



WOLF CREEK GENERATING STATION

P.O. Box 411, Burlington, Kansas 66839

INSERVICE INSPECTION REPORT

Date of Report Completion: August 11, 1993

Commercial Service Date: September 3, 1985

Operating Capacity: 3411 MWt

Refuel Outage: 6

Interval: 1

Period: 3

Prepared By:

Wolf Creek Nuclear Operating Corporation

P.O. Box 411

Burlington, Kansas 66839

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INTRODUCTION

INTRODUCTION

Wolf Creek Nuclear Operating Corporation is reporting the examinations, tests and repair/replacements conducted on ASME Class Components for Refuel Outage 6. 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, Thomas Laps and Gary Peck and 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 Ed. W'81 Add. The ISI Program Plan is administrated by the Wolf Creek Results Engineering department.

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 Ed. W'81 Add. These tests were conducted on ASME Class 1, 2, and 3 Systems and received visual (VT-2) examination by Wolf Creek Generating Station (WCGS) Quality Control personnel.

Steam Generator Tube Inspection

The steam generator tubes are inspected in accordance with WCGS Technical Specifications 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 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:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1696	AE-05-R028	MT	C-C	C3.20	Main Feedwater Loop 4, Integrally Welded Lugs on 14" Main Feedwater Header

Condition: Two linear indications were found when examining support lug FW501.

Corrective Action: None. An engineering evaluation has determined that the indications are not service induced and do not constitute an ISI Section XI failure (reference Work Request [WR] 01478-93). These indications were further blended, re-examined and found acceptable.

EXAM INDICATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
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 Refuel Outage 5. However, the results were inconclusive.

Corrective Action: Re-examine in Refuel Outage 7 for growth and trending.

EXAM INDICATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
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: Two 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 Refuel Outage 5. However, the results were inconclusive.

Corrective Action: Re-examine in Refuel Outage 7 for growth and trending.

EXAM INDICATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-01-F204	PT	B-J	B9.11	Reactor Coolant Loop 2 Hot Leg, 29" X 31" Elbow to Steam Generator B" Inlet Nozzle

Condition: Six linear indications were found on the examination surface. All of the indications were sized and found acceptable. This was re-examination from Refuel Outage 5 for growth and trending. No growth was apparent for any of the indications.

Corrective Action: None. The component will be inspected in Interval 2 as defined by the ISI Program Plan.

EXAM INDICATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	GN02-C026-251	VT-3	FC	N/A	Two sway struts on line 50 which is the Essential Service Water (ESW) supply to SGN01D.

Condition: ISI failure due to bearing race being loose in paddle at the WBA end which connects to the beam. Also, there was a slight displacement of the bearing race at forward load pin connecting to beam.

Corrective Action: The engineering evaluation (reference WR 01450-93) determined the ISI failure to be "UNEXPLAINED". This is the first ISI failure in examination Group #1 and therefore does not require and expanded inspection scope at this time. The upstream and downstream supports (GN02-R012 and GN02-R014) were inspected and found acceptable.

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-02-F010	UT	B-J	B9.11 *	Accumulator Safety Injection Loop 2, Valve 8818B to 6" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (valve to pipe configuration) and material construction. 67% of the weld required volume is examined in one beam direction. 33% of the weld required volume is examined in two beam directions.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-02-F021	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, Valve 8818C to 6" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (valve to pipe configuration) and material construction. 72% of the weld required volume is examined in one beam direction. 28% of the weld required volume receives no angle beam coverage.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-02-S003-G	UT	B-J	B9.11	Accumulator Safety Injection Loop 2, 10" x 10" x 6" Tee to 10" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (tee to pipe configuration) and material construction. 100% of the weld required volume is examined in only one angle beam direction.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-02-S008-D	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" x 10" x 6" Tee to 10" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (tee to pipe configuration) and material construction. 100% of the weld required volume is examined in only one angle beam direction.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-02-S008-F	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" Pipe to 10" x 10" x 6" Tee

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to tee configuration) and material construction. 100% of the weld required volume is examined in only one angle beam direction.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	BG-23-F003A	UT	N/A	N/A	Charging Line, Valve 8381 to 3" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (valve to pipe configuration) and material construction. 82% of the weld required volume is examined in one beam direction, 9% of the weld required volume is examined in two beam directions and 9% of the weld required volume receives no angle beam coverage.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	BG-23-F004	UT	N/A	N/A	Charging Line, 3" Pipe to Valve 8381

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 82% of the weld required volume is examined in one beam direction, 9% of the weld required volume is examined in two beam directions and 9% of the weld required volume receives no angle beam coverage.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	BG-23-F005	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 shrinkage at the toe of the weld causing loss of search unit contact due to lift off. 37% of the weld required volume receives no angle beam coverage.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-04-F047	UT	C-F	C5.21	Residual Heat Removal Train "A", Valve HV-8701A to 12" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry (valve to pipe configuration) and material construction. 62.5% of the weld required volume is examined in one beam direction. 37.5% of the weld required volume is examined in two beam directions.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-04-S002-D	UT	C-F	C5.21	Residual Heat Removal Train "B", 10" Elbow to 10" Pipe

Condition: A 4" vertical pipe is in direct contact with the subject weld.
This obstruction limits the volumetric examination by approximately 8.9%
when using a 45 degree shear wave angle beam.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-04-F001	UT	B-J	B9.11	4" Pipe to 4" Pressurizer Spray Nozzle Safe-End

Condition: The volumetric examination of the subject weld is limited due to geometry
(pipe to safe-end configuration) and material construction. 58% of the
weld required volume is examined in one beam direction, 9% of the weld
required volume is examined in two beam directions, and 33% of the weld
required volume receives no angle beam coverage.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-04-F014	UT	B-J	B9.11	Pressurizer Spray Line, Valve PCV-455C to 4" Pipe

Condition: The volumetric examination of the subject weld is limited due to geometry
(valve to pipe configuration) and material construction. 100% of the weld
required volume is examined in only one angle beam direction.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-04-F015	UT	B-J	B9.11	Pressurizer Spray Line, 4" Pipe to Valve PCV-455C

Condition: The volumetric examination of the subject weld is limited due to geometry (pipe to valve configuration) and material construction. 100% of the weld required volume is examined in only one angle beam direction.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-08-FW304	UT/PT	N/A	N/A	Reactor Coolant Pump "A" Seal Water Injection, 2" pipe to 2" pipe

Condition: The surface and volumetric examination of the subject weld is unable to be performed due to a permanent box hanger located directly over the subject weld.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-09-V178-1	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, Valve V178 to 2" Pup Piece

Condition: The volumetric examination of the subject weld is limited due to geometry (valve to pipe configuration) and material construction. 93.5% of the weld required volume is examined in only one angle beam direction.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01A-SEAM-8-W	UT	C-A	C1.20	Steam Generator "A" Shell Section D to Top Head

Condition: The volumetric examination of the subject weld is limited by positioning lugs (4) located every 90 degrees. The examination is limited in the axial direction in the following way: 0.3% of the weld required volume (WRV) did not receive a 60 degree shear wave exam, 0.3% of the WRV received one direction 45 degree shear wave exam and 0.3% of the WRV received one direction 60 degree shear wave exam.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01A-16-W	UT	C-B	C2.21	Steam Generator "A" Steam Nozzle to Shell

Condition: The volumetric examination of the subject weld is limited due to the nozzle blend interference on the nozzle side of the weld. Approximately 78% of the weld and base metal was examined with the 60 degree and approximately 90% is complete with the 45 degree examination.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01D-SEAM-1-W	UT	B-B	B2.40	Steam Generator "D" Bottom Head to Tubesheet

Condition: The volumetric examination of the subject weld is limited due to interfering obstructions. 22.4% of the weld required volume received no angle beam coverage due to four (4) support legs. 66% of the weld can not be scanned in two directions with 60 degree angle beam due to the proximity of the flange. 0.66% and 0.1% of the weld required volume can not be scanned in two directions with 60 degree and 45 degree angle beams respectively due to the location of the code data plate.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1709	TBB03-10A-IR	UT	B-D	B3.120	Pressurizer Surge Nozzle Inner Radius

Condition: The volumetric examination of the subject weld is limited due to the nozzle configuration and the pressurizer heater penetrations. 70% of the weld required volume is not examined.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1709	TBB03-10A-W	UT	B-D	B3.110	Pressurizer Surge Nozzle to Bottom Head

Condition: The volumetric examination of the subject weld is limited due to the nozzle to shell configuration and the pressurizer heater penetrations. 35% of the weld required volume can not be 0 degree and parallel angle beam examined. The weld can only be perpendicularly inspected in one direction. The adjacent base metal (8% for 60 degree and 11.6% for 45%) received no perpendicular angle beam examination.

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

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1709	TBB03-2-W	UT	B-F	B5.40	Pressurizer Spray Nozzle to Safe-End

Condition: The volumetric examination of the subject weld is limited due to the nozzle to safe-end configuration. 54% of the weld required volume is examined in one beam direction. 46% of the weld required volume is examined in two beam directions.

Corrective Action: Relief for this limited examination has been granted by the NRC on letter dated November 12, 1987 to Mr. Bart Withers from Jose A. Calvo (reference WCNO letter number 87-02427).

EXAM LIMITATION:

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1710	CH-103-101	UT	B-A	B1.21	Closure Head Circumferential Weld

Condition: The volumetric examination of the subject weld and weld required volume is limited due to interfering obstructions. 16.8% (with 45 degree) and 47.3% (with 60 degree) of the weld is not scanned due to the cooling duct ring interfering. 5.3% of the weld required volume was not examined due to the lifting lugs interfering.

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)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-02-F010	PT	B-J	B9.11	Accumulator Safety Injection Loop 2, Valve 8818B to 6" Pipe
83A1694	EP-02-F018	PT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" Elbow to 10" Nozzle
83A1694	EP-02-F019	PT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" Elbow to 10" Nozzle
83A1694	EP-02-F020	PT	B-J	B9.11	Accumulator Safety Injection Loop 3, 6" Pipe to 10" x 10" x 6" Tee
83A1694	EP-02-F021	PT	B-J	B9.11	Accumulator Safety Injection Loop 3, Valve 8818C to 6" Pipe
83A1694	EP-02-S003-G	PT	B-J	B9.11	Accumulator Safety Injection Loop 2, 10" x 10" x 6" Tee to 10" Pipe
83A1694	EP-02-S008-D	PT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" x 10" x 6" Tee to 10" Pipe
83A1694	EP-02-S008-F	PT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" Pipe to 10" x 10" x 6" Tee
83A1694	EP-02-V020-2	PT	B-J	B9.21	Accumulator Safety Injection Loop 2, Valve V020 to Pup Piece (Downstream)
83A1694	EP-02-V030-2	PT	B-J	B9.21	Accumulator Safety Injection Loop 3, Valve V030 to Pup Piece (Downstream)

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-03-BBV001-1	PT	B-J	B9.21	Boron Injection Tank to Reactor Coolant Cold Leg Loop 1, Valve BBV001 to 1.5" Pup Piece
83A1695	EM-03-BBV059-1	PT	B-J	B9.21	Boron Injection Tank to Reactor Coolant Cold Leg Loop 4, Valve BBV059 to 1.5" Pup Piece
83A1695	EM-03-F009	PT	B-J	B9.11	Safety Injection Pumps to Reactor Coolant Hot Leg Loop 2, 6" Elbow to 6" Pipe

EXAMINATION
ISI SURFACE EXAMS

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM) (Continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-03-F010	PT	B-J	B9.11	Safety Injection Pumps to Reactor Coolant Hot Leg Loop 2, Valve 8949B to 6" Pipe
83A1695	EM-03-FW301A	PT	B-J	B9.21	Boron Injection Tank Header, 1.5" Nipolet to 1.5" Pipe
83A1695	EM-03-FW303A	PT	B-J	B9.21	Boron Injection Tank Header, 1.5" Nipolet to 1.5" Pipe
83A1695	EM-03-FW304	PT	B-J	B9.21	Boron Injection Tank Header, 1.5" Nipolet to 1.5" Pipe
83A1695	EM-03-FW308	PT	B-J	B9.32	Boron Injection Tank Header, 3" Pipe to 1.5" Nipolet
83A1695	EM-03-FW309	PT	B-J	B9.32	Boron Injection Tank Header, 3" Pipe to 1.5" Nipolet
83A1695	EM-03-FW310	PT	B-J	B9.32	Boron Injection Tank Header, 3" Pipe to 1.5" Nipolet
83A1695	EM-03-FW573	PT	B-J	B9.21	Boron Injection Tank to Reactor Coolant Cold Leg Loop 1, 1.5" Nipolet to 1.5" Pipe
83A1695	EM-03-FW577	PT	B-J	B9.21	Boron Injection Tank to Reactor Coolant Cold Leg Loop 4, 3" X 1.5" Reducer to 1.5" Pipe
83A1695	EM-03-S011-D	PT	B-J	B9.11	Safety Injection Pumps to Reactor Coolant Hot Leg Loop 2, 6" Pipe to 6" Elbow

MAIN FEEDWATER SYSTEM (AE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1696	AE-05-F011	PT	C-F	C5.21	Main Feedwater Loop 4, 14" Elbow TO 14" Pipe
83A1696	AE-05-F024	MT	C-F	C5.21	Main Feedwater Loop 3, Flued Head (P-8) to 14" Pipe
83A1696	AE-05-R006	MT	C-C	C3.20	Main Feedwater Loop 4, Integrally Welded Lugs on 14" Main Feedwater Header
83A1696	AE-05-R017	MT	C-C	C3.20	Main Feedwater Loop 3, Integrally Welded Lugs on 14" Main Feedwater Header

EXAMINATION
ISI SURFACE EXAMS

MAIN FEEDWATER SYSTEM (AE) (Continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1696	AE-05-R023	MT	C-C	C3.20	Main Feedwater Loop 4, Integrally Welded Lugs on 14" Main Feedwater Header
83A1696	AE-05-R027	MT	C-C	C3.20	Main Feedwater Loop 4, Integrally Welded Lugs on 14" Main Feedwater Header
83A1696	AE-05-R028	MT	C-C	C3.20	Main Feedwater Loop 4, Integrally Welded Lugs on 14" Main Feedwater Header

MAIN STEAM SYSTEM (AB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1697	AB-01-R007	MT	C-C	C3.20	Main Steam Loop 3, Integrally Welded Lugs on 28" Main Steam Header
83A1697	AB-01-S027-A	PT	C-F	C5.21	Main Steam Loop 3, 32" Main Steam Header to 32" X 28" Reducer
83A1697	AB-01-S027-A-LU	PT	C-F	C5.22	Main Steam Loop 3, 32" Pipe - Longitudinal Seam Upstream

CHEMICAL & VOLUME CONTROL SYSTEM (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	BG-22-S001-F	PT	B-J	B9.32	Reactor Coolant System Loop 3 (via Letdown line) to Reactor Coolant Drain Tank, 2" Nipolet to 3" Pipe
83A1698	BG-24-FW551	PT	B-J	B9.21	Auxiliary Spray Line, Valve HV8145 to 2" Pipe
83A1698	BG-24-FW575	PT	B-J	B9.21	Auxiliary Spray Line, 2" Pipe to 2" Weldolet
83A1698	HB-24-FW518A	PT	B-J	B9.21	Reactor Coolant System Loop 3 (via Letdown line) to Reactor Coolant Drain Tank, valve V047 to 2" Pipe
83A1698	HB-24-FW519	PT	B-J	B9.21	Reactor Coolant System Loop 3 (via Letdown line) to Reactor Coolant Drain Tank, 2" Pipe to 2" Nipolet

EXAMINATION
ISI SURFACE EXAMS

RESIDUAL HEAT REMOVAL SYSTEM (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-02-S027-C	PT	C-F	C5.12	Residual Heat Removal Heat Exchanger 'B' outlet line, 10" Pipe to 10" x 10" x 8" Tee
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
83A1699	EJ-04-A003	PT	C-C	C3.20	Residual Heat Removal Train "B", Integral Attachment Plate
83A1699	EJ-04-F030	PT	B-J	B9.11	Residual Heat Removal Train "B", 12" Pipe to 12" Nozzle
83A1699	EJ-04-F031	PT	B-J	B9.11	Residual Heat Removal Train "A", 12" Pipe to Valve PV8702A
83A1699	EJ-04-F047	PT	C-F	C5.21	Residual Heat Removal Train "A", Valve HV-8701A to 12" Pipe
83A1699	EJ-04-FW371	PT	C-F	C5.21	Residual Heat Removal Train "B", 10" x 10" x 6" Tee to 6" Pipe
83A1699	EJ-04-FW906A	PT	B-J	B9.11	Residual Heat Removal Train "A", 12" Elbow to 12" Pipe
83A1699	EJ-04-R005	PT	C-C	C3.20	Residual Heat Removal to Safety Injection Loop 2, Pipe Support Integral Attachment
83A1699	EJ-04-R006	PT	C-C	C3.20	Residual Heat Removal to Safety Injection Loop 3, Pipe Support Integral Attachment
83A1699	EJ-04-S002-D	PT	C-F	C5.21	Residual Heat Removal Train "B", 10" Elbow to 10" Pipe
83A1699	EJ-04-S002-D-LD	PT	C-F	C5.22	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-04-S002-D-LU	PT	C-F	C5.22	Residual Heat Removal Train "B", 10" Elbow Longitudinal Seam Upstream
83A1699	EJ-04-S002-E	PT	C-F	C5.21	Residual Heat Removal Train "B", 10" Pipe to 10" X 6" Reducer
83A1699	EJ-04-S002-E-LU	PT	C-F	C5.22	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-04-S018-F	PT	B-J	B9.31	Residual Heat Removal Train "A", 12" X 6" Sweepolet to 12" Pipe

EXAMINATION
ISI SURFACE EXAMS

REACTOR COOLANT SYSTEM (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-01-F204	PT	B-J	B9.11	Reactor Coolant Loop 2 cold leg, 29" X 31" Elbow to Steam Generator B inlet nozzle
83A1700	BB-02-F006A	PT	B-J	B9.11	Pressurizer Safety Nozzle Safe-End to 6" Pipe
83A1700	BB-04-F001	PT	B-J	B9.11	4" pipe to 4" Pressurizer Spray Nozzle Safe-End
83A1700	BB-04-F008	PT	B-J	B9.11	Pressurizer Spray Line, 4" Pipe to 4" Elbow
83A1700	BB-04-F012A	PT	B-J	B9.11	Pressurizer Spray Line, 4" Nozzle on Reactor Coolant Cold Leg Loop 1 to 4" Elbow
83A1700	BB-04-F014	PT	B-J	B9.11	Pressurizer Spray line, Valve PCV-455C to 4" Pipe
83A1700	BB-04-F015	PT	B-J	B9.11	Pressurizer Spray Line, 4" Pipe to Valve PCV-455C
83A1700	BB-04-F022A	PT	B-J	B9.11	Pressurizer Spray Line, 4" Nozzle on Reactor Coolant Cold Leg Loop 2 to 4" Elbow
83A1700	BB-04-S002-L	PT	B-J	B9.32	Pressurizer Spray Line, 6" Pipe to 2" Weldolet
83A1700	BB-06-FW500A	PT	B-J	B9.21	Pressurizer Spray Line, 2" Pipe to Thermal Well
83A1700	BB-09-F002A	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to Flued Head (P-39)
83A1700	BB-09-FW305	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Pipe
83A1700	BB-09-FW539B	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pup Piece to 2" Pipe
83A1700	BB-09-FW540	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Pup Piece
83A1700	BB-09-FW545A	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Tee to 2" Pipe
83A1700	BB-09-FW546	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to Valve V179

EXAMINATION
ISI SURFACE EXAMS

REACTOR COOLANT SYSTEM (BB) (Continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-09-FW547A	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, Valve V179 to 2" Pipe
83A1700	BB-09-V178-1	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, Valve V178 to 2" Pup Piece
83A1700	BB-09-V178-2	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pup Piece to Valve V178
83A1700	BB-09-V181-1	PT	B-J	B9.21	Reactor Coolant Pump "C" Seal Water Injection Line, Valve V181 to 2" Pup Piece
83A1700	BB-09-W537	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Elbow to 2" Pipe
83A1700	BB-09-W538	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Elbow
83A1700	BB-09-W541	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Tee
83A1700	BB-09-W542	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Tee to 2" Pipe
83A1700	BB-09-W543	PT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" x .75" Reducer
83A1700	BB-11-FW540	PT	B-J	B9.21	Reactor Coolant Pump "B" Seal Water Injection Line, 2" Pup Piece to 2" Pup Piece
83A1700	BB-11-V151-2	PT	B-J	B9.21	Reactor Coolant Pump "B" Seal Water Injection Line, 2" Pup Piece to Valve V151
83A1700	HB-24-FW503A	PT	B-J	B9.21	Reactor Coolant Loop 1 to Radwaste, 2" Pipe to Valve V008

STEAM GENERATOR (EBB01A)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01A-16-W	PT	C-B	C2.21	Steam Generator "A" Steam Nozzle

EXAMINATION
ISI SURFACE EXAMS

PRESSURIZER (TBB03)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1709	TBB03-1-W	PT	B-F	B5.40	Pressurizer Surge Nozzle to Safe-End
83A1709	TBB03-2-W	PT	B-F	B5.40	Pressurizer Spray Nozzle to Safe-End
83A1709	TBB03-LUG-A-W	PT	B-H	B8.20	Pressurizer Seismic Lug Support
83A1709	TBB03-LUG-D-W	PT	B-H	B8.20	Pressurizer Seismic Lug Support

EXAMINATION
ISI VOLUMETRIC EXAMS

STEAM GENERATOR BLOWDOWN SYSTEM (BM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1693	BM-02-F003	UT	N/A	N/A	Steam Generator "B" Blowdown Line, 4" Pipe to Flued Head (P-11)
83A1693	BM-02-F006	UT	N/A	N/A	Steam Generator "C" Blowdown Line, 4" Pipe to Flued Head (P-12)

ACCUMULATOR SAFETY INJECTION SYSTEM (EP)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-02-F010	UT	B-J	B9.11	Accumulator Safety Injection Loop 2, Valve 8818B to 6" Pipe
83A1694	EP-02-F018	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" Elbow to 10" Nozzle
83A1694	EP-02-F019	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" Elbow to 10" Nozzle
83A1694	EP-02-F020	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, 6" Pipe to 10" x 10" x 6" Tee
83A1694	EP-02-F021	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, Valve 8818C to 6" Pipe
83A1694	EP-02-S003-G	UT	B-J	B9.11	Accumulator Safety Injection Loop 2, 10" x 10" x 6" Tee to 10" Pipe
83A1694	EP-02-S008-D	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" x 10" x 6" Tee to 10" Pipe
83A1694	EP-02-S008-F	UT	B-J	B9.11	Accumulator Safety Injection Loop 3, 10" Pipe to 10" x 10" x

EXAMINATION
ISI VOLUMETRIC EXAMS

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-03-F009	UT	B-J	B9.11	Safety Injection Pumps to Reactor Coolant Hot Leg Loop 2, 6" Elbow to 6" Pipe
83A1695	EM-03-F010	UT	B-J	B9.11	Safety Injection Pumps to Reactor Coolant Hot Leg Loop 2, Valve 8949B to 6" Pipe
83A1695	EM-03-S011-D	UT	B-J	B9.11	Safety Injection Pumps to Reactor Coolant Hot Leg Loop 2, 6" Pipe to 6" Elbow

MAIN FEEDWATER SYSTEM (AE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1696	AE-05-F009	UT	N/A	N/A	Main Feedwater Loop 4, Flued Head (P-5) to 14" Pipe
83A1696	AE-05-F011	UT	C-F	C5.21	Main Feedwater Loop 4, 14" Elbow to 14" Pipe
83A1696	AE-05-F024	UT	C-F	C5.21	Main Feedwater Loop 3, Flued Head (P-8) to 14" Pipe

MAIN STEAM SYSTEM (AB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1697	AB-01-F101	UT	N/A	N/A	Main Steam Loop 3, Main Steam Header Flued Head (P-4) to 28" Pipe
83A1697	AB-01-F101-LU	UT	N/A	N/A	Main Steam Loop 3, 28" Main Steam Header - Longitudinal Seam Upstream
83A1697	AB-01-S027-A	UT	C-F	C5.21	Main Steam Loop 3, 32" Main Steam Header to 32" X 28" Reducer
83A1697	AB-01-S027-A-LU	UT	C-F	C5.22	Main Steam Loop 3, 32" Pipe - Longitudinal Seam Upstream

EXAMINATION
ISI VOLUMETRIC EXAMS

CHEMICAL & VOLUME CONTROL SYSTEM (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	BG-23-F002	UT	N/A	N/A	Charging Line, 3" Pipe to Flued Head (P-80)
83A1698	BG-23-F003A	UT	N/A	N/A	Charging Line Valve 8381 to 3" Pipe
83A1698	BG-23-F004	UT	N/A	N/A	Charging Line, 3" Pipe to Valve 8381
83A1698	BG-23-F005	UT	N/A	N/A	Charging Line, 3" Pipe to 3" Pipe

RESIDUAL HEAT REMOVAL SYSTEM (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-04-F030	UT	B-J	B9.11	Residual Heat Removal Train "B", 12" Pipe to 12" Nozzle
83A1699	EJ-04-F031	UT	B-J	B9.11	Residual Heat Removal Train "A", 12" Pipe to Valve PV8702A
83A1699	EJ-04-F047	UT	C-F	C5.21	Residual Heat Removal Train "A", Valve HV-8701A to 12" Pipe
83A1699	EJ-04-FW371	UT	C-F	C5.21	Residual Heat Removal Train "B", 10" x 10" x 6" Tee to 6" Pipe
83A1699	EJ-04-FW906A	UT	B-J	B9.11	Residual Heat Removal Train "A", 12" Elbow to 12" Pipe
83A1699	EJ-04-S002-D	UT	C-F	C5.21	Residual Heat Removal Train "B", 10" Elbow to 10" Pipe
83A1699	EJ-04-S002-D-LD	UT	C-F	C5.22	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-04-S002-D-LU	UT	C-F	C5.22	Residual Heat Removal Train "B", 10" Elbow Longitudinal Seam Upstream
83A1699	EJ-04-S002-E	UT	C-F	C5.21	Residual Heat Removal Train "B", 10" Pipe to 10" X 6" Reducer
83A1699	EJ-04-S002-E-LU	UT	C-F	C5.22	Residual Heat Removal Train "B", 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-04-S018-F	UT	B-J	B9.31	Residual Heat Removal Train "A", 12" X 6" Sweepolet to 12" Pipe

EXAMINATION
ISI VOLUMETRIC EXAMS

REACTOR COOLANT SYSTEM (BB)					
ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT.	CODE SECTION	COMPONENT DESCRIPTION
83A1700	BB-02-F006A	UT	B-J	B9.11	Pressurizer Safety Nozzle Safe-End to 6" Pipe
83A1700	BB-04-F001	UT	B-J	B9.11	4" Pipe to 4" Pressurizer Spray Nozzle Safe-End
83A1700	BB-04-F008	UT	B-J	B9.11	Pressurizer Spray Line, 4" Pipe to 4" Elbow
83A1700	BB-04-F012A	UT	B-J	B9.11	Pressurizer Spray Line, 4" Nozzle on Reactor Coolant Cold Leg Loop 1 to 4" Elbow
83A1700	BB-04-F014	UT	B-J	B9.11	Pressurizer Spray line, Valve PCV-455C to 4" Pipe
83A1700	BB-04-F015	UT	B-J	B9.11	Pressurizer Spray Line, 4" Pipe to Valve PCV-455C
83A1700	BB-04-F022A	UT	B-J	B9.11	Pressurizer Spray Line, 4" Nozzle on Reactor Coolant Cold Leg Loop 2 to 4" Elbow
83A1700	BB-09-F002A	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to Flued Head (P-39)
83A1700	BB-09-FW305	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Pipe
83A1700	BB-09-FW539B	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Pipe
83A1700	BB-09-FW540	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Pipe
83A1700	BB-09-FW545A	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Tee to 2" Pipe
83A1700	BB-09-FW546	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to Valve V179
83A1700	BB-09-FW547A	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, Valve V179 to 2" Pipe
83A1700	BB-09-V178-1	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, Valve V178 to 2" Pipe

EXAMINATION
ISI VOLUMETRIC EXAMS

REACTOR COOLANT SYSTEM (BB) (Continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-09-V178-2	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe Piece to Valve V178
83A1700	BB-09-W538	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Elbow
83A1700	BB-09-W541	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" Tee
83A1700	BB-09-W542	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Tee to 2" Pipe
83A1700	BB-09-W543	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Pipe to 2" x .75" Reducer
83A1700	BB-09-W537	UT	N/A	N/A	Reactor Coolant Pump "C" Seal Water Injection Line, 2" Elbow to 2" Pipe
83A1700	PBB01B-FLYWHEEL	UT	N/A	N/A	Reactor Coolant Pump "B" Flywheel

STEAM GENERATORS (EBB01A & D)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01A-SEAM-8-W	UT	C-A	C1.20	Steam Generator "A" Shell Section D to Top Head
83A1708	EBB01A-16-IR	UT	C-B	C2.22	Steam Generator "A" Steam Nozzle Inner Radius
83A1708	EBB01A-16-W	UT	C-B	C2.21	Steam Generator "A" Steam Nozzle
83A1708	EBB01D-1A-IR	UT	B-D	B3.140	Steam Generator "D" Primary Inlet Nozzle Inner Radius
83A1708	EBB01D-1B-IR	UT	B-D	B3.140	Steam Generator "D" Primary Outlet Nozzle Inner Radius
83A1708	EBB01D-SEAM-1-W	UT	B-B	B2.40	Steam Generator "D" Bottom Head to Tubesheet
83A1708	EBB01D-SP-21A-1	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 1
83A1708	EBB01D-SP-21A-2	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 2
83A1708	EBB01D-SP-21A-3	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 3

EXAMINATION
ISI VOLUMETRIC EXAMS

STEAM GENERATOR (EBB01D) (Continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01D-SP-21A-4	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 4
83A1708	EBB01D-SP-21A-5	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 5
83A1708	EBB01D-SP-21A-6	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 6
83A1708	EBB01D-SP-21B-1	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 1
83A1708	EBB01D-SP-21B-2	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 2
83A1708	EBB01D-SP-21B-3	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 3
83A1708	EBB01D-SP-21B-4	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 4
83A1708	EBB01D-SP-21B-5	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 5
83A1708	EBB01D-SP-21B-6	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 6
83A1708	EBB01D-SP-21C-1	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 1
83A1708	EBB01D-SP-21C-2	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 2
83A1708	EBB01D-SP-21C-3	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 3
83A1708	EBB01D-SP-21C-4	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 4
83A1708	EBB01D-SP-21C-5	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 5
83A1708	EBB01D-SP-21C-6	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 6
83A1708	EBB01D-SP-21D-1	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 1
83A1708	EBB01D-SP-21D-2	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 2
83A1708	EBB01D-SP-21D-3	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 3
83A1708	EBB01D-SP-21D-4	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 4
83A1708	EBB01D-SP-21D-5	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 5
83A1708	EBB01D-SP-21D-6	UT	N/A	N/A	Steam Generator "D" Support Pad Bolt 6

EXAMINATION
ISI VOLUMETRIC EXAMS

PRESSURIZER (TBB03)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1709	TBB03-1-W	UT	B-F	B5.40	Pressurizer Surge Nozzle to Safe-End
83A1709	TBB03-2-W	UT	B-F	B5.40	Pressurizer Spray Nozzle to Safe-End
83A1709	TBB03-10A-IR	UT	B-D	B3.120	Pressurizer Surge Nozzle Inner Radius
83A1709	TBB03-10A-W	UT	B-D	B3.110	Pressurizer Surge Nozzle to Bottom Head
83A1709	TBB03-10C-IR	UT	B-D	B3.120	Pressurizer Spray Nozzle C Inner Radius
83A1709	TBB03-10C-W	UT	B-D	B3.110	Pressurizer Spray Nozzle C to Top Head Weld
83A1709	TBB03-SEAM-1-W	UT	B-B	B2.12	Pressurizer Shell Longitudinal

REACTOR VESSEL (RBB01)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1710	CH-101-104-D	UT	B-A	B1.22	Closure Head Meridional Weld
83A1710	CH-103-101	UT	B-A	B1.21	Closure Head Circumferential Weld

EXAMINATION
ISI VISUAL EXAMS
(VT-1)

STEAM GENERATOR (EBB01D)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01D-2-A-(1-16)b	VT-1	B-G-2	B7.30	Steam Generator Primary (Hot Leg) Manway Bolting
83A1708	EBB01D-2-B-(1-16)b	VT-1	B-G-2	B7.30	Steam Generator Primary (Cold Leg) Manway Bolting

EXAMINATION
ISI VISUAL EXAMS
(VT-3)

COMPONENT COOLING WATER (EG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	EG-06-C024	VT-3	D-A	D1.20	Integral Attachments (Lugs) on line BG-032-HBC-6" which is Component Cooling Water (CCW) to the Letdown heat exchanger

AUXILIARY FEEDWATER (AL)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1702	AL-04-A001	VT-3	D-A	D1.20	Integral Attachments on turbine driven Auxiliary Feedwater line 31 to loops A & D feedwater lines
83A1702	AL-04-C002	VT-3	D-A	D1.20	Integral Attachment on turbine driven Auxiliary Feedwater line 31 to loops A & D feedwater line
83A1702	AL-04-C006	VT-3	D-A	D1.20	Integral Attachment on turbine driven Auxiliary Feedwater line 36 to loops A & D feedwater line

EXAMINATION

ISI VISUAL EXAMS
(VT-3)

STANDBY DIESEL ENGINE (KJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1704	EKJ04A-SUP-1	VT-3	D-B & F-A	D2.20 F1.30	Lube oil cooler support
83A1704	EKJ04A-SUP-2	VT-3	D-B & F-A	D2.20 F1.30	Lube oil cooler support
83A1704	FKJ08A-SUP-1	VT-3	D-B & F-A	D2.20 F1.30	Duplex lube oil strainer support
83A1704	FKJ08A-SUP-2	VT-3	D-B & F-A	D2.20 F1.30	Duplex lube oil strainer support

COMPONENT COOLING WATER (EG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1706	EG-01-C010	VT-3	D-B	D2.40	Integral Attachment on line EJ-032-HBC-18" 'A' Train CCW return from Residual Heat Removal Heat Exchanger 'A'
83A1706	EG-01-R016	VT-3	D-B	D2.30	Integral Attachment on line EJ-032-HBC-18" 'A' Train CCW return from Residual Heat Removal Heat Exchanger 'A'
83A1706	EG-07-C021	VT-3	D-B	D2.20	Integral Attachment on line 176 which is Reactor Coolant Pump (RCP) loads, Excess Letdown Heat Exchanger, & Reactor Coolant Drain Tank Heat Exchanger return line
83A1706	EG-07-R010	VT-3	D-B	D2.20	Integral Attachment on line 176 which is RCP loads, Excess Letdown Heat Exchanger, & Reactor Coolant Drain Tank Heat Exchanger return line
83A1706	EG-09-A001	VT-3	D-B	D2.20	Integral Attachment on line 236, RCP 'B' loads supply line
83A1706	EG-09-A002	VT-3	D-B	D2.20	Integral Attachment on line 239 which is RCP 'B' return from bearing coolers & motor air coolers

EXAMINATION
ISI VISUAL EXAMS
(VT-3)

COMPONENT COOLING WATER (EG) (Continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1706	EG-10-A001	VT-3	D-B	D2.20	Integral Attachment on line 241 which is RCP 'D' supply to RCP 'D' loads & Excess Letdown Heat Exchanger line
83A1706	EG-10-C005	VT-3	D-B	D2.20	Integral Attachment on line 240 which is supply to RCP 'A' loads
83A1706	EG-12-A001	VT-3	D-B	D2.20	Integral Attachment on line 237, supply to RCP 'C' loads
83A1706	EG-13-R008	VT-3	D-B	D2.20	Integral Attachment on line 239 which is return from bearing & motor air coolers
83A1706	EG-15-A002	VT-3	D-B	D2.20	Integral Attachment on line 238 which is return from RCP 'C' bearing coolers & motor air coolers
83A1706	EG-14-R012	VT-3	D-B	D2.20	Integral Attachment on line 237 which is supply to RCP 'C' loads & Reactor Coolant Drain Tank Heat Exchanger
83A1706	EG-17-A002	VT-3	D-B	D2.20	Integral Attachment on line 242 which is return from RCP 'D' bearing coolers & motor air coolers
83A1706	EG-17-C010	VT-3	D-B	D2.20	Integral Attachment on line 242 which is return from RCP 'D' bearing coolers & motor air coolers
83A1706	EG-18-A001	VT-3	D-B	D2.20	Integral Attachment on line 226, return from Fuel Pool Heat Exchanger 'A'
83A1706	PEG01A-SUPPORT-1	VT-3	F-A	F1.30	Component Cooling Water Pump 'A' Support

STEAM GENERATOR (EBB01A)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1708	EBB01A-03-231	VT-3	F-B	F2.30	Steam Generator 'A' Lower Column Support
83A1708	EBB01A-04-231	VT-3	F-B	F2.30	Steam Generator 'A' Lower Column Support
83A1708	EBB01A-08-231	VT-3	F-B	F2.30	Steam Generator 'A' Upper Lateral Support

EXAMINATION
ISI VISUAL EXAMS
(VT-3)

REACTOR VESSEL (RBB01)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1710	1-RV-INTERIOR	VT-3	B-N-1	B13.10	Reactor Vessel (Mini Sub Inspection)

AUXILIARY FEEDWATER (AL)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	AL02-R010-135	VT-3	F-C	N/A	Snubber on line 43 which is Auxiliary Feedwater pumps discharge to Steam Generator feedwater line

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BB08-C001-231	VT-3	F-C	N/A	Two sway struts on line 131 which is Seal Injection to RCP 'A'
83A1715	BB09-A506-232	VT-3	F-C	N/A	Anchor on line BG-172-BCB-2" which is RCP 'C' #1 Seal leakoff
83A1715	BB16-A501-231	VT-3	F-C	N/A	Anchor on line BG-474-BCB-2" which is Excess Letdown to Pressurizer Relief Tank

CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BG01-R012-112	VT-3	F-C	N/A	Two snubbers on the Positive Displacement Pump suction pulsation dampener
83A1715	BG05-R018-132	VT-3	F-C	N/A	Snubber on line 206 which is Seal Water & Excess Letdown return to the Volume Control Tank
83A1715	BG22-H006-242	VT-3	F-C	N/A	Sway strut on line 03 which is Reactor Coolant System Letdown between the Regenerative Heat Exchanger and the Letdown orifices
83A1715	BG23-C010-231	VT-3	F-C	N/A	Two sway struts on line 23 which is the Charging Pump discharge to the Regenerative Heat Exchanger

EXAMINATION
ISI VISUAL EXAMS
(VT-3)

CHEMICAL AND VOLUME CONTROL (BG) (continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BG25-A502-231	VT-3	F-C	N/A	Anchor on line 176 which is Loop 'D' #1 Seal return line to BGV202

STEAM GENERATOR BLOWDOWN (BM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BM02-R021-232	VT-3	F-C	N/A	Sway strut on line 14 which is Steam Generator 'B' Blowdown line

REFUELING WATER STORAGE (BN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BN01-R008-122	VT-3	F-C	N/A	Snubber on line 18 which is Residual Heat Removal to the Refueling Water Storage Tank header

ESSENTIAL SERVICE WATER (EF)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EF03-R033-122	VT-3	F-C	N/A	Snubber on line GL-101-HBC-4" which is Essential Service Water return from the Containment Spray pump room cooler 'A'
83A1715	EF03-R034-112	VT-3	F-C	N/A	Two snubbers on line GL-101-HBC-4" which is Essential Service Water return from the Containment Spray pump room cooler 'A'

COMPONENT COOLING WATER (EG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EG01-R027-142	VT-3	F-C	N/A	Two snubbers on line 03 which is Component Cooling Water (CCW) pumps 'A' & 'C' outlet to 'A' CCW Heat Exchanger inlet
83A1715	EG09-C002-231	VT-3	F-C	N/A	Two sway struts on line 239 which is return from Reactor Coolant Pump 'B' bearing & motor air coolers

EXAMINATION
ISI VISUAL EXAMS
(VT-3)

COMPONENT COOLING WATER(EG) (continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EG10-R003-241	VT-3	F-C	N/A	Two sway struts on line BB-122-HBC-4" which is supply to Reactor Coolant Pump 'A' upper bearing cooler
83A1715	EG13-A005-242	VT-3	F-B	N/A	Anchor on line BB-149-HBC-4" which is Component Cooling Water return from Reactor Coolant Pump 'B' upper bearing coolers
83A1715	EG14-A006-232	VT-3	F-B	N/A	Anchor on line BB-167-HBC-4" which is Component Cooling Water supply to Reactor Coolant Pump 'C' motor air coolers
83A1715	EG15-C004-242	VT-3	F-C	N/A	Two sway struts on line 142 which is Component Cooling Water return from the Reactor Coolant Drain Tank Heat Exchanger
83A1715	EG16-R005-231	VT-3	F-C	N/A	Two sway struts on line BG-185-HBC-4" which is Component Cooling Water to Excess Letdown Heat Exchanger
83A1715	EG17-A002-241	VT-3	F-B	N/A	Anchor on line 242 which is return from Reactor Coolant Pump 'D' bearing coolers & motor air coolers
83A1715	EG17-A005-241	VT-3	F-B	N/A	Anchor on line BB-187-HBC-4" which is Component Cooling Water return from Reactor Coolant Pump 'D' motor air coolers
83A1715	EG17-C009-241	VT-3	F-C	N/A	Two sway struts on line 242 which is return from Reactor Coolant Pump 'C' bearing coolers & motor air coolers

RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EJ01-R016-112	VT-3	F-C	N/A	Snubber on line 03 which is Residual Heat Removal 'A' pump suction line
83A1715	EJ02-R023-131	VT-3	F-C	N/A	Snubber on line 23 which is Residual Heat Removal Heat Exchanger 'B' outlet line

EXAMINATION
ISI VISUAL EXAMS
(VT-3)

RESIDUAL HEAT REMOVAL (EJ) (continued)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EJ04-C011-232	VT-3	F-C	N/A	Two sway struts on line 42 which is Residual Heat Removal to (Safety Injection System) Hot Leg recirculation to Loop 2
83A1715	EJ04-H007-231	VT-3	F-C	N/A	Sway strut on line 01 which is Loop 1 Reactor Coolant System Hot Leg to Residual Heat Removal pump 'A' suction

HIGH PRESSURE COOLANT INJECTION SYSTEM (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EM03-C016-232	VT-3	F-C	N/A	Two sway struts on line 09 which is Safety Injection pump discharge to Reactor Coolant System Hot Leg Loop 2
83A1715	EM03-C029-232	VT-3	F-C	N/A	Two sway struts on line 84 which is Boron Injection Tank injection to Loop 2 Cold Leg
83A1715	EM03-C034-232	VT-3	F-C	N/A	Two sway struts on line 86 which is Boron Injection Tank injection to Loop 3 Cold Leg
83A1715	EM03-H004-232	VT-3	F-C	N/A	Sway strut on line 13 which is Safety Injection to Hot Leg Loop 3
83A1715	EM03-R005-232	VT-3	F-C	N/A	Sway strut on line 10 which is Safety Injection pumps & Residual Heat Removal recirculation to Loop 2 Hot Leg
83A1715	EM03-R008-232	VT-3	F-C	N/A	Sway strut on line 12 which is Safety Injection to Loop 3 Hot Leg

CONTAINMENT SPRAY (EN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EN03-A002-261	VT-3	F-C	N/A	Anchor on line 41-HCB-6" which is 'A' Train Containment Spray header

EXAMINATION
ISI VISUAL EXAMS
(VT-3)

ACCUMULATOR INJECTION SYSTEM (EP)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EP01-C003-231	VT-3	F-C	N/A	Two sway struts on line 10 which is Accumulator Safety Injection line to Reactor Coolant System Loop 4 Cold Leg
83A1715	EP01-C004-231	VT-3	F-C	N/A	Two sway struts on line 33 which is Safety Injection pumps to Loop 4 Cold Leg
83A1715	EP01-R001-231	VT-3	F-C	N/A	Sway strut on line 32 which is Residual Heat Removal & Safety Injection to Loop 4 Cold Leg

CONTAINMENT COOLING (GN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	GN02-C026-251	VT-3	F-C	N/A	Two sway struts on line 50 which is Essential Service Water supply to SGN01D

EXAMINATION
ISI VISUAL EXAMS
(VT-3/VT-4)

MAIN FEEDWATER (AE)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	AE04-H001-242	VT-3 VT-4	F-C	N/A	Variable support on line 81 which is Main Feedwater to Steam Generator 'B'

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BB02-H007-261	VT-3 VT-4	F-C	N/A	Constant support on line 84 which is Pressurizer to Power Operated Relief Valve BBPCV455A line
83A1715	BB02-H008-261	VT-3 VT-4	F-C	N/A	Constant support on line 85 which is Pressurizer to Power Operated Relief Valve BBPCV456A line

STEAM GENERATOR BLOWDOWN (BM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BM18-H501-252	VT-3 VT-4	F-C	N/A	Variable support on line 83 which is Boron Injection Tank injection to Reactor Coolant System Loop 1 Cold Leg
83A1715	BM18-H503-232	VT-3 VT-4	F-C	N/A	Variable support on line 21 which is Steam Generator 'B' (Blowdown) shell side sample cross connect
83A1715	BM19-H505-242	VT-3 VT-4	F-C	N/A	Variable support on line 33 which is Steam Generator 'C' (Blowdown) shell side sample cross connect

COMPONENT COOLING WATER (EG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EG14-H003-242	VT-3 VT-4	F-C	N/A	Variable support on line BB-180-CBC-3" which is supply to Reactor Coolant Pump 'C' thermal barrier cooling coil

EXAMINATION
ISI VISUAL EXAMS
(VT-3/VT-4)

SAFETY INJECTION (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EM03-H005-232	VT-3 VT-4	F-C	N/A	Variable support on line BB-024-BCA-1.5" Boron Injection Tank injection to Reactor Coolant System Loop 2 Cold Leg
83A1715	EM03-H006-231	VT-3 VT-4	F-C	N/A	Variable support on line 83 which is Boron Injection Tank injection to Reactor Coolant System Loop 1 Cold Leg

CONTAINMENT SPRAY (EN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT.</u>	<u>CODE SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EN03-H004-261	VT-3 VT-4	F-C	N/A	Variable support on line 41-HBC-10" which is Containment Spray 'A' Train supply header

SYSTEM PRESSURE TESTING

PRESSURE TESTS PERFORMED DURING REFUEL OUTAGE 6

<u>PROCEDURE</u>	<u>DESCRIPTION</u>
STS PE-055N	Pressure Test of Service Piping Test Connections to the Containment Personnel Airlock
STS PE-055D	Pressure Test of Containment Hydrogen Control Piping Through P-65
STS PE-047C	Pressure Test of Compressed Air System Through P-63
STS PE-055M	Pressure Test of Decontamination Piping Through P-43
STS PE-055X	Pressure Test of Breathing Air Piping Through P-98
STS PE-055B	Pressure Test of Containment Integrated Leak Rate Test (ILRT) Piping Through P-34
STS PE-050E	Component Cooling Water System Residual Heat Removal Heat Exchangers, Essential Service Water Makeup Piping and Inside Containment Service Loop Pressure Test
STS PE-055C	Pressure Test of Containment ILRT Piping Through P-51
STS PE-055R	Pressure Test of Floor and Equipment Drain Piping Through P-32
STS PE-055T	Pressure Test of Fuel Pool Cooling and Cleanup Piping to Fuel Transfer Tube Test Connection
STS PE-051	Borated Refueling Water Storage Pressure Test
STS PE-055K	Pressure Test of Liquid Radwaste Piping Through P-26
STS PE-040B	Reactor Coolant System Pressure Test (Class 1 and 2)
STS PE-042G	Chemical and Volume Control System Reactor Coolant Pump Seal Injection and Return Lines Pressure Test
STS PE-040C	Reactor Coolant System Pressure Test (Class 1 and 2)

STEAM GENERATOR TUBING INSERVICE INSPECTION

STEAM GENERATOR TUBE INSERVICE INSPECTION

The fifth Steam Generator Tube Inservice Inspection of steam generators was completed by Westinghouse Nuclear Energy Services, Nuclear Services Division (WNSD) during Refuel Outage 6. This inspection included 100% of Steam Generator "B" tubes. This was the fourth inservice inspection of Steam Generator "B".

The results of the fifth inspection showed 43 tubes (40 in the hot leg and 3 in the cold leg) that had indications greater than or equal to 20 percent (degraded) and must be inspected during the next inspection of this Steam Generator.

Mechanical plug replacement was performed on Steam Generator "B" in response to NRC Bulletin 89-01. A total of 3 plugs were removed, 2 in the hot leg and 1 in the cold leg, of which none of the tubes were put back into service. The location of the plugs removed are as follows:

Steam Generator "B"

<u>Row</u>	<u>Column</u>	<u>Leg</u>
54	59	H
54	59	C
2	114	H

A total of seventeen (17) plugs were installed in Steam Generator "B". Ten (10) plugs were installed based on Eddy Current findings, three (3) plugs were installed as a result of plug removal (reference table above) and four (4) factory installed 26" stub tubes were plugged.

With the completion of this outage, Steam Generator "B" has 9 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

- Wolf Creek Nuclear Operating Corporation
 1. Owner P.O. Box 411, Burlington, Kansas 66839
 (Name and Address of Owner)
- Wolf Creek Generating Station
 2. Plant P.O. Box 411, 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 09/03/85 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 8 1/2 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.

FORM NIS-1 (back)

8. Examination Dates 01/17/92 to 05/14/93 9. Inspection Interval from 09/03/85 to 09/02/95
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
See Examination Section in 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 statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date August 5 19 93 Signed Wolf Creek Nuclear Operating Corp. By [Signature]
Owner

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Kansas and employed by * of Norwood, MA have inspected the components described in this Owners' Data Report during the period 01/17/92 to 05/14/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date AUG. 5 19 93
[Signature] Commissions NB #9752(N,I,B) 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.	NATIONAL BOARD NO.
I-RV-INTERIOR	Combustion Engineering Incorporated	11373	N/A	22244
AB-01-F101(&LU)	Daniel International Corporation	N/A	N/A	N/A
AB-01-R007	Daniel International Corporation	N/A	N/A	N/A
AB-01-S027-A(&LU)	Dravo Corporation	15140	N/A	N/A
AE-05-F009	Daniel International Corporation	N/A	N/A	N/A
AE-05-F011	Daniel International Corporation	N/A	N/A	N/A
AE-05-F024	Daniel International Corporation	N/A	N/A	N/A
AE-05-R006	Daniel International Corporation	N/A	N/A	N/A
AE-05-R017	Daniel International Corporation	N/A	N/A	N/A
AE-05-R023	Daniel International Corporation	N/A	N/A	N/A
AE-05-R027	Daniel International Corporation	N/A	N/A	N/A
AE-05-R028	Daniel International Corporation	N/A	N/A	N/A
AE04-H001-242	Bergen Paterson	1-AE04-H001/242	N/A	N/A
AL02-R010-135	Bergen Paterson Pacific Scientific	1-AL02-R010/135 7591	N/A	N/A
AL04-A001-135	Daniel International Corporation	N/A	N/A	N/A
AL04-C002-135	Daniel International Corporation	N/A	N/A	N/A
AL04-C006-135	Daniel International Corporation	N/A	N/A	N/A

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
BB-01-F204	Daniel International Corporation	N/A	N/A	N/A
BB-02-F006A	Daniel International Corporation	N/A	N/A	N/A
BB-04-F001	Daniel International Corporation	N/A	N/A	N/A
BB-04-F008	Daniel International Corporation	N/A	N/A	N/A
BB-04-F012A	Daniel International Corporation	N/A	N/A	N/A
BB-04-F014	Daniel International Corporation	N/A	N/A	N/A
BB-04-F015	Daniel International Corporation	N/A	N/A	N/A
BB-04-F022A	Daniel International Corporation	N/A	N/A	N/A
BB-04-S002-L	Dravo Corporation	17937	N/A	N/A
BB-06-FW500A	Daniel International Corporation	N/A	N/A	N/A
BB-08-FW304	Daniel International Corporation	N/A	N/A	N/A
BB-09-F002A	Daniel International Corporation	N/A	N/A	N/A
BB-09-FW305	Daniel International Corporation	N/A	N/A	N/A
BB-09-FW539B	Daniel International Corporation	N/A	N/A	N/A
BB-09-FW540	Daniel International Corporation	N/A	N/A	N/A
BB-09-FW545A	Daniel International Corporation	N/A	N/A	N/A
BB-09-FW546	Daniel International Corporation	N/A	N/A	N/A
BB-09-FW547A	Daniel International Corporation	N/A	N/A	N/A

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
BB-09-V178-1	Borg Warner	65186	N/A	N/A
BB-09-V178-2	Borg Warner	65186	N/A	N/A
BB-09-V181-1	Borg Warner	27850	N/A	N/A
BB-09-W537	Daniel International Corporation	N/A	N/A	N/A
BB-09-W538	Daniel International Corporation	N/A	N/A	N/A
BB-09-W541	Daniel International Corporation	N/A	N/A	N/A
BB-09-W542	Daniel International Corporation	N/A	N/A	N/A
BB-09-W543	Daniel International Corporation	N/A	N/A	N/A
BB-11-FW540	Daniel International Corporation	N/A	N/A	N/A
BB-11-V151-2	Borg Warner	27852	N/A	N/A
BB02-H006-261	Bergen Paterson Bergen Paterson	A002392 1-BB02-H006/261	N/A	N/A
BB02-H007-261	Bergen Paterson	A002537	N/A	N/A
BB02-H008-261	Bergen Paterson	1-BB02-H008/261	N/A	N/A
BB08-C001-231	Bergen Paterson	1-BB08-C001/231	N/A	N/A
BB09-A506-232	Daniel International Corporation	N/A	N/A	N/A
BB16-A501-231	Daniel International Corporation	N/A	N/A	N/A
BG-22-S001-F	Pullman Power Products	1-BG-22-S001/232	N/A	N/A

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
BG-23-F002	Daniel International Corporation	N/A	N/A	N/A
BG-23-F003A	Daniel International Corporation	N/A	N/A	N/A
BG-23-F004	Daniel International Corporation	N/A	N/A	N/A
BG-23-F005	Daniel International Corporation	N/A	N/A	N/A
BG-24-FW551	Daniel International Corporation	N/A	N/A	N/A
BG-24-FW575	Daniel International Corporation	N/A	N/A	N/A
BG01-R012-112	Bergen Paterson Pacific Scientific Pacific Scientific	1-BG01-R012/112 8531 8532	N/A	N/A
BG05-R018-132	Pacific Scientific Bergen Paterson	8142 1-BG05-R018/132	N/A	N/A
BG22-H006-242	ITT Grinnell	2731	N/A	N/A
BG23-C010-231	ITT Grinnell	2717	N/A	N/A
BG25-A502-231	Daniel International Corporation	N/A	N/A	N/A
BM-02-F003	Daniel International Corporation	N/A	N/A	N/A
BM-02-F006	Daniel International Corporation	N/A	N/A	N/A
BM02-R021-232	Bergen Paterson	D014039	N/A	N/A
BM18-H501-252	Bergen Paterson ITT Grinnell	1-BM18-H501/252 A9429	N/A	N/A

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
BM18-H503-232	Bergen Paterson ITT Grinnell	1-BM18-H503/232 J1063	N/A	N/A
BM19-H505-242	Corner & Lada Company Incorporated ITT Grinnell	1-BM19-H505/242 J5136	N/A	N/A
BN01-R008-122	Bergen Paterson Pacific Scientific	1-BN01-R008/122 8130	N/A	N/A
CH-101-104-D	Combustion Engineering Incorporated	11373	N/A	22244
CH-103-101	Combustion Engineering Incorporated	11373	N/A	22244
EBB01A-03-231	Westinghouse Electric Corporation	2274	N/A	W22174
EBB01A-04-231	Westinghouse Electric Corporation	2274	N/A	W22174
EBB01A-08-231	Westinghouse Electric Corporation	2274	N/A	W22174
EBB01A-16-IR	Westinghouse Electric Corporation	2274	N/A	W22174
EBB01A-16-W	Westinghouse Electric Corporation	2274	N/A	W22174
EBB01A-SEAM-8-W	Westinghouse Electric Corporation	2274	N/A	W22174
EBB01D-1A-IR	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-1B-IR	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-2-A-(1-16)b	Westinghouse Electric Corporation	1-16	N/A	N/A
EBB01D-2-B-(1-16)b	Westinghouse Electric Corporation	17-32	N/A	N/A
EBB01D-SEAM-1-W	Westinghouse Electric Corporation	2271	N/A	W22171

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
EBB01D-SP-21A-1	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21A-2	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21A-3	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21A-4	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21A-5	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21A-6	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21B-1	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21B-2	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21B-3	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21B-4	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21B-5	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21B-6	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21C-5	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21C-6	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21D-1	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21D-2	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21D-3	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21D-4	Westinghouse Electric Corporation	2271	N/A	W22171

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
EBB01D-SP-21D-5	Westinghouse Electric Corporation	2271	N/A	W22171
EBB01D-SP-21D-6	Westinghouse Electric Corporation	2271	N/A	W22171
EF03-R033-122	Pacific Scientific Bergen Paterson	23297 D013603	N/A	N/A
EF03-R034-112	Pacific Scientific Pacific Scientific	19616 20947	N/A	N/A
EG-06-C024	Daniel International Corporation	N/A	N/A	N/A
EG01-C010-142	Bergen Paterson Bergen Paterson	1-EG01-C010/142 1-BG21-H007/231	N/A	N/A
EG01-R016-132	Pacific Scientific Pacific Scientific Bergen Paterson	9110 9111 1-EG01-R016/132	N/A	N/A
EG01-R027-142	Pacific Scientific Pacific Scientific Bergen Paterson Bergen Paterson	14896 14900 1-AB01-C010/145 1-AB01-C011/145	N/A	N/A
EG07-C021-134	Bergen Paterson	1-EG07-C021/134	N/A	N/A
EG07-R010-134	Bergen Paterson	1-EG07-R010/134	N/A	N/A
EG09-A001-232	Bergen Paterson	1-EG09-A001/134	N/A	N/A
EG09-A002-231	Daniel International Corporation	N/A	N/A	N/A
EG09-C002-231	Corner & Lada Company Incorporated	1-EG09-C002/231	N/A	N/A
EG10-A001-241	Corner & Lada Company Incorporated	1-EG10-A001/241	N/A	N/A

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
EG10-C005-241	Daniel International Corporation	N/A	N/A	N/A
EG10-R003-241	Bergen Paterson	1-EG10-R003/241	N/A	N/A
EG12-A001-242	Daniel International Corporation	N/A	N/A	N/A
EG13-A005-242	Daniel International Corporation	N/A	N/A	N/A
EG13-R008-242	Daniel International Corporation	N/A	N/A	N/A
EG14-A006-232	Daniel International Corporation	N/A	N/A	N/A
EG14-H003-242	Bergen Paterson	1-EG14-H003/242	N/A	N/A
EG14-R012-242	Corner & Lada Company Incorporated	1-EG14-R012/242	N/A	N/A
EG15-A002-242	Bergen Paterson	1-EG15-A002/242	N/A	N/A
EG15-C004-242	Corner & Lada Company Incorporated	1-EG15-C004/242	N/A	N/A
EG16-R005-231	Corner & Lada Company Incorporated Corner & Lada Company Incorporated	1-EG16-R005/231 BY3	N/A	N/A
EG17-A002-241	Daniel International Corporation	N/A	N/A	N/A
EG17-A005-241	Daniel International Corporation	N/A	N/A	N/A
EG17-C009-241	Corner & Lada Company Incorporated	EG17-C009/241	N/A	N/A
EG17-C010-241	Bergen Paterson Bergen Paterson	1-EG17-C010/241 D014073	N/A	N/A
EG18-A001-133	Bergen Paterson	1-EG18-A001/133	N/A	N/A
EJ-02-S027-C	Dravo Corporation	13599	N/A	N/A

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
EJ-03-FW304	Daniel International Corporation	N/A	N/A	N/A
EJ-04-A003	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F030	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F031	Daniel International Corporation	N/A	N/A	N/A
EJ-04-F047	Daniel International Corporation	N/A	N/A	N/A
EJ-04-FW371	Daniel International Corporation	N/A	N/A	N/A
EJ-04-FW906A	Daniel International Corporation	N/A	N/A	N/A
EJ-04-R005	Daniel International Corporation	N/A	N/A	N/A
EJ-04-R006	Daniel International Corporation	N/A	N/A	N/A
EJ-04-S002-D(&LD&LU)	Dravo Corporation	16664	N/A	N/A
EJ-04-S002-E(&LU)	Dravo Corporation	16664	N/A	N/A
EJ-04-S018-F	Dravo Corporation	16394	N/A	N/A
EJ01-R016-112	Bergen Paterson Pacific Scientific	1-EJ01-R016/112 7523	N/A	N/A
EJ02-R023-131	Pacific Scientific	11961	N/A	N/A
EJ04-C011-232	Bergen Paterson	1-EJ04-C011/232	N/A	N/A
EJ04-H007-231	Bergen Paterson	1-EJ04-H007/231	N/A	N/A
EKJ04A-SUP-1	American Standard (Heat Transfer Division)	77A20004-10-2	N/A	33308

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
EKJ04A-SUP-2	American Standard (Heat Transfer Division)	77A20004-10-2	N/A	33308
EM-03-BBV001-1	Borg Warner	27894	N/A	N/A
EM-03-BBV059-1	Borg Warner	27891	N/A	N/A
EM-03-F009	Daniel International Corporation	N/A	N/A	N/A
EM-03-F010	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW301A	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW303A	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW304	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW308	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW309	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW310	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW573	Daniel International Corporation	N/A	N/A	N/A
EM-03-FW577	Daniel International Corporation	N/A	N/A	N/A
EM-03-S011-D	Dravo Corporation	16397	N/A	N/A
EM03-C016-232	Bergen Paterson	1-EM03-C016/232	N/A	N/A
EM03-C029-232	Bergen Paterson Bergen Paterson Bergen Paterson	1-EM03-C029/232 D011783 D011754	N/A	N/A
EM03-C034-232	Bergen Paterson	1-EM03-C034-232	N/A	N/A

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
EM03-H004-232	Bergen Paterson	1-EM03-H003/232	N/A	N/A
EM03-H005-232	Bergen Paterson	B030057	N/A	N/A
EM03-H006-231	Bergen Paterson	B030055	N/A	N/A
EM03-R005-232	Bergen Paterson	1-EM03-R005/232	N/A	N/A
EM03-R008-232	Bergen Paterson	1-EM03-R008/232	N/A	N/A
EN03-A002-261	Corner & Lada Company Incorporated	1-EN03-A002/261	N/A	N/A
EN03-H004-261	Bergen Paterson	1-EN03-H004/261	N/A	N/A
EP-02-F010	Daniel International Corporation	N/A	N/A	N/A
EP-02-F018	Daniel International Corporation	N/A	N/A	N/A
EP-02-F019	Daniel International Corporation	N/A	N/A	N/A
EP-02-F020	Daniel International Corporation	N/A	N/A	N/A
EP-02-F021	Daniel International Corporation	N/A	N/A	N/A
EP-02-S003-G	Dravo Corporation	16139	N/A	N/A
EP-02-S008-D	Dravo Corporation	16143	N/A	N/A
EP-02-S008-F	Dravo Corporation	16143	N/A	N/A
EP-02-S010-B	Dravo Corporation	16145	N/A	N/A
EP-02-V020-2	Borg Warner	27834	N/A	N/A
EP-02-V030-2	Borg Warner	27838	N/A	N/A

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
EP01-C003-231	Bergen Paterson	1-EP01-C003/231	N/A	N/A
EP01-C004-231	Bergen Paterson	1-EP01-C004/231	N/A	N/A
EP01-R001-231	Bergen Paterson	1-EP01-R001/231	N/A	N/A
FKJ08A-SUP-1	Colt Industries	989537	N/A	141
FKJ08A-SUP-2	Colt Industries	989537	N/A	141
GN02-C026-251	Corner & Lada Company Incorporated	1-GN02-C026/251	N/A	N/A
HB-24-FW503A	Daniel International Corporation	N/A	N/A	N/A
HB-24-FW518A	Daniel International Corporation	N/A	N/A	N/A
HB-24-FW519	Daniel International Corporation	N/A	N/A	N/A
PBB01B-BOLT	Westinghouse Electric Corporation	2-9744D36G01	N/A	N/A
PEG01A-SUPPORT-1	Gould Pumps	N237-B570-1	N/A	N/A
TBB03-1-W	Westinghouse Electric Corporation	2281	N/A	W20688
TBB03-10A-IR	Westinghouse Electric Corporation	2281	N/A	W20688
TBB03-10A-W	Westinghouse Electric Corporation	2281	N/A	W20688
TBB03-10C-IR	Westinghouse Electric Corporation	2281	N/A	W20688
TBB03-10C-W	Westinghouse Electric Corporation	2281	N/A	W20688
TBB03-2-W	Westinghouse Electric Corporation	2281	N/A	W20688
TBB03-LUG-A-W	Westinghouse Electric Corporation	2281	N/A	W20688

COMPONENT	MANUFACTURER OR INSTALLER	SERIAL NO.	STATE NO.	NATIONAL BOARD NO.
TBB03-LUG-D-W	Westinghouse Electric Corporation	2281	N/A	W20688
TBB03-SEAM-I-W	Westinghouse Electric Corporation	2281	N/A	W20688

APPENDIX B

REPAIR/REPLACEMENT SUMMARY INDEX

REPAIR/REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
BMHV0066	1" Solenoid Valve	Replacement	Body to bonnet seal weld	91-009
ABPV0004	8" Globe Control Valve	Repair/ Replacement/ Modification	Replaced main plug, pilot plug, bonnet nut. Repaired valve by machining bonnet gasket sealing surface and flat spring seating area. Modified valve by installing longer bonnet studs, and removed packing leakoff line, installing a plug in the leakoff line opening by welding.	91-012
SJV0053	1" Globe Valve	Replacement	Body to bonnet seal weld	91-029
SJV0009 SJ-002-BCB-1"	1" Globe Valve and 1" Pipe	Replacement	Performed welding to replace valve and 1" piping.	91-030
BGV0332	1" Globe Valve	Replacement	Body to bonnet seal weld	91-032
BGV0457	1" Globe Valve	Replacement	Body to bonnet seal weld	91-038
EFHV0087 EF-215-HBC-1"	1" Solenoid Valve and 1" Pipe/Fittings	Replacement/ Modification	Body to bonnet seal weld and modified piping to relocate valve by welding.	91-074
EFHV0088	1" Solenoid Valve and 1" Pipe/Fittings	Replacement/ Modification	Body to bonnet seal weld and modified piping to relocate valve by welding.	91-075
BGV0100	2" Globe Valve	Replacement	Body to bonnet seal weld	91-112
EJ-093-HBC-3/4"	3/4" Pipe/Fittings	Replacement	Replaced pipe and flange by welding.	92-001
BG-160-BCB-1 1/2"	1 1/2" Pipe/Flange	Modification	Modified by installing pipe and butt weld flange	92-002

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
BBPCV0455C	4" Pressurizer Spray Valve	Repair/ Replacement	Installed welded encapsulation on the valve body to packing box joint to contain leakage. Removed the encapsulation and repaired the valve body in eight locations by grinding and blending areas which were damaged during the removal process. Replaced the valve packing box and the body to packing box studs and nuts. Installed pipe cap on packing leak -off line by welding.	92-004
ABV0057	6" Main Steam Safety Valve	Replacement	Replaced Main Steam Safety Valve with a spare valve.	92-005
BBHV8001A	1" Solenoid Valve	Replacement	Performed seal weld after rework of valve internals.	92-006
BBHV8001B	1" Solenoid Valve	Replacement	Performed seal weld after rework of valve internals.	92-007
BBHV8002A	1" Solenoid Valve	Replacement	Performed seal weld after rework of valve internals.	92-008
BBHV8002B	1" Solenoid Valve	Replacement	Performed seal weld after rework of valve internals.	92-009
SGL13B	Room Cooler Coil	Repair	Performed brazing to bypass a leaking coil circuit.	92-010
RBB01	Reactor Vessel Head Penetrations #24 and #25	Modification	Installed ABB Lower Canopy Seal Weld Clamp Assemblies on penetrations #24 and #25.	92-011
EJPT615 Support	Pressure Transmitter Support	Modification	Modified support by drilling new bolt holes for mounting an optional Rosemount transmitter.	92-012
M06-EP02-R010/232Q	Snubber	Replacement	Replaced PSA-100 Snubber s/n 1978 with s/n 2114, including interchanging end adapter nuts between the two snubbers. Replaced one bolt and two nuts on snubber attachment pipe clamp with section of all thread and four nuts.	92-013
PBB01C Tie Rod TR-2	Reactor Coolant Pump PBB01C Tie Rod	Replacement	Replaced nut on PBB01C tie rod TR-2, s/n 1360 pin retaining bolt.	92-014
M06-BB02-H006/261Q	Pipe Support	Replacement	Replaced the hanger rod and jam nuts between the constant support and pipe clamp.	92-015

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
M16-AE04-R014/252Q M16-AE04-R019/251Q	Pipe Supports	Replacement	Replaced bolting material on each support pipe clamp while re-establishing locations and clearances.	92-016
PBB01 Support Q, for Loop 1/2/3/4	Crossover Leg Restraint Saddle Blocks for Loops 1/2/3/4, s/n 1239, 1240, 1241, 1242, 1251, 1252, 1253, and 1254.	Repair	Repaired the eight saddle blocks by filing/grinding/blending rough edges, raised metal, and deformed corners to provide a smooth transition at the interface with the support shim plates.	92-017
Steam Generator EBB01D Inlet Restraint-Loop 4 Hot Leg	Loop 4 Hot Leg EBB01D Inlet Restraint s/n 1264	Modification	Performed grinding on existing notch in Loop 4 Steam Generator inlet restraint to provide minimum required clearance for the tie rod on the Loop 4 vertical crossover leg restraint.	92-018
EFPDT19 Support EFPDT20 Support	Differential Transmitter Supports	Modification	Performed welding to install mounting brackets and drilled holes to allow installation of tubing on instrument supports for EFPDT19 and EFPDT20 so that local pressure differential switches could be installed.	92-019
SGG04A SGG04B GG-064-HBC-1/2" GG-065-HBC-1/2" GG-067-HBC-1/2" GG-068-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGG04A and SGG04B and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GGV034, GGV035, GGV036, and GGV037 were reinstalled.	92-020
EMPT0923 Support	Pressure Transmitter Support	Modification	Drilled new mounting holes in instrument support to allow installation of optional Rosemount transmitter.	92-021
ABPV0002	8" Globe Control Valve	Replacement	Installed a new pilot plug, main plug, 2 bonnet studs, and two bonnet nuts during rework of valve.	92-022
BGV0589 BG-481-BCB-1"	1" Check Valve, and 1" Pipe	Replacement	Performed welding to replace 1" Check Valve BGV0589 and the portion of line BG-481-BCB-1" between valves BGV0589 and BGHV8357B.	92-023
SGL10B GL-280-HBC-1/2" GL-325-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL10B and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV088 and GLV135 were reinstalled.	92-024

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
BGV0192	2" Diaphragm Valve	Replacement	Installed replacement bonnet assembly on BGV0192.	92-025
SGL10A GL-279-HBC-1/2" GL-325-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL10A and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV087 and GLV134 were reinstalled.	92-026
SGL11A GL-275-HBC-1/2" GL-320-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL11A and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV083 and GLV130 were reinstalled.	92-027
SGL12A GL-276-HBC-1/2" GL-321-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL12A and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV084 and GLV131 were reinstalled.	92-028
SGF02A GF-079-HBC-1/2" GF-080-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGF02A and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GFV006 and GFV007 were reinstalled.	92-029
BBV0082	1" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld.	92-030
BGV0198	1 1/2" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld, and replaced the stem/disc assembly.	92-031
BGV0199	1 1/2" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld, and replaced the stem/disc assembly.	92-032
BGV0200	1 1/2" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld, and replaced the stem/disc assembly.	92-033
BGV0201	1 1/2" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld, and replaced the stem/disc assembly.	92-034
BGV0202	1 1/2" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld.	92-035

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
SGL13A GL-278-HBC-1/2" GL-323-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL13A and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV086 and GLV133 were reinstalled.	92-037
SGL15A GL-274-HBC-1/2" GL-319-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL15A and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV082 and GLV129 were reinstalled.	92-038
BBHV8001A	1" Solenoid Valve	Replacement	Removed and reinstalled the valve body to bonnet seal weld to allow rework of the valve internals.	92-041
BBHV8001B	1" Solenoid Valve	Replacement	Removed and reinstalled the valve body to bonnet seal weld to allow rework of the valve internals.	92-042
BMV0343	2" Globe Valve	Repair	Installed a welded enclosure over the valve body to bonnet joint to contain leakage from the seal weld. Removed the enclosure and reworked the body to bonnet joint by grinding, machining, and welding.	92-044
BGV0001	1 1/2" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld, and replaced the stem/disc assembly.	92-045
BGV0002	1 1/2" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld, and replaced the stem/disc assembly.	92-046
BGV0003	1 1/2" Angle Throttle Valve	Replacement	Removed and reinstalled the yoke bushing tack weld, and replaced the stem/disc assembly.	92-047
SGL12B GL-283-HBC-1/2" GL-328-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL12B and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV091 and GLV138 were reinstalled.	92-048
SGL09B GL-282-HBC-1/2" GL-327-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL09B and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV090 and GLV137 were reinstalled.	92-049

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
SGL11B GL-284-HBC-1/2" GL-329-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL11B and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV092 and GLV139 were reinstalled.	92-050
SGL13B GL-281-HBC-1/2" GL-326-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL13B and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV089 and GLV136 were reinstalled.	92-051
SGL09A GL-277-HBC-1/2" GL-322-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGL09A and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GLV085 and GLV132 were reinstalled.	92-052
SGF02B GF-083-HBC-1/2" GF-084-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain nipples on SGF02B and stainless steel vent and drain lines downstream of those nipples. The carbon steel vent and drain valves GFV009 and GFV010 were reinstalled.	92-053
SGL15B GL-285-HBC-1/2" GL-330-HBC-1/2"	Room Cooler Coil Vents and Drains	Modification	Performed welding to install stainless steel vent and drain lines on SGL15B. The carbon steel vent and drain valves GLV093 and GLV140 were reinstalled.	92-054
BGV0319	1 1/2" Globe Valve	Replacement	Removed and reinstalled yoke bushing tack weld on the valve yoke.	92-055
BGV0560 BG-457-BCB-1"	1" Globe Valve Pipe/Fittings	Replacement	Performed welding to install a replacement valve for BGV0560 and a new piece of pipe and an elbow immediately upstream of BGV0560 in line BG-457-BCB-1".	92-056
BMV0538	1" Globe Valve	Modification	Performed welding to fabricate and install an encapsulation on the valve to contain leakage from the cracked seal weld on the body to bonnet joint. This encapsulation will be removed and scrapped when this valve is replaced on RR Plan 93-004.	92-058

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
SGK05B	Class 1E Switchgear Room A/C Unit SGK05B Condenser Inlet and Outlet Spools	Replacement	Replaced water inlet and outlet "transition piece" spools on SGK05B.	92-059
SGL09A	Room Cooler Coil	Replacement	Performed brazing to replace a leaking 5/8" H-Bend assembly.	92-060
EMFT0918	Flow Transmitter 5-valve Manifold and fittings	Replacement	Performed welding to install a new five-valve manifold and two socket weld unions for EMFT0918.	92-061
GKV769	2" Relief Valve on SGK04A Condenser	Replacement	Replaced valve due to unacceptable bench test.	92-062
SGK04A	Control Room A/C Unit SGK04A Condenser Inlet and Outlet Spools	Repair	Repaired water inlet and outlet "transition piece" spools by welding. Repair area was confined to flange faces and existing welds.	92-063
ALHV0031	6" Butterfly Valve	Repair	Excavated and performed weld repair of damaged areas on entire T-ring lip and three areas on interior surface of valve body.	92-064
SGK04B	Control Room A/C Unit SGK04B Condenser Inlet and Outlet Spools	Repair	Repaired water inlet and outlet "transition piece" spools by welding. Repair area was confined to flange faces and existing welds.	92-065
GKV770	2" Relief Valve on SGK04B Condenser	Replacement	Replaced valve due to unacceptable bench test.	92-066
PKJ03A	Lube Oil Keepwarm Pump for KKJ01A Emergency Diesel Generator	Replacement	Replaced lube oil circulating (keepwarm) pump s/n NRP-002000 with a rebuilt spare pump s/n NRP- 002002.	92-067
SGK05A	Class 1E Switchgear Room A/C Unit SGK05A Condenser Inlet and Outlet Spools	Replacement	Replaced water inlet and outlet "transition piece" spools on SGK05A.	92-068
PEC01A/611	Fuel Pool Cooling Pump	Repair	Blended scratches and grooves into the surrounding area on the interior of the pump casing near the suction bell.	92-069
EC04-R001/611	Pipe Support (Restraint)	Replacement	Removed shims from pipe restraint to allow pump alignment and replaced with new material which was machined to obtain correct clearances. Installed new shims by welding.	92-070

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
EF12-S001	Pipe Spool	Replacement/ Modification	Lines EC-097-HBC-2", EF-158-HBC-2", EF-159-HBC-2", GG-044-HBC-2", and GG-045-HBC-2" were replaced with stainless steel. Pipe spools EF12-S001 and EF12-S002 were replaced with stainless steel. Valves EFV0146, EFV0147, ECV020, and GGV006 were replaced. Pipe spools EF02-S025 and EF03-S027 were modified. Pipe supports M18-EF12-C517/611Q, M18-EF12-R507/611Q, M18-EF12-R505/611Q, M18-EF09-A501/133Q, M18-EF09-A502/133Q, M18-EF09-C517/133Q, M18-EF09-C521/133Q, and M18-EF09-C532/133Q were reworked to facilitate piping installation. Pipe supports M18-EF09-C507/133Q, M18-EF09-C508/133Q, M18-EF09-C514/133Q, M18-EF09-C518/133Q, and M18-EF09-C561/133Q were cut apart and rewelded to facilitate piping installation.	93-002
EF12-S002	Pipe Spool			
EF02-S025	Pipe Spool			
EF03-S027	Pipe Spool			
EC-097-HBC-2"	Pipe/Fittings			
EF-158-HBC-2"	Pipe/Fittings			
EF-159-HBC-2"	Pipe/Fittings			
GG-044-HBC-2"	Pipe/Fittings			
GG-045-HBC-2"	Pipe/Fittings			
EFV0146	2" Gate Valve			
EFV0147	2" Gate Valve			
ECV020	2" Globe Valve			
GGV006	2" Globe Valve			
M18-EF12-C517/611Q	Pipe Support			
M18-EF12-R507/611Q	Pipe Support			
M18-EF12-R505/611Q	Pipe Support			
M18-EF09-A501/133Q	Pipe Support			
M18-EF09-A502/134Q	Pipe Support			
M18-EF09-C517/133Q	Pipe Support			
M18-EF09-C532/133Q	Pipe Support			
M18-EF09-C507/133Q	Pipe Support			
M18-EF09-C508/133Q	Pipe Support			
M18-EF09-C514/133Q	Pipe Support			
M18-EF09-C518/133Q	Pipe Support			
M18-EF09-C521/133Q	Pipe Support			
M18-EF09-C561/133Q	Pipe Support			
KJ-005-HBC-28"	KKJ01A Emergency Diesel Generator	Replacement	Replaced one 1 1/4" hex nut each on KJXJ01A and KJXJ02A inlet flange bolting, and two 3/4" studs and four 3/4" nuts on KJXJ01A outlet flange bolting.	93-003
KJ-006-HBC-28"	Exhaust Flanged Connections at			
KJXJ01A	Expansion Joints KJXJ01A and			
KJXJ02A	KJXJ02A			
BMV0538	1" Globe Valve and Pipe	Replacement	Performed welding to replace valve BMV0538 and line BM-041-DBB-1" upstream to the first socket weld connection.	93-004
BM-041-DBB-1"				
CRDM Seismic Supports Q	CRDM Seismic Platform Above Reactor Vessel RBB01	Modification	Increased size of one existing pipe support attachment weld for Reactor Vessel Head Vent Piping. Performed one new pipe support attachment weld.	93-005

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
EPV0102 EP-082-ECB-3/4"	3/4" Globe Valve and Piping	Replacement	Performed welding to replace EPV0102 and upstream pipe up to, but not including the first reducer.	93-006
SGN01C	Containment Cooler Coils	Replacement	Replaced all 12 coils in SGN01C, and 12 studs and 24 nuts in the flanged connections to the 6" supply and return manifolds.	93-007
EFHV045	14" Butterfly Valve	Repair/ Replacement	Repaired eroded areas on valve body, replaced stem and disc assembly.	93-008
EFHV0032	14" Butterfly Valve	Repair	Repaired the valve body in six locations in the T-ring seating area by excavating and welding.	93-009
EFHV0034	14" Butterfly Valve	Repair	Excavated and repaired four areas on the interior of the valve along the T-ring seating area by grinding and welding.	93-010
M16-AB01-R036/145Q	Snubber	Replacement	Replaced snubber s/n 17783 with s/n 14989 to facilitate testing.	93-011
M06-AB01-R520/145Q	Snubber	Replacement	Replaced snubber s/n 23238 with s/n 11791 to facilitate testing.	93-012
M06-AB08-R516/145Q	Snubber	Replacement	Replaced snubber s/n 25932 with s/n 14038 to facilitate testing.	93-013
M16-AE04-R014/252Q	Snubber	Replacement	Replaced snubber s/n 1980 with s/n 1976 to facilitate testing.	93-014
M06-AE05-R019/242Q	Snubber	Replacement	Replaced snubber s/n 29224 with s/n 27589 to facilitate testing.	93-015
M06-BB04-R044/232Q	Snubber	Replacement	Replaced snubber s/n 14034 with s/n 7601 to facilitate testing.	93-016
M06-BB08-R007/231Q	Snubber	Replacement	Replaced snubber s/n 18366 with s/n 26124 to facilitate testing.	93-017
M06-BG01-R007/112Q	Snubber	Replacement	Replaced snubber s/n 4941 with s/n 7613 to facilitate testing.	93-018
0-BG02-R017/121Q	Snubber	Replacement	Replaced snubber s/n 26157 with s/n 27597 to facilitate testing.	93-019
M06-BG05-R019/132Q	Snubber	Replacement	Replaced snubber s/n 17787 with s/n 7991 to facilitate testing.	93-020
M06-BG21-R015/231Q	Snubber	Replacement	Replaced snubber s/n 26888 with s/n 26098 to facilitate testing.	93-021
M06-BG22-R020/232Q	Snubber	Replacement	Replaced snubber s/n 14506 with s/n 10363 to facilitate testing.	93-022

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
M06-BG23-R505/231Q	Snubber	Replacement	Replaced snubber s/n 25905 with s/n 35600 to facilitate testing.	93-023
M06-BM02-R015/232Q	Snubber	Replacement	Replaced snubber s/n 17978 with s/n 26144 to facilitate testing.	93-024
M06-BM01-R009/231Q	Snubber	Replacement	Replaced snubber s/n 11238 with s/n 26128 to facilitate testing.	93-025
M06-BM17-R517/251Q	Snubber	Replacement	Replaced snubber s/n 14886 with s/n 10366 to facilitate testing.	93-026
0-BM19-R506/252Q	Snubber	Replacement	Replaced snubber s/n 23293 with s/n 19096 to facilitate testing.	93-027
M16-EF03-R032/144Q	Snubber	Replacement	Replaced snubber s/n 20936 with s/n 20368 to facilitate testing.	93-028
M06-EG07-R009/134Q	Snubber	Replacement	Replaced snubber s/n 21514 with s/n 20956 to facilitate testing.	93-029
M16-EG08-R013/151Q	Snubber	Replacement	Replaced snubber s/n 35590 with s/n 29443 to facilitate testing.	93-030
M06-EJ01-R016/112Q	Snubber	Replacement	Replaced snubber s/n 7523 with s/n 26401 to facilitate testing.	93-031
M06-EJ02-R020/131Q	Snubber	Replacement	Replaced snubber s/n 8873 with s/n 21511 to facilitate testing.	93-032
M06-EJ04-C022/231Q	Snubber	Replacement	Replaced snubber s/n 1376 with s/n 859 to facilitate testing.	93-033
M06-EM01-R017/112Q	Snubber	Replacement	Replaced snubber s/n 6484 with s/n 8531 to facilitate testing.	93-034
M06-EM03-R017/232Q	Snubber	Replacement	Replaced snubber s/n 17992 with s/n 26889 to facilitate testing.	93-035
M06-EM06-R504/133Q	Snubber	Replacement	Replaced snubber s/n 19098 with s/n 21519 to facilitate testing.	93-036
M16-EM11-R504/231Q	Snubber	Replacement	Replaced snubber s/n 15007 with s/n 14537 to facilitate testing.	93-037
M06-EM12-R030/232Q	Snubber	Replacement	Replaced snubber s/n 17077 with s/n 14541 to facilitate testing.	93-038
M06-EP01-R013/231Q	Snubber	Replacement	Replaced snubber s/n 6908 with s/n 12030 to facilitate testing. The end adapter nuts were also interchanged between the two snubbers.	93-039
M06-EP05-R503/242Q	Snubber	Replacement	Replaced snubber s/n 8743 with s/n 14542 to facilitate testing.	93-040

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
M06-FC02-R507/125Q	Snubber	Replacement	Replaced snubber s/n 9596 with s/n 35597 to facilitate testing.	93-041
M06-GS02-R506/133Q	Snubber	Replacement	Replaced snubber s/n 29436 with s/n 29340 to facilitate testing.	93-042
M16-AE04-R011/145Q	Snubber	Replacement	Replaced snubber s/n 14507 with s/n 6402 to facilitate testing.	93-043
M06-BG09-R515/133Q	Snubber	Replacement	Replaced snubber s/n 20548 with s/n 14545 to facilitate testing.	93-044
EG10-S001/241	Pipe Spool	Modification	Modified the "BB" and "EG" systems by replacing a 3" check valve (BBV0122) with two 1 1/2" check valves. Associated piping and pipe supports were also modified in accordance with PMR 03280.	93-045
EG10-S007/241	Pipe Spool			
EG10-S008/241	Pipe Spool			
BBV0122	3" Check Valve			
BBV0443	1 1/2" Check Valve			
BBV0444	1 1/2" Check Valve			
EGV0424	3/4" Globe Valve			
BBV0451	3/4" Globe Valve			
EGV0333	3" Gate Valve			
0-EG10-C002/241Q	Pipe Support			
M06-EG10-C003/241Q	Pipe Support			
0-EG10-R003/241Q	Pipe Support			
M08-EG10-H502/231Q	Pipe Support			
M08-EG10-C501/241Q	Pipe Support			
C-8-242-E	Pipe Formation	Modification	Modified the "BB" and "EG" systems by replacing a 3" check valve (BBV0152) with two 1 1/2" check valves. Associated piping and tubing were also modified in accordance with PMR 03280.	93-046
BBV0152	3" Check Valve			
BBV0445	1 1/2" Check Valve			
BBV0446	1 1/2" Check Valve			
BBV0425	3/4" Globe Valve			
BBV0452	3/4" Globe Valve			

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
C-11-242-A	Pipe Formation	Modification	Modified the "BB" and "EG" systems by replacing a 3" check valve (BBV0182) with two 1 1/2" check valves. Also, associated piping, pipe supports, and instrument tubing were modified in accordance with PMR 03280.	93-047
C-11-242-C	Pipe Formation			
BBV0182	3" Check Valve			
BBV447	1 1/2" Check Valve			
BBV448	1 1/2" Check Valve			
BBV453	3/4" Globe Valve			
BBV426	3/4" Globe Valve			
EG14-H003/242Q	Pipe Support			
EG14-R005/242Q	Pipe Support			
EG14-H005/242Q	Pipe Support			
EG16-S013/241	Pipe Spool	Modification	Modified the "BB" and "EG" systems by replacing a 3" check valve (BBV212) with two 1 1/2" check valves. Also, associated piping, tubing, and supports were modified in accordance with PMR 03280.	93-048
EG16-S014/241	Pipe Spool			
BBV0212	3" Check Valve			
BBV449	1 1/2" Check Valve			
BBV450	1 1/2" Check Valve			
BBV427	3/4" Globe Valve			
BBV454	3/4" Globe Valve			
EG16-H501/241Q	Pipe Support			
M16-EF01-C008/311Q	Pipe Supports	Modification	Modified (added) pipe support EF13-C504/311Q by performing welding to install a PG-1 support in place of the original non-ASME PG-3. Modified support EG04-R009/141Q by removing snubbers, clamps, and welded beam attachments. Modified support EF01-R010/311Q by removing snubbers, clamps, and welded beam attachments and installing sway struts, clamps, and welded beam attachments. Modified support EG04-R007/141Q by removing the entire support except for the lugs welded to line EG-177-HBC-18". Modified the following supports by deleting them in their entirety: EF01-C008/311Q, EF01-R004/311Q, EF05-R023/141Q, EF05-R026/141Q, EG03-R015/141Q, EG03-R023/141Q, EJ02-R506/133Q, and EJ02-R507/133Q.	93-050
M06-EF01-R004/311Q				
M06-EF01-R010/311Q				
M06-EF05-R023/141Q				
M06-EF05-R026/141Q				
M06-EG04-R007/141Q				
0-EG03-R015/141Q				
0-EG03-R023/141Q				
0-EJ02-R506/133Q				
0-EJ02-R507/133Q				
M06-EG04-R009/141Q				
EF13-C504/311Q				

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
0-EG01-R002/142Q 0-EG01-R003/142Q 0-EG01-R004/142Q M06-EG01-R005/142Q 0-EG01-R016/132Q	Snubbers/Pipe Supports	Modification	Modified pipe supports to delete snubbers.	93-051
BMHV0035	1" Solenoid Valve	Replacement	Removed and reinstalled the valve body to bonnet seal weld to allow rework of the valve internals.	93-056
SJHV005 SJ-001-BCB-1"	1" Solenoid Valve	Replacement/ Modification	Performed welding to replace valve with a new style direct lifting solenoid valve per PMR 01727, and a short piece of pipe between the valve and the upstream tee fitting.	93-057
SJHV0006	1" Solenoid Valve	Replacement/ Modification	Performed welding to replace valve with a new style direct lifting solenoid valve per PMR 01727.	93-058
SJHV0127	1" Solenoid Valve	Replacement/ Modification	Performed welding to replace valve with a new style direct lifting solenoid valve per PMR 01727.	93-059
SJHV0003	1" Solenoid Valve	Replacement	Removed and reinstalled the valve body to bonnet seal weld to allow rework of the valve internals.	93-060
0-EG03-R014/141Q	Snubber	Replacement	Replaced snubber s/n 10279 with s/n 10283.	93-061
M06-BB04-R014/261Q	Pipe Support	Replacement	Replaced all of the pipe support pipe clamp bolting during disassembly for ISI pipe weld inspection.	93-066
0-BG24-R003/261Q	Pipe Support	Replacement	Replaced all of the pipe support pipe clamp bolting during disassembly for ISI pipe weld inspection.	93-067
EJ8708A	3" Relief Valve	Replacement	Replaced relief valve to allow testing of removed valve.	93-068
EJ8708B	3" Relief Valve	Replacement	Replaced relief valve to allow testing of removed valve.	93-069
EGV0170	2" Relief Valve	Replacement	Replaced relief valve to allow testing of removed valve.	93-070

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0-BB05-R012/231Q	Pipe Support	Modification	Completely removed a W8X24 structural brace and shortened the remaining upright W8X24.	93-071
EGV0159	2" Relief Valve	Replacement	Replaced relief valve EGV0159 with a new item to allow testing of the removed valve.	93-072
BGFT0121	Flow Transmitter 5-Valve Manifold and Upstream 3/8" Tubing Unions	Replacement	Performed welding to install a new 5-valve manifold and two new unions in the existing upstream tubing.	93-073
KJV0820A KJV0820B	1 1/2" Lube Oil Keepwarm Relief Valve Piping	Replacement/ Modification	Changed lube oil keepwarm piping, by welding, to install valves KJV0820A & B in the vertical position.	93-074
AEV0122	Main Feedwater Check Valve	Repair/ Replacement/ Modification	Removed the welded hinge pin encapsulation on the west side of the valve and repaired a gouge in the hinge pin penetration boss by grinding and blending. Machined the valve disc hinge pin bushing bosses to allow bushing sleeves to be installed. Replaced the west side hinge pin cover, one hinge pin cover stud on the west side, and one valve bonnet nut. Fabricated and installed hinge pin encapsulations over both the east and west side hinge pin covers by welding.	93-075
AEV0121	Main Feedwater Check Valve	Replacement	Removed existing hinge pin cover encapsulations from valve AEV0121. Replaced hinge pin cover encapsulations with new material.	93-076
AEV0120	Main Feedwater Check Valve	Repair/ Replacement	Removed and replaced hinge pin cover encapsulations. Replaced one bonnet stud. Replaced two bonnet nuts. Machined hinge pin bushing bosses to allow installation of larger bushings.	93-077
BGV8117	2" Relief Valve	Replacement	Replaced relief valve BGV8117 with new valve s/n N66250-00-0011 to allow testing of the removed valve. Also replaced one nut on the BGV8117 inlet flange bolting.	93-078
BGV8121	2" Relief Valve	Replacement	Replaced relief valve BGV8121 with new valve s/n N60714-00-0009 to allow testing of the removed valve.	93-079

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JEV0085	2" Check Valve	Repair/ Replacement	Removed and replaced the body to bonnet seal weld and repaired a damaged area on the valve bonnet.	93-081
EF04-S031/133	Pipe Spool	Replacement/ Modification	Modified EF, EC, and GG systems by replacing spools EF12-S003, EF12-S004, lines GG-046-HBC-2", GG-047-HBC-2", EF-120-HBC-2", EF-161-HBC-2", EF-162-HBC-2", and EC-096-HBC-2" with stainless steel. Spools EF04-S031/133 and EF05-S033/133 have been modified. Valves EFV0148, EFV0149, ECV0019, and GGV008 have been replaced with new valves. Pipe support M08-EF12-C511/611Q has been deleted.	93-082
EF05-S033/133	Pipe Spool			
EF12-S003/611	Pipe Spool			
EF12-S004/611	Pipe Spool			
M08-EF12-C511/611Q	Pipe Support			
EFV0148	2" Gate Valve			
EFV0149	2" Gate Valve			
ECV0019	2" Globe Valve			
GGV008	2" Globe Valve			
GG-046-HBC-2"	Pipe/Fittings			
GG-047-HBC-2"	Pipe/Fittings			
EF-120-HBC-2"	Pipe/Fittings			
EF-161-HBC-2"	Pipe/Fittings			
EF-162-HBC-2"	Pipe/Fittings			
EC-096-HBC-2"	Pipe/Fittings			
BGV8119	2" Relief Valve	Replacement	Replaced relief valve BGV8119 with a new valve s/n N60728-00-0012 to allow testing of the removed valve.	93-083
SP24-FD-M717-011Q/Loop 1 SP24-FD-M717-011Q/Loop 2 SP24-FD-M717-011Q/Loop 3 SP24-FD-M717-011Q/Loop 4	Crossover Leg Vertical Run Restraints for Loops 1/2/3/4	Modification	Removed (deleted) crossover leg vertical run restraints from Loop 1,2,3, and 4 crossover leg piping.	93-084
M16-EJ04-H004/231Q	Pipe Support	Replacement	Replaced all of the pipe support clamp bolting during disassembly for ISI pipe weld inspection.	93-085
M06-EJ04-R016/231Q	Pipe Support	Replacement	Replaced all of the pipe support clamp bolting during disassembly for ISI pipe weld inspection.	93-086
M06-EJ04-H009/231Q	Pipe Support	Replacement	Replaced all of the pipe support clamp bolting during disassembly for ISI pipe weld inspection.	93-087
M06-EP02-H010/232Q	Pipe Support	Replacement	Replaced all of the pipe clamp bolting material during disassembly of this support to allow ISI weld inspection.	93-090

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M06-AE05-H003/241Q	Pipe Support	Replacement	Replaced all of the pipe support pipe clamp bolting during disassembly for ISI integral attachment weld inspection.	93-091
M06-EM03-H003/232Q	Pipe Support	Replacement	Replaced all of the pipe support pipe clamp bolting during disassembly for ISI pipe weld inspection.	93-092
GKV771	2" Relief Valve on SGK05A Condenser	Replacement	Replaced relief valve due to seal leakage.	93-093
TEF01B	Essential Service Water Pump Pre-lube Storage Tank	Replacement	Performed welding to install an internal (non-pressure retaining) strainer support in TEF01B.	93-095
TEF01A	Essential Service Water Pump Pre-lube Storage Tank	Replacement	Performed welding to install an internal (non-pressure retaining) strainer support in TEF01A.	93-096
EF-172-HBC-1/2"	PEF01A Pre-lube Supply Line From TEF01A	Replacement	Performed welding to replace part of line EF-172-HBC-1/2".	93-097
EF-174-HBC-1/2"	PEF01B Pre-lube Supply Line From TEF01B	Replacement	Performed welding to replace part of line EF-174-HBC-1/2".	93-098
BGV0456 BG-194-HCB-3/4"	3/4" Globe Valve and Piping	Replacement	Performed welding to replace valve BGV0456 and part of line BG-194-HCB-3/4" upstream to the first socket weld.	93-099
BBV0358	1" Globe Valve	Replacement	Removed and reinstalled the valve body to bonnet and plug to bonnet seal welds to allow rework of the valve internals.	93-100
BBV0317	1" Gate Valve	Replacement	Performed welding to replace 1" gate valve BBV0317.	93-101
BBHV8000B	3" Gate Valve	Replacement	Replaced valve disc and stem/link assembly.	93-102
BG8123	2" Relief Valve	Replacement	Replaced relief valve BG8123 with new valve s/n N67106-00-0003 to allow testing of the removed valve.	93-103
ABLV0009	2" Globe Control Valve	Replacement	Replaced valve plug.	93-104
ABLV0007	2" Globe Control Valve	Replacement	Replaced valve plug.	93-105

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
ABLV0008	2" Globe Control Valve	Replacement	Replaced valve plug.	93-106
ABLV0010	2" Globe Control Valve	Replacement	Replaced valve plug.	93-107
AE05-S010/241	Pipe Spool 1-AE-05-S-010/241	Repair	While performing ISI examination of the lug attachment welds for pipe support AE05-R028/241, two indications were found on pipe spool AE05-S010/241 outside of the lug attachment weld area. These indications were excavated by blending with a flapper wheel to remove approximately 0.015 inches of material.	93-108
M16-AB01-C010/145Q	Pipe Support	Replacement	Replaced all of the sway strut pipe clamp bolting due to installation of incorrect material during Refuel V.	93-109
ENHV0012	10" Gate Valve	Modification	Replaced valve disc due to a design change.	93-111
BB8010A	6" Pressurizer Relief Valve	Replacement	Replaced relief valve BB8010A with new valve s/n N60446-00-0002, and installed new inlet flange studs and nuts on the replacement valve.	93-112
BB8010B	6" Pressurizer Relief Valve	Replacement	Replaced relief valve BB8010B with new valve s/n N60446-00-0040, and installed new inlet flange studs and nuts on the replacement valve.	93-113
BB8010C	6" Pressurizer Relief Valve	Replacement	Replaced relief valve BB8010C with new valve s/n N60446-00-0041, and installed new inlet flange studs and nuts on the replacement valve.	93-114
SGL10B	Room Cooler Coil	Replacement	Installed "jumper" and replacement fittings on cooling coil in SGL10B by brazing.	93-115
TBB03	Pressurizer for Reactor Coolant System	Modification	Modified pressurizer TBB03 by installing stud/nut assemblies in place of pressurizer manway bolting.	93-116
SGL12B	Room Cooler Coil	Replacement	Performed brazing to replace four (4) hex nut adapter fittings.	93-117
BBPCV0456A	3" Power Operated Relief Valve for Reactor Coolant System	Replacement	Replaced valve plug.	93-118

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
EJV0048 EJ-002-ECB-3/4"	3/4" Globe Valve and Piping	Replacement	Performed welding to replace EJV0048 and upstream pipe up to, but not including, the 3/4" sockolet.	93-119
BB-232-BCB-3/8"	3/8" Bottom Head Drain on Steam Generator EBB01C	Replacement	Performed welding to replace the cracked weld joining the Steam Generator "C" bottom head drain nozzle and the downstream 3/8" pipe in line BB-232-BCB-3/8".	93-120
0-BG24-R003/261Q	Pipe Support	Replacement	Removed and rewelded the transition tube length adjustment weld to obtain the correct setting for the snubber on BG24-R003/261Q.	93-121
0-EG24-R009/111Q	Pipe Support	Replacement	Removed and reinstalled W6X20 by welding to allow access for work on PBG05B.	93-122
AL-PI-20	Pressure Indicator Support	Modification	Relocated AL-PI-20 (J04AL10) instrument support by welding.	93-123
EBB01C	Loop 3 Steam Generator EBB01C	Repair	Repaired bolt hole #4 on Steam Generator EBB01C Primary Manway by removing a damaged helicoil insert and installing a new insert.	93-124
BGHV8109	2" Globe Valve	Replacement	Replaced valve disc.	93-125
ABV0065	6" Main Steam Safety Valve	Replacement	Replaced valve ABV0065 with valve s/n N60493-00-0045.	93-126
RBB01	Reactor Vessel Head Penetration #29	Modification	Installed ABB lower canopy seal weld clamp assembly on spare Reactor Vessel Head Penetration #29.	93-127
ABV0056	6" Main Steam Safety Valve	Replacement	Replaced valve ABV0056 with valve s/n 60493-00-0010 to allow testing of the removed valve.	93-128
ENV0013	10" Check Valve	Replacement	Replaced the check valve bonnet bolting due to overtorquing.	93-129
EPV0099	3/4" Drain Valve	Replacement	Performed welding to install a replacement valve for EPV0099 and a new piece of pipe immediately upstream of EPV0099.	93-130
M06-EG14-H002/232Q	Constant Support	Replacement	Replaced all thread rod which attaches the weldless eye nut to the top (welded beam attachment end) of the spring can.	93-131

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENT</u>
BGHCV0182	3" Globe Valve	Replacement	Replaced valve plug/stem assembly.	93-132
SGL13B	Room Cooler Coil	Replacement	Performed brazing to replace one (1) previously repaired hex nut adapter fitting.	93-133
M06-EP06-R507/232Q	Snubber	Replacement	Replaced snubber s/n 15000 with s/n 15015.	93-134
ALHV0032	8" Butterfly Valve	Repair/ Replacement/ Modification	Replaced three flange studs, drilled into valve disc to allow removal of the disc groove pins, modified disc by tapping the drilled holes and installing and seal welding 1/8" pipe plugs in each of them, and repaired the valve body in the T-ring seating area by welding, grinding, and machining.	93-135
AEV0123	Main Feedwater Check Valve	Modification	Machined hinge pin bosses to allow installation of sleeve and hinge pin bushings. Installed hinge pin cover encapsulations by welding.	93-136
M16-EF08-R002/511Q	Pipe Support	Modification	Modified pipe support by shortening two W6X20 beams and welding a plate to the end of each beam to allow installing a bolted W6X25 beam.	93-137
0-GN02-R001/231Q	Pipe support	Replacement	Replaced threaded rod portion of sway strut with new material.	93-138
I-PBB01-TR/Loop 4	Tie Rod For PBB01D	Modification	Machined and installed spacer plates (shims) in gap between tie rod s/n 1378, and pump PBB01D.	93-140