/A
EP-02-R006-232	Pacific Scientific	11695	N/A	N/A

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NUMBER	BOARD NO.
EP-02-R007-232	Pacific Scientific	1384	N/A	N/A
EP-02-R021-232	Pacific Scientific	6906	N/A	N/A
EP-02-S003-F	Dravo Corporation	16139	N/A	N/A
EP-02-S005-B	Dravo Corporation	16141	N/A	N/A
EP-02-W509	Daniel International Corporation	N/A	N/A	N/A
EP-02-W510	Daniel International Corporation	N/A	N/A	N/A
GN-01-H005-252	ITT Grinnell	A6098	N/A	N/A
GN-02-C006-231	Corner & Lada	1-GN02-C006/231	N/A	N/A
HB-24-R015-231	Corner & Lada	1-HB24-R015/231	N/A	N/A
KJ-01-R008-511	Bergen Paterson	1-KJ01-R008/511	N/A	N/A
PBB01A-FLYWHEEL	Westinghouse Electric Corporation	2-9744D36G01	N/A	W26592
PBB01B-FLYWHEEL	Westinghouse Electric Corporation	2-9744D36G01	N/A	W26592
PBB01C-FLYWHEEL	Westinghouse Electric Corporation	3-9744D36G01	N/A	W26593
PBB01D-FLYWHEEL	Westinghouse Electric Corporation	4-9744D36G01	N/A	W26594
PEJ01A-SUP-1	Pacific Pump Division	2289-C	N/A	957
RV-201-151-05-W	Combustion Engineering Incorporated	11373	N/A	22244
RV-201-151-17-W	Combustion Engineering Incorporated	11373	N/A	22244
RV-201-151-29-W	Combustion Engineering Incorporated	11373	N/A	22244
RV-201-151-41-W	Combustion Engineering Incorporated	11373	N/A	22244
RV-201-151-53-W	Combustion Engineering Incorporated	11373	N/A	22244
RV-INTERIOR	Combustion Engineering Incorporated	11373	N/A	22244
TBB03-10B-C-IR	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-10B-D-IR	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-3-C-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-4-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-CIRCUM-1-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-HTRS-1-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-HTRS-13-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-HTRS-25-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-HTRS-27-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-HTRS-49-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-HTRS-61-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-HTRS-73-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TBB03-LUG-C-W	Westinghouse Electric Corporation	2281	N/A	W-20688
TEJ01B 123	Richmond Engineering Company	RCN-267	N/A	80139
TEM01-SUPPORT-2	Southwest Fabricating & Welding Company	0047	N/A	366
TEM01-SUPPORT-3	Southwest Fabricating & Welding Company	0047	N/A	366
TEP01C-SEAM-5-W	Southwest Fabricating & Welding Company	0074	N/A	438

REPAIR/REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EFHV87	Essential Service Water "A" train Rad Monitor Isolation Valve	Replacement	Removed valve, reworked and Reinstalled in system	87-002
ALHV0031	Essential Service Water to motor driven auxiliary feedwater pump "A" 6" butterfly valve	Replacement	Replaced disc/shaft assembly	88-015
KC011-S013	Essential Service Water "A" train warming line	Repair	Repair hole in bottom of spool by welding	88-077
BBFE417	Reactor Coolant System Loop 1 hot leg Resistance Thermal Detector manifold flow element	Replacement	Replaced flange bolting material	89-001
S/N 59503 S/N 59509	Spare bonnets for BBPCV455A & BBPCV456A	Modification	Machined bonnets to match valves installed in plant. Welded fittings to bonnet S/N 59503.	89-003
KJYS0001 A,B,C&D KJYS0002 A,B,C&D KJYS0003 A,B,C&D	Emergency Diesel Generator starting air wye-strainers	Replacement	Installed new code-stamped bonnet assemblies to replace originally supplied non-code parts.	89-005
KKJ01A	Emergency Diesel Generator "A"	Modification	Weld non-ASME supports to diesel engine skid	89-006
M018-0667-037/511 M018-0667-137/511	Emergency Diesel Generator pipe supports	Modification	Installed redesigned pipe supports per PMR 02826	89-007
EF03-S058/152 EF14-S009/341 EF15-S006/341	Control Room HVAC "A" supply line, Class IE Switchgear Room HVAC "A" & "B" supply lines	Replacement/ Modification	Removed and reinstalled S006. Modified S009 & S058 by adding flanges to allow removal of spools.	89-008
SGK04A & B SGK05A & B	Control Room and Class IE Switchgear Room HVAC units	Modification	Modified material and configuration of all vent and drain lines	89-009
PSA-1 S/N 20934	Spare Snubber	Replacement	Replaced damaged parts to rebuild snubbers.	89-010
JE02-C004/511 JE03-C004/511	Emergency Diesel Generator fuel oil pipe support	Modification	Trimmed excessively long beam to reduce safety hazard	89-011

REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
TKJ01A & B	Emergency Diesel Generator jacket water expansion tanks "A" & "B"	Modification	Added spacers to instrument flanges to correct level indications.	89-012
EF07-C001/311 EF07-C007/311	Essential Service Water supply and return line to Emergency Diesel Generator 1A cooler and 1E switchgear condenser pipe support	Modification/ Repair	Remove and reinstall pipe supports using revised clearance criteria. Repair 2 area on EF07-C007/311 gouged during installation.	89-014
KKJ01 A & B	Emergency Diesel Generators "A" & "B"	Modification	Fabricated and installed new instrumentation supports.	89-015
BM02-S016/232 BM03-DEB-2"	Steam Generator "C" blowdown drain line	Modification	Modified spool and line by rerouting to reduce chance of line blockage.	89-016
BM19-R514/232	Steam Generator "C" lower blowdown sample line pipe support	Replacement	Replaced snubber for testing purposes	89-017
JE02-R005/521	Emergency Diesel Generator fuel oil "A" train day tank standpipe support	Replacement	Replaced snubber for testing purposes	89-018
BG02-R003/111	Centrifugal Charging Pump "B" discharge piping support	Replacement	Replaced snubber for testing purposes	89-019
BM19-R510/242	Steam Generator "C" sample blowdown cross connect line pipe support	Replacement	Replaced snubber for testing purposes	89-020
BM18-C503/232	Steam Generator "B" tubesheet drain line support	Replacement	Replaced snubber for testing purposes	89-021
BG09-R532/133	Reactor Coolant Pump "C" seal water supply valve support	Replacement	Replaced snubber for testing purposes	89-022
AE04-R012/145	Steam Generator "A" Feedwater isolation valve pipe support	Replacement	Replaced snubber for testing purposes	89-023
AE05-R014/252	Steam Generator "C" Feedwater supply line support	Replacement	Replaced snubber for testing purposes	90-024
AB01-R010/242	Steam Generator "B" Main Steam discharge pipe support	Replacement	Replaced snubber for testing purposes	89-025

REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BB15-R004/231	Reactor Coolant System cold leg Loop 4 discharge line pipe support	Replacement	Replaced snubber for testing purposes	89-026
HB24-R009/232	Reactor Coolant System Loop 2 to Reactor Coolant Drain Tank piping support	Replacement	Replaced snubber for testing purposes	89-027
EM05-R007/231	Safety Injection Pump "B" to Reactor Coolant System hot let Loop 1 piping support	Replacement	Replaced snubber for testing purposes	89-028
BG01-R018/134	Charging pumps to regenerative HX isolation valve support	Replacement	Replaced snubber for testing purposes	89-029
EJ04-R018/231	Reactor Coolant System hot leg Loop 1 to Residual Heat Removal "A" piping support	Replacement	Replaced snubber for testing purposes	89-030
BB11-R001/232	Reactor Coolant Pump "B" seal water injection line pipe support	Replacement	Replaced snubber for testing purposes	89-031
EG03-R027/141	Component Cooling Water Pump "D" discharge piping support	Replacement	Replaced snubber for testing purposes	89-032
BM01-C018/231	Steam Generator "D" blowdown line pipe support	Replacement	Replaced snubber for testing purposes	89-033
FC02-R506/125	Auxiliary Feedwater Pump turbine drain line support	Replacement	Replaced snubber for testing purposes	89-034
EM03-R023/231	Boron injection to Reactor Coolant System cold leg Loop 1 pipe supports	Replacement	Replaced snubber for testing purposes	89-035
BB15-R012/231	Reactor Coolant System hot leg Loop 4 discharge line pipe support	Replacement	Replaced snubber for testing purposes	89-036
EF03-R017/122	Essential Service Water "A" train Auxiliary Building return line pipe support	Replacement	Replaced snubber for testing purposes	89-037

REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BM03-R511/232 BM03-R514/232 BM03-H509/232 BM03-C504/232	Steam Generator "C" blowdown line drain line pipe supports	Modification	Removed supports R511 & R514. Modified H509 by changing from variable support to sway strut. Installed new support C504.	89-038
BM19-R503/232	Steam Generator "C" tubesheet drain line pipe support	Modification	Removed welded beam attachment and relocated	89-039
EJ03-R003/112	Residual Heat Removal "A" miniflow line pipe support	Replacement	Replaced snubber for testing purposes	89-040
EJ03-R013/111	Residual Heat Removal "B" miniflow line pipe support	Replacement	Replaced snubber for testing purposes	89-041
EJ01-R023/132	Residual Heat Removal HX "A" discharge piping support	Replacement	Replaced snubber for testing purposes	89-042
BG03-R015/113	Letdown reheat HX outlet pipe support	Replacement	Replaced snubber for testing purposes	89-043
PSA-10 S/N 14507	Spare snubber	Replacement	Replaced damaged parts to rebuild snubber	89-044
BBFE 427	Reactor Coolant System Loop 2 hot leg Resistance Thermal Detector manifold flow element	Replacement	Replaced flange bolting material	90-001
BBFO-02	Reactor Coolant System Loop 2 cold leg Resistance Thermal Detector manifold flow orifice	Replacement	Replaced flange bolting material	90-002
BBFE 447	Reactor Coolant System Loop 4 hot leg Resistance Thermal Detector manifold flow element	Replacement	Replaced flange bolting material	90-003
BBFE 437	Reactor Coolant System Loop 3 hot leg Resistance Thermal Detector manifold flow element	Replacement	Replaced flange bolting material	90-004
BBFO-03	Reactor Coolant System Loop 3 cold leg Resistance Thermal Detector manifold flow orifice	Replacement	Replaced flange bolting material	90-005
BBFO-01	Reactor Coolant System Loop 1 cold leg Resistance Thermal Detector manifold flow orifice	Replacement	Replaced flange bolting material	90-006

REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EF06-S045/125 EF14-S002/341 EF15-S002/331 EFFT03 & EFFT04 EFPI93 & EFPI94 EF02-S025/124 EF02-S033/134 EF06-S009/125 EF06-S010 EF06-S017/125 EF06-S044/125	Essential Service Water "A" & "B" train supply piping and Essential Service Water "A" & "B" train return line instrumentation	Modification	Added chemical addition taps to supply lines and instrumentation to return lines.	90-007
EF01-C013/311	Essential Service Water "A" train supply line pipe support	Modification	Welded additional gusset plates to support	90-011
BBV110	Pressurizer LT 461/462 condensate pot vent	Replacement/Modification	Replaced BBV110 and welded 3 new tube supports to existing hangers	90-012
EP01-R013/231	Residual Heat Removal pump to accumulator injection line support			
BB05-C004/231	Resistance Thermal Detector manifold to return to crossover leg number 1 pipe support			
BB05-H004/231	Reactor Coolant System Loop 1 hot leg Resistance Thermal Detector manifold piping support			
K213-S158 K213-S159 K213-S160 EFFE-03 EFF0-03 EFHV85 KEF-H001/021	Essential Service Water "A" train return line	Modification	Modified Essential Service Water return line in valve pit to remove flow orifice, pipe support and butterfly valve and install flow element	90-013
GKV770	Control Room HVAC unit "B" cooling water inlet relief valve	Replacement	Replace valve disc and nozzle	90-014
K213-S163 K213-S164 K213-S165 EFFE04 EFF004 EFHV86 KEF-H002/021	Essential Service Water "B" train return line	Modification	Modified Essential Service Water return line in valve pit to remove flow orifice, pipe support and butterfly valve and install flow element	90-015

REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
SGK04B	Room HVAC unit "B" tee	Repair	Performed base metal repair on waterbox end flange face on inlet tee.	90-016
BBFO-04	Reactor Coolant System Loop 4 cold leg Resistance Thermal Detector manifold flow orifice	Replacement	Replaced flange bolting material.	90-017
EPO1-R011/231	Accumulator Tank "A" discharge piping support	Replacement	Replaced snubber and load pin	90-018
BG22-R024/242	Chemical and Volume Control System letdown orifice isolation valve support	Replacement	Replaced snubber for testing purposes	90-019
EJ02-R020/131	Residual Heat Removal Pump "B" discharge piping support	Replacement	Replaced snubber for testing purposes	90-020
AB01-R006/251	Steam Generator "A" Main Steam discharge pipe support	Replacement	Replaced snubber for testing purposes	90-021
EG07-R031/112	Positive Displacement Pump oil cooler Component Cooling Water discharge pipe support	Replacement	Replaced snubber for testing purposes	90-022
EM09-R506/114	Boron injection recirculation pump to Boron Injection Tank isolation valve support	Replacement	Replaced snubber for testing purposes	90-023
BG21-R004/232	Regenerative HX to Reactor Coolant System Loop 4 cold leg pipe support	Replacement	Replaced snubber for testing purposes	90-024
BGV198, 199, 200 201 & 202	Reactor Coolant Pumps "A," "B," "C," & "D" seal water injection throttle valves and combined Reactor Coolant Pump seal number 1 leak-off return throttle valve	Replacement/ Modification	Installed new design valves. Replaced short section of pipe on each side of valves. Added a coupling on downstream side of valve.	90-025
SGN01 B, C & D	Containment Coolers "B," "C," & "D"	Replacement	Replaced bolting at cooler to GN system piping flanges.	90-026
BB05-C007/231	Reactor Coolant System Loop 1 hot leg Resistance Thermal Detector manifold support	Modification	Weld tubing supports to existing pipe support	90-027

REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
SGN01A	Containment Cooler "A"	Repair/ Replacement/ Modification	Repaired two pinhole leaks in cooler coils and modified nine coils by adding couplings to allow retubing of coils. Replaced bolting on several coil to manifold flanges. Replaced 2 coil bundles with new parts.	90-028
BGV456	Reactor Coolant Pump seal water return line drain valve	Replacement	Replaced valve	90-029
EKJ03A	Emergency Diesel Generator "A" intercooler heat exchanger	Repair/ Replacement	Repaired damage to shell side inlet and outlet flanges by grinding, welding and machining. Replaced 5 stud bolts at heat exchanger packed flange.	90-030
BGV101	Seal water injection filter "A" inlet isolation	Replacement	Replaced valve disc	90-031
EJFE 619	Residual Heat Removal HX 1B to accumulator injection Loops 3 & 4 flow element	Replacement	Replaced flow element flange bolting material	90-033
BG8118	Positive Displacement Pump discharge relief valve	Replacement	Replaced valve disc insert and nozzle	90-034
EBB01B EBB01D	Steam Generators "B" & "D"	Modification	Replace primary manway bolts with studs and nuts	90-035
BG21-R005/232	Regenerative HX to Reactor Coolant System Loop 4 cold leg pipe support	Replacement	Replace 2 damaged snubbers	90-036
EJFE611	Residual Heat Removal Pump "B" discharge flow	Replacement	Replaced flow element flange bolting material	90-037
ENV068	Containment Spray Pump "B" suction header drain valve	Replacement	Replaced valve and upstream pipe spool	90-038
AB01-C010/145	Steam Generator "B" atmospheric relief valve isolation valve pipe support	Replacement	Replaced snubber for testing purposes	90-039
AE05-R002/242	Steam Generator "C" feedwater supply line support	Replacement	Replaced snubber for testing purposes	90-040

REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BB04-R017/261	Reactor Coolant System Loop 2 pressurizer spray line pipe support	Replacement	Replaced snubber for testing purposes	90-041
BG24-R508/242	Charging to pressurizer spray line pipe support	Replacement	Replaced snubber for testing purpose	90-042
BM02-R016/232	Steam Generator "C" blowdown line pipe support	Replacement	Replaced snubber for testing purpose	90-043
BM18-R513/232	Steam Generator "B" lower blowdown sample line pipe support	Replacement	Replaced snubber for testing purpose	90-044
EF05-R018-111	Centrifugal Charging Pump Room Cooler "B" return line support	Replacement	Replaced snubber for testing purpose	90-045
EJ03-C007/111	Residual Heat Removal supply to Safety Injection Pump "B" piping support	Replacement	Replaced snubber for testing purpose	90-046
EJ07-R502/231	Residual Heat Removal to Safety Injection System hot leg recirculation Loops 2 and 3 header drain line support	Replacement	Replaced snubber for testing purpose	90-047
EP02-R008/232	Safety Injection pump discharge to Reactor Coolant System cold leg Loop 3	Replacement	Replaced snubber for testing purpose	90-048
EFHV23	Essential Service Water "A" Service Water cross connect valve	Replacement	Replaced 2 damaged stud bolts on flange connection at EFHV23	90-049
BF8010A	Pressurizer Safety Relief Valve "A"	Replacement	Replaced valve for testing purposes	90-050
BBPCV456A	Pressurizer power operated relief valve	Replacement	Replaced solenoid	90-051
BGHV8357A	Centrifugal Charging Pump "A" discharge to seal water injection filters isolation valve	Replacement	Replaced valve and upstream piping	90-054

REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BGHV8357B	Centrifugal Charging Pump "B" discharge to seal water injection filters isolation valve	Replacement	Replaced valve, upstream pipe and reducer	90-055
BG-16u-BCB-1-1/2"	Positive Displacement Pump discharge to relief valve BG8118 piping	Replacement	Replace pipe and flange due to cracked weld	90-056
SGL09B	Safety Injection Pump "B" room cooler	Modification	Installed tube caps and jumpers to block off leaking tubes.	90-057
SGG04A&B	Fuel Handling Building HVAC	Modification/ Replacement	Replace supply and return lines up to first isolation valve and modified by adding flanges to allow removal of spools	90-058

RESULTS

Examinations resulted in a total of 9 exams with recordable indications (this does not include Geometric Reflectors in Ultrasonic Examinations). This is the information supplied for Items 11 and 12 of the Form NIS-1.

These are:

<u>ID#</u>	<u>COMPONENT</u>	<u>TYPE OF EXAM</u>	<u>RESULT</u>
Volumetric Exams:			
1-RV-107-121-A	Reactor Pressure Vessel Outlet Nozzle Loop A Nozzle to Shell Weld	UT	Three (3) indications discovered during exam*. All three found to be acceptable to ASME Section XI Table IWB-3512-1 Acceptance Criteria
1-RV-107-121-B	Reactor Pressure Vessel Outlet Nozzle Loop B Nozzle to Shell Weld	UT	Two (2) indications discovered during exam*. All found to be acceptable to ASME Section XI Table IWB-3512-1 Acceptance Criteria
1-RV-301-121-B	Reactor Pressure Vessel Outlet Nozzle Loop B Nozzle to Safe-End Weld	UT	One (1) indication discovered during exam*. This indication found to be acceptable to ASME Section XI Table IWB-3514-3 Acceptance Criteria
1-RV-107-121-C	Reactor Pressure Vessel Outlet Nozzle Loop C Nozzle to Shell Weld	UT	One (1) indication discovered during exam*. This indication found to be acceptable to ASME Section XI Table IWB-3512-1 Acceptance Criteria
1-RV-301-121-C	Reactor Pressure Vessel Outlet Nozzle Loop C Nozzle to Safe-End Weld	UT	Two (2) indications discovered during exam*. This indication was found to be acceptable to ASME Section XI Table IWB-3514-3 Acceptance Criteria

*All indications were compared to PSI Data. In no cases were new relevant indications identified or apparent growth in existing indications identified.

<u>ID#</u>	<u>COMPONENT</u>	<u>TYPE OF EXAM</u>	<u>RESULT</u>
1-RV-107-121-D	Reactor Pressure Vessel Outlet Nozzle Loop B Nozzle to Shell Weld	UT	Five (5) indications discovered during exam*. These indications found to be acceptable to ASME Section XI Table IWB-3512-1 Acceptance Criteria
1-RV-301-121-D	Reactor Pressure Vessel Outlet Nozzle Loop D Nozzle to Safe-End Weld	UT	Two (2) indications discovered during exam*. These indications found to be acceptable to ASME Section XI Table IWB-3514-3 Acceptance Criteria
Surface Exams:			
1-EP-01-S011-J	Safety Injection Test Line Connections to Accumulator Line Sockolet to Pipe Weld	PT	Three (3) indications detected during exam. All three found to be acceptable to ASME Section XI Table IWB-3514-3 Acceptance Criteria. This weld to be examined in Period 2.
1-PEJ01A-SUP-1	Residual Stress Removal Heat Exchanger A Integrally Attached Support Foot Weld	PT	Five (5) indications detected during exam. All found to be acceptable to ASME Section XI Table IWB-3514-3 Acceptance Criteria. This weld to be examined in Period 2.

*All indications were compared to PSI Data. In no cases were new relevant indications identified or apparent growth in existing indications identified.

ID#

COMPONENT

TYPE OF EXAM

RESULT