WOLF CREEK GENERATING STATION

P.O. Box 411, Burlington Kansas 66839

INSERVICE INSPECTION REPORT

Date of Report Completion: January 26, 1995

Commercial Service Date: September 3, 1985
Operating Capacity: 3565 MWt
Refueling Outage: 7
Interval: 1
Period: 3

Prepared By:

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INTRODUCTION

INTRODUCTION

Wolf Creek Nuclear Operating Corporation is reporting the examinations, tests, and repair/replacements conducted on ASME Class 1, 2, and 3 components for the seventh refueling outage. 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 Activity

NOTE: The Authorized Nuclear Inservice Inspector performing the ASME Code required third party inspection activity was Jeff Winkel, who was assisted by Carl Thompson and Gerald Mayher. They are employed by Arkwright Mutual Insurance Company/Factory Mutual Engineering Association of Norwood, MA.

Inservice Inspection (ISI)

The examinations performed for ISI are accomplished pursuant to the ISI Program Plan. It includes volumetric, surface and visual examinations. This plan adheres to the requirements of ASME Section XI, 1980 Edition, W'81 Addenda. The ISI Program Plan is administrated by Wolf Creek Generating Station (WCGS) Engineering Support - ASME Group.

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

System Pressure Testing

The system pressure tests are also based on ASME Section XI, 1980 Edition, W'81 Addenda. These tests were conducted on ASME Class 1, 2, and 3 systems and received visual (VT-2) examination by WCGS Quality Control personnel.

Steam Generator Tube Inspection

The steam generator tubes are inspected in accordance with WCGS Technical Specification 4.4.5.

Repair/Replacement

The repairs, replacements and/or modifications of ASME Code Class 1, 2 and 3 components and component supports are made in accordance with the Repair/Replacement Program.

WCGS Maintenance and Modifications personnel or their subcontractors performed the repair/replacement activities on ASME Code Class components.

WCGS Quality Control personnel or their subcontractors performed the nondestructive examinations (NDE) required for repair/replacement items to re-establish baseline data for the ISI Program.

EXAMINATION

RESULTS

EXAMINATION RESULTS

EXAM INDICATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-02-S027-C	PT	C-F	C5.11	Residual Heat Removal Heat Exchanger "B" Outlet Line, 10" Pipe to 10" Elbow

Condition: Three linear indications were found on the surface of the weld. All of the indications were sized and found acceptable. This examination was performed for growth and trending of these indications which were identified in the fifth refueling outage. No growth was apparent for any of the indications.

Corrective Action: None. The component will be inspected during the 2nd 10-Year Inspection Interval as defined by the Inservice Inspection Program

EXAM INDICATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-03-FW304	PT	C-F	C5.11	Residual Heat Removal Heat Exchanger "B" to Safety Injection Pump Suction, 8" Pipe to 8" Elbow

Condition: One linear indication was found on the surface of the weld. The indication was sized and found acceptable. This examination was performed for growth and trending of indications identified in the fifth refueling outage. However, the results were inconclusive.

Corrective Action: Re-examine in the eighth refueling outage for growth and trending.

EXAM INDICATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	PEJ01A-SUP-1	PT	C-C	C3.30	Residual Heat Removal Pump "A", Support Leg Integral Attachment

Condition: Four indications were found on the examination surface. All of the indications were sized and found acceptable with no indication of growth identified from previous examinations.

Corrective Action: None. The component will be inspected during the 2nd 10-Year Inspection Interval as defined by the Inservice Inspection Program.

EXAM INDICATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EEJ01A-SEAM-2-W	UT	C-A	C3.10	Residual Heat Removal Heat Exchanger "A" Channel to Head Weld

Condition: Laminar type reflector identified in weld. This indication was sized and found acceptable.

Corrective Action: None. Successive examination is not required (IWC-2420). The component will be inspected during the 2nd 10-Year Inspection Interval as defined by the Inservice Inspection Plan.

EXAM INDICATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BB-01-F104	PT	B-J	B9.11	Reactor Coolant Loop 1, 29" x 31" Elbow to Steam Generator A Inlet Nozzle

Condition: Linear indication identified in weld examination area. The indication was sized and found acceptable.

Corrective Action: None. Successive examination is not required (IWB-2420). The component will be inspected during the 2nd 10-Year Inspection Interval as defined by the Inservice Inspection Plan.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1694	EP-02-F022A	UT	N/A	N/A	Accumulator Safety Injection Loop 3, 6" Pipe to Valve EPV8818C

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 32.1% of the weld required volume cannot be examined in two beam directions for a perpendicular scan. However, the average coverage obtained from all beam angles and scan directions was approximately 92.0 percent.

Corrective Action: None. Wolf Creek invokes Code Case N-460 which has been approved by the NRC and incorporated for use on this site. This code case establishes that an examination with an average coverage of ninety percent or more meets the intent of ASME Section XI requirements when interferences preclude a one hundred percent examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1694	EP-02-FW303	UT	C-F	C5.21	Accumulator Safety Injection Loop 2, 10" Valve EPHV8808B to 10" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 84.6% of the weld required volume cannot be examined in two beam directions for the perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 78.9 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

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EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1697	EP-02-R020	PT	C-C	C3.20	Accumulator Safety Injection Loop 3, Integral Attachment - 8 Lugs

Condition: The surface examination of the subject weld is limited due to the obstruction of a hanger located adjacent to integral attachments. 29.4% of the required examination area for 4 of the 8 lugs cannot be examined.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1697	AB-01-S032-S	UT	N/A	N/A	Main Steam Loop 3, 12" Outlet on Main Steam Header to 12" Pipe

Condition: The volumetric examination of the subject weld is limited due to the obstruction of a weldolet adjacent to the weld. 8.9% of the weld required volume receives no angle beam coverage from a perpendicular scan. However, the average coverage obtained from all beam angles and scan directions was approximately 95.6 percent.

Corrective Action: None. Wolf Creek invokes Code Case N-460 which has been approved by the NRC and incorporated for use on this site. This code case establishes that an examination with an average coverage of ninety percent or more meets the intent of ASME Section XI requirements when interferences preclude a one hundred percent examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-FW691	UT	N/A	N/A	Charging Line, 3" Elbow to 3" Pipe

Condition: The volumetric examination of the subject weld is limited due to the obstruction of a box hanger located adjacent to the weld. 25.7% of the weld required volume cannot be examined in two beam directions for the perpendicular scan. However, the average coverage obtained from all beam angles and scan directions was approximately 93.6 percent.

Corrective Action: None. Wolf Creek invokes Code Case N-460 which has been approved by the NRC and incorporated for use on this site. This code case establishes that an examination with an average coverage of ninety percent or more meets the intent of ASME Section XI requirements when interferences preclude a one hundred percent examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-FW311	UT	N/A	N/A	Charging Line, Valve BGHV8106 to 3" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 46.4% of the weld required volume is examined in one beam direction, 0% of the weld required volume is examined in two beam directions for the perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 61.6 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-F023	UT	N/A	N/A	Charging Line, 3" Pipe to Valve BGHV8106

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 46.4% of the weld required volume is examined in one beam direction, 0% of the weld required volume is examined in two beam directions for the perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 61.6 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-F024	UT	N/A	N/A	Charging Line, Valve BGHV8105 to 3" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 46.4% of the weld required volume is examined in one beam direction, 0% of the weld required volume is examined in two beam directions for the perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 61.6 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-F025	UT	N/A	N/A	Charging Line, 3" Pipe to Valve BGHV8105

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 46.4% of the weld required volume is examined in one beam direction, 0% of the weld required volume is examined in two beam directions for the perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 61.6 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-FW322	UT	N/A	N/A	Charging Line, 3" Pipe to 3" Pipe

Condition: The volumetric examination of the subject weld is limited due to weld crown geometry causing lift off of the ultrasonic transducer. 36.3% of the weld required volume cannot be examined in two beam directions, 7.6% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 72.7 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-FW321	UT	N/A	N/A	Charging Line, 3" Pipe to 3" Pipe

Condition: The volumetric examination of the subject weld is limited due to weld crown geometry causing lift off of the ultrasonic transducer. 36.3% of the weld required volume cannot be examined in two beam directions, 7.6% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 72.7 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-F026	UT	N/A	N/A	Charging Line, 3" Pipe to 3" Pipe

Condition: The volumetric examination of the subject weld is limited due to weld crown geometry causing lift off of the ultrasonic transducer. 36.3% of the weld required volume cannot be examined in two beam directions, 7.6% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 72.7 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-FW313	UT	N/A	N/A	Charging Line, Flued Head (P-80) to 3" Pipe

Condition: The volumetric examination of the subject weld is limited due to weld crown geometry causing lift off of the ultrasonic transducer. 36.3% of the weld required volume cannot be examined in two beam directions, 7.6% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 72.7 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-02-S035-D-LU	UT	C-F	C5.22	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Upstream

Condition: The volumetric examination of the subject weld is limited due to the obstruction of a hanger located adjacent to the weld. 50% of the weld required volume cannot be examined by two beam path directions for the parallel scan. The average coverage obtained from all beam angles and scan directions was approximately 87.5 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-02-F051	UT	C-F	C5.21	Residual Heat Removal to Safety Injection System, 10" Pipe to Valve EJHV8840

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 68.3% of the weld required volume is examined in one beam direction, 18.5% of the weld required volume is examined in two beam directions. and 13.2% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 63.8 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-01-C013	PT	C-C	C3.20	Residual Heat Removal Train A, Integral Attachment - 8 Lugs

Condition: The surface examination of the subject weld is limited by the obstruction of small metal tabs welded to the component support clamp that these integral attachment are in support of. 8% of the required examination area for 2 of the 8 lugs cannot be examined.

Corrective Action: None. Wolf Creek invokes Code Case N-460 which has been approved by the NRC and incorporated for use on this site. This code case establishes that an examination with an average coverage of ninety percent or more meets the intent of ASME Section XI requirements when interferences preclude a one hundred percent examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EEJ01A-SEAM-1-W	UT	C-A	C1.10	Residual Heat Removal Heat Exchanger "A" Bonnet Flange to Channel Weld

Condition: The volumetric examination of the subject weld is limited due to the obstruction of the bonnet flange. 100% of the weld required volume cannot be examined by two beam path directions, 95.6% of the weld required volume is examined in one beam path direction for the perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 73.9 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BB-01-S101-7	UT	B-J	B9.31	Reactor Coolant System Loop 1 Cold Leg, 10" Nozzle to 27 1/2" ID Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe branch connection configuration) and material construction. Examination of this weld was limited to the pipe side only; therefore, 100% of the weld required volume cannot be examined in two beam directions for a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 75.0 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BB-01-S302-3	UT	B-J	B9.31	Reactor Coolant System Loop 3 Hot Leg, 6" Nozzle to 29" ID Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe branch connection configuration) and material construction. Examination of this weld was limited to the pipe side only; therefore, 100% of the weld required volume cannot be examined in two beam directions for a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 75.0 percent.

Corrective Action: Relief was previously granted for this limited examination. However, technology has changed since the initial examination of this weld and therefore the limitations have changed. A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BB-01-S402-3	UT	B-J	B9.31	Reactor Coolant System Loop 4 Hot Leg, 14" Nozzle to 29" ID Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe branch connection configuration) and material construction. Examination of this weld was limited to the pipe side only; therefore, 100% of the weld required volume cannot be examined in two beam directions for a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 75.0 percent.

Corrective Action: Relief was previously granted for this limited examination. However, technology has changed since the initial examination of this weld and therefore the limitations have changed. A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BG-09-W805	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Injection, 2" Pipe to Orifice Flange FE-143

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to flange configuration) and material construction. 46.1% of the weld required volume is examined in one beam direction, 28.9% of the weld required volume is examined in two beam directions, and 25.0% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 80.3 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BG-09-W804	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Injection, Orifice Flange FE-143 to 2" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to flange configuration) and material construction. 52.2% of the weld required volume is examined in one beam direction, 25.3% of the weld required volume is examined in two beam directions, and 22.5% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 82.4 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BG-09-W817	UT	N/A	N/A	Reactor Coolant Pump "B" Seal Injection, 2" Pipe to Orifice Flange FE-144

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to flange configuration) and material construction. 45.5% of the weld required volume is examined in one beam direction, 33.7% of the weld required volume is examined in two beam directions, and 20.8% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 81.2 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BG-09-W816	UT	N/A	N/A	Reactor Coolant Pump "B" Seal Injection, Orifice Flange FE-144 to 2" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to flange configuration) and material construction. 44.5% of the weld required volume is examined in one beam direction, 31.4% of the weld required volume is examined in two beam directions, and 24.1% of the weld required volume receives no angle beam coverage from a perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 80.1 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1701	FC-01-F028	UT	N/A	N/A	Auxiliary Feedwater Pump Turbine Supply, 4" Pipe to Valve FCV025

Condition: The volumetric examination of the subject weld is limited due to the obstruction of a hanger lug adjacent to the weld. 99.0% of the weld required volume is examined in one beam direction, 97.5% of the weld required volume is examined in two beam directions, and 1.5% of the weld required volume receives no angle beam coverage from a perpendicular scan. However, the average coverage obtained from all beam angles and scan directions was approximately 99.4 percent.

Corrective Action: None. Wolf Creek invokes Code Case N-460 which has been approved by the NRC and incorporated for use on this site. This code case establishes that an examination with an average coverage of ninety percent or more meets the intent of ASME Section XI requirements when interferences preclude a one hundred percent examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	BN-01-F041	UT	N/A	N/A	Refueling Water Storage, Valve BNHV8812A to 14" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 26.2% of the weld required volume cannot be examined in two beam directions for the perpendicular scan. However, the average coverage obtained from all beam angles and scan directions was approximately 93.4 percent.

Corrective Action: None. Wolf Creek invokes Code Case N-460 which has been approved by the NRC and incorporated for use on this site. This code case establishes that an examination with an average coverage of ninety percent or more meets the intent of ASME Section XI requirements when interferences preclude a one hundred percent examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	BN-01-F043	UT	N/A	N/A	Refueling Water Storage, 12" Pipe to Valve BNHV04

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 78.6% of the weld required volume cannot be examined in two beam directions for the perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 80.4 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAM LIMITATION:

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	EN-02-F007A	UT	N/A	N/A	Containment Spray, 14" Elbow to Pump PEN01B Inlet

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to pump configuration) and material construction. 48.4% of the weld required volume cannot be examined in two beam directions for the perpendicular scan. The average coverage obtained from all beam angles and scan directions was approximately 87.9 percent.

Corrective Action: A request will be submitted to the NRC asking that relief be granted for this limited examination.

EXAMINATIONS

EXAMINATION
ISI SURFACE EXAMS

ACCUMULATOR SAFETY INJECTION SYSTEM (EP)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1694	EP-01-S007-D-LU	PT	C-F	C5.12	Accumulator Safety Injection Loop 4, 10" Elbow Longitudinal Seam Upstream
83A1694	EP-01-S007-D	PT	C-F	C5.11	Accumulator Safety Injection Loop 4, 10" Elbow to Pipe
83A1694	EP-01-S007-D-LD	PT	C-F	C5.12	Accumulator Safety Injection Loop 4, 10" Pipe Longitudinal Seam Downstream
83A1694	EP-01-S014-C-LU	PT	C-F	C5.12	Accumulator Safety Injection Loop 4, 10" Pipe Longitudinal Seam Upstream
83A1694	EP-01-S014-C	PT	C-F	C5.11	Accumulator Safety Injection Loop 4, 10" Pipe to Elbow
83A1694	EP-01-S014-C-LD	PT	C-F	C5.12	Accumulator Safety Injection Loop 4, 10" Elbow Longitudinal Seam Downstream
83A1694	EP-01-C002	PT	C-C	C3.20	Accumulator Safety Injection Loop 4, Integrally Welded Lugs on 10" Pipe
83A1694	EP-02-S010-B	PT	B-J	B9.32	Accumulator Safety Injection Loop 3, 2" Sockolet to 6" Pipe
83A1694	EP-02-F022A	PT	C-F	C5.21	Accumulator Safety Injection Loop 3, 6" Pipe to Valve EP8818C
83A1694	EP-02-FW303	PT	C-F	C5.21	Accumulator Safety Injection Loop 2, Valve EPHV8808B to 10" Pipe
83A1694	EP-02-FW303-LD	PT	C-F	C5.22	Accumulator Safety Injection Loop 2, 10" Pipe Longitudinal Seam Downstream
83A1694	EP-02-S002-G-LU	PT	C-F	C5.22	Accumulator Safety Injection Loop 2, 10" Elbow Longitudinal Seam Upstream
83A1694	EP-02-S002-G	PT	C-F	C5.21	Accumulator Safety Injection Loop 2, 10" Elbow to Pipe

EXAMINATION
ISI SURFACE EXAMS

ACCUMULATOR SAFETY INJECTION SYSTEM (EP) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1694	EP-02-S002-G-LD	PT	C-F	C5.22	Accumulator Safety Injection Loop 2, 10" Pipe Longitudinal Seam Downstream
83A1694	EP-02-S007-J-LU	PT	C-F	C5.22	Accumulator Safety Injection Loop 3, 10" Elbow Longitudinal Seam Upstream
83A1694	EP-02-S007-J	PT	C-F	C5.21	Accumulator Safety Injection Loop 3, 10" Elbow to Pipe
83A1694	EP-02-S007-J-LD	PT	C-F	C5.22	Accumulator Safety Injection Loop 3, 10" Pipe Longitudinal Seam Downstream
83A1694	EP-02-S007-N-LU	PT	C-F	C5.22	Accumulator Safety Injection Loop 3, 10" Elbow Longitudinal Seam Upstream
83A1694	EP-02-S007-N	PT	C-F	C5.21	Accumulator Safety Injection Loop 3, 10" Elbow to Pipe
83A1694	EP-02-S007-N-LD	PT	C-F	C5.22	Accumulator Safety Injection Loop 3, 10" Pipe Longitudinal Seam Downstream
83A1694	EP-02-R020	PT	C-C	C3.20	Accumulator Safety Injection Loop 3, Integrally Welded Lugs to 10" Pipe

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1695	TEM01-4-W	PT	C-B	C2.21	Boron Injection Tank Inlet Nozzle to Bottom Head Weld
83A1695	EM-01-S027-D-LU	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow Longitudinal Seam Upstream
83A1695	EM-01-S027-D	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow to 6" Pipe

EXAMINATION
ISI SURFACE EXAMS

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1695	EM-01-S027-D-LD	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Pipe Longitudinal Seam Downstream
83A1695	EM-01-FW327-LU	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Pipe Longitudinal Seam Upstream
83A1695	EM-01-FW327	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Pipe to 6" Elbow
83A1695	EM-01-FW327-LD	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow Longitudinal Seam Downstream
83A1695	EM-01-S041-E-LU	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow Longitudinal Seam Upstream
83A1695	EM-01-S041-E	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow to 6" Pipe
83A1695	EM-01-S041-E-LD	PT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Pipe Longitudinal Seam Downstream

MAIN STEAM SYSTEM (AB)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1697	AB-01-F054	PT	C-F	C5.21	Main Steam Loop 3, 10" Outlet on Main Steam Header to 10" Pipe
83A1697	AB-01-TOR RES-3	PT	N/A	N/A	Main Steam Loop 3, 2" Half Coupling to Torsional Restraint
83A1697	AB-01-FW787	PT	N/A	N/A	Main Steam Loop 3, 2" Half Coupling to 2" Pipe
83A1697	AB-01-W786	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to 2" Elbow
83A1697	AB-01-W785	PT	N/A	N/A	Main Steam Loop 3, 2" Elbow to 2" Pipe

EXAMINATION
ISI SURFACE EXAMS

MAIN STEAM SYSTEM (AB) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1697	AB-01-W784	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to 2" Elbow
83A1697	AB-01-W783	PT	N/A	N/A	Main Steam Loop 3, 2" Elbow to 2" Pipe
83A1697	AB-01-W782	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to 2" Elbow
83A1697	AB-01-FW781	PT	N/A	N/A	Main Steam Loop 3, 2" Elbow to 2" Pipe
83A1697	AB-01-W780	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to 2" Elbow
83A1697	AB-01-FW331	PT	N/A	N/A	Main Steam Loop 3, 2" Elbow to 2" Pipe
83A1697	AB-01-FW778	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to Valve ABV222
83A1697	AB-01-FW777	PT	N/A	N/A	Main Steam Loop 3, Valve ABV222 to 2" Pipe
83A1697	AB-01-FW776	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to Valve ABHV21
83A1697	AB-01-FW775	PT	N/A	N/A	Main Steam Loop 3, Valve ABHV21 to 2" Pipe
83A1697	AB-01-FW774	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to Valve ABV221
83A1697	AB-01-FW773	PT	N/A	N/A	Main Steam Loop 3, Valve V221 to 2" Pipe
83A1697	AB-01-W772	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to 2" Elbow
83A1697	AB-01-W771	PT	N/A	N/A	Main Steam Loop 3, 2" Elbow to 2" Pipe
83A1697	AB-01-FW770	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to 2" Elbow
83A1697	AB-01-FW332	PT	N/A	N/A	Main Steam Loop 3, 2" Elbow to 2" Pipe
83A1697	AB-01-W768	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to 2" Elbow
83A1697	AB-01-W767	PT	N/A	N/A	Main Steam Loop 3, 2" Elbow to 2" Pipe

EXAMINATION
ISI SURFACE EXAMS

MAIN STEAM SYSTEM (AB) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1697	AB-01-FW766	PT	N/A	N/A	Main Steam Loop 3, 2" Pipe to 2" Half Coupling
83A1697	AB-01-S032-N	PT	N/A	N/A	Main Steam Loop 3, 2" Half Coupling to 28" Main Steam Header
83A1697	AB-01-TOR RES-4	PT	N/A	N/A	Main Steam Loop 4, 2" Half Coupling to Torsional Restraint
83A1697	AB-01-FW721	PT	N/A	N/A	Main Steam Loop 4, 2" Half Coupling to 2" Pipe
83A1697	AB-01-W720	PT	N/A	N/A	Main Steam Loop 4, 2" Pipe to 2" Elbow
83A1697	AB-01-W719	PT	N/A	N/A	Main Steam Loop 4, 2" Elbow to 2" Pipe
83A1697	AB-01-W718	PT	N/A	N/A	Main Steam Loop 4, 2" Pipe to 2" Elbow
83A1697	AB-01-W717	PT	N/A	N/A	Main Steam Loop 4, 2" Elbow to 2" Pipe
83A1697	AB-01-W716	PT	N/A	N/A	Main Steam Loop 4, 2" Pipe to 2" Elbow
83A1697	AB-01-FW715	PT	N/A	N/A	Main Steam Loop 4, 2" Elbow to 2" Pipe
83A1697	AB-01-W714	PT	N/A	N/A	Main Steam Loop 4, 2" Pipe to 2" Elbow
83A1697	AB-01-W713	PT	N/A	N/A	Main Steam Loop 4, 2" Elbow to 2" Pipe
83A1697	AB-01-FW712	PT	N/A	N/A	Main Steam Loop 4, 2" Pipe to Valve ABV216
83A1697	AB-01-FW711	PT	N/A	N/A	Main Steam Loop 4, Valve ABV216 to 2" Pipe
83A1697	AB-01-FW710	PT	N/A	N/A	Main Steam Loop 4, 2" Pipe to Valve ABHV12

EXAMINATION
ISI SURFACE EXAMS

CHEMICAL & VOLUME CONTROL SYSTEM (BG)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BG-09-W812	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2" Tee
83A1700	BG-09-FW813	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe
83A1700	BG-09-W872	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2"x1" Reducer
83A1700	BG-09-W811	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe
83A1700	BG-09-W723	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2"x2"x3/4" Tee
83A1700	BG-09-W737	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2"x2"x3/4" Tee
83A1700	BG-09-FW809	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to Valve BGHV8351C
83A1700	BG-09-FW808	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, Valve HV-8351C to 2" Pipe
83A1700	BG-09-W889	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pipe
83A1700	BG-09-W805	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2" Orifice Flange FE-143
83A1700	BG-09-W804	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, Orifice Flange FE-143 to 2" Pipe
83A1700	BG-09-W803	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2"x1 1/2" Reducer

EXAMINATION
ISI SURFACE EXAMS

CHEMICAL & VOLUME CONTROL SYSTEM (BG) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BG-09-PW3301	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, Valve V200 to 1 1/2" Pipe
83A1700	BG-09-W806-0A	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 1 1/2" Pipe to 2"x1 1/2" Reducer
83A1700	BG-09-W695	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2"x1 1/2" Reducer to 2" Pipe
83A1700	BG-09-PW820	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, Valve BGHV8351B to 2" Pipe
83A1700	BG-09-W890	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pipe
83A1700	BG-09-W817	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to Orifice Flange FE-144
83A1700	BG-09-W816	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, Orifice Flange FE-144 to 2" Pipe
83A1700	BG-09-W815	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to 2"x1 1/2" Reducer
83A1700	BG-09-W814-0A	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2"x1 1/2" Reducer to 1 1/2" Pipe
83A1700	BG-09-PW3296	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 1 1/2" Pipe to Valve BGV199
83A1700	BG-09-PW3297	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, Valve BGV199 to 1 1/2" Pipe
83A1700	BG-09-W696-0A	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 1 1/2" Pipe to 2"x1 1/2" Reducer

EXAMINATION
ISI SURFACE EXAMS

CHEMICAL & VOLUME CONTROL SYSTEM (BG) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BG-09-W818	PT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2"x1 1/2" Reducer to 2" Pipe

RESIDUAL HEAT REMOVAL SYSTEM (EJ)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-01-S004-F-LU	PT	C-F	C5.12	Residual Heat Removal Train "A", 14" Pipe Longitudinal Seam Upstream
83A1699	EJ-01-S004-F	PT	C-F	C5.11	Residual Heat Removal Train "A", 14" Tee to 14" Pipe
83A1699	EJ-04-FW345	PT	C-F	C5.11	Residual Heat Removal Train "A", 14" Pipe to 14" Flange
83A1699	EJ-01-C013	PT	C-C	C3.20	Residual Heat Removal Train "A", Integral Attachment - 8 Lugs
83A1699	EJ-01-S028-D-LU	PT	C-F	C5.12	Residual Heat Removal Train "A", 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-01-S028-D	PT	C-F	C5.11	Residual Heat Removal Train "A", 10" Pipe to 10" Orifice Flange FE-618
83A1699	EJ-01-C016	PT	C-C	C3.20	Residual Heat Removal Train "A", Integral Attachment - 8 Lugs
83A1699	EJ-01-S025-B-LU	PT	C-F	C5.12	Residual Heat Removal To Refueling Water Storage Tank, 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-01-S025-B	PT	C-F	C5.11	Residual Heat Removal To Refueling Water Storage Tank, 10" Pipe to 10" Elbow
83A1699	EJ-01-S025-B-LD	PT	C-F	C5.12	Residual Heat Removal To Refueling Water Storage Tank, 10" Elbow Longitudinal Seam Downstream

EXAMINATION
ISI SURFACE EXAMS

RESIDUAL HEAT REMOVAL SYSTEM (EJ) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-01-F034-LU	PT	C-F	C5.12	Residual Heat Removal To Refueling Water Storage Tank, 10" Elbow Longitudinal Seam Upstream
83A1699	EJ-01-F034	PT	C-F	C5.11	Residual Heat Removal To Refueling Water Storage Tank, 10" Elbow to 10" Pipe
83A1699	EJ-01-F034-LD	PT	C-F	C5.12	Residual Heat Removal To Refueling Water Storage Tank, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-01-FW311B-LU	PT	C-F	C5.12	Residual Heat Removal Train "A", 12" Elbow Longitudinal Seam Upstream
83A1699	EJ-01-FW311B	PT	C-F	C5.11	Residual Heat Removal Train "A", 12" Elbow to 12" Pipe
83A1699	EJ-01-FW311B-LD	PT	C-F	C5.12	Residual Heat Removal Train "A", 12" Pipe Longitudinal Seam Downstream
83A1699	EJ-01-C002	PT	C-C	C3.20	Residual Heat Removal Train "A", Integral Attachment - 8 Lugs
83A1699	EJ-01-R033	PT	C-C	C3.20	Residual Heat Removal Train "A", Integral Attachment - 8 Lugs
83A1699	EJ-01-R003	PT	C-C	C3.20	Residual Heat Removal Train "A", Integral Attachment - 8 Lugs
83A1699	EJ-02-R032	PT	C-C	C3.20	Residual Heat Removal Train "A", Integral Attachment - 8 Lugs
83A1699	EJ-02-F040	PT	C-F	C5.11	Residual Heat Removal Train "B", Valve EJHV8809B to 10" Pipe
83A1699	EJ-02-F040-LD	PT	C-F	C5.12	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-S035-D-LU	PT	C-F	C5.22	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Upstream

EXAMINATION
ISI SURFACE EXAMS

RESIDUAL HEAT REMOVAL SYSTEM (EJ) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-02-S035-D	PT	C-F	C5.21	Residual Heat Removal Train "B", 10" Pipe to 10" Elbow
83A1699	EJ-02-S035-D-LD	PT	C-F	C5.22	Residual Heat Removal Train "B", 10" Elbow Longitudinal Seam Downstream
83A1699	EJ-02-F041-LU	PT	C-F	C5.22	Residual Heat Removal Train "B", 10" Elbow Longitudinal Seam Upstream
83A1699	EJ-02-F041	PT	C-F	C5.21	Residual Heat Removal Train "B", 10" Elbow to Flued Head P-27
83A1699	EJ-02-F029	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, Valve EJHV8716B to 10" Pipe
83A1699	EJ-02-F029-LD	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-F042	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, 10" Tee to 10" Pipe
83A1699	EJ-02-F042-LD	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-S037-A	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, 10" Flange to 10" Pipe
83A1699	EJ-02-S037-A-LD	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Downstr
83A1699	EJ-02-S037-D-LU	PT	C-F	C5.12	Residual Heat Removal To Sa[illegible]njection System, 10" Elbow Longitudinal Seam Upstream
83A1699	EJ-02-S037-D	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, 10" Elbow to 10" Pipe

EXAMINATION
ISI SURFACE EXAMS

RESIDUAL HEAT REMOVAL SYSTEM (EJ) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-02-S037-D-LD	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-F043A-LU	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Elbow Longitudinal Seam Upstream
83A1699	EJ-02-F043A	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, 10" Elbow to 10" Pipe
83A1699	EJ-02-F043A-LD	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-H018	PT	C-C	C3.20	Residual Heat Removal To Safety Injection System, Integral Attachment - 4 Lugs
83A1699	EJ-02-C019	PT	C-C	C3.20	Residual Heat Removal To Safety Injection System, Integral Attachment - Stanchion
83A1699	EJ-02-C012	PT	C-C	C3.20	Residual Heat Removal To Safety Injection System, Integral Attachment - 8 Lugs
83A1699	EJ-02-F049-LU	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-F049	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, 10" Pipe to 10" Elbow
83A1699	EJ-02-F049-LD	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Elbow Longitudinal Seam Downstream
83A1699	EJ-02-S027-C	PT	C-F	C5.12	Residual Heat Removal Heat Exchanger "B", 10" Pipe to 10"x10"x8" Tee
83A1699	EJ-02-S044-C-LU	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Upstream

EXAMINATION
ISI SURFACE EXAMS

RESIDUAL HEAT REMOVAL SYSTEM (EJ) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-02-S044-C	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, 10" Pipe to 10" Elbow
83A1699	EJ-02-S044-C-LD	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Elbow Longitudinal Seam Downstream
83A1699	EJ-02-F050-LU	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Elbow Longitudinal Seam Upstream
83A1699	EJ-02-F050	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, 10" Pipe to 10" Elbow
83A1699	EJ-02-F050-LD	PT	C-F	C5.12	Residual Heat Removal To Safety Injection System, 10" Elbow Longitudinal Seam Downstream
83A1699	EJ-02-F051-LU	PT	C-F	C5.22	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-F051	PT	C-F	C5.21	Residual Heat Removal To Safety Injection System, 10" Pipe to Valve EJHV8840
83A1699	EJ-02-R008	PT	C-C	C3.20	Residual Heat Removal To Safety Injection System, Integral Attachment - Stanchion
83A1699	EJ-02-C016	PT	C-C	C3.20	Residual Heat Removal To Safety Injection System, Integral Attachment - 8 Lugs
83A1699	EJ-03-FW304	PT	C-F	C5.11	Residual Heat Removal To Safety Injection System, 8" Pipe to 8" Elbow
83A1699	EEJ01A-SKIRT-W	PT	C-C	C3.10	Residual Heat Removal Train "A", Heat Exchanger Integral Attachment - Skirt Weld

EXAMINATION
ISI SURFACE EXAMS

REACTOR COOLANT SYSTEM (BB)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BB-09-F001A	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, Flued Head P-39 to 2" Pipe
83A1700	PBB01C-FLYWHEEL	PT/MT	N/A	N/A	Reactor Coolant Pump "C" Flywheel, Motor S/N 3S87P408
83A1700	BB-01-S101-7	PT	B-J	B9.31	Reactor Coolant Loop 1 Cold Leg, 10" Nozzle to 27 1/2" I.D. Pipe
83A1700	BB-01-F104	PT	B-J	B9.11	Reactor Coolant Loop 1 Hot Leg, 29"x31" Elbow Steam Generator "A" Inlet Nozzle
83A1700	BB-01-F101	PT	B-J	B9.11	Reactor Coolant Loop 1 Cold Leg, Reactor Coolant Pump "A" Outlet to 27 1/2" I.D. Pipe
83A1700	BB-01-F107	PT	B-J	B9.11	Reactor Coolant Loop 1 Crossover Leg, 31" Pipe to Reactor Coolant Pump "A" Inlet
83A1700	BB-01-F105	PT	B-J	B9.11	Reactor Coolant Loop 1 Crossover Leg, Steam Generator "A" Outlet Nozzle to 31" Elbow
83A1700	BB-01-S302-3	PT	B-J	B9.31	Reactor Coolant Loop 3 Hot Leg, 6" Nozzle to 29" I.D. Pipe
83A1700	BB-01-S402-2	PT	B-J	B9.11	Reactor Coolant Loop 4 Hot Leg, 29" I.D. Pipe to 29"x31" Elbow
83A1700	BB-01-S402-3	PT	B-J	B9.31	Reactor Coolant Loop 4 Hot Leg, 14" Nozzle to 29" I.D. Pipe

REFUELING WATER STORAGE SYSTEM (BN)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	BN-01-F041	PT	N/A	N/A	Refueling Water Storage, Valve HV8812A to 14" Pipe
83AWC01	BN-01-F041-LD	PT	N/A	N/A	Refueling Water Storage, 14" Pipe Longitudinal Seam Downstream

EXAMINATION
ISI SURFACE EXAMS

REFUELING WATER STORAGE SYSTEM (BN) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	BN-01-F011-LU	PT	N/A	N/A	Refueling Water Storage, 24"x16" Reducer Longitudinal Seam Upstream
83AWC01	BN-01-F011	PT	N/A	N/A	Refueling Water Storage, 24"x16" Reducer to 16" Pipe
83AWC01	BN-01-F011-LD	PT	N/A	N/A	Refueling Water Storage, 16" Pipe Longitudinal Seam Downstream
83AWC01	BN-01-S012-D-LU	PT	N/A	N/A	Refueling Water Storage, 16" Pipe Longitudinal Seam Upstream
83AWC01	BN-01-S012-D	PT	N/A	N/A	Refueling Water Storage, 16" Pipe to 16"x8" Reducer
83AWC01	BN-01-S012-D-LD	PT	N/A	N/A	Refueling Water Storage, 16"x8" Reducer Longitudinal Seam Downstream
83AWC01	BN-01-F042	PT	N/A	N/A	Refueling Water Storage, 16"x12" Weldolet to 12" Pipe
83AWC01	BN-01-F042-LD	PT	N/A	N/A	Refueling Water Storage, 12" Pipe Longitudinal Seam Downstream
83AWC01	BN-01-S026-J-LU	PT	N/A	N/A	Refueling Water Storage, 12" Elbow Longitudinal Seam Upstream
83AWC01	BN-01-S026-J	PT	N/A	N/A	Refueling Water Storage, 12" Elbow to 12" Pipe
83AWC01	BN-01-S026-J-LD	PT	N/A	N/A	Refueling Water Storage, 12" Pipe Longitudinal Seam Downstream
83AWC01	BN-01-F043-LU	PT	N/A	N/A	Refueling Water Storage, 12" Pipe Longitudinal Seam Upstream
83AWC01	BN-01-F043	PT	N/A	N/A	Refueling Water Storage, 12" Pipe to Valve BNHV04

EXAMINATION
ISI SURFACE EXAMS

CONTAINMENT SPRAY SYSTEM (EN)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	EN-02-FW325-LU	PT	N/A	N/A	Containment Spray Train "B", 12" Elbow Longitudinal Seam Upstream
83AWC01	EN-02-FW325	PT	N/A	N/A	Containment Spray Train "B", 12" Elbow to 12" Pipe
83AWC01	EN-02-FW325-LD	PT	N/A	N/A	Containment Spray Train "B", 12" Pipe Longitudinal Seam Downstream
83AWC01	EN-02-FW301-LU	PT	N/A	N/A	Containment Spray Train "B", 12" Pipe Longitudinal Seam Upstream
83AWC01	EN-02-FW301	PT	N/A	N/A	Containment Spray Train "B", 12" Pipe to 12" Pipe
83AWC01	EN-02-FW301-LD	PT	N/A	N/A	Containment Spray Train "B", 12" Pipe Longitudinal Seam Downstream
83AWC01	EN-02-F007A-LU	PT	N/A	N/A	Containment Spray Train "B", 14" Elbow Longitudinal Seam Upstream
83AWC01	EN-02-F007A	PT	N/A	N/A	Containment Spray Train "B", 14" Elbow to Pump PEN01B Inlet

EXAMINATION
ISI VOLUMETRIC EXAMS

STEAM GENERATOR BLOWDOWN SYSTEM (BM)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1693	BM-02-F004	UT	N/A	N/A	Steam Generator "C" Blowdown Line, 4" Flued Head (P-12) to Valve BMV024
83A1693	BM-02-F022	UT	N/A	N/A	Steam Generator "C" Blowdown Line, Valve BMV024 to 4" Pipe
83A1693	BM-02-F021	UT	N/A	N/A	Steam Generator "C" Blowdown Line, 4" Pipe to Valve BMHV3
83A1693	BM-02-F001	UT	N/A	N/A	Steam Generator "B" Blowdown Line, 4" Flued Head (P-11) to Valve BMV013
83A1693	BM-02-F011	UT	N/A	N/A	Steam Generator "B" Blowdown Line, Valve BMV013 to 4" Pipe
83A1693	BM-02-F010	UT	N/A	N/A	Steam Generator "B" Blowdown Line, 4" Pipe to Valve BMHV2
83A1693	BM-02-F009	UT	N/A	N/A	Steam Generator "B" Blowdown Line, Valve BMHV2 to 4" Pipe
83A1693	BM-02-F008	UT	N/A	N/A	Steam Generator "B" Blowdown Line, 4" Pipe to 4" Pipe
83A1693	BM-02-F007	UT	N/A	N/A	Steam Generator "B" Blowdown Line, 4" Pipe to 4" Pipe
83A1693	BM-02-F033	UT	N/A	N/A	Steam Generator "B" Blowdown Line, 4" Pipe to Isolation Restraint
83A1693	BM-02-F030	UT	N/A	N/A	Steam Generator "B" Blowdown Line, Isolation Restraint to 4" Pipe

ACCUMULATOR SAFETY INJECTION SYSTEM (EP)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1694	EP-01-S014-C-LU	UT	C-F	C5.12	Accumulator Safety Injection Loop 4, 10" Pipe Longitudinal Seam Upstream
83A1694	EP-01-S014-C	UT	C-F	C5.11	Accumulator Safety Injection Loop 4, 10" Pipe to Elbow

EXAMINATION
ISI VOLUMETRIC EXAMS

ACCUMULATOR SAFETY INJECTION SYSTEM (EP) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1694	EP-01-S014-C-LD	UT	C-F	C5.12	Accumulator Safety Injection Loop 4, 10" Elbow Longitudinal Seam Downstream
83A1694	EP-02-F022A	UT	C-F	C5.21	Accumulator Safety Injection Loop 3, 6" Pipe to Valve EPV8818C
83A1694	EP-02-FW303	UT	C-F	C5.21	Accumulator Safety Injection Loop 2, Valve EPHV8808B to 10" Pipe
83A1694	EP-02-FW303-LD	UT	C-F	C5.22	Accumulator Safety Injection Loop 2, 10" Pipe Longitudinal Seam Downstream
83A1694	EP-02-S002-G-LU	UT	C-F	C5.22	Accumulator Safety Injection Loop 2, 10" Elbow Longitudinal Seam Upstream
83A1694	EP-02-S002-G	UT	C-F	C5.21	Accumulator Safety Injection Loop 2, 10" Elbow to Pipe
83A1694	EP-02-S002-G-LD	UT	C-F	C5.22	Accumulator Safety Injection Loop 2, 10" Pipe Longitudinal Seam Downstream
83A1694	EP-02-S007-J-LU	UT	C-F	C5.22	Accumulator Safety Injection Loop 3, 10" Elbow Longitudinal Seam Upstream
83A1694	EP-02-S007-J	UT	C-F	C5.21	Accumulator Safety Injection Loop 3, 10" Elbow to Pipe
83A1694	EP-02-S007-J-LD	UT	C-F	C5.22	Accumulator Safety Injection Loop 3, 10" Pipe Longitudinal Seam Downstream
83A1694	EP-02-S007-N-LU	UT	C-F	C5.22	Accumulator Safety Injection Loop 3, 10" Elbow Longitudinal Seam Upstream
83A1694	EP-02-S007-N	UT	C-F	C5.21	Accumulator Safety Injection Loop 3, 10" Elbow to Pipe
83A1694	EP-02-S007-N-LD	UT	C-F	C5.22	Accumulator Safety Injection Loop 3, 10" Pipe Longitudinal Seam Downstream

EXAMINATION
ISI VOLUMETRIC EXAMS

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1695	TEM01-4-W	UT	C-B	C2.21	Boron Injection Tank Inlet Nozzle to Bottom Head Weld
83A1695	EM-01-S027-D-LU	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow Longitudinal Seam Upstream
83A1695	EM-01-S027-D	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow to 6" Pipe
83A1695	EM-01-S027-D-LD	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Pipe Longitudinal Seam Downstream
83A1695	EM-01-FW327-LU	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Pipe Longitudinal Seam Upstream
83A1695	EM-01-FW327	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Pipe to 6" Elbow
83A1695	EM-01-FW327-LD	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow Longitudinal Seam Downstream
83A1695	EM-01-S041-E-LU	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow Longitudinal Seam Upstream
83A1695	EM-01-S041-E	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Elbow to 6" Pipe
83A1695	EM-01-S041-E-LD	UT	N/A	N/A	High Pressure Coolant Injection Pump Suction Line, 6" Pipe Longitudinal Seam Downstream

MAIN FEEDWATER SYSTEM (AE)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1696	AE-05-F016	UT	N/A	N/A	Main Feedwater Loop 3, 14" Elbow to Torsional Restraint

EXAMINATION
ISI VOLUMETRIC EXAMS

MAIN FEEDWATER SYSTEM (AE) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1696	AE-05-F017	UT	N/A	N/A	Main Feedwater Loop 3, Torsional Restraint to FE-530
83A1696	AE-05-S024-A	UT	N/A	N/A	Main Feedwater Loop 3, Handhole to FE-530
83A1696	AE-05-S024-B	UT	N/A	N/A	Main Feedwater Loop 3, Handhole to FE-530
83A1696	AE-05-F018	UT	N/A	N/A	Main Feedwater Loop 3, FE-530 to 14" Pipe
83A1696	AE-05-F019	UT	N/A	N/A	Main Feedwater Loop 3, 14" Pipe to Valve AEFV41
83A1696	AE-05-F020	UT	N/A	N/A	Main Feedwater Loop 3, Valve FV41 to 14" Pipe
83A1696	AE-05-F021	UT	N/A	N/A	Main Feedwater Loop 3, 14" Pipe to 14" Pipe
83A1696	AE-05-F022	UT	N/A	N/A	Main Feedwater Loop 3, 14" Pipe to 14" Pipe
83A1696	AE-05-FW317	UT	N/A	N/A	Main Feedwater Loop 3, 14" Pipe to 14" Pipe
83A1696	AE-05-FW318	UT	N/A	N/A	Main Feedwater Loop 3, 14" Pipe to Flued Head (P-8)
83A1696	AE-05-S014-A	UT	N/A	N/A	Main Feedwater Loop 3, 14" Pipe to 14"x4" Weldolet
83A1696	AE-05-F037	UT	N/A	N/A	Main Feedwater Loop 3, 4" Weldolet to 4" Pipe
83A1696	AE-05-S025-A	UT	N/A	N/A	Main Feedwater Loop 3, 4" Pipe to 4" Elbow
83A1696	AE-05-FW900	UT	N/A	N/A	Main Feedwater Loop 3, 4" Elbow to 4" Pipe
83A1696	AE-05-F033	UT	N/A	N/A	Main Feedwater Loop 3, 4" Pipe to Valve AEV127
83A1696	AE-05-FW902	UT	N/A	N/A	Main Feedwater Loop 3, 14"x3" Weldolet to 14" Pipe
83A1696	AE-05-F043	RT	N/A	N/A	Main Feedwater Loop 3, 4"x3" Weldolet to Valve AEV327
83A1696	AE-05-F006	UT	N/A	N/A	Main Feedwater Loop 4, 14" Pipe to 14" Pipe

EXAMINATION
ISI VOLUMETRIC EXAMS

MAIN FEEDWATER SYSTEM (AE) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1696	AE-05-F007	UT	N/A	N/A	Main Feedwater Loop 4, 14" Pipe to 14" Pipe
83A1696	AE-05-FW320	UT	N/A	N/A	Main Feedwater Loop 4, 14" Pipe to 14" Pipe
83A1696	AE-05-FW319	UT	N/A	N/A	Main Feedwater Loop 4, 14" Pipe to 14" Pipe
83A1696	AE-05-F008	UT	N/A	N/A	Main Feedwater Loop 4, 14" Pipe to Flued Head (P-5)
83A1696	AE-05-FW901	UT	N/A	N/A	Main Feedwater Loop 4, 14"x3" Weldolet to 14" Pipe
83A1696	AE-05-F041	RT	N/A	N/A	Main Feedwater Loop 4, 4"x3" Weldolet to Valve AEV328

MAIN STEAM SYSTEM (AB)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1697	AB-01-F054	UT	C-F	C5.21	Main Steam Loop 3, 10" Outlet on Main Steam Header to 10" Pipe
83A1697	AB-01-F053	UT	N/A	N/A	Main Steam Loop 3, 28" Pipe to Torsional Restraint
83A1697	AB-01-F052	UT	N/A	N/A	Main Steam Loop 3, 28" Torsional Restraint to Valve ABHV20
83A1697	AB-01-F051	UT	N/A	N/A	Main Steam Loop 3, Valve ABHV20 to 28" Pipe
83A1697	AB-01-S032-S	UT	N/A	N/A	Main Steam Loop 3, 12" Outlet on Main Steam Header to 12" Pipe
83A1697	AB-01-S032-W	UT	N/A	N/A	Main Steam Loop 3, 12" Pipe to 12" Pipe Cap
83A1697	AB-01-S032-M	UT	N/A	N/A	Main Steam Loop 3, Extruded Outlet on 28" Main Steam Header to 4" Cap
83A1697	AB-01-S032-L	UT	N/A	N/A	Main Steam Loop 3, 6" Outlet on Main Steam Header to 6" Flange

EXAMINATION
ISI VOLUMETRIC EXAMS

MAIN STEAM SYSTEM (AB) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1697	AB-01-S032-K	UT	N/A	N/A	Main Steam Loop 3, 6" Outlet on Main Steam Header to 6" Flange
83A1697	AB-01-S032-J	UT	N/A	N/A	Main Steam Loop 3, 6" Header on Main Steam Header to 6" Flange
83A1697	AB-01-S032-H	UT	N/A	N/A	Main Steam Loop 3, 6" Outlet on Main Steam Header to 6" Flange
83A1697	AB-01-S032-G	UT	N/A	N/A	Main Steam Loop 3, 6" Outlet on Main Steam Header to 6" Flange
83A1697	AB-01-S034-C	UT	N/A	N/A	Main Steam Loop 3, 10" Pipe to 10" Elbow
83A1697	AB-01-S034-D	UT	N/A	N/A	Main Steam Loop 3, 10" Elbow to 10" Pipe
83A1697	AB-01-F055	UT	N/A	N/A	Main Steam Loop 3, 10" Pipe to Valve ABV029
83A1697	AB-01-F056	UT	N/A	N/A	Main Steam Loop 3, Valve ABV029 to 10" Pipe
83A1697	AB-01-S035-B	UT	N/A	N/A	Main Steam Loop 3, 10" Pipe to 10" Elbow
83A1697	AB-01-S035-C	UT	N/A	N/A	Main Steam Loop 3, 10" Elbow to 10"x8" Reducer
83A1697	AB-01-F057	UT	N/A	N/A	Main Steam Loop 3, 10"x8" Reducer to Valve ABPV3
83A1697	AB-01-F050	UT	N/A	N/A	Main Steam Loop 3, 28" Main Steam Header to Flued Head (P-4)
83A1697	AB-01-S032-Z	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, 4" Weldolet to 28" Main Steam Header
83A1697	AB-01-F059	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, 4" Pipe to 4" Weldolet

EXAMINATION
ISI VOLUMETRIC EXAMS

MAIN STEAM SYSTEM (AB) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1697	AB-01-FW323A	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, 4" Pipe to 4" Elbow
83A1697	AB-01-S037-D	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, 4" Elbow to 4" Pipe
83A1697	AB-01-S037-E	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, 4" Elbow to 4" Pipe
83A1697	AB-01-FW324	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, 4" Pipe to 4" Elbow
83A1697	AB-01-FW325	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, 4" Pipe to 4" Elbow
83A1697	AB-01-F061	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, Valve ABV087 to 4" Pipe
83A1697	AB-01-F062	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, 4" Pipe to Valve ABHV6
83A1697	AB-01-F063	UT	N/A	N/A	Main Steam to Auxiliary Feedwater Turbine System, Valve ABHV6 to 4" Pipe

CHEMICAL & VOLUME CONTROL SYSTEM (BG)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-FW690	UT	N/A	N/A	Charging Line Containment Penetration, 3" Pipe to 3" Elbow
83A1698	BG-01-FW691	UT	N/A	N/A	Charging Line Containment Penetration, 3" Elbow to 3" Pipe
83A1698	BG-01-FW311	UT	N/A	N/A	Charging Line Containment Penetration, Valve BGHV8106 to 3" Pipe

EXAMINATION
ISI VOLUMETRIC EXAMS

CHEMICAL & VOLUME CONTROL SYSTEM (BG) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-01-F023	UT	N/A	N/A	Charging Line Containment Penetration, 3" Pipe to Valve BGHV8106
83A1698	BG-01-F024	UT	N/A	N/A	Charging Line Containment Penetration, Valve BGHV8105 to 3" Pipe
83A1698	BG-01-F025	UT	N/A	N/A	Charging Line Containment Penetration, 3" Pipe to Valve BGHV8105
83A1698	BG-01-FW322	UT	N/A	N/A	Charging Line Containment Penetration, 3" Pipe to 3" Pipe
83A1698	BG-01-FW321	UT	N/A	N/A	Charging Line Containment Penetration, 3" Pipe to 3" Pipe
83A1698	BG-01-F026	UT	N/A	N/A	Charging Line Containment Penetration, 3" Pipe to 3" Pipe
83A1698	BG-01-FW313	UT	N/A	N/A	Charging Line Containment Penetration, Flued Head (P-80) to 3" Pipe
83A1700	BG-09-W812	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2" Tee
83A1700	BG-09-FW813	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe
83A1700	BG-09-W872	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2"x1" Reducer
83A1700	BG-09-W811	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Tee to 2" Pipe
83A1700	BG-09-W723	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2"x2"x3/4" Tee
83A1700	BG-09-W737	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2"x2"x3/4" Tee

EXAMINATION
ISI VOLUMETRIC EXAMS

CHEMICAL & VOLUME CONTROL SYSTEM (BG) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BG-09-W889	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pipe
83A1700	BG-09-W805	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2" Orifice Flange FE-143
83A1700	BG-09-W804	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, Orifice Flange FE-143 to 2" Pipe
83A1700	BG-09-W803	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2" Pipe to 2"x1 1/2" Reducer
83A1700	BG-09-W695	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, 2"x1 1/2" Reducer to 2" Pipe
83A1700	BG-09-W890	UT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to 2" Pipe
83A1700	BG-09-W817	UT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to Orifice Flange FE-144
83A1700	BG-09-W816	UT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, Orifice Flange FE-144 to 2" Pipe
83A1700	BG-09-W815	UT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2" Pipe to 2"x1 1/2" Reducer
83A1700	BG-09-W818	UT	N/A	N/A	Reactor Coolant Pump "B" Seal Water Injection Containment Penetration, 2"x1 1/2" Reducer to 2" Pipe

RESIDUAL HEAT REMOVAL SYSTEM (EJ)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-02-F040	UT	C-F	C5.11	Residual Heat Removal Train "B", Valve EJHV8809B to 10" Pipe

EXAMINATION
ISI VOLUMETRIC EXAMS

RESIDUAL HEAT REMOVAL SYSTEM (EJ) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-02-F040-LD	UT	C-F	C5.12	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-S035-D-LU	UT	C-F	C5.22	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-S035-D	UT	C-F	C5.21	Residual Heat Removal Train "B", 10" Pipe to 10" Elbow
83A1699	EJ-02-S035-D-LD	UT	C-F	C5.22	Residual Heat Removal Train "B", 10" Elbow Longitudinal Seam Downstream
83A1699	EJ-02-F041-LU	UT	C-F	C5.22	Residual Heat Removal Train "B", 10" Elbow Longitudinal Seam Upstream
83A1699	EJ-02-F041	UT	C-F	C5.21	Residual Heat Removal Train "B", 10" Elbow to Flued Head P-27
83A1699	EJ-02-F051-LU	UT	C-F	C5.22	Residual Heat Removal To Safety Injection System, 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-F051	UT	C-F	C5.21	Residual Heat Removal To Safety Injection System, 10" Pipe to Valve EJHV8840
83A1699	EEJ01A-SEAM-1-W	UT	C-A	C1.10	Residual Heat Removal Train "A", Heat Exchanger Bonnet Flange to Channel Weld
83A1699	EEJ01A-SEAM-2-W	UT	C-A	C1.20	Residual Heat Removal Train "A", Heat Exchanger Channel to Head Weld

REACTOR COOLANT SYSTEM (BB)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BB-09-F001A	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Containment Penetration, Flued Head P-39 to 2" Pipe

EXAMINATION
ISI VOLUMETRIC EXAMS

REACTOR COOLANT SYSTEM (BB) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	PBB01C-FLYWHEEL	UT	N/A	N/A	Reactor Coolant Pump "C" Flywheel, Motor S/N 3S87P408
83A1700	PBB01D-FLYWHEEL	UT	N/A	N/A	Reactor Coolant Pump "D" Flywheel, Motor S/N 4S86P767
83A1700	PBB01B-BOLT	UT	B-G-1	B6.180	Reactor Coolant Pump "B", Pump Main Flange Bolts (24)

AUXILIARY FEEDWATER PUMP TURBINE SUPPLY SYSTEM (FC)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1701	FC-01-S021-C	UT	N/A	N/A	Auxiliary Steam Supply From Main Steam Loop 3, 4" Pipe to 4" Elbow
83A1701	FC-01-S021-B	UT	N/A	N/A	Auxiliary Steam Supply From Main Steam Loop 3, 4" Elbow to 4" Pipe
83A1701	FC-01-F028	UT	N/A	N/A	Auxiliary Steam Supply From Main Steam Loop 3, 4" Pipe to Valve FCV025
83A1701	FC-01-F027	UT	N/A	N/A	Auxiliary Steam Supply From Main Steam Loop 3, Valve FCV025 to 4" Pipe
83A1701	FC-01-F026	UT	N/A	N/A	Auxiliary Steam Supply From Main Steam Loop 3, 4" Pipe to Valve V002
83A1701	FC-01-F025	UT	N/A	N/A	Auxiliary Steam Supply From Main Steam Loop 3, Valve FCV002 to 4" Pipe

REFUELING WATER STORAGE SYSTEM (BN)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	BN-01-F041	UT	N/A	N/A	Refueling Water Storage, Valve BNHV8812A to 14" Pipe

EXAMINATION
ISI VOLUMETRIC EXAMS

REFUELING WATER STORAGE SYSTEM (BN) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	BN-01-F041-LD	UT	N/A	N/A	Refueling Water Storage, 14" Pipe Longitudinal Seam Downstream
83AWC01	BN-01-F011-LU	UT	N/A	N/A	Refueling Water Storage, 24"x16" Reducer Longitudinal Seam Upstream
83AWC01	BN-01-F011	UT	N/A	N/A	Refueling Water Storage, 24"x16" Reducer to 16" Pipe
83AWC01	BN-01-F011-LD	UT	N/A	N/A	Refueling Water Storage, 16" Pipe Longitudinal Seam Downstream
83AWC01	BN-01-S012-D-LU	UT	N/A	N/A	Refueling Water Storage, 16" Pipe Longitudinal Seam Upstream
83AWC01	BN-01-S012-D	UT	N/A	N/A	Refueling Water Storage, 16" Pipe to 16"x8" Reducer
83AWC01	BN-01-S012-D-LD	UT	N/A	N/A	Refueling Water Storage, 16"x8" Reducer Longitudinal Seam Downstream
83AWC01	BN-01-F042	UT	N/A	N/A	Refueling Water Storage, 16"x12" Weldolet to 12" Pipe
83AWC01	BN-01-F042-LD	UT	N/A	N/A	Refueling Water Storage, 12" Pipe Longitudinal Seam Downstream
83AWC01	BN-01-S026-J-LU	UT	N/A	N/A	Refueling Water Storage, 12" Elbow Longitudinal Seam Upstream
83AWC01	BN-01-S026-J	UT	N/A	N/A	Refueling Water Storage, 12" Elbow to 12" Pipe
83AWC01	BN-01-S026-J-LD	UT	N/A	N/A	Refueling Water Storage, 12" Pipe Longitudinal Seam Downstream
83AWC01	BN-01-F043-LU	UT	N/A	N/A	Refueling Water Storage, 12" Pipe Longitudinal Seam Upstream
83AWC01	BN-01-F043	UT	N/A	N/A	Refueling Water Storage, 12" Pipe to Valve BNHV04

EXAMINATION
ISI VOLUMETRIC EXAMS

CONTAINMENT SPRAY SYSTEM (EN)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83AWC01	EN-02-FW325-LU	UT	N/A	N/A	Containment Spray Train "B", 12" Elbow Longitudinal Seam Upstream
83AWC01	EN-02-FW325	UT	N/A	N/A	Containment Spray Train "B", 12" Elbow to 12" Pipe
83AWC01	EN-02-FW325-LD	UT	N/A	N/A	Containment Spray Train "B", 12" Pipe Longitudinal Seam Downstream
83AWC01	EN-02-FW301-LU	UT	N/A	N/A	Containment Spray Train "B", 12" Pipe Longitudinal Seam Upstream
83AWC01	EN-02-FW301	UT	N/A	N/A	Containment Spray Train "B", 12" Pipe to 12" Pipe
83AWC01	EN-02-FW301-LD	UT	N/A	N/A	Containment Spray Train "B", 12" Pipe Longitudinal Seam Downstream
83AWC01	EN-02-F007A-LU	UT	N/A	N/A	Containment Spray Train "B", 14" Elbow Longitudinal Seam Upstream
83AWC01	EN-02-F007A	UT	N/A	N/A	Containment Spray Train "B", 14" Elbow to Pump PEN01B Inlet

EXAMINATION
ISI VISUAL EXAMS

ACCUMULATOR SAFETY INJECTION SYSTEM (EP)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1694	EP-01-8956D-b	VT-1	B-G-2	B7.70	Accumulator Safety Injection Loop 4, Valve EP8956D Bolting
83A1694	EP-01-BB8948D-b	VT-1	B-G-2	B7.70	Accumulator Safety Injection Loop 4, Valve BB8948D Bolting
83A1694	EP-02-8818C-b	VT-1	B-G-2	B7.70	Accumulator Safety Injection Loop 3, Valve EP8818C Bolting
83A1694	EP-02-BB8948C-b	VT-1	B-G-2	B7.70	Accumulator Safety Injection Loop 3, Valve BB8948C Bolting

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1695	TEM01-SUPPORT-4	VT-3	F-A	F1.30	High Pressure Coolant Boron Injection Tank Support
83A1695	EM-03-FE-924-FL-b	VT-1	B-G-2	B7.50	High Pressure Coolant Boron Injection Tank Header, Flange FE-924 Bolting
83A1695	EM-03-BB-8949B-b	VT-1	B-G-2	B7.70	High Pressure Coolant Safety Injection Pumps to Reactor Coolant System, Valve BB8949B Bolting
83A1695	EM-03-BB-8949B-SURF	VT-3	B-M-2	B12.50	High Pressure Coolant Safety Injection Pumps to Reactor Coolant System, Valve BB8949B Internal Pressure Surface
83A1695	EM-03-EJ-8841A-b	VT-1	B-G-2	B7.70	High Pressure Coolant Safety Injection Pumps to Reactor Coolant System, Valve EJ8841A Bolting
83A1695	EM-03-FE-927-FL-b	VT-1	B-G-2	B7.50	High Pressure Coolant Boron Injection Tank Header, Flange FE-927 Bolting

CHEMICAL & VOLUME CONTROL SYSTEM (BG)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-21-BB-8378A-b	VT-1	B-G-2	B7.70	Normal Charging Line (Loop 1), Valve BBV8378A Bolting

EXAMINATION
ISI VISUAL EXAMS

CHEMICAL & VOLUME CONTROL SYSTEM (BG) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1698	BG-21-BB-8378B-b	VT-1	B-G-2	B7.70	Normal Charging Line (Loop 1), Valve BBV8378B Bolting

RESIDUAL HEAT REMOVAL SYSTEM (EJ)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1699	EJ-04-HV-8701A-b	VT-1	B-G-2	B7.70	Residual Heat Removal Train "A", Valve EJHV8701A Bolting
83A1699	EJ-04-BB-PV8702A-b	VT-1	B-G-2	B7.70	Residual Heat Removal Train "A", Valve EJPV8702A Bolting
83A1699	EEJ01A-SKIRT-W	VT-3	C-C	C3.10	Residual Heat Removal Train "A", Heat Exchanger Skirt (Support)
83A1699	EEJ01A-SUP-1	VT-3	D-B F-A	D2.20 F1.10	Residual Heat Removal Train "A", Heat Exchanger Support and Support Lug to Shell Weld
83A1699	EEJ01A-SUP-2	VT-3	D-B F-A	D2.20 F1.10	Residual Heat Removal Train "A", Heat Exchanger Support and Support Lug to Shell Weld
83A1699	EEJ01A-SUP-3	VT-3	D-B F-A	D2.20 F1.10	Residual Heat Removal Train "A", Heat Exchanger Support and Support Lug to Shell Weld
83A1699	EEJ01A-SUP-4	VT-3	D-B F-A	D2.20 F1.10	Residual Heat Removal Train "A", Heat Exchanger Support and Support Lug to Shell Weld
83A1699	EEJC1A-SUP-5	VT-3	D-B F-A	D2.20 F1.10	Residual Heat Removal Train "A", Heat Exchanger Support and Support Lug to Head Weld

REACTOR COOLANT SYSTEM (BB)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	PBB01A-SUP-1	VT-3	F-B	F2.30	Reactor Coolant Pump "A" Tie Rod Support

EXAMINATION
ISI VISUAL EXAMS

REACTOR COOLANT SYSTEM (BB) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	PBB01A-SUP-3	VT-3	F-B	F2.30	Reactor Coolant Pump "A" Tie Rod Support
83A1700	PBB01A-SUP-3A	VT-3	F-B	F2.30	Reactor Coolant Pump "A" Column Support
83A1700	RBB01-04	VT-3	F-B	F2.40	Reactor Vessel Pad Support
83A1700	CRDMPL-SUP-5	VT-3	F-C	F3.30	Reactor Vessel Control Rod Drive Mechanism Seismic Support
83A1700	CRDMPL-SUP-6	VT-3	F-C	F3.30	Reactor Vessel Control Rod Drive Mechanism Seismic Support
83A1700	BB-02-8010B-FL-b	VT-1	B-G-2	B7.50	Pressurizer Safety Valve BBV8010B Flange Bolting
83A1700	BB-02-8010B-b	VT-1	B-G-2	B7.70	Pressurizer Safety Valve BBV8010B Bonnet Bolting
83A1700	BB-04-PCV-455C-b	VT-1	B-G-2	B7.70	Pressurizer Spray Line, Valve BBPCV455C Bolting
83A1700	BB-04-PCV-455B-b	VT-1	B-G-2	B7.70	Pressurizer Spray Line, Valve BBPCV455B Bolting
83A1700	BB-09-FL1-b	VT-1	B-G-2	B7.50	Reactor Coolant Pump "C" Seal Water Injection Line, 1 1/2" Flange Bolting
83A1700	BB-11-FL1-b	VT-1	B-G-2	B7.50	Reactor Coolant Pump "B" Seal Water Injection Line, 1 1/2" Flange Bolting

CONTAINMENT COOLING SYSTEM (GN)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1703	M-620-003-09	VT-3	D-B	D2.20	Containment Cooling Cooler Coil Supply and Return Header Pipe Support - Integral Attachment
83A1703	M-620-003-10	VT-3	D-B	D2.20	Containment Cooling Cooler Coil Supply and Return Header Pipe Support - Integral Attachment

EXAMINATION
ISI VISUAL EXAMS

CONTAINMENT COOLING SYSTEM (GN) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1703	M-620-003-11	VT-3	D-B	D2.20	Containment Cooling Cooler Coil Supply and Return Header Pipe Support - Integral Attachment
83A1703	M-620-003-12	VT-3	D-B	D2.20	Containment Cooling Cooler Coil Supply and Return Header Pipe Support - Integral Attachment
83A1703	M-620-003-13	VT-3	D-B	D2.20	Containment Cooling Cooler Coil Supply and Return Header Pipe Support - Integral Attachment
83A1703	M-620-003-14	VT-3	D-B	D2.20	Containment Cooling Cooler Coil Supply and Return Header Pipe Support - Integral Attachment
83A1703	M-620-003-15	VT-3	D-B	D2.20	Containment Cooling Cooler Coil Supply and Return Header Pipe Support - Integral Attachment
83A1703	M-620-003-16	VT-3	D-B	D2.20	Containment Cooling Cooler Coil Supply and Return Header Pipe Support - Integral Attachment

ESSENTIAL SERVICE WATER SYSTEM (EF)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1707	EF-02-A010	VT-3	D-B	D2.20	Essential Service Water Train "A" Supply, Pipe Support - Integral Attachment
83A1707	EF-03-C016	VT-3	D-B	D2.20	Essential Service Water Train "A" Return, Pipe Support - Integral Attachment
83A1707	EF-03-R020	VT-3	D-B	D2.20	Essential Service Water Train "A" Return, Pipe Support - Integral Attachment
83A1707	EF-06-A015	VT-3	D-B	D2.20	Essential Service Water Train "A" Supply, Pipe Support - Integral Attachment

EXAMINATION
ISI VISUAL EXAMS

ESSENTIAL SERVICE WATER SYSTEM (EF) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1707	EF-07-A001	VT-3	D-B	D2.20	Essential Service Water Train "A" Supply and Return, Pipe Support - Integral Attachment
83A1707	EF-07-A002	VT-3	D-B	D2.20	Essential Service Water Train "A" Supply and Return, Pipe Support - Integral Attachment
83A1707	EF-03-C002	VT-3	D-B	D2.20	Essential Service Water Train "A" Return, Pipe Support - Integral Attachment
83A1707	EF-03-R021	VT-3	D-B	D2.20	Essential Service Water Train "A" Return, Pipe Support - Integral Attachment

PRESSURIZER (TBB03)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1709	TBB03-LUG-A-W	VT-3	F-A	F1.10	Pressurizer Seismic Lug Support
83A1709	TBB03-LUG-D-W	VT-3	F-A	F1.10	Pressurizer Seismic Lug Support

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

MAIN STEAM SYSTEM (AB)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	AB01-H501-145	VT-3	F-C	N/A	Variable support on Line 302, Steam Generator "C" to Turbine

MAIN FEEDWATER SYSTEM (AE)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	AE05-R010-135	VT-3	F-C	N/A	Sway strut on Line 37, Auxiliary Feedwater to Steam Generator "C"
83A1715	AE04-R004-242	VT-3	F-C	N/A	Two snubbers on Line 81, Main Feedwater to Steam Generator "B"
83A1715	AE04-R013-252	VT-3	F-C	N/A	Snubber on Line 81, Main Feedwater to Steam Generator "B"
83A1715	AE04-R020-251	VT-3	F-C	N/A	Snubber on Line 82, Main Feedwater to Steam Generator "A"
83A1715	AE05-R013-251	VT-3	F-C	N/A	Snubber on Line 79, Main Feedwater to Steam Generator "D"
83A1715	AE05-R022-242	VT-3	F-C	N/A	Two snubbers on Line 80, Main Feedwater to Steam Generator "C"

AUXILIARY FEEDWATER (AL)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	AL02-C003-135	VT-3	F-C	N/A	Two sway struts on Line 20, Motor Driven Auxiliary Feedwater Pump "A" Discharge
83A1715	AL03-A001-135	VT-3	F-B	N/A	Anchor on Line 13, Motor Driven Auxiliary Feedwater Pump "B" Discharge

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

REACTOR COOLANT SYSTEM (BB)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	BB02-H006-261	VT-3	F-C	N/A	Constant support on Line 82, Pressurizer to Pressurizer Relief Tank
83A1715	BB04-R035-241	VT-3	F-C	N/A	Snubber on line 3, Reactor Coolant System Loop 1 Cold Leg to Pressurizer
83A1715	BB01-R004-231	VT-3	F-C	N/A	Snubber on Line 68, Reactor Coolant System Loop 4 Hot Leg to Pressurizer
83A1715	BB02-R019-261	VT-3	F-C	N/A	Two snubbers on Line 85, Pressurizer to Pressurizer Relief Tank
83A1715	BB04-R018-261	VT-3	F-C	N/A	Snubber on Line 238, Reactor Coolant System Loop 2 Cold Leg to Pressurizer
83A1715	BB09-R002-232	VT-3	F-C	N/A	Snubber on Line 178, Seal Water Injection to Reactor Coolant Pump "C"

CHEMICAL & VOLUME CONTROL SYSTEM (BG)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	BG02-C013-122	VT-3	F-C	N/A	Two sway struts On Line 146, Centrifugal Charging Pumps "A" & "B" maximum flow lines
83A1715	BG03-R005-133	VT-3	F-C	N/A	Two sway struts on Line 441, Letdown Flow to Letdown Heat Exchanger
83A1715	BG05-H005-132	VT-3	F-C	N/A	Sway strut on line 139, Letdown Flow to Volume Control Tank
83A1715	BG05-R007-132	VT-3	F-C	N/A	Sway strut on line 206, Seal Water Heat Exchanger to Volume Control Tank

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

CHEMICAL & VOLUME CONTROL SYSTEM (BG) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	BG11-R003-111	VT-3	F-C	N/A	Sway strut on line 29, Letdown Heat Exchanger to Reactor Coolant Filter
83A1715	BG35-H507-112	VT-3	F-C	N/A	Sway strut on Line 233, Boric Acid Storage Tank "B" to Level Transmitter BGLT105
83A1715	BG03-C503-113	VT-3	F-C	N/A	PG-3 support on Line 36, Letdown Heat Exchanger to Mixed Bed Demineralizer
83A1715	BG09-C505-121	VT-3	F-C	N/A	PG-3 support on Line 163, Seal Water Injection to Seal Water Injection Filter
83A1715	BG09-C526--123	VT-3	F-C	N/A	PG-3 support on Line 154, Seal Water Injection to Reactor Coolant Pump "A"
83A1715	BG09-C539-133	VT-3	F-C	N/A	PG-20 support on Line 173, Seal Water Injection to Reactor Coolant Pump "D"
83A1715	BG10-C514-121	VT-3	F-C	N/A	PG-3 support on Line 154, Seal Water Injection to Seal Water Injection Heat Exchanger
83A1715	BG10-C522-122	VT-3	F-C	N/A	PG-3 support on Line 154, Seal Water Injection to Seal Water Injection Heat Exchanger
83A1715	BG18-C501-132	VT-3	F-C	N/A	PG-14 support on Line 255, Reactor Make-Up Water to Letdown Reheat Heat Exchanger
83A1715	BG18-C504-132	VT-3	F-C	N/A	PG-20 support on Line 244, Reactor Make-Up Water to Positive Displacement Pump
83A1715	BG02-A004-132	VT-3	F-B	N/A	Anchor on Line 145, Volume Control Tank to Safety Injection Pumps "A" & "B" Suction
83A1715	BG02-A006-121	VT-3	F-B	N/A	Anchor on Line 479, Positive Displacement Pump to Boron Injection Tank

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

CHEMICAL & VOLUME CONTROL SYSTEM (BG) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	BG18-A501-132	VT-3	F-C	N/A	Anchor on Line 244, Reactor Make-Up Water to Positive Displacement Pump
83A1715	BG09-H524-131	VT-3	F-C	N/A	Variable support on Line 164, Chemical And Volume Control System
83A1715	BG22-R018-232	VT-3	F-C	N/A	Snubber on Line 1, Reactor Coolant System Letdown Delay Pipe

STEAM GENERATOR BLOWDOWN SYSTEM (BM)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	BM03-R504-231	VT-3	F-C	N/A	PG-4 support on Line 6, Steam Generator "A" Blowdown to Steam Generator Drain Pumps
83A1715	BM03-R507-231	VT-3	F-C	N/A	PG-4 support on Line 18, Steam Generator "B" Blowdown to Steam Generator Drain Pumps
83A1715	BM19-R504-252	VT-3	F-B	N/A	PG-60 support on Line 33, Steam Generator "C" Blowdown to Steam Generator Drain Pumps
83A1715	BM01-R016-231	VT-3	F-C	N/A	Snubber on Line 38, Steam Generator "D" Blowdown to Steam Generator Drain Pumps
83A1715	BM17-R506-241	VT-3	F-C	N/A	Snubber on Line 9, Steam Generator "A" Blowdown to Steam Generator Drain Pumps
83A1715	BM17-R508-231	VT-3	F-C	N/A	Snubber on Line 5, Steam Generator "A" Blowdown to Steam Generator Drain Pumps
83A1715	BM18-R510-252	VT-3	F-C	N/A	Snubber on Line 21, Steam Generator "B" Blowdown to Steam Generator Drain Pumps

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

STEAM GENERATOR BLOWDOWN SYSTEM (BM) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	BM01-C019-231	VT-3	F-C	N/A	Snubber on Line 38, Steam Generator "D" Blowdown to Steam Generator Drain Pumps
83A1715	BM17-R505-241	VT-3	F-C	N/A	Snubber on Line 9, Steam Generator "B" Blowdown to Steam Generator Drain Pumps
83A1715	BM20-R514-231	VT-3	F-C	N/A	Snubber on Line 41, Steam Generator "D" Blowdown to Steam Generator Drain Pumps

SPENT FUEL POOL COOLING (EC)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	EC04-R020-621	VT-3	F-C	N/A	Sway strut on Line 11, Fuel Pool Cooling And Cleanup Train "B"
83A1715	EC04-H008-611	VT-3	F-C	N/A	Variable support on Line 2, Fuel Pool Cooling Pump "A" Inlet
83A1715	EC04-H012-611	VT-3	F-C	N/A	Variable support on Line 10, Fuel Pool Cooling Pump "B" Inlet

ESSENTIAL SERVICE WATER SYSTEM (EF)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	EF02-R009-134	VT-3	F-C	N/A	Two sway struts on Line 57, Essential Service Water Train "A" Supply
83A1715	EF02-R011-112	VT-3	F-C	N/A	Two sway struts on Line 37, Essential Service Water Train "A" Supply to Centrifugal Charging Pump Room Cooler
83A1715	EF06-H001-114	VT-3	F-C	N/A	Sway strut on Line 99, Essential Service Water Train "A" & "B" to Auxiliary Feedwater Pumps

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

ESSENTIAL SERVICE WATER SYSTEM (EF) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	EF06-H010-135	VT-3	F-C	N/A	Sway strut on Line 78, Essential Service Water Train "B" Return
83A1715	EF07-C009-311	VT-3	F-C	N/A	Two sway struts on Line 75, Essential Service Water Train "A" from Diesel Generator "A" Lube Oil Cooler
83A1715	EF15-R003-341	VT-3	F-C	N/A	Two sway struts on Line 115, Essential Service Water Train "A" to Class IE Switchgear A/C Condenser
83A1715	EF06-C017-114	VT-3	F-B	N/A	Box hanger on Line 108, Essential Service Water Train "B" Return from Auxiliary Feedwater Pump "B" Room Cooler
83A1715	EF06-R013-144	VT-3	F-C	N/A	U-bolt on Line 100, Essential Service Water Train "B" Supply
83A1715	EF09-R509-134	VT-3	F-C	N/A	PG-3 support on Line 53, Essential Service Water Train "A" Supply to Fuel Pool Cooling Pump "A" Room Cooler
83A1715	EF02-A010-122	VT-3	F-B	N/A	Anchor on Line 35, Essential Service Water Train "A" Supply
83A1715	EF04-A005-111	VT-3	F-B	N/A	Anchor on Line 85, ential Service Water to Residual Heat Removal Pump "B" Room Cooler

COMPONENT COOLING WATER SYSTEM (EG)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	EG02-H005-133	VT-3	F-C	N/A	Sway strut on Line 224, Residual Heat Removal Heat Exchanger Train "B" Crossover to Fuel Pool Cooling Heat Exchanger

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

COMPONENT COOLING WATER SYSTEM (EG) (Continued)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	EG05-C001-141	VT-3	F-C	N/A	Two Sway struts on Line 227, Fuel Pool Cooling Heat Exchanger Train "B" to Component Cooling Water Heat exchanger
83A1715	EG18-H003-611	VT-3	F-C	N/A	Sway strut on Line 226, Fuel Pool Cooling Heat Exchanger Train "A" to Component Cooling Water System
83A1715	EG24-R004-121	VT-3	F-C	N/A	Sway strut on Line 36, Component Cooling Water to Centrifugal Charging Pump Oil Cooler
83A1715	EG09-R001-231	VT-3	F-B	N/A	Partial box hanger on Line 299, Component Cooling Water Return to Containment Penetration 76
83A1715	EG09-R004-242	VT-3	F-B	N/A	Box hanger on Line 236, Component Cooling Water Supply to Reactor Coolant Pump "B"
83A1715	EG12-C004-242	VT-3	F-B	N/A	Box hanger on Line 237, Component Cooling Water Supply to Reactor Coolant Pump "B"
83A1715	EG28-C503-142	VT-3	F-C	N/A	PG-15 support on Line 337, Component Cooling Water Piping
83A1715	EG02-A003-132	VT-3	F-B	N/A	Anchor on Line 226, Fuel Pool Cooling Heat Exchanger to Heat Exchanger Crossover
83A1715	EG03-H005-141	VT-3	F-C	N/A	Variable support on Line 296, Residual Heat Removal Heat Exchanger "B" to Component Cooling Water Heat Exchanger "B"
83A1715	EG18-H006-611	VT-3	F-C	N/A	Variable support on Line 227, Residual Heat Removal Train "B" Heat Exchanger to Component Cooling Water System

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

RESIDUAL HEAT REMOVAL SYSTEM (EJ)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	EJ03-A505-122	VT-3	F-C	N/A	Anchor on Line 35, from Residual Heat Removal Heat Exchanger Train "A" to Chemical And Volume Control Letdown
83A1715	EJ03-C501-122	VT-3	F-C	N/A	Variable support on Line 35, Residual Heat Removal Heat Exchanger Train "A" to Chemical And Volume Control Letdown
83A1715	EJ04-R008-232	VT-3	F-C	N/A	Two snubbers on Line 42, Safety Injection System to Reactor Coolant System Loop 2 Hot Leg

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	EM02-R007-114	VT-3	F-C	N/A	Two sway struts on Line 74, Centrifugal Charging Pump "A" to Boron Injection Tank
83A1715	EM01-C027-122	VT-3	F-B	N/A	Box hanger on Line 6, Safety Injection Pump "A" to Reactor Coolant System Hot Legs 2 & 3
83A1715	EM02-H002-134	VT-3	F-B	N/A	Stanchion on Line 80, Boron Injection Tank to Reactor Coolant System Hotlegs 1, 2, 3, & 4
83A1715	EM08-C532-121	VT-3	F-C	N/A	PG-15 support on Line 44, High Pressure Coolant Injection
83A1715	EM04-..06-231	VT-3	F-C	N/A	Snubber on Line 50, Accumulator Injection to Reactor Coolant System Loop 3 Cold Leg
83A1715	EM05-R002-231	VT-3	F-C	N/A	Snubber on Line 71, Safety Injection Pumps to Residual Heat Heat Removal/High Pressure Coolant Injection

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

CONTAINMENT SPRAY SYSTEM (EN)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	EN03-C003-261	VT-3	F-B	N/A	Combination support/restraint on Line 43, Containment Spray
83A1715	EN03-C005-262	VT-3	F-B	N/A	Box hanger on Line 50, Containment Spray
83A1715	EN03-C029-261	VT-3	F-B	N/A	Box hanger on Line 51, Containment Spray
83A1715	EN03-C043-262	VT-3	F-B	N/A	Box hanger on Line 52, Containment Spray
83A1715	EN03-C065-261	VT-3	F-B	N/A	Box hanger on Line 53, Containment Spray
83A1715	EN03-C069-261	VT-3	F-B	N/A	Box hanger on Line 53, Containment Spray
83A1715	EN03-C074-262	VT-3	F-B	N/A	Box hanger on Line 55, Containment Spray
83A1715	EN03-C106-262	VT-3	F-B	N/A	Box hanger on Line 47, Containment Spray
83A1715	EN03-C108-262	VT-3	F-B	N/A	Box hanger on Line 47, Containment Spray
83A1715	EN03-C135-261	VT-3	F-B	N/A	Box hanger on Line 44, Containment Spray
83A1715	EN03-C157-262	VT-3	F-B	N/A	Box hanger on Line 45, Containment Spray
83A1715	EN05-C015-281	VT-3	F-B	N/A	Box hanger on Line 43, Containment Spray
83A1715	EN05-H001-231	VT-3	F-B	N/A	Partial box hanger on Line 43, Containment Spray
83A1715	EN01-C009-134	VT-3	F-C	N/A	Variable support on Line 3, Containment Spray Pump "A" Discharge to Containment Spray Header
83A1715	EN02-H005-133	VT-3	F-C	N/A	Variable support on Line 7, Containment Spray Pump "B" Discharge to Containment Spray Header

EXAMINATION
ISI VISUAL EXAMS
Sample Plan Component Supports

CONTAINMENT COOLING SYSTEM (GN)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	GN02-C026-251	VT-3	F-C	N/A	Two sway struts on Line 50, Essential Service Water Supply to Containment Cooler "D"
83A1715	GN01-C017-242	VT-3	F-B	N/A	Box hanger on Line 55, Containment Coolers "A" & "C" Essential Service Water Return
83A1715	GN01-C016-242	VT-3	F-B	N/A	Box hanger on Line 45, Containment Cooling Train "A"

EMERGENCY FUEL OIL SYSTEM (JE)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	JE03-C503-511	VT-3	F-C	N/A	PG-3 support on Line 12, Diesel Generator Train "B" to Emergency Fuel Oil Day Tank "B"
83A1715	JE03-C507-511	VT-3	F-C	N/A	PG-3 support on Line 12, Diesel Generator Train "B" to Emergency Fuel Oil Day Tank "B"
83A1715	JE03-C508-511	VT-3	F-C	N/A	PG-3 support on Line 12, Diesel Generator Train "B" to Emergency Fuel Oil Day Tank "B"
83A1715	JE03-A503-511	VT-3	F-C	N/A	Anchor on Line 4, Emergency Fuel Oil Day Tank "B" Inlet

EMERGENCY DIESEL GENERATOR SYSTEM (KJ)

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1715	M-018-0504-008-511	VT-3	F-B	N/A	Hook support on 1.5" Diesel Engine Fuel Oil Line
83A1715	M-018-0674-111-511	VT-3	F-B	N/A	U-bolt support on 1.5" Diesel Engine Lube Oil Line

SYSTEM PRESSURE

TESTING

PRESSURE TESTS PERFORMED SINCE THE SIXTH REFUELING OUTAGE

STS PE-021A	Train "A" Emergency Diesel Fuel Oil and Keep Warm System Pressure Test
STS PE-021B	Train "B" Emergency Diesel Fuel Oil and Keep Warm System Pressure Test
STS PE-021C	Train "A" Emergency Diesel Fuel Oil, Lube Oil, Jacket Water, Intercooler, Rocker Arm, Crankcase Vacuum, Air Intake, and Air Exhaust Systems Pressure Test
STS PE-021D	Train "B" Emergency Diesel Fuel Oil, Lube Oil, Jacket Water, Intercooler, Rocker Arm, Crankcase Vacuum, Air Intake, and Air Exhaust Systems Pressure Test
STS PE-021G	Train "A" Emergency Diesel Air Start System Pressure Test
STS PE-021H	Train "B" Emergency Diesel Air Start System Pressure Test
STS PE-040A	Reactor Coolant System Pressure Test
STS PE-040B	Reactor Coolant System Pressure Test
STS PE-041A	Steam Generator System Pressure Test
STS PE-041B	Steam Generator System Pressure Test
STS PE-041C	Blowdown System P-78 Pressure Test
STS PE-042A (W/E Of BTRS Portion)	Chemical and Volume Control System Normal Letdown Line to Volume Control Tank Pressure Test
STS PE-042B	Chemical and Volume Control System Volume Control Tank and Charging Pump Suction Header Pressure Test
STS PE-042C	Chemical and Volume Control System Positive Displacement Pump Discharge Header Pressure Test
STS PE-042D	Chemical and Volume Control System Centrifugal Charging Pump "A" Discharge Header Pressure Test
STS PE-042E	Chemical and Volume Control System Centrifugal Charging Pump "B" Discharge Header Pressure Test

STS PE-042F	Chemical and Volume Control System Charging Pump Common Discharge and Reactor Coolant System Charging Lines Pressure Test
STS PE-042I	Chemical and Volume Control System Boric Acid Tank "A". Transfer Pump "A" Pressure Test
STS PE-042J	Chemical and Volume Control System Boric Acid Tank "B". Transfer Pump "B" Pressure Test
STS PE-042K	Chemical and Volume Control System Miscellaneous Pressure Tests
STS PE-043A	Residual Heat Removal System Cold Leg Injection Pressure Test
STS PE-043B	Residual Heat Removal System Hot Leg Discharge and Centrifugal Charging Pump/Safety Injection Pump Cross Connection Pressure Test
STS PE-044C	High Press Safety Injection System Pressure Test
STS PE-044D	High Press Safety Injection System Pressure Test
STS PE-045	Containment Spray System Pressure Test
STS PE-046	Safety Injection Accumulator Pressure Test
STS PE-047A	Compressed Air System Auxiliary Feedwater Control/Main Steam Atmospheric Relief Valves Accumulator Pressure Test
STS PE-047B	Compressed Air System P-30 and KAHV-30 Pressure Test
STS PE-048A	Fuel Pool Cooling System Pressure Test - Trains "A" and "B"
STS PE-048C	Refueling Pool Skimmer System Pressure Test
STS PE-049A	Essential Service Water System "A" Train Pressure Test
STS PE-049B	Essential Service Water System "B" Train Pressure Test
STS PE-050A	Component Cooling Water System "A" Train and Outside Containment Service Loop Pressure Test
STS PE-050B	Component Cooling Water System PEG01C Pressure Test

STS PE-050C	Component Cooling Water System "B" Train Pressure Test
STS PE-050D	Component Cooling Water System PEG01D Pressure Test
STS PE-052A	Auxiliary Feedwater Pump Turbine Pressure Test Using Main Steam
STS PE-053B	Auxiliary Feedwater Pressure Test Using Turbine Driven Auxiliary Feedwater Pump
STS PE-053D	Auxiliary Feedwater Pressure Test Using Condensate Storage Tank
STS PE-055A	Pressure Test of Reactor Make-Up Water Piping Through P-25
STS PE-055E	Pressure Test of Containment Hydrogen Control Piping Thru P-101 and P-97 to Hydrogen Analyzer SGS02A, SGD03S & SGS065A
STS PE-055F	Pressure Test of Containment Hydrogen Control Piping Thru P-99 and P-56 to Hydrogen Analyzer SGS02B, SGS03B & SGS065B
STS PE-055I	Pressure Test of Containment Shutdown Purge Supply Piping Through V-161
STS PE-055J	Pressure Test of Containment Air Purification and Cleanup Piping Through V-161 to Containment Purge Exhaust
STS PE-055Q	Pressure Test of Floor and Equipment Drain Piping Between LFHV-105 and LFHV-106

STEAM GENERATOR TUBING

INSERVICE INSPECTION

STEAM GENERATOR TUBE INSERVICE INSPECTION

The sixth Steam Generator Tube Inservice Inspection of steam generators was completed by Westinghouse Nuclear Energy Services, Nuclear Services Division during the seventh refueling outage. This inspection included 100 percent full length bobbin coil inspection of Steam Generator "A" and "D" tubes. It also included a Motorized Rotating Pancake Coil of four factory installed bare hole plugs and 685 [illegible]p of tubesheet inspections (626 in the hot leg and 59 in the cold leg) in Steam Generator "A". This was the third inservice inspection for both Steam Generator "A" and "D".

The results of the sixth inspection showed 36 tubes (28 in the hot leg and 8 in the cold leg) in Steam Generator "A" and 58 tubes (57 in the hot leg and 1 in the cold leg) in Steam Generator "D" that had indications greater than or equal to 20 percent and less than 40 percent degraded and must be inspected during the next inspection of these Steam Generators.

Mechanical plug (Inconel 600) replacement was performed on Steam Generator "D" in response to NRC Bulletin No. 89-01. A total of 34 plugs were removed from seventeen tubes (17 in the hot leg and 17 in the cold leg). Of the 17 tubes that had the mechanical plugs removed, all of them were full length bobbin coil inspected. As a result of the bobbin coil inspection, 6 tubes were put back into service and the remaining 11 tubes were replugged with Inconel 690 mechanical plugs. The location of the Inconel 600 mechanical plugs removed are as follows:

Steam Generator "D"

ROW	COLUMN	ROW	COLUMN
41	20	42	20
43	20	43	21
43	22	44	22
45	22	47	24
48	25	48	27
50	28	47	29
45	58	49	60
44	72	50	95
48	98		

This completes the replacement of the Inconel 600 mechanical tube plugs as required by NRC Bulletin No. 89-01, "Failure of Westinghouse Steam Generator Tube Mechanical Plugs," for all steam generators at Wolf Creek Generating Station.

STEAM GENERATOR TUBE INSERVICE INSPECTION

Degraded tubes as well as 26" stub tubes were plugged with Inconel 690 mechanical plugs. One degraded factory installed bare hole plug was removed and replaced with an Inconel 690 welded plug. The following is a breakdown by steam generator of the number of tubes plugged.

Steam Generator "A" Tube Plugging

** Tubes plugged resulting from degradation detected by bobbin coil inspection: **9**

** 26" Stub Tubes: 5 (1 in the hot leg and 4 in the cold leg)

** Welded Plugs: **1** (replaced the degraded factory bare hole plug in the cold leg)

Steam Generator "D" Tube Plugging

** Tubes plugged resulting from degradation detected by bobbin coil inspection: **24**

** Tubes replugged as a result of Inconel 600 mechanical plug replacement: **11**

With the completion of the seventh refueling outage, Steam Generator "A" has 21 tubes (this includes factory installed bare hole plugs and 26" stub tubes) plugged and Steam Generator "D" has 37 tubes plugged.

APPENDIX A

FORM NIS-1

OWNER'S REPORT FOR INSERVICE INSPECTIONS

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Wolf Creek Nuclear Operating Corporation, P. O. Box 411, Burlington, Kansas 66839
(Name and Address of Owner)

2. Plant Wolf Creek Generating Station, 1550 Oxen Lane, NE, Burlington, Kansas 66839
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 9/3/85 6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
	See Attached			

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This form (E00029) may be obtained from the Order Dept., ASME, 345 E. 47th. St., New York, NY 10017

FORM NIS-1 (back)

8. Examination Dates 5/15/93 to 10/30/94 9. Inspection Interval from 9/3/85 to 9/2/95

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
See Examination Section in ISI Summary Report.

11. Abstract of Conditions Noted.
See Examination Results Section in ISI Summary Report.

12. Abstract of Corrective Measures Recommended and Taken.
See Examination Results Section in ISI Summary Report.

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

Date January 20 19 95 Signed Wolf Creek Nuclear Operating Corp. By [signature]
Owner

Certification 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 5/15/93 to 10/30/94, 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 JAN. 24 19 95

Jeffrey A. Winkel Commissions KS #299
Inspector's Signature National Board, State, Province and No.

* Arkwright Mutual Insurance Company/Factory Mutual Engineering Association

FORM NIS-1 (back)

8. Examination Dates 5/15/93 to 10/30/94 9. Inspection Interval from 9/3/85 to 9/2/95

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Date JAN. 24 19 95

Jeffrey A. Winkel Commissions KS #299
Inspector's Signature National Board, State, Province and No.

* Arkwright Mutual Insurance Company/Factory Mutual Engineering Association

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
AB-01-F050	Daniel International Corporation	N/A	N/A	N/A
AB-01-F051	Daniel International Corporation	N/A	N/A	N/A
AB-01-F052	Daniel International Corporation	N/A	N/A	N/A
AB-01-F054	Daniel International Corporation	N/A	N/A	N/A
AB-01-F055	Daniel International Corporation	N/A	N/A	N/A
AB-01-F056	Daniel International Corporation	N/A	N/A	N/A
AB-01-F057	Daniel International Corporation	N/A	N/A	N/A
AB-01-F059	Daniel International Corporation	N/A	N/A	N/A
AB-01-F061	Daniel International Corporation	N/A	N/A	N/A
AB-01-F062	Daniel International Corporation	N/A	N/A	N/A
AB-01-F063	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW323A	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW324	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW325	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW331	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW332	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
AB-01-FW710	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW711	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW712	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW715	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW721	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW766	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW770	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW773	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW774	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW775	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW776	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW777	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW778	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW787	Daniel International Corporation	N/A	N/A	N/A
AB-01-S032-G	Dravo Corporation	15145	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
AB-01-S032-H	Dravo Corporation	15145	N/A	N/A
AB-01-S032-J	Dravo Corporation	15145	N/A	N/A
AB-01-S032-K	Dravo Corporation	15145	N/A	N/A
AB-01-S032-L	Dravo Corporation	15145	N/A	N/A
AB-01-S032-M	Dravo Corporation	15145	N/A	N/A
AB-01-S032-N	Dravo Corporation	15145	N/A	N/A
AB-01-S032-S	Dravo Corporation	15145	N/A	N/A
AB-01-S032-W	Dravo Corporation	15145	N/A	N/A
AB-01-S032-Z	Dravo Corporation	15145	N/A	N/A
AB-01-S034-C	Dravo Corporation	18074	N/A	N/A
AB-01-S034-D	Dravo Corporation	18074	N/A	N/A
AB-01-S035-B	Dravo Corporation	18075	N/A	N/A
AB-01-S035-C	Dravo Corporation	18075	N/A	N/A
AB-01-S037-D	Dravo Corporation	15146	N/A	N/A
AB-01-S037-E	Dravo Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
AB-01-TOR-RES-3	Daniel International Corporation	N/A	N/A	N/A
AB-01-TOR-RES-4	Daniel International Corporation	N/A	N/A	N/A
AB-01-W713	Daniel International Corporation	N/A	N/A	N/A
AB-01-W714	Daniel International Corporation	N/A	N/A	N/A
AB-01-W716	Daniel International Corporation	N/A	N/A	N/A
AB-01-W717	Daniel International Corporation	N/A	N/A	N/A
AB-01-W718	Daniel International Corporation	N/A	N/A	N/A
AB-01-W719	Daniel International Corporation	N/A	N/A	N/A
AB-01-W720	Daniel International Corporation	N/A	N/A	N/A
AB-01-W767	Daniel International Corporation	N/A	N/A	N/A
AB-01-W768	Daniel International Corporation	N/A	N/A	N/A
AB-01-W771	Daniel International Corporation	N/A	N/A	N/A
AB-01-W772	Daniel International Corporation	N/A	N/A	N/A
AB-01-W780	Daniel International Corporation	N/A	N/A	N/A
AB-01-W781	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
AB-01-W782	Daniel International Corporation	N/A	N/A	N/A
AB-01-W783	Daniel International Corporation	N/A	N/A	N/A
AB-01-W784	Daniel International Corporation	N/A	N/A	N/A
AB-01-W785	Daniel International Corporation	N/A	N/A	N/A
AB-01-W786	Daniel International Corporation	N/A	N/A	N/A
AB01-H501-145	Corner & Lada Company	1-AB01-H501/145Q	N/A	N/A
	ITT Grinnell	M1445	N/A	N/A
AE-05-F006	Daniel International Corporation	N/A	N/A	N/A
AE-05-F007	Daniel International Corporation	N/A	N/A	N/A
AE-05-F008	Daniel International Corporation	N/A	N/A	N/A
AE-05-F018	Daniel International Corporation	N/A	N/A	N/A
AE-05-F019	Daniel International Corporation	N/A	N/A	N/A
AE-05-F020	Daniel International Corporation	N/A	N/A	N/A
AE-05-F021	Daniel International Corporation	N/A	N/A	N/A
AE-05-F022	Daniel International Corporation	N/A	N/A	N/A
AE-05-F033	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
AE-05-F037	Daniel International Corporation	N/A	N/A	N/A
AE-05-F041	Daniel International Corporation	N/A	N/A	N/A
AE-05-F043	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW317	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW318	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW319	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW320	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW900	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW901	Daniel International Corporation	N/A	N/A	N/A
AE-05-FW902	Daniel International Corporation	N/A	N/A	N/A
AE-05-S014-A	Pullman Power Products	1-AE-05-S-014/145	N/A	N/A
AE-05-S024-A	Permutit	N-1507	N/A	210
AE-05-S024-B	Permutit	N-1507	N/A	210
AE-05-S025-A	Pullman Power Products	0-AE-05-S-025/145	N/A	N/A
AE04-R004-242	Bergen Paterson	D013958	N/A	N/A
	Pacific Scientific	1769	N/A	N/A
	Pacific Scientific	1970	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
AE04-R013-252	Bergen Paterson	1-AE-R013/242Q	N/A	N/A
	Pacific Scientific	1949	N/A	N/A
AE04-R020-251	Bergen Paterson	D013295	N/A	N/A
	Pacific Scientific	1974	N/A	N/A
AE05-R010-135	Corner & Lada Company	0-AE05-R010/135Q	N/A	N/A
AE05-R013-251	Bergen Paterson	1-AE05-R013/251Q	N/A	N/A
	Pacific Scientific	11675	N/A	N/A
AE05-R022-242	Bergen Paterson	D013639	N/A	N/A
AL02-C003-135	ITT Grinnell	A3764	N/A	N/A
AL03-A001-135	Daniel International Corporation	N/A	N/A	N/A
BB-02-8010B-b	Crosby Valve & Gage Company	N60446-00-0001	N/A	537
BB-02-8010B-FL-b	Crosby Valve & Gage Company	N60446-00-0001	N/A	537
BB-04-PCV-455B-b	Fisher Controls Company	6449036	N/A	5223
BB-04-PCV-455C-b	Fisher Controls Company	6449035	N/A	5222
BB-09-F001A	Daniel International Corporation	N/A	N/A	N/A
BB-09-FL1-b	Daniel International Corporation	N/A	N/A	N/A
BB01-R004-231	Western Piping	L-5832	N/A	N/A
	Pacific Scientific	11690	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
BB02-H006-261	Bergen Paterson	A002392	N/A	N/A
BB02-R019-261	Bergen Paterson	1-BB02-R019/261	N/A	N/A
	Pacific Scientific	7584	N/A	N/A
	Pacific Scientific	7583	N/A	N/A
BB04-R018-261	Pacific Scientific	[illegible]	N/A	N/A
BB04-R035-241	Pacific Scientific	16269	N/A	N/A
BB09-R002-232	Pacific Scientific	18373	N/A	N/A
BB11-FL1-b	Daniel International Corporation	N/A	N/A	N/A
BG-01-F023	Daniel International Corporation	N/A	N/A	N/A
BG-01-F024	Daniel International Corporation	N/A	N/A	N/A
BG-01-F025	Daniel International Corporation	N/A	N/A	N/A
BG-01-F026	Daniel International Corporation	N/A	N/A	N/A
BG-01-FW311	Daniel International Corporation	N/A	N/A	N/A
BG-01-FW313	Daniel International Corporation	N/A	N/A	N/A
BG-01-FW321	Daniel International Corporation	N/A	N/A	N/A
BG-01-FW322	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
BG-01-FW690	Daniel International Corporation	N/A	N/A	N/A
BG-01-FW691	Daniel International Corporation	N/A	N/A	N/A
BG-09-FW808	Daniel International Corporation	N/A	N/A	N/A
BG-09-FW809	Daniel International Corporation	N/A	N/A	N/A
BG-09-FW813	Daniel International Corporation	N/A	N/A	N/A
BG-09-FW820	Daniel International Corporation	N/A	N/A	N/A
BG-09-PW3296	WCNOC	N/A	N/A	N/A
BG-09-PW3297	WCNOC	N/A	N/A	N/A
BG-09-PW3301	WCNOC	N/A	N/A	N/A
BG-09-W695	Daniel International Corporation	N/A	N/A	N/A
BG-09-W696-0A	WCNOC	N/A	N/A	N/A
BG-09-W723	Daniel International Corporation	N/A	N/A	N/A
BG-09-W737	Daniel International Corporation	N/A	N/A	N/A
BG-09-W803	Daniel International Corporation	N/A	N/A	N/A
BG-09-W804	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
BG-09-W805	Daniel International Corporation	N/A	N/A	N/A
BG-09-W806-0A	WCNOC	N/A	N/A	N/A
BG-09-W811	Daniel International Corporation	N/A	N/A	N/A
BG-09-W812	Daniel International Corporation	N/A	N/A	N/A
BG-09-W814-0A	WCNOC	N/A	N/A	N/A
BG-09-W815	Daniel International Corporation	N/A	N/A	N/A
BG-09-W816	Daniel International Corporation	N/A	N/A	N/A
BG-09-W817	Daniel International Corporation	N/A	N/A	N/A
BG-09-W818	Daniel International Corporation	N/A	N/A	N/A
BG-09-W872	Daniel International Corporation	N/A	N/A	N/A
BG-09-W889	Daniel International Corporation	N/A	N/A	N/A
BG-09-W890	Daniel International Corporation	N/A	N/A	N/A
BG-21-BB-8378A-b	Westinghouse Electric Company	03001CS880000D000W750009	N/A	W12062
BG-21-BB-8378B-b	Westinghouse Electric Company	03001CS880000D000W750003	N/A	W12056
BG02-A004-132	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
BG02-A006-121	Daniel International Corporation	N/A	N/A	N/A
BG02-C013-122	ITT Grinnell	2670	N/A	N/A
BG03-C503-113	Daniel International Corporation	N/A	N/A	N/A
BG03-R005-133	Bergen Paterson	1-BG03-R005/133	N/A	N/A
	Bergen Paterson	D014932	N/A	N/A
BG05-H005-132	Bergen Paterson	4047-03-173	N/A	N/A
BG05-R007-132	ITT Grinnell	A2693	N/A	N/A
BG09-C505-121	Daniel International Corporation	N/A	N/A	N/A
BG09-C526-123	Daniel International Corporation	N/A	N/A	N/A
BG09-C539-133	ITT Grinnell	M1439	N/A	N/A
	ITT Grinnell	H6405	N/A	N/A
BG09-H524-131	Corner & Lada Company	1-BG09-H524/131Q	N/A	N/A
BG10-C514-121	Daniel International Corporation	N/A	N/A	N/A
BG10-C522-122	Daniel International Corporation	N/A	N/A	N/A
BG11-R003-111	ITT Grinnell	8046	N/A	N/A
BG18-A501-132	ITT Grinnell	E4165	N/A	N/A
	ITT Grinnell	E4149	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
BG18-C501-132	ITT Grinnell	J857	N/A	N/A
	ITT Grinnell	B8727	N/A	N/A
	ITT Grinnell	E5023	N/A	N/A
BG18-C504-132	ITT Grinnell	K2655	N/A	N/A
	ITT Grinnell	J875	N/A	N/A
BG22-R018-232	Bergen Paterson	1-BG22-R018/232	N/A	N/A
	Pacific Scientific	4393	N/A	N/A
BG35-H507-112	Corner & Lada Company	0-BG35-H507/112	N/A	N/A
BM-02-F007	Daniel International Corporation	N/A	N/A	N/A
BM-02-F008	Daniel International Corporation	N/A	N/A	N/A
BM-02-F009	Daniel International Corporation	N/A	N/A	N/A
BM-02-F010	Daniel International Corporation	N/A	N/A	N/A
BM-02-F011	Daniel International Corporation	N/A	N/A	N/A
BM-02-F021	Daniel International Corporation	N/A	N/A	N/A
BM-02-F022	Daniel International Corporation	N/A	N/A	N/A
BM-02-F030	Daniel International Corporation	N/A	N/A	N/A
BM-02-F033	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
BM01-C019-231	Bergen Paterson	1-BM01-C019/231Q	N/A	N/A
	Pacific Scientific	21283	N/A	N/A
BM01-R016-231	Bergen Paterson	1-BM01-R016/231	N/A	N/A
	Pacific Scientific	18438	N/A	N/A
BM03-R504-231	Daniel International Corporation	N/A	N/A	N/A
BM03-R507-231	Daniel International Corporation	N/A	N/A	N/A
BM17-R505-241	Bergen Paterson	1-BM17-R505/241Q	N/A	N/A
	Bergen Paterson	D014345	N/A	N/A
	Pacific Scientific	27583	N/A	N/A
BM17-R506-241	Bergen Paterson	1-BM17-R506/241Q	N/A	N/A
	Pacific Scientific	26146	N/A	N/A
BM17-R508-231	Bergen Paterson	1-BM17-R508/231Q	N/A	N/A
	Pacific Scientific	26156	N/A	N/A
BM18-R510-252	Bergen Paterson	1-BM18-R510/252Q	N/A	N/A
	Pacific Scientific	26151	N/A	N/A
BM19-R504-252	Daniel International Corporation	N/A	N/A	N/A
BM20-R514-231	Bergen Paterson	1-BM20-R514/231Q	N/A	N/A
	Pacific Scientific	4397	N/A	N/A
BN-01-F011 (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
BN-01-F041 (&LD)	Daniel International Corporation	N/A	N/A	N/A
BN-01-F042 (&LD)	Daniel International Corporation	N/A	N/A	N/A
BN-01-F043 (&LU)	Daniel International Corporation	N/A	N/A	N/A
BN-01-F043 (&LU)	Daniel International Corporation	N/A	N/A	N/A
BN-01-S012-D (&LU,LD)	Dravo Corporation	N/A	N/A	N/A
BN-01-S026-J (&LU,LD)	Dravo Corporation	13447	N/A	N/A
BN-01-S026-J (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
CRDMPL-SUP-5	Speedway Machine & Tool Company	5	N/A	9
CRDMPL-SUP-6	Speedway Machine & Tool Company	6	N/A	9
EC04-H008-611	Corner & Lada Company	1-EC04-H008/611Q	N/A	N/A
EC04-H012-611	Corner & Lada Company	1-EC04-H012/611Q	N/A	N/A
EC04-R020-621	Corner & Lada Company	1-EC04-R020/621Q	N/A	N/A
EEJ01A-SEAM-1-W	Joseph Oat Corporation	2289-C	N/A	957
EEJ01A-SEAM-2-W	Joseph Oat Corporation	2289-C	N/A	957
EEJ01A-SKIRT-W	Joseph Oat Corporation	2289-C	N/A	957

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EEJ01A-SUP-1	Joseph Oat Corporation	2289-C	N/A	957
EEJ01A-SUP-2	Joseph Oat Corporation	2289-C	N/A	957
EEJ01A-SUP-3	Joseph Oat Corporation	2289-C	N/A	957
EEJ01A-SUP-4	Joseph Oat Corporation	2289-C	N/A	957
EEJ01A-SUP-5	Joseph Oat Corporation	2289-C	N/A	957
EF-02-A010	Daniel International Corporation	N/A	N/A	N/A
EF-03-C002	Daniel International Corporation	N/A	N/A	N/A
EF-03-C016	Daniel International Corporation	N/A	N/A	N/A
EF-03-R020	Daniel International Corporation	N/A	N/A	N/A
EF-03-R021	Daniel International Corporation	N/A	N/A	N/A
EF-06-A015	Daniel International Corporation	N/A	N/A	N/A
EF-07-A001	Daniel International Corporation	N/A	N/A	N/A
EF-07-A002	Daniel International Corporation	N/A	N/A	N/A
EF02-A010-122	Daniel International Corporation	N/A	N/A	N/A
EF02-R009-134	ITT Grinnell	2712	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EF02-R011-112	Corner & Lada Company	0-EF02-R011/112Q	N/A	N/A
EF04-A005-111	Bergen Paterson	1-EF04-A005/111	N/A	N/A
EF06-C017-114	Daniel International Corporation	N/A	N/A	N/A
EF06-H001-114	Bergen Paterson	1-EF06-H001/114	N/A	N/A
EF06-H010-135	Corner & Lada Company	0-EF06-H010/135Q	N/A	N/A
	Corner & Lada Company	1-BM19-H507/232Q	N/A	N/A
EF06-R013-144	Daniel International Corporation	N/A	N/A	N/A
EF07-C009-311	ITT Grinnell	8061	N/A	N/A
EF09-R509-134	Daniel International Corporation	N/A	N/A	N/A
EF15-R003-341	Bergen Paterson	1-EF15-R003/341	N/A	N/A
	Bergen Paterson	1-EG17-C003/241	N/A	N/A
EG02-A003-132	Daniel International Corporation	N/A	N/A	N/A
EG02-H005-133	Bergen Paterson	1-EG02-H005/133	N/A	N/A
EG03-C007-141	Bergen Paterson	1-EG03-C007/141	N/A	N/A
	Bergen Paterson	1-BM02-H011/232	N/A	N/A
EG03-H005-141	Bergen Paterson	1-EG03-H005/141	N/A	N/A
EG05-C001-141	Bergen Paterson	1-EG05-C001/141	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EG09-R001-231	Daniel International Corporation	N/A	N/A	N/A
EG09-R004-242	Daniel International Corporation	N/A	N/A	N/A
EG12-C004-242	Daniel International Corporation	N/A	N/A	N/A
EG18-H003-611	Bergen Paterson	1-EG18-H003/611	N/A	N/A
EG18-H006-611	Bergen Paterson	1-EG18-H006/611	N/A	N/A
EG24-R004-121	ITT Grinnell	A7972	N/A	N/A
EG28-C503-142	ITT Grinnell	B5149	N/A	N/A
	ITT Grinnell	B5160	N/A	N/A
	ITT Grinnell	J878	N/A	N/A
EJ-01-C002	Daniel International Corporation	N/A	N/A	N/A
EJ-01-C013	Daniel International Corporation	N/A	N/A	N/A
EJ-01-C016	Daniel International Corporation	N/A	N/A	N/A
EJ-01-F034 (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-01-FW311-B (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-01-FW345	Daniel International Corporation	N/A	N/A	N/A
EJ-01-R003	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EJ-01-R033	Daniel International Corporation	N/A	N/A	N/A
EJ-01-S004-F (&LU)	Dravo Corporation	13538	N/A	N/A
EJ-01-S025-B (&LU,LD)	Dravo Corporation	13559	N/A	N/A
EJ-01-S028-D (&LU)	Dravo Corporation	13562	N/A	N/A
EJ-02-C012	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C016	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C019	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F029 (&LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F040 (&LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F041 (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F042 (&LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F043A (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F049 (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F050 (&LD)	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F051 (&LU)	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EJ-02-H018	Daniel International Corporation	N/A	N/A	N/A
EJ-02-R008	Daniel International Corporation	N/A	N/A	N/A
EJ-02-R032	Daniel International Corporation	N/A	N/A	N/A
EJ-02-S027-C	Dravo Corporation	13599	N/A	N/A
EJ-02-S035-D (&LU,LD)	Dravo Corporation	13607	N/A	N/A
EJ-02-S037-A (&LD)	Dravo Corporation	13609	N/A	N/A
EJ-02-S037-D (&LU,LD)	Dravo Corporation	13609	N/A	N/A
EJ-02-S044-C (&LU,LD)	Dravo Corporation	13616	N/A	N/A
EJ-03-FW304	Daniel International Corporation	N/A	N/A	N/A
EJ-04-BB-PV-8702A-b	Westinghouse Electric Company	12002GM88SEH0F000W750002	N/A	W18088
EJ-04-HV-8701A-b	Westinghouse Electric Company	12002GM88SEH0D000W750003	N/A	W17501
EJ03-A505-122	ITT Grinnell	E4143	N/A	N/A
	ITT Grinnell	E4139	N/A	N/A
EJ03-C501-122	Corner & Lada Company	1-EJ03-C501/123Q	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EJ04-R008-232	Bergen Paterson	1-EJ04-R008/232	N/A	N/A
	Pacific Scientific	10386	N/A	N/A
	Pacific Scientific	10387	N/A	N/A
EM-01-FW327 (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
EM-01-S027-D (&LU,LD)	Dravo Corporation	13666	N/A	N/A
EM-01-S041-E (&LU,LD)	Dravo Corporation	13680	N/A	N/A
EM-03-BB-8949B-b	Westinghouse Electric Company	06001CS990000D000W750016	N/A	W17570
EM-03-BB-8949B-SURF	Westinghouse Electric Company	06001CS990000D000W750016	N/A	W17570
EM-03-EJ-8841A-b	Westinghouse Electric Company	06001CS990000D000W750012	N/A	W17566
EM-03-FE-924-FL-b	Daniel International	N/A	N/A	N/A
EM-03-FE-927-FL-b	Daniel International	N/A	N/A	N/A
EM01-C027-122	Daniel International Corporation	N/A	N/A	N/A
EM02-H002-134	Daniel International Corporation	N/A	N/A	N/A
EM02-R007-114	Corner & Lada Company	1-EM02-R007/114Q	N/A	N/A
EM04-C006-231	Pacific Scientific	20367	N/A	N/A
EM05-R002-231	Bergen Paterson	1-EM05-R002/231	N/A	N/A
	Pacific Scientific	6551	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EM08-C532-121	ITT Grinnell	H1648	N/A	N/A
	ITT Grinnell	J5049	N/A	N/A
	ITT Grinnell	J6907	N/A	N/A
EN-02-F007A (&LU)	Daniel International Corporation	N/A	N/A	N/A
EN-02-FW301 (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
EN-02-FW325 (&LU,LD)	Daniel International Corporation	N/A	N/A	N/A
EN01-C009-134	Corner & Lada Company	1-EN01-C009/134Q	N/A	N/A
	Corner & Lada Company	0-EN01-C009/134Q	N/A	N/A
EN02-H005-133	Corner & Lada Company	1-EN02-H005/133Q	N/A	N/A
EN03-C003-261	Daniel International Corporation	N/A	N/A	N/A
EN03-C005-262	Daniel International Corporation	N/A	N/A	N/A
EN03-C029-261	Daniel International Corporation	N/A	N/A	N/A
EN03-C043-262	Daniel International Corporation	N/A	N/A	N/A
EN03-C065-261	Daniel International Corporation	N/A	N/A	N/A
EN03-C069-261	Daniel International Corporation	N/A	N/A	N/A
EN03-C074-262	Daniel International Corporation	N/A	N/A	N/A
EN03-C106-262	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EN03-C108-262	Daniel International Corporation	N/A	N/A	N/A
EN03-C135-261	Daniel International Corporation	N/A	N/A	N/A
EN03-C157-262	Daniel International Corporation	N/A	N/A	N/A
EN05-C015-281	Daniel International Corporation	N/A	N/A	N/A
EN05-H001-231	Daniel International Corporation	N/A	N/A	N/A
EP-01-8956D-b	Westinghouse Electric Company	10001CS990000D000W750016	N/A	W18276
EP-01-BB8948D-b	Westinghouse Electric Company	10001CS990000D000W750015	N/A	W18275
EP-01-C002	Daniel International Corporation	N/A	N/A	N/A
EP-01-S007-D (&LU,LD)	Dravo Corporation	16661	N/A	N/A
EP-01-S010-B	Dravo Corporation	16423	N/A	N/A
EP-01-S014-C (&LU,LD)	Dravo Corporation	18710	N/A	N/A
EP-02-8818C-b	Westinghouse Electric Company	06001CS990000D000W750013	N/A	W17567
EP-02-BB8948C-b	Westinghouse Electric Company	10001CS990000D000W750011	N/A	W18271
EP-02-F022A	Daniel International Corporation	N/A	N/A	N/A
EP-02-FW303 (&LD)	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
EP-02-R020	Daniel International Corporation	N/A	N/A	N/A
EP-02-S002-G (&LU,LD)	Dravo Corporation	16133	N/A	N/A
EP-02-S007-J (&LU,LD)	Dravo Corporation	16142	N/A	N/A
EP-02-S007-N (&LU,LD)	Dravo Corporation	16142	N/A	N/A
FC-01-F025	Daniel International Corporation	N/A	N/A	N/A
FC-01-F026	Daniel International Corporation	N/A	N/A	N/A
FC-01-F027	Daniel International Corporation	N/A	N/A	N/A
FC-01-F028	Daniel International Corporation	N/A	N/A	N/A
FC-01-S021-B	Dravo Corporation	23664	N/A	N/A
FC-01-S021-C	Dravo Corporation	23664	N/A	N/A
GN01-C016-242	Daniel International Corporation	N/A	N/A	N/A
GN01-C017-242	Daniel International Corporation	N/A	N/A	N/A
GN02-C026-251	Corner & Lada Company	0-GN02-C026/251Q	N/A	N/A
JE03-A503-511	ITT Grinnell	F4318	N/A	N/A
	ITT Grinnell	F4337	N/A	N/A
JE03-C503-511	Daniel International Corporation	N/A	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
JE03-C507-511	Daniel International Corporation	N/A	N/A	N/A
JE03-C508-511	Daniel International Corporation	N/A	N/A	N/A
M-018-0504-008-511	Colt Industries	N/A	N/A	N/A
M-018-0674-111-511	Colt Industries	N/A	N/A	N/A
M-620-003-09	American Air Filter Company Inc.	N-2893-8R-7	N/A	1710
M-620-003-10	American Air Filter Company Inc.	N-2893-8R-7	N/A	1710
M-620-003-11	American Air Filter Company Inc.	N-2893-8S-7	N/A	1518
M-620-003-12	American Air Filter Company Inc.	N-2893-8S-7	N/A	1518
M-620-003-13	American Air Filter Company Inc.	N-2893-6S-7	N/A	1455
M-620-003-14	American Air Filter Company Inc.	N-2893-6S-7	N/A	1455
M-620-003-15	American Air Filter Company Inc.	N-2893-6R-7	N/A	1563
M-620-003-16	American Air Filter Company Inc.	N-2893-6R-7	N/A	1563
PBB01A-SUP-1	LAMCO Industries	1372	N/A	N/A
PBB01A-SUP-3	LAMCO Industries	1353	N/A	N/A

Component	Manufacturer or Installer	Serial No.	State No.	Board No.
PBB01A-SUP-3A	LAMCO Industries	1522	N/A	N/A
PBB01B BOLTING	Westinghouse Electric Corporation	2-9744D36G01	N/A	W26592
PBB01D FLYWHL	Westinghouse Electric Corporation	4-9744D36G01	N/A	W26594
PEJ01A-SUP-1	Pacific Pump Division	51744	N/A	332
RBB01-04	Westinghouse Electric Company	11373	N/A	22244
TBB03-LUG-A-W	Westinghouse Electric Company	2281	N/A	W20688
TBB03-LUG-D-W	Westinghouse Electric Company	2281	N/A	W20688
TEM01-4-W	Southwest Fabricating & Welding, Inc.	0047	N/A	366
TEM01-SUPPORT-4	Southwest Fabricating & Welding, Inc.	0047	N/A	366

APPENDIX B

REPAIR/REPLACEMENT SUMMARY INDEX

REPAIR/REPLACEMENT SUMMARY INDEX

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
Spare Valve S/N ND-38576-03B	30" Butterfly Valve	Repair	Excavated corroded and pitted areas on valve body and repaired by welding.	91-057
Spare Valve S/N ND-38576-03A	30" Butterfly Valve	Repair	Excavated corroded and pitted areas on valve body and repaired by welding.	91-058
BBV0065	RCS Loop 4 to CVCS Excess Letdown Heat Exchanger Isolation Valve	Replacement Modification	Replaced bonnet assembly and bonnet hydro plug and ground head off of hydro plug.	91-105
Spare Coil S/N 906897-A3	Spare Containment Cooler Coil	Repair	Repaired the weld at the upper nozzle to cooling coil header joint and cut and capped the two bottom tube rows in the cooling coil at the inlet and outlet headers.	92-003
EFV0343 EFV0344 EF267HBC-2" EF268HBC-2"	2" Valve 2" Valve 2" Chemical Addition Line 2" Chemical Addition Line	Modification	Modified lines by cutting and installing flanges, replacing the rest of each line with SB462 Alloy 20/SB464 material and redesignate as EF267HUC-2" & EF268HUC-2". Installed a chemical addition nozzle and replaced the two carbon steel valves with stainless steel ones.	92-036
Spare Primary Manway Stud/Nut Assembly S/N 065.	Stud/Nut Assembly	Repair	Polished face of nut to remove a surface scratch.	93-088
BMV0016	2" Globe Valve	Repair	Removed and reinstalled existing seal weld due to leakage.	93-094
BG8118	1-1/2" Relief Valve	Replacement	Replaced valve BG8118 with new spare valve.	93-143
EFV0374 EFV0375 HBC-1" drainline downstream of EFV0176 HBC-1" drainline downstream of EFV0180 EFPDI0111 Instrument Support EFPDI0112 Instrument Support J-14EF11 Q PDI0111 15 tubing support J-14EF11 Q PDI0111 16 tubing support J-14EF11 Q PDI0112 15 tubing support J-14EF11 Q PDI0112 16 tubing support J-14EF11 Q PDI0112 17-2 tubing support	1" Valve 1" Valve 1" Pipe 1" Pipe Instrument support Instrument support 3/8" Tube support 3/8" Tube support 3/8" Tube support 3/8" Tube support 3/8" Tube support	Modification	Performed welding to modify HBC-1" drainlines downstream of valves EFV0176 and EFV0180, added valves EFV0374 and EFV0375, and added new instrument and tubing supports for EFPDI0111 and EFPDI0112.	93-145
BGV0490	1" Globe Valve	Replacement	Performed welding to re-install body to bonnet seal weld and bonnet to plug seal weld.	93-147
J04EG48 15 EG-FT-66 W-1	3/8" Tube Support	Modification	Performed welding to install a new tube support for EGFT0066.	93-149
SGK04A	Control Room HVAC Unit 'A'	Replacement	Replaced the chiller unit Essential Service Water (ESW) inlet and outlet transition pieces.	93-155

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
EFV0046	2-1/2" Swing Check Valve	Modification Replacement	Replaced valve disc with optional valve disc made out of stainless steel.	93-156
EFV0076	2-1/2" Swing Check Valve	Modification Replacement	Replaced valve disc with optional valve disc made out of stainless steel.	93-158
ABPV0002	8" Globe Control Valve	Replacement	Installed a new pilot plug, main plug, one bonnet stud, and one bonnet nut during rework of valve.	93-159
M-18BG35A-C523/112 M-18BG35A-C525/112 M-18BG35A-C527/112 M-18BG35A-C531/112	1" Pipe/Instrument Support	Modification	Performed welding to install new ASME supports in place of non-ASME supports which were installed during construction.	93-160
PKJ03A	PKJ03A Lube Oil Suction and Discharge Piping	Replacement	Replaced two bolts on each flange (suction and discharge) which were too short to obtain full thread engagement.	93-165
SGK04B	Control Room HVAC unit 'B'	Replacement	Replaced chiller unit ESW inlet and outlet transition pieces.	93-167
EC04-R010/611	Fuel Pool Cooling Pump Inlet Piping Restraint	Replacement	Replaced shims on pipe restraint by welding to obtain desired clearances.	93-168
PSL-98A J04KJ01 Q PSL-98B J04KJ01 Q PSL-198A J04KJ01 Q PSL-198B J04KJ01 Q G-SAP-J04KJ01 Q FW-010 16 G-SAP-J04KJ01 Q FW-011 16 G-SAP-J04KJ01 Q FW-012 16 G-SAP-J04KJ01 Q FW-016 16 G-SAP-J04KJ01 Q FW-017 16 G-SAP-J04KJ01 Q FW-018 16	KJPSL-98A Instrument Support KJPSL-98B Instrument Support KJPSL-198A Instrument Support KJPSL-98B Instrument Support KJPI-98A Tubing Support KJPI-98A Tubing Support KJPI-98A Tubing Support KJPI-198A Tubing Support KJPI-198A Tubing Support KJPI-198A Tubing Support	Modification	Performed welding to replace KJPSL-98A, KJPSL-98B, KJPSL-198A and KJPSL-198B instrument supports with a new design support and to relocate KJPI-98A and KJPI-198A instrument and tubing supports.	93-171
Valcor Drawing No. V52600-6042-1 S/N 15	Spare 1" Valcor Solenoid Valve	Replacement	Performed welding to allow rework of valve internals and replacement of valve safe-ends.	94-002
ALHV0030	ESW 'B' to Motor Driven Auxiliary Feedwater Pump 'B' Isolation Valve	Modification Replacement	Replaced valve ALHV0030 with a new design valve per Plant Modification Request (PMR) 04692 and replaced valve to flange connection bolting material.	94-003
ALHV0031	ESW 'A' to Motor Driven Auxiliary Feedwater Pump 'A' Isolation Valve	Modification Replacement	Replaced valve ALHV0031 with a new design valve per PMR 04692 and replaced valve flange bolting material.	94-004
ALHV0032	ESW 'A' to Turbine Driven Auxiliary Feedwater Pump Isolation Valve	Modification Replacement	Replaced valve ALHV0032 with a new design valve per PMR 04692 and replaced studs on valve to flange connection.	94-005
ALHV0033	ESW 'B' to Turbine Driven Auxiliary Feedwater Pump Isolation Valve	Modification Replacement	Replaced valve ALHV0033 with a new design valve per PMR 04692 and replaced studs on valve to flange connection.	94-006
Spare PSA-1/2 Snubber S/N 17780	Spare Pipe Support Snubber	Replacement	Replaced rod & bearing assembly in spare PSA-1/2 snubber S/N 17780.	94-011

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
Spare PSA-100 Snubber S/N 1123	Spare Pipe Support Snubber	Replacement	Replaced Torque Carrier Assembly with new parts.	94-012
SGL10B	Residual Heat Removal (RHR) Pump Room Cooler 'B'	Replacement	Performed brazing to install jumpers over 6 tubes.	94-013
SGL11B	Component Cooling Water (CCW) Pump Room Cooler 'B'	Replacement	Performed brazing to replace leaking fittings.	94-014
EM01-R032/111	Snubber on line EM-047-CCB-4"	Replacement	Replaced snubber S/N 8745 with spare snubber S/N 14990.	94-015
AB01-C009/145	Snubber on line AB-226-DBB-10"	Replacement	Replaced snubber S/N 18380 with spare snubber S/N 17986.	94-016
AB01-R014/145	Snubber at valve AHV0005	Replacement	Replaced snubber S/N 6471 with spare snubber S/N 15019.	94-017
AB08-R531/145	Snubber on line AB-130-DBB-1" at ABLV0008	Replacement	Replaced snubber S/N 20132 with spare snubber S/N 7594.	94-018
AE04-R018/242	Snubber on line AE-145-EBB-3"	Replacement	Replaced snubber S/N 21289 with spare snubber S/N 18383.	94-019
BB02-R034/261	Snubber on line BB-084-BCA-3"	Replacement	Replaced snubber S/N 4946 with spare snubber S/N 5807.	94-020
BB11-R004/232	Snubber on line BB-157-BCB-2"	Replacement	Replaced snubber S/N 13151 with spare snubber S/N 18437.	94-021
BG03-R018/133	Snubber on valve BGHV8152	Replacement	Replaced snubber S/N 26160 with spare snubber S/N 4396.	94-022
BG21-R024/242	Snubber at valve BGHV8147	Replacement	Replaced snubber S/N 27563 with spare snubber S/N 9396.	94-023
BG22-R016/232	Snubber on line BG-001-BCA-3"	Replacement	Replaced snubber S/N 18369 with spare snubber S/N 20272.	94-024
BG26-R501/242	Snubber on line BG -284-BCB-1"	Replacement	Replaced snubber S/N 25906 with spare snubber S/N 25911.	94-025
BM01-C017/231	Snubber on line BM-038-DBB-4"	Replacement	Replaced snubber S/N 13150 with spare snubber S/N 9387.	94-026
BM02-R003/232	Snubber on line BM-014-DBB-4"	Replacement	Replaced snubber S/N 18276 with spare snubber S/N 4400.	94-027
BM19-R509/252	Snubber on line BM-033-DBB-2"	Replacement	Replaced snubber S/N 26386 with spare snubber S/N 18372.	94-028
BM20-R508/231	Snubber on line BM-041DBB-2"	Replacement	Replaced snubber S/N 19068 with spare snubber S/N 7597.	94-029
EF03-R001/142	Snubber on line EF-205-HBC-24"	Replacement	Replaced snubber S/N 14066 with spare snubber S/N 10369.	94-030
EG07-C018/134	Snubber on line EG-175-HBB-12"	Replacement	Replaced snubber S/N 14488 with spare snubber S/N 10378.	94-031
EG07-R030/134	Snubber on line EG-333-HBC-4"	Replacement	Replaced snubber S/N 21515 with spare snubber S/N 7578.	94-032
EJ01-R028/124	Snubber on line EJ-017-ECB-10"	Replacement	Replaced snubber S/N 27593 with spare snubber S/N 27564.	94-033
EM05-R003/231	Snubber on line EM-020-BCA-2"	Replacement	Replaced snubber S/N 3090 with spare snubber S/N 10367.	94-034

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
EM08-R512/112	Snubber on valve EMHV8814B	Replacement	Replaced snubber S/N 20365 with spare snubber S/N 8151.	94-035
EM11-R502/231	Snubber on valve EMHV8890B	Replacement	Replaced snubber S/N 17785 with spare snubber S/N 17809.	94-036
EP08-R508/242	Snubber on line BM-035-DBB-1"	Replacement	Replaced snubber S/N 16454 with spare snubber S/N 25931.	94-037
FC02-R503/125	Snubber on line FC-005-DBC-1"	Replacement	Replaced snubber S/N 11786 with spare snubber S/N 12251.	94-038
GS04-R501/134	Snubber on line GS-020-HCB-1"	Replacement	Replaced snubber S/N 25922 with spare snubber S/N 27900.	94-039
EP02-R005/232	Snubber on line EP-005-BCB-10"	Replacement	Replaced snubber S/N 11681 with spare snubber S/N 12034.	94-042
BGV0100	Charging Pump Discharge Header to Seal Water Injection Filter Isolation Valve	Replacement Modification	Removed and reinstalled the body to bonnet seal weld and also ground off the head of the bonnet hydro plug per Configuration Change Package (CCP) 05159.	94-045
EF05-H003/133 EF05-H004/133	ESW 'B' Train Return Line Supports	Modification	Remove deleted support from the system due to piping modification per PMR 04478.	94-047
EF03-H001/134	ESW 'A' Train Return from Containment Coolers Piping Support	Modification	Deleted pipe support per PMR 04478.	94-048
EFHV0047	ESW 'A' Train Return Line from Containment Cooler Bypass Isolation Valve	Modification	Removed valve EFHV0047 (S/N 7455149) from the system.	94-049
EFHV0048	ESW 'B' Train Return Line from Containment Cooler Bypass Isolation Valve	Modification	Removed valve EFHV0048 (S/N 7455150) from the system.	94-050
EP02-R021/232	Piping Support on Line EP-030-BCA-6"	Replacement	Disassembled and reassemble pipe clamp using new bolting material.	94-051
AB01-C011/145	Piping Support on Line AB-228-DBB-10"	Replacement	Disassembled and reassemble pipe clamp using new bolting material.	94-052
BG01-C016/134	Pipe Support for BG-021-BCB-3"	Modification	Ground off portion of upper horizontal member to allow disassembly of piping.	94-053
AB01-H502/145	Pipe support on line AB-302-DBB-2"	Replacement	Replaced clamp bolting material while clamp was disassembled for Inservice Inspection (ISI).	94-057
AB01-H508/145	Pipe support on line AB-303-DBB-2"	Replacement	Replaced clamp bolting material while clamp was disassembled for ISI.	94-058
GKV0770	SGK04B ESW Inlet Relief Valve	Replacement	Replaced relief valve with new valve S/N TH-75126.	94-059
SGL09B	Safety Injection Pump Room Cooler 'B'	Replacement	Replaced original cooling coil with a new cooling coil unit.	94-062
BG01-R010/132	Pipe support on line BG-020-HCB-4"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-064
EF03-R026/142	Pipe support on line GL-087-HBC-4"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-065

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
EF03-R027/112	Pipe support on line GL-113-HBC-4"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-066
EF03-R029/144	Pipe support on line EF-148-HBC-2 1/2"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-067
EF03-R031/112	Pipe support on line GL-113-HBC-4"	Modification	Replaced snubbers with rigid sway struts per PMR 04580.	94-068
EF03-R033/122	Pipe support on line GL-101-HBC-4"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-069
EF15-R002/341	Pipe support on line EF-115-HBC-4"	Modification	Replaced snubbers with rigid sway struts per PMR 04580.	94-070
EG08-R012/151	Pipe support on valve-EGLV0002	Modification	Replaced snubbers with rigid sway struts per PMR 04580.	94-071
BG03-R012/113	Pipe support on line BG-012-ECB-3"	Modification	Replaced snubbers with rigid sway struts per PMR 04580.	94-072
BG05-R017/132	Pipe support on line BG-206-HCB-3"	Modification	Replaced snubbers with rigid sway struts per PMR 04580.	94-073
BG05-R018/132	Pipe support on line BG-206-HCB-3"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-074
BG05-R501/132	Pipe support on line BG-133-HCB-2"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-075
BG05-R508/132	Pipe support on line BG-133-HCB-2"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-076
BG10-R501/121	Pipe support on line BG-195-HCB-2"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-077
BG15-R014/131	Pipe support on line BG-217-HCC-3"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-078
BG15-R015/112	Pipe support on valve BGHV8104	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-079
BG15-R503/112	Pipe support on line BG-241-HCC-2"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-080
BN01-R012/011	Pipe support on line BN-007-HCB-24"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-081
JE03-R005/521	Pipe support on line JE-063-HBC-4"	Modification	Replaced snubbers with rigid sway struts per PMR 04580.	94-083
EF02-R020/144	Pipe support on line EF-147-HBC-2 1/2"	Modification	Replaced snubbers with rigid sway struts per PMR 04580.	94-084
JE02-R005/521	Pipe support on line JE-062-HBC-4"	Modification	Replaced snubbers with rigid sway struts per PMR 04580.	94-085
EF02-R019/144	Pipe support on line GL-089-HBC-3"	Modification	Replaced snubber with rigid sway strut per PMR 04580.	94-086
BB8378A	Chemical and Volume Control System (CVCS) Normal Charging Check Valve	Replacement	Removed welded bonnet seal cap and replaced bonnet, studs and nuts.	94-087
BB8378B	CVCS Normal Charging Check Valve	Replacement	Removed welded bonnet seal cap and replaced bonnet, studs and nuts.	94-088
GN01-S001/231	ESW 'A' Train Supply to Containment Coolers	Modification	Modified pipe spool by removing a piece of pipe and replacing it with a longer piece of pipe and a flange per PMR 04478.	94-091

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
EF02-S017/134	ESW 'A' Train Supply to Containment Coolers	Modification	Modified pipe spool by removing section of pipe immediately downstream of valve EFHV0031 and replacing it with a longer piece of pipe and a flange per PMR 04478.	94-092
GN01-S030/231	ESW 'A' Train Return from Containment Coolers	Modification	Modified pipe spool by removing a section of pipe and replacing it with a longer section of pipe and a flange per PMR 04478.	94-093
EF05-S024/133	ESW 'B' Train Return from Containment Coolers	Modification	Modified pipe spool by replacing it in it's entirety with a pipe and flange per PMR 04478.	94-094
EF04-S020/133	ESW 'B' Train Supply to Containment Coolers	Modification	Modified pipe spool by replacing a piece of pipe immediately downstream of valve EFHV0032 with a new piece of pipe and a flange per PMR 04478.	94-095
EF03-S018/134	ESW 'A' Train Return from Containment Coolers	Modification	Modified pipe spool by replacing it in it's entirety with a pipe and flange per PMR 04478.	94-096
GN02-S001/231	ESW 'B' Train Supply to Containment Coolers	Modification	Modified pipe spool by removing a section of pipe and replacing it with a longer section of pipe and a flange per PMR 04478.	94-097
GN02-S036/231	ESW 'B' Train Return from Containment Coolers	Modification	Modified pipe spool by removing a piece of pipe immediately downstream of EFHV0046 and replacing it with new pipe and a flange per PMR 04478.	94-098
BGV0102	Seal Water Injection Filter 'A' Outlet Isolation Valve	Replacement	Replaced valve BGV0102, added a coupling downstream of the valve and replaced a short section of pipe on each side of the valve.	94-100
BB8010A	Pressurizer Safety Relief Valve 'A'	Replacement	Replaced BB8010A with spare valve .	94-101
BB8010C	Pressurizer Safety Relief Valve 'C'	Replacement	Replaced BB8010C with spare valve .	94-102
BB8010B	Pressurizer Safety Relief Valve 'B'	Replacement	Replaced BB8010B with spare valve .	94-103
BGV0101	Seal Water Injection Filter 'A' Inlet Isolation Valve	Replacement	Replaced bonnet assembly on valve BGV0101.	94-104
BG01-R015/112	Snubber at valve BGHV8109	Replacement	Replaced snubber S/N 15013 with spare snubber S/N 8535.	94-105
AE05-R012/241	Snubber on line AE-079-EBB-14"	Replacement	Replaced snubber S/N 1111 with spare snubber S/N 1376.	94-106
EJ04-R019/231	Snubber on valve BBPV8702B	Replacement	Replaced snubber S/N 1386 with spare snubber S/N 1980.	94-107
RBB01 Closure Head (Instrument Ports 75, 76, 77, and 78)	Reactor Vessel Closure Head Instrument Port Connectors at Penetrations 75, 76, 77, and 78.	Modification	Modified the core exit thermocouple nozzle assemblies on the reactor vessel head at penetrations: 75, 76, 77, and 78 per PMR 02749.	94-109
BGV0198	Reactor Coolant Pump (RCP) Seal Water Injection Throttle Valve	Modification	Modified valve BGV0198 by installing a Dragon throttle valve per PMR 04437.	94-110
BGV0199	RCP Seal Water Injection Throttle Valve	Modification	Modified valve BGV0199 by installing a Dragon throttle valve per PMR 04437.	94-111

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
BGV0200	RCP Seal Water Injection Throttle Valve	Modification	Modified valve BGV0200 by installing a Dragon throttle valve per PMR 04437.	94-112
BGV0201	RCP Seal Water Injection Throttle Valve	Modification	Modified valve BGV0201 by installing a Dragon throttle valve per PMR 04437.	94-113
GKV0772	SGK05B ESW Inlet Relief Valve	Replacement	Replaced relief valve with reworked spare valve S/N TH-75124.	94-114
BGV0202 BG-176-BCB-2" BG-177-HCB-2"	RCP Seal Water Injection Throttle Valve and Supply and Return Lines	Modification Repair Replacement	Modified valve BGV0202 by installing a Dragon throttle valve per PMR 04437, repaired an arc strike on the replacement valve body and replaced a reducer, a coupling and a short section of pipe on each side of the valve.	94-116
DPBB01C Air & Oil Coolers	RCP 'C' Motor Air and Oil Coolers	Replacement	Installed spare RCP Motor air & oil coolers on DPBB01C.	94-117
BM-009-DBB-2" BM-021-DBB-2" BM-033-DBB-2" BM-045-DBB-2"	Blowdown Line Nozzles on Steam Generators A, B, C & D	Modification	Reworked nozzle to line welds by grinding, blending and welding in accordance with PMR 04579 to obtain the required profile for concave unequal leg fillet welds as shown in ASME Section III Fig. NC-3673-2(b)-3,(D).	94-118
EJHV8804B	RHR to Safety Injection Pump 'B' Isolation	Replacement	Replaced the body to bonnet studs and nuts on EJHV8804B.	94-121
EF02-R017/134	Pipe Support for EF-067-HBB-14" ESW 'A' Train Supply to Containment Coolers	Replacement Repair	Removed portion of support to allow modification per PMR 04478, repaired damage to vertical member and replaced horizontal member.	94-122
BB04-R044/232	Pipe Support for Line BB-023-BCA-4"	Replacement	Removed two structural members, repaired one structural member which was gouged during disassembly and reinstalled removed members.	94-123
Steam Generator Inlet Restraints for Loops 1, 2, 3, and 4	Loops 1, 2, 3 & 4 Steam Generator Inlet Restraints	Modification	Deleted supports from the system by removing the pipe saddles, shims and clamp assemblies.	94-124
EFHV0050	ESW 'B' Train Return from Containment Coolers Outside Containment Isolation Valve	Modification	Replaced valve EFHV0050 with a new style 14" Wafer-Sphere valve per PMR 04478 using new bolting material	94-125
EFHV0031	ESW 'A' Train Supply to Containment Coolers Outside Containment Isolation Valve	Modification	Replaced valve EFHV0031 with a new style 14" Wafer-Sphere Valve per PMR 04478 using new bolting material.	94-126
EFHV0032	ESW 'B' Train Supply to Containment Coolers Outside Containment Isolation Valve	Modification	Replaced valve EFHV0032 with a new style 14" Wafer-Sphere Valve per PMR 04478 using new bolting material.	94-127
EFHV0049	ESW 'A' Train Return from Containment Coolers Outside Containment Isolation Valve	Modification	Replaced valve EFHV0049 with a new style 14" Wafer-Sphere Valve per PMR 04478 using new bolting material.	94-128
EF05-S050/133 EF05-S023/133	ESW 'B' Train Return from Containment Coolers	Modifications	Modified piping to install a flow orifice and eliminate the 10" bypass line.	94-129

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
EF03-S017/134 EF03-S059/134 EF03-S060/134	ESW 'A' Train Return from Containment Coolers	Modification	Modified piping to install an orifice plate and eliminate the 10" bypass line.	94-130
ECV7129	Refueling Pool Drain Isolation Valve	Modification	Replaced diaphragm type valve with a ball valve per PMR 04703.	94-131
EBB01A, B, C & D Hydraulic Snubbers Snubbers 2 and 3 on EBB01A Snubbers 6 and 7 on EBB01B Snubbers 10 and 11 on EBB01C Snubbers 14 and 15 on EBB01D	Hydraulic Snubbers for Steam Generators	Modification	Modified 8 of the 16 Steam Generator hydraulic snubbers to make them into mechanical struts per PMR 04579.	94-132
EFHV0033	ESW 'A' Train Supply to Containment Coolers Inside Containment Isolation Valve	Modification	Replaced valve EFHV0033 with a new style 14" Wafer-Sphere valve per PMR 04478 using new bolting material.	94-133
EFHV0046	ESW 'B' Train Return from Containment Coolers Inside Containment Isolation Valve	Modification	Replaced valve EFHV0046 with a new style 14" Wafer-Sphere valve per PMR 04478 using new bolting material.	94-134
EFHV0045	ESW 'A' Train Return from Containment Coolers Inside Containment Isolation Valve	Modification	Replaced valve EFHV0045 with a new style 14" Wafer-Sphere valve per PMR 04478 using new bolting material.	94-135
EFHV0034	ESW 'B' Train Supply to Containment Coolers Inside Containment Isolation Valve	Modification	Replaced valve EFHV0034 with a new style 14" Wafer-Sphere valve per PMR 04478 using new bolting material.	94-136
EF03-C034/134	ESW 'A' Train Support on Line EF-068-HBB-14"	Modification Replacement	Modified pipe support to obtain new configuration per PMR 04478 using new pipe clamp, strut and bolting material.	94-137
ABV0057	Steam Generator 'A' Safety Relief Valve	Replacement	Replaced Main Steam Safety Relief Valve with a like valve.	94-138
ABV0056	Steam Generator 'A' Safety Relief Valve	Replacement	Replaced Main Steam Safety Relief Valve with a like valve.	94-139
PBB01D	Pins for Seismic Restraint Tie Rods TR-4 & TR-5	Modification	Replaced Tie Rod Pins with new design pins per PMR 04649.	94-140
KJXJ05B	Diesel Generator 'B' Exhaust Bellows 5B	Replacement	Replaced a bellows cover clip by welding the clip to the bellows flange.	94-141
PBB01C	Pins for Seismic Restraint Tie Rods TR-4 & TR-5	Modification	Replaced Tie Rod Pins with new design pins per PMR 04649.	94-142
PBB01B	Pins for Seismic Restraint Tie Rods TR-1 & TR-3	Modification	Replaced Tie Rod Pins with new design pins per PMR 04649.	94-143
PBB01A	Pins for Seismic Restraint Tie Rods TR-1 & TR-3	Modification	Replaced Tie Rod Pins with new design pins per PMR 04649.	94-144
AFV0122	Steam Generator 'D' Feedwater Inlet Check Valve	Replacement Repair Modification	Removed hinge pin encapsulations from valve body. Replaced valve disc with 2% nominal Cr alloy disc. Installed new design hinge pin bonnets and covers. Replaced three valve bonnet studs with new material. Repaired valve bonnet by machining to remove a defect from the pressure seal area.	94-145

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
AEV0123	Steam Generator 'C' Feedwater Inlet Check Valve	Repair Modification	Removed hinge pin encapsulations from valve body. Replaced valve disc with 2% nominal Cr alloy disc. Installed new design hinge pin bonnets and covers. Repaired gouged areas on valve body by welding.	94-146
AEV0120	Steam Generator 'B' Feedwater Inlet Check Valve	Replacement Modification	Removed hinge pin encapsulations from valve body. Replaced valve disc with 2% nominal Cr alloy disc. Installed new design hinge pin bonnets and covers. Replaced all valve bonnet studs with new material.	94-147
PEJ01B	Residual Heat Removal Pump 'B'	Replacement Modification	Replaced seal housing and drilled a hole in it for an antirotation pin.	94-148
EF06-S018/125	ESW Supply to Auxiliary Feedwater Pump Room Cooler 'B' - SGF02B	Replacement Repair	Replaced a one foot section of pipe and blended one linear indication on each side of the replaced portion of pipe.	94-149
EKJ03A	Diesel Generator 'A' Intercooler Heat Exchanger	Replacement	Removed and reworked the outlet waterbox interior small nozzle welds and the interior weld for the flange at the heat exchanger end.	94-150
EKJ01A	Diesel Generator 'A' Lube Oil Heat Exchanger	Replacement	Removed and reworked the outlet waterbox interior small nozzle welds and the interior weld for the flange at the heat exchanger end.	94-151
EJ01-C016/132	Pipe Support on Line EJ-017-ECB-10"	Replacement	Replaced bolting material on lower pipe clamp on EJ01-C016/132.	94-152
EF02-S016/134 EF02-S051/134	ESW 'B' Train Supply to Containment Coolers	Modification	Deleted pipe spool S051 and modified spool S016 by removing a section of pipe and replacing it with a longer section of pipe per PMR 04478.	94-153
EP8818C	RHR to Accumulator Injection Line Check Valve	Replacement	Replaced one bonnet stud and one bonnet nut with new material.	94-154
PBB01A	Reactor Coolant Pump 'A'	Replacement	Replaced seal cartridge assembly including the No. 2 seal housing.	94-155
EF04-R011/133	Pipe Support for Line EF-117-HBC-14"	Replacement	Removed the horizontal W4X13 beam from the support and reinstalled, using new material, after completion of piping modification.	94-156
EF04-S019/133 EF04-S041/133	ESW 'B' Train Supply to Containment Coolers	Modification	Modified pipe spool EF04-S019 to allow deletion of EF04-S041 and installation of new style valve per PMR 04478.	94-157
BGV0001	CVCS Letdown Orifice 'C' Outlet Throttle Valve	Replacement	Replaced valve stem/disc assembly with new part.	94-158
EKJ04B	Diesel Generator 'B' Lube Oil Heat Exchanger	Replacement	Removed and reworked the outlet waterbox interior small nozzle welds and the interior weld for the flange at the heat exchanger end.	94-159
EBB01A	Steam Generator 'A' Hot Leg Primary Manway Stud/Nut Assembly Location AH10	Replacement	Replaced primary manway stud/nut assembly AH10 on the hot leg side primary manway with a new spare.	94-160
EG24-R009/111	Pipe Support for Line EG-27-HBC-2-1/2"	Replacement	Removed and reinstalled pipe support to allow rework of Centrifugal Charging Pump PBG05B.	94-161

COMPONENT	DESCRIPTION	TYPE	DESCRIPTION	DOCUMENT
EBB01A	Bare Hole Plug in Row 24 Column 108 Cold Leg Side in Steam Generator 'A'	Replacement	Removed bare hole plugs due to indications found during Eddy Current examination and replaced with a new plug per CCP 05420.	94-162
BBHV8157A BBHV8157B	Excess Letdown to Pressurizer Relief Tank Control Valves	Repair	Repaired (modified) the surface profiles of the 1" pipe to valve welds to obtain the full fillet profile shown in Fig. NC-3673-2(b)-3, (D) by grinding, blending and welding per PMR 04394.	94-163
BGHV8357A BGHV8357B	Centrifugal Charging Pump Supply to Seal Injection Control Valve	Repair	Repaired (modified) the surface profiles of the 1" pipe to valve welds to obtain the full fillet profile shown in Fig. NC-3673-2(b)-3, (D) by grinding, blending and welding per PMR 04394.	94-164
EG06-S025/113	CCW Return from Letdown Heat Exchanger	Replacement	Replaced two sections of pipe, a 45° elbow and a 90° elbow in pipe spool EG06-S025/113.	94-166
BGHCV0182	Charging Pump Discharge to Regenerative Heat Exchanger Isolation Valve	Replacement	Replaced valve plug/stem assembly.	94-167
BBPCV0455A	Pressurizer Power Operated Relief Valve	Replacement	Replaced the solenoid valve on BBPCV0455A.	94-168
EBB01D Upper Lateral Support Shims SB-1, SB-2 & SB-3	Steam Generator Upper Lateral Support - SB-1, SB-2 and SB-3	Replacement	Removed, machined and reinstalled shims as necessary to provide adequate clearance for Steam Generator movement during heat-up.	94-169
PBB01D Tie Rod S/N 1378	Reactor Coolant Pump PBB01D Tie Rod TR-4	Replacement Modification	Replaced spacer plates between pump PBB01D and Tie Rod TR-4 with new material and added new shim between the spanner nut and washer securing TR-4 to PBB01D, to maintain desired clearances, per PMR 04649.	94-170
FBG04A	Seal Water Injection Filter 'A'	Replacement Repair	Repaired top head of filter shell by grinding and blending and replaced one closure bolt assembly.	94-171
ABPV0003	Steam Generator 'C' Atmospheric Relief Valve	Replacement	Replaced the main plug and pilot plug in valve ABPV0003.	94-172
GN02-C028/251	Pipe Support on Line GN-054-HBC-10"	Modification	Replaced the paddle end on a Corner & Lada rigid strut with one manufactured by ITT Grinnell.	94-173