



# WOLF CREEK GENERATING STATION

P.O. Box 411, Burlington, Kansas 66839

## INSERVICE INSPECTION REPORT

Date of Report Completion: April 10, 1992

Commercial Service Date: September 3, 1985  
Operating Capacity: 3411 MWt  
Refueling Outage: 5  
Period: 2  
Interval: 1

Prepared by:

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## INTRODUCTION

Wolf Creek Nuclear Operating Corporation is reporting the examinations, tests, and repairs/replacements conducted on ASME Class Components for Refueling Outage V. These activities are performed to ensure the structural integrity of safety-related components and to comply with both the Code of Federal Regulations and the ASME Code Section XI.

This report contains specific information pertaining to the following:

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

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

### Inservice Inspection (ISI)

The examinations performed for ISI are done per the ISI Program Plan. 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.

Reactor Coolant Pump "B" was replaced with a refurbished motor from the Union Electric Company (Callaway Plant). While the motor was at the stinginghouse shop in Cheswick, Pennsylvania, for refurbishment, the examinations on the flywheel were performed to fulfill the Regulatory Guide 1.14, Section C.4.b(2) requirement.

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 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 non-destructive examinations (NDE) required for repair/replacement items to re-establish data for the ISI Program.

## EXAMINATION RESULTS

## EXAM INDICATION:

<u>ISI Plan</u>	<u>Component ID</u>	<u>Type Exam</u>	<u>Code Cat &amp; 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. One of the indications was located in the weld area, the other five were located outside the weld in the base material. The Preservice Inspection (PSI) data (Report No. PBT-PT-5644 Peabody Testing) indicated there were linear indications in the base material. The PSI indications were removed by blending and/or grinding. However, it is inconclusive if the present indications are the PSI indications recurring.

**NOTE:** The volumetric examination (UT) of this component showed no indications.

**Corrective Action:** Re-examine in Refuel Outage 6 for growth and trending.

## EXAM INDICATION:

<u>ISI Plan</u>	<u>Component ID</u>	<u>Type Exam</u>	<u>Code Cat &amp; 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:** Four linear indications were found on the surface of the weld. All of the indications were sized and found acceptable. The indications are located at the toe of the weld and are a result of the surface condition at the weld to base metal transition. The PSI data showed no recordable indications.

**Corrective Action:** Re-examine in Refuel Outage 6 for growth and trending.

## EXAMINATION RESULTS

## EXAM INDICATION:

<u>ISI Plan</u>	<u>Component ID</u>	<u>Type Exam</u>	<u>Code Cat &amp; Section</u>	<u>Component Description</u>
E3A1699	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. The indications are located at the toe of the weld and are the result of the surface condition at the weld to base metal transition. The PSI data showed no recordable indications.

**Corrective Action:** Re-examine in Refuel Outage 6 for growth and trending.

## EXAM INDICATION:

<u>ISI Plan</u>	<u>Component ID</u>	<u>Type Exam</u>	<u>Code Cat &amp; Section</u>	<u>Component Description</u>
B3A1694	EP-01-S011-J	PT	B-J B9.32	Accumulator Safety Injection System, Safety Injection to Reactor Coolant System Loop 4 Cold Leg 2" Socket to 6" Pipe

**Condition:** Three linear indications were found on the weld surface. All of the indications were sized and found acceptable. This was a re-examination from Refuel Outage 4 because one of the indications appeared to be growing. However, no growth is apparent for any of the indications.

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

## EXAMINATION RESULTS

## LIMITED EXAM:

<u>ISI Plan</u>	<u>Component ID</u>	<u>Type Exam</u>	<u>Code Cat &amp; Section</u>	<u>Component Description</u>
83A1697	AB-01-S046-M	UT	C-F C5.21	Main Steam Loop 4 Dripleg Drain, 12" Outlet on Main Steam Header to 12" Pipe

**Condition:** A weld-on-let is located such that it overlaps the weld metal. This limits the volumetric examination by approximately one percent when using a 45 degree shear wave angle beam utilizing a one-half vee technique.

**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.

## LIMITED EXAM:

<u>ISI Plan</u>	<u>Component ID</u>	<u>Type Exam</u>	<u>Code Cat &amp; Section</u>	<u>Component Description</u>
83A1697	AB-01-S046-S	UT	N/A N/A	Main Steam Loop 4 Dripleg Drain, 12" Pipe to 12" Pipe Cap

**Condition:** A weld-on-let is located such that it overlaps the weld metal. This limits the volumetric examination by approximately four percent when using a 45 degree shear wave angle beam utilizing a one-half vee technique.

**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.

## EXAMINATION RESULTS

## LIMITED EXAM:

<u>ISI Plan</u>	<u>Component ID</u>	<u>Type Exam</u>	<u>Code Cat &amp; Section</u>	<u>Component Description</u>
83A1699	EJ-02-C020	PT	C-C C3.20	Residual Heat Removal Heat Exchanger "B" Outlet Line Integral Attachments (8 Welded Lugs)

**Condition:** The surface examination of the subject integrally welded attachments (lugs) are twenty-four percent obstructed on two of the lugs. The obstruction is a result of a permanent hanger that is used to support the Residual Heat Removal piping. The diagonal supports of this hanger cross over the required inspection area on two of the lugs.

**Corrective Action:** A request has been filed with the NRC asking that relief be granted for this component.

## LIMITED EXAM:

<u>ISI Plan</u>	<u>Component ID</u>	<u>Type Exam</u>	<u>Code Cat &amp; Section</u>	<u>Component Description</u>
83A1699	EJ-02-F022	PT	C-F C5.11	Residual Heat Removal (RHR) Pump "B" to Heat Exchanger Inlet, 12" Pipe to RHR Heat Exchanger "B" Inlet

**Condition:** The surface examination of the subject weld is thirty-nine percent obstructed by a one and one-half inch by one and five-eighths inch ring. The ring is welded over the downstream toe of the weld, therefore, making it impossible to get the required one-half inch coverage beyond the toe of the weld. To examine the obstructed area would require physically removing the welded ring.

**Corrective Action:** A request has been filed with the NRC asking that relief be granted for this component.



## EXAMINATION RESULTS

## LIMITED EXAM:

ISI Plan	Component ID	Type Exam	Code Cat & Section	Component Description
83A1695	TEM01-SEAM-3-W	UT	C-A C1.20	Boron Injection Tank Bottom Head to Shell

Condition: The volumetric examination of the subject weld is limited in the axial scan in the following way:

<u>Limitations</u>	<u>Beam Toward Shell</u>	<u>Beam Toward Head</u>
Weld Configuration	- 57%	- 33%
Leg Supports	- 22%	- 25%
Instrumentation Nozzle	- 4%	- 5%
<u>Total Weld Coverage</u>	<u>17%</u>	<u>37%</u>

The circumferential examination was 100 percent limited due to the weld configuration.

The transducers used to examine cast stainless steel material were too large to maintain sufficient contact when running along the weld crown. Wolf Creek contends that other transducers may have maintained better contact along the weld crown; however, they would not have provided an as effective examination. This is because the transducers used to examine this cast stainless steel material were designed specifically to enhance the flaw detection capabilities.

Corrective Action: A request has been filed with the NRC asking that relief be granted for this component.

**EXAMINATION  
ISI VOLUMETRIC EXAMS**

**MAIN STEAM (AB)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>		<u>COMPONENT DESCRIPTION</u>
83A1697	AB-01-F026	UT	N/A	N/A	Main Steam Loop 2, 28" Main Steam Header to Flued Head (P-3)
83A1697	AB-01-F027	UT	N/A	N/A	Main Steam Loop 2, Valve HV17 to 28" Main Steam Header
83A1697	AB-01-F028	UT	N/A	N/A	Main Steam Loop 2, 28" Torsional Restraint to Valve HV17
83A1697	AB-01-F029	UT	N/A	N/A	Main Steam Loop 2, 28" Pipe to Torsional Restraint
83A1697	AB-01-F030	UT	N/A	N/A	Main Steam Loop 2, Power Operated Relief Valve Line, 10" Outlet on Main Steam Header to 10" Pipe
83A1697	AB-01-F031	UT	N/A	N/A	Main Steam Loop 2, Power Operated Relief Valve Line, 10" Pipe to Valve V40
83A1697	AB-01-F032	UT	N/A	N/A	Main Steam Loop 2, Power Operated Relief Valve Line, Valve V40 to 10" Pipe
83A1697	AB-01-F033	UT	N/A	N/A	Main Steam Loop 2, Power Operated Relief Valve Line, 10" X 8" Reducer to Valve PV2
83A1697	AB-01-F035	UT	N/A	N/A	Main Steam Loop 2, Main Steam to Aux Feed Turbine, 4" Extruded Outlet on Main Steam Header to 4" Pipe
83A1697	AB-01-F037	UT	N/A	N/A	Main Steam Loop 2, Main Steam to Aux Feed Turbine, Valve V85 to 4" Pipe
83A1697	AB-01-F038	UT	N/A	N/A	Main Steam Loop 2, Main Steam to Aux Feed Turbine, 4" Pipe to Valve HV5
83A1697	AB-01-F039	UT	N/A	N/A	Main Steam Loop 2, Main Steam to Aux Feed Turbine, Valve HV5 to 4" Pipe
83A1697	AB-01-F075	UT	N/A	N/A	Main Steam Loop 4, Valve HV11 to 28" Main Steam Header
83A1697	AB-01-F076	UT	N/A	N/A	Main Steam Loop 4, 28" Torsional Restraint to Valve HV11

**EXAMINATION  
ISI VOLUIMETRIC EXAMS**

**MAIN STEAM (AB) Continued**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1697	AB-01-F077	UT	N/A N/A	Main Steam Loop 4, 28" Pipe to Torsional Restraint
83A1697	AB-01-FW320	UT	N/A N/A	Main Steam to Aux Feed Turbine, 4" Pipe to 4" Elbow
83A1697	AB-01-FW321	UT	N/A N/A	Main Steam to Aux Feed Turbine, 4" Elbow to 4" Pipe
83A1697	AB-01-FW322	UT	N/A N/A	Main Steam to Aux Feed Turbine, 4" Pipe to Valve V85
83A1697	AE-01-S016-G	UT	N/A N/A	Main Steam Loop 2 Safety Branch, 6" Outlet on Main Steam Header to 6" Flange
83A1697	AB-01-S018-H	UT	N/A N/A	Main Steam Loop 2 Safety Branch, 6" Outlet on Main Steam Header to 6" Flange
83A1697	AB-01-S018-J	UT	N/A N/A	Main Steam Loop 2 Safety Branch, 6" Outlet on Main Steam Header to 6" Flange
83A1697	AB-01-S018-K	UT	N/A N/A	Main Steam Loop 2 Safety Branch, 6" Outlet on Main Steam Header to 6" Flange
83A1697	AB-01-S018-L	UT	N/A N/A	Main Steam Loop 2 Safety Branch, 6" Outlet on Main Steam Header to 6" Flange
83A1697	AB-01-S018-S	UT	N/A N/A	Main Steam Loop 2 Drip Leg Drain, 12" Pipe to 12" Outlet on Main Steam Header
83A1697	AB-01-S018-W	UT	N/A N/A	Main Steam Loop 2 Drip Leg Drain, 12" Pipe to 12" Pipe Cap
83A1697	AE-01-S020-B	UT	N/A N/A	Main Steam Loop 2 Power Operated Relief Valve Line, 10" Pipe to 10" Elbow
83A1697	AE-01-S020-C	UT	N/A N/A	Main Steam Loop 2 Power Operated Relief Valve Line, 10" Elbow to 10" Pipe
83A1697	AE-01-S021-C	UT	N/A N/A	Main Steam Loop 2 Power Operated Relief Valve Line, 10" Pipe to 10" Elbow
83A1697	AB-01-S021-D	UT	N/A N/A	Main Steam Loop 2 Power Operated Relief Valve Line, 10" Elbow to 10" X 8" Reducer
83A1697	AB-01-S023-D	UT	N/A N/A	Main Steam Loop 2 Main Steam to Aux Feed Turbine Line, 4" Elbow to 4" Pipe

EXAMINATION  
ISI VOLUMETRIC EXAMS

## MAIN STEAM (AB) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>		<u>COMPONENT DESCRIPTION</u>
83A1697	AB-01-S023-E	UT	N/A	N/A	Main Steam Loop 2 Main Steam to Aux Feed Turbine Line, 4" Pipe to 4" Elbow
83A1697	AB-01-S046-M	UT	C-F	C5.21	Main Steam Loop 4 Dripleg Drain, 12" Outlet on Main Steam Header to 12" Pipe
83A1697	AB-01-S046-S	UT	N/A	N/A	Main Steam Loop 4 Dripleg Drain, 12" Pipe to 12" Pipe Cap

## REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>		<u>COMPONENT DESCRIPTION</u>
83A1700	BB-01-F003	UT	B-J	B9.11	Reactor Coolant Pressurizer Surge Line, 14" Elbow to 14" Bent Pipe (S003)
83A1700	BB-01-F201	UT	B-J	B9.11	Reactor Coolant Loop 2 RCS Cold Leg, 27.5" Reactor Coolant Pump "B" Outlet to 27.5" ID Pipe
83A1700	BB-01-F204	UT	B-J	B9.11	Reactor Coolant Loop 2 RCS Hot Leg, 29" X 31" Elbow to Steam Generator "B" Inlet Nozzle
83A1700	BB-01-F205	UT	B-J	B9.11	Reactor Coolant Loop 2 RCS Crossover Leg, Steam Generator "B" Outlet Nozzle to 31" Elbow
83A1700	BB-01-F301	UT	B-J	B9.11	Reactor Coolant Loop 3 RCS Cold Leg, Reactor Coolant Pump "C" Outlet to 27.5" ID Pipe
83A1700	BB-01-F304	UT	B-J	B9.11	Reactor Coolant Loop 3 RCS Hot Leg, 29" X 31" Elbow to Steam Generator "C" Inlet Nozzle
83A1700	BB-01-F401	UT	B-J	B9.11	Reactor Coolant Loop 4 RCS Cold Leg, Reactor Coolant Pump "D" Outlet to 27.5" ID Pipe
83A1700	BB-01-F404	UT	B-J	B9.11	Reactor Coolant Loop 4 RCS Hot Leg, 29" X 31" Elbow to Steam Generator "D" Inlet Nozzle
83A1700	BB-01-S003-2	UT	B-J	B9.11	Reactor Coolant Pressurizer Surge Line, 14" Bent Pipe (S003) to 14" Elbow

**EXAMINATION**  
**ISI VOLUMETRIC EXAMS**

**REACTOR COOLANT (BB) (Continued)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-01-S301-6	UT	B-J B9.31	Reactor Coolant Loop 3 RCS Cold Leg, 10" Nozz <sup>3</sup> to 27.5" ID Pipe
83A1700	BB-04-FW302	UT	B-J B9.11	Reactor Coolant Pressurizer Spray Line, 4" Elbow to 4" Pipe
83A1700	BB-04-S009-D	UT	B-J B9.11	Reactor Coolant Cold Loop 1 Spray Line, 4" Elbow to 4" Pipe
83A1700	FEB01B-FLYWHEEL	UT	N/A N/A	Reactor Coolant Pump (RCP) "B" Flywheel for RCP Motor, Serial Number 2587P408

**STEAM GENERATOR BLOWDOWN (BM)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1693	BM-01-F001	UT	N/A N/A	Steam Generator Blowdown Loop 4, Flued Head (P-9) to Valve V33
83A1693	BM-01-F007	UT	N/A N/A	Steam Generator Blowdown Loop 4, 4" Pipe to 4" Pipe
83A1693	BM-01-F008	UT	N/A N/A	Steam Generator Blowdown Loop 4, 4" Pipe to 4" Pipe
83A1693	BM-01-F009	UT	N/A N/A	Steam Generator Blowdown Loop 4, Valve HV4 to 4" Pipe
83A1693	BM-01-F010	UT	N/A N/A	Steam Generator Blowdown Loop 4, 4" Pipe to HV4
83A1693	BM-01-F011	UT	N/A N/A	Steam Generator Blowdown Loop 4, Valve V35 to 4" Pipe
83A1693	BM-02-F016	UT	N/A N/A	Steam Generator Blowdown Loop 3, 4" Pipe to 4" Pipe
83A1693	BM-02-F019A	UT	N/A N/A	Steam Generator Blowdown Loop 3, 4" Pipe to 4" Pipe
83A1693	BM-02-F020	UT	N/A N/A	Steam Generator Blowdown Loop 3, Valve HV3 to 4" Pipe
83A1693	BM-02-F031	UT	N/A N/A	Steam Generator Blowdown Loop 3, 4" Pipe to Isolation Restraint
83A1693	BM-02-F032	UT	N/A N/A	Steam Generator Blowdown Loop 3, Isolation Restraint to 4" Pipe

EXAMINATION  
ISI VOLUMETRIC EXAMS

## RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-02-F053	UT	C-F C5.21	Residual Heat Removal Heat Exchanger "B" to Hot Leg Recirc Loop 2 and 3, 10" Elbow to Pipe
83A1699	EJ-02-F053-LU	UT	C-F C5.22	Residual Heat Removal Heat Exchanger "B" to Hot Leg Recirc Loop 2 and 3, 10" Elbow to Pipe

## SAFETY INJECTION (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-01-S022-L	UT	N/A N/A	Residual Heat Removal Heat Exchangers Outlet to Safety Injection Pumps Suction, 6" Elbow to 6" Pipe
83A1695	EM-01-S022-L-LD	UT	N/A N/A	Residual Heat Removal Heat Exchangers Outlet to Safety Injection Pumps Suction, 6" Pipe Longitudinal Seam Downstream
83A1695	EM-01-S022-L-LU	UT	N/A N/A	Residual Heat Removal Heat Exchangers Outlet to Safety Injection Pumps Suction, 6" Pipe Longitudinal Seam Upstream
83A1695	EM-01-S029-E	UT	N/A N/A	Residual Heat Removal Heat Exchangers Outlet to Safety Injection Pumps Suction, 6" Pipe to 6" Elbow
83A1695	EM-01-S029-E-LD	UT	N/A N/A	Residual Heat Removal Heat Exchangers Outlet to Safety Injection Pumps Suction, 6" Elbow Longitudinal Seam Downstream
83A1695	EM-01-S029-E-LU	UT	N/A N/A	Residual Heat Removal Heat Exchangers Outlet to Safety Injection Pumps Suction, 6" Pipe Longitudinal Seam Upstream
83A1695	EM-02-SJ08-L	UT	C-F C5.21	Boron Injection Tank Inlet Line, 6" Tee to 6" Pipe
83A1695	TEM01-1-W	UT	C-B C2.21	Boron Injection Tank Outlet Nozzle to Top Head
83A1695	TEM01-SEAM-3-W	UT	C-A C1.20	Boron Injection Tank Bottom Head to Shell

EXAMINATION  
ISI VOLUMETRIC EXAMS

## AUX TURBINES (FC)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1701	FC-01-F020	UT	N/A N/A	Aux Turbine Main Steam to Aux Feed, 4" Tee to 4" Pipe
83A1701	FC-01-F029	UT	N/A N/A	Aux Turbine Main Steam to Aux Feed, 4" Pipe to 4" Tee
83A1701	FC-01-F030	UT	N/A N/A	Aux Turbine Main Steam to Aux Feed, 4" Elbow to 4" Pipe
83A1701	FC-01-S022-C	UT	N/A N/A	Aux Turbine Main Steam to Aux Feed, 4" Tee to 4" Pipe
83A1701	FC-01-S022-E	UT	N/A N/A	Aux Turbine Main Steam to Aux Feed, 4" Pipe to 4" Elbow

**EXAMINATION  
ISI SURFACE EXAMS**

**MAIN STEAM (AB)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1697	AB-01-AT-TOR-RES-2	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Half Coupling to Torsional Restraint
83A1697	AB-01-FW326	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Elbow to Pipe
83A1697	AB-01-FW327	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Elbow to Pipe
83A1697	AB-01-FW342	PT	N/A N/A	Main Steam Loop 4 adjacent to MSIV Bypass, 2" Pipe to 2" Cap
83A1697	AB-01-FW343	PT	N/A N/A	Main Steam Loop 4 adjacent to MSIV Bypass, 2" Half Coupling to 2" Pipe
83A1697	AB-01-FW344	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Pipe to 2" Half Coupling
83A1697	AB-01-FW345	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Elbow to 2" Pipe
83A1697	AB-01-FW346	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Half Coupling to 28" Header
83A1697	AB-01-FW704	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-FW707	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, Valve V215 to 2" Pipe
83A1697	AB-01-FW708	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Pipe to Valve V215
83A1697	AB-01-FW709	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, Valve HV1 to 2" Pipe
83A1697	AB-01-FW744	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Half Coupling
83A1697	AB-01-FW748	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-FW751	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, Valve V219 to 2" Pipe
83A1697	AB-01-FW752	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to Valve V219
83A1697	AB-01-FW753	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, Valve HV18 to 2" Pipe
83A1697	AB-01-FW754	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to Valve HV18



EXAMINATION  
ISI SURFACE EXAMS

## MAIN STEAM (AB) Continued

ISI PLAN	COMPONENT ID	TYPE EXAM	CODE CAT & SECTION	COMPONENT DESCRIPTION
83A1697	AB-01-FW755	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, Valve V220 to 2" Pipe
83A1697	AB-01-FW756	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to Valve V229
83A1697	AB-01-FW759	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Elbow to 2" Pipe
83A1697	AB-01-FW765	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Half Coupling to 2" Pipe
83A1697	AB-01-S018-N	PT	N/A N/A	Main Steam Loop 2 MSIV Byprss, 2" Half Coupling to 28" Header
83A1697	AB-01-S046-M	PT	C-F C5.21	Main Steam Loop 4 Drip Leg Drain, 12" Outlet on Header to 12" Pipe
83A1697	AB-01-S046-V	PT	N/A N/A	Main Steam Loop 4 adjacent to MSIV Bypass 2" Half Coupling to 28" Header
83A1697	AB-01-W702	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-W703	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Elbow to 2" Pipe
83A1697	AB-01-W705	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Elbow to 2" Pipe
83A1697	AB-01-W706	PT	N/A N/A	Main Steam Loop 4 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-W745	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Elbow to 2" Pipe
83A1697	AB-01-W746	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-W749	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Elbow to 2" Pipe
83A1697	AB-01-W750	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-W758	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-W760	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-W761	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Elbow
83A1697	AB-01-W762	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Elbow

EXAMINATION  
ISI SURFACE EXAMS

MAIN STEAM (AB) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1697	AE-1-53	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Elbow to 2" Pipe
83A1697	AE-01-	PT	N/A N/A	Main Steam Loop 2 MSIV Bypass, 2" Pipe to 2" Elbow

REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BE-01-F003	PT	B-J B9.11	Reactor Coolant Pressurizer Surge Line, 14" Elbow to 14" Bent Pipe (S003)
83A1700	BE-01-F201	PT	B-J B9.11	Reactor Coolant Loop 2 Cold Leg, 27.5" RCP "B" Outlet to 27.5" ID Pipe
83A1700	BE-01-F204	PT	B-J B9.11	Reactor Coolant Loop 2 Hot Leg, 29" X 31" Elbow to Steam Generator B Inlet Nozzle
83A1700	BE-01-F205	PT	B-J B9.11	Reactor Coolant Loop 2 Crossover Leg, Steam Generator "P" Outlet Nozzle to 31" Elbow
83A1700	BE-01-F301	PT	B-J B9.11	Reactor Coolant Loop 3 Cold Leg, RCP "C" Outlet to 27.5" ID Pipe
83A1700	BE-01-F304	PT	B-J B9.11	Reactor Coolant Loop 3 RCS Hot Leg, 29" X 31" Elbow to Steam Generator "C" Inlet Nozzle
83A1700	BE-01-F401	PT	B-J B9.11	Reactor Coolant Loop 4 Cold Leg, RCP "D" Outlet to 27.5" ID Pipe
83A1700	BE-01-F404	PT	B-J B9.11	Reactor Coolant Loop 4 RCS Hot Leg, 29" X 31" Elbow to Steam Generator "D" Inlet Nozzle
83A1700	BE-01-S003-2	PT	B-J B9.11	Reactor Coolant Pressurizer Surge Line, 14" Bent Pipe (S003) to 14" Elbow
83A1700	BE-01-S301-6	PT	B-J B9.31	Reactor Coolant Loop 3 Cold Leg, 10" Nozzle to 27.5" ID Pipe
83A1700	BE-04-FW302	PT	B-J B9.11	Reactor Coolant Pressurizer Spray Line, 4" Elbow to 4" Pipe

EXAMINATION  
ISI SURFACE EXAMS

## REACTOR COOLANT (BB) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-04-S009-D	PT	B-J B9.11	Reactor Coolant Cold Loop 1 Spray Line, 4" Elbow to 4" Pipe
83A1700	BB-07-FW 08	PT	B-J B9.21	Reactor Coolant Loop 4 Seal Injection Line, 2" Elbow to 2" Pipe
83A1700	BB-09-W573	PT	B-J B9.21	Reactor Coolant Loop 3 Seal Injection 2" x 2" x 3/4" Reducing Tee to 2" Pipe
83A1700	BB-11-W559	PT	B-J B9.21	Reactor Coolant Loop 2 Seal Injection 1.5" 45 Degree Elbow to 1.5" Pipe
83A1700	PBB01B-FLYWHEEL	PT/MT	N/A N/A	Reactor Coolant Pump (RCP) "B" Flywheel for RCP Motor, Serial Number 2587P405

## RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-02-C002	PT	C-C C3.20	RHR Pump "B" Suction Line, Integral Attachments (8 Welded Lugs)
83A1699	EJ-02-C004	PT	C-C C3.20	RHR Heat Exchanger "B" Outlet Line, Integral Attachments (4 Welded Lugs)
83A1699	EJ-02-C006	PT	C-C C3.20	RHR PUMP "B" Suction Line, Integral Attachments (6 Welded Lugs)
83A1699	EJ-02-C008	PT	C-C C3.20	RHR Heat Exchanger "B" Outlet Line, Integral Attachments (8 Lugs)
83A1699	EJ-02-C009	PT	C-C C3.20	RHR Heat Exchanger "B" Outlet Line, Integral Attachments (8 Welded Lugs)
83A1699	EJ-02-C018	PT	C-C C3.20	RHR Heat Exchanger "B" Bypass Line, Integral Attachments (8 Welded Lugs)
83A1699	EJ-02-C020	PT	C-C C3.20	RHR Heat Exchanger "B" Outlet Line, Integral Attachments (8 Welded Lugs)

**EXAMINATION  
ISI SURFACE EXAMS**

## RESIDUAL HEAT REMOVAL (EJ) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECT/G:</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-02-C022	PT	C-C C3.20	RHR Heat Exchanger "B" Inlet Line, Integral Attachments (8 Welded Lugs)
83A1699	EJ-02-F014	PT	C-F C5.11	RHR Pump "B" to Heat Exchanger Inlet, 10" Pipe to Valve V8724B
83A1699	EJ-02-F014-LU	PT	C-F C5.12	RHR Pump "B" to Heat Exchanger Inlet, 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-F021	PT	C-F C5.11	RHR Pump "B" to Heat Exchanger Inlet, 10" Tee to 10" Pipe
83A1699	EJ-02-F021-LD	PT	C-F C5.12	RHR Pump "B" to Heat Exchanger Inlet, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-F022	PT	C-F C5.11	RHR Pump "B" to Heat Exchanger Inlet, 12" Pipe to RHR Heat Exchanger "B" Inlet
83A1699	EJ-02-F022-LU	PT	C-F C5.12	RHR Pump "B" to Heat Exchanger Inlet, 12" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-F025	PT	C-F C5.11	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 10" X 10" X 8" Tee to 8" Pipe
83A1699	EJ-02-F025-LD	PT	C-F C5.12	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-F027	PT	C-F C5.11	RHR Heat Exchanger "B" Outlet Line, Valve V8730B to 10" Pipe
83A1699	EJ-02-F027-LD	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-F038	PT	C-F C5.11	RHR Heat Exchanger "B" Outlet Line, 10" Elbow to 10" Pipe
83A1699	EJ-02-F038-LD	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-F038-LU	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Elbow Longitudinal Seam Upstream

**EXAMINATION  
ISI SURFACE EXAMS**

## RESIDUAL HEAT REMOVAL (EJ) Cont. e.

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-02-F053	PT	C-F C5.21	RHR Heat Exchanger "B" to Hot Leg Recirc Loop 2 & 3, 10" Elbow to 10" Pipe
83A1699	EJ-02-F053-LU	PT	C-F C5.22	RHR Heat Exchanger "B" to Hot Leg Recirc Loop 2 & 3 10" Elbow to 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-F054	PT	C-F C5.11	RWST to RHR Pump "B" 14" Pipe to Valve V8958B
83A1699	EJ-02-F054-LD	PT	C-F C5.12	RWST to RHR Pump "B" 14" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-H017	PT	C-C C3.20	RHR Heat Exchanger "B" Outlet Line, Integral Attachments (4 Welded Lugs)
83A1699	EJ-02-H022	PT	C-C C3.20	RHR Pump "B" to Heat Exchanger Inlet, Integral Attachments (8 Welded Lugs)
83A1699	EJ-02-R016	PT	C-C C3.20	RCS Loop 4 Hot Leg to Pump Suction, Integral Attachments (8 Welded Lugs)
83A1699	EJ-02-R020	PT	C-C C3.20	RHR Heat Exchanger "B" Bypass Line, Integral Attachments (8 Welded Lugs)
83A1699	EJ-02-R035	PT	C-C C3.20	RHR Heat Exchanger "B" Outlet Line, Integral Attachments (8 Welded Lugs)
83A1699	EJ-02-S001-G	PT	C-F C5.11	RCS Loop 4 Hot Leg to Pump Suction, 12" Elbow to 12" Pipe
83A1699	EJ-02-S001-G-LD	PT	C-F C5.12	RCS Loop 4 Hot Leg to Pump Suction, 12" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-S001-G-LU	PT	C-F C5.12	RCS Loop 4 Hot Leg to Pump Suction, 12" Elbow Longitudinal Seam Upstream
83A1699	EJ-02-S008-B	PT	C-F C5.11	RHR Pump "B" Suction Line, 14" Elbow to 14" Pipe
83A1699	EJ-02-S008-B-LD	PT	C-F C5.12	RHR Pump "B" Suction Line, 14" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-S008-B-LU	PT	C-F C5.12	RHR Pump "B" Suction Line, 14" Elbow Longitudinal Seam Upstream

**EXAMINATION  
ISI SURFACE EXAMS**

## RESIDUAL HEAT REMOVAL (RJR) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-02-S010-D	PT	C-F C5.11	RHR Pump "B" Suction Line, 14" Elbow to 14" Flange
83A1699	EJ-02-S010-D-LU	PT	C-F C5.12	RHR Pump "B" Suction Line, 14" Elbow Longitudinal Seam Upstream
83A1699	EJ-02-S016-M	PT	C-F C5.11	RHR Heat Exchanger "B" Bypass Line, 10" X 8" Reducer to 8" Pipe
83A1699	EJ-02-S016-M-LD	PT	C-F C5.12	RHR Heat Exchanger "B" Bypass Line, 8" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-S016-M-LU	PT	C-F C5.12	RHR Heat Exchanger "B" Bypass Line, 10" X 8" Reducer Longitudinal Seam Upstream
83A1699	EJ-02-S017-C	PT	C-F C5.11	RHR Heat Exchanger "B" Bypass Line, 8" Elbow to 8" Pipe
83A1699	EJ-02-S017-C-LD	PT	C-F C5.12	RHR Heat Exchanger "B" Bypass Line, 8" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-S017-C-LU	PT	C-F C5.12	RHR Heat Exchanger "B" Bypass Line, 8" Elbow Longitudinal Seam Upstream
83A1699	EJ-02-S020-K	PT	C-F C5.11	RHR Heat Exchanger "B" Outlet Line, 10" Pipe to 10" X 10" X 8" Tee
83A1699	EJ-02-S020-K-LD	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" X 10" X 8" Tee Longitudinal Seam Downstream
83A1699	EJ-02-S020-K-LU	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-S021-F	PT	C-F C5.11	RHR Heat Exchanger "B" Outlet Line, 10" Elbow to 10" Pipe
83A1699	EJ-02-S021-F-LD	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Pipe Longitudinal Seam Downstream
83A1699	EJ-02-S021-F-LU	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Elbow Longitudinal Seam Upstream

EXAMINATION  
ISI SURFACE EXAMS

## RESIDUAL HEAT REMOVAL (EJ) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-02-S022-B	PT	C-F C5.11	RHR Heat Exchanger "B" Outlet Line, 10" Pipe to 10" X 10" X 8" Tee
83A1699	EJ-02-S022-B-LD	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" X 10" X 8" Tee Longitudinal Seam Downstream
83A1699	EJ-02-S022-B-LU	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-02-S027-C	PT	C-F C5.11	RHR Heat Exchanger "B" Outlet Line, 10" Pipe to 10" Elbow
83A1699	EJ-02-S027-C-LD	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Elbow Longitudinal Seam Downstream
83A1699	EJ-02-S027-C-LU	PT	C-F C5.12	RHR Heat Exchanger "B" Outlet Line, 10" Pipe Longitudinal Seam Upstream
83A1699	EJ-03-A003	PT	C-C C3.20	RHR Heat Exchanger "B" to Safety Injection Pump Suction, Integral Attachment (Welded Plate)
83A1699	EJ-03-FW304	PT	C-F C5.11	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Pipe to 8" Elbow
83A1699	EJ-03-FW304-LD	PT	C-F C5.12	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Elbow Longitudinal Seam Downstream
83A1699	EJ-03-FW304-LU	PT	C-F C5.12	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Pipe Longitudinal Seam Upstream
83A1699	EJ-03-R006	PT	C-C C3.20	RHR Heat Exchanger "B" to Safety Injection Pump Suction, Integral Attachment (8 Welded Lugs)
83A1699	EJ-03-S003-C	PT	C-F C5.11	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Pipe to 8" Elbow
83A1699	EJ-03-S003-C-LD	PT	C-F C5.12	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Elbow Longitudinal Seam Downstream
83A1699	EJ-03-S003-C-LU	PT	C-F C5.12	RHR Heat Exchanger "B" to Safety Injection Pump Suction 8" Pipe Longitudinal Seam Upstream

**EXAMINATION  
ISI SURFACE EXAMS**

## RESIDUAL HEAT REMOVAL (EJ) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1699	EJ-03-S003-F	PT	C-F C5.11	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Elbow to 8" Pipe
83A1699	EJ-03-S003-F-LD	PT	C-F C5.12	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Pipe Longitudinal Seam Downstream
83A1699	EJ-03-S003-F-LU	PT	C-F C5.12	RHR Heat Exchanger "B" to Safety Injection Pump Suction, 8" Elbow Longitudinal Seam Upstream

## SAFETY INJECTION (EM)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-01-S022-L	PT	N/A N/A	RHR Heat Exchanger Outlet to Safety Injection Pumps, 6" Elbow to 6" Pipe
83A1695	EM-01-S022-L-LD	PT	N/A N/A	RHR Heat Exchanger Outlet to Safety Injection Pumps, 6" Pipe Longitudinal Seam Downstream
83A1695	EM-01-S022-L-LU	PT	N/A N/A	RHR Heat Exchanger Outlet to Safety Injection Pumps, 6" Elbow Longitudinal Seam Upstream
83A1695	EM-01-S029-E	PT	N/A N/A	RHR Heat Exchanger Outlet to Safety Injection Pumps, 6" Pipe to 6" Elbow
83A1695	EM-01-S029-E-LD	PT	N/A N/A	RHR Heat Exchanger Outlet to Safety Injection Pumps, 6" Elbow Longitudinal Seam Downstream
83A1695	EM-01-S029-E-LU	PT	N/A N/A	RHR Heat Exchanger Outlet to Safety Injection Pumps, 6" Pipe Longitudinal Seam Upstream
83A1695	EM-02-S008-L	PT	C-F C5.21	Boron Injection Tank Inlet Line, 6" Tee to 6" Pipe
83A1695	TEM01-1-W	PT	C-B C2.21	Boron Injection Tank Weld Outlet Nozzle to Top Head



EXAMINATION  
ISI SURFACE EXAMS

## ACCUMULATOR SAFETY INJECTION (EP)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1694	EP-01-S011-J	PT	B-J B9.32	Accumulator Safety Injection to RCS Loop 4 Cold Leg 2" Sockolet to 6" pipe

## LIQUID RADWASTE (HB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	HB-24-W512	PT	B-J B9.21	Liquid Radwaste Loop 2 Radwaste Connector, 2" Elbow to 2" Pipe

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

**REACTOR COOLANT (BB)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	BB-07-FL1-b	VT-1	BG2 B7.50	Reactor Coolant, 1 1/2" Flange in the "D" Reactor Coolant Pump Seal Injection Inlet
83A1708	EBB01A-2-A-(1-16)b	VT-1	BG2 B7.30	Steam Generator "A" Primary Manway Bolting
83A1708	EBB01A-2-B-(1-16)b	VT-1	BG2 B7.30	Steam Generator "A" Primary Manway Bolting

**CHEMICAL AND VOLUME CONTROL (BG)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1698	BG-22-LCV459-b	VT-1	BG2 B7.70	CVCS, Valve LCV459 Bolting on the Letdown Line to the Regenerative Heat Exchanger
83A1698	BG-22-LCV460-b	VT-1	BG2 B7.70	CVCS, Valve LCV460 Bolting on the Letdown Line to the Regenerative Heat Exchanger
83A1698	BG-22-BB-8085-b	VT-1	BG2 B7.70	CVCS, Valve BB8085 Bolting on the Letdown Line to the Regenerative Heat Exchanger

**RESIDUAL HEAT REMOVAL (EJ)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EJ-04-8841B-b	VT-1	BG2 B7.70	Residual Heat Removal, Valve 8841B Bolting on the "A" or "B" Train to RCS Hot Leg Recirc Loop 3

**SAFETY INJECTION (EM)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1695	EM-03-FE-926-FL-b	VT-1	BG2 B7.50	Safety Injection, Flange FE-926 Bolting on Boron Injection Tank (BIT) Injection Line to RCS Loop 3 Cold Leg

EXAMINATION  
ISI VISUAL EXAMS  
(VT-3)

## AUXILIARY FEEDWATER (AL)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1702	AL-03-A001	VT-3	DA D1.20	Auxiliary Feedwater, Integral Attachments on PAL01b Discharge Line
83A1702	AL-03-C005	VT-3	DA D1.20	Auxiliary Feedwater, Integral Attachments on PAL01B Discharge Line
83A1702	AL-04-H007	VT-3	DA D1.20	Auxiliary Feedwater, Integral Attachments on PAL02 Discharge Line
83A1702	PAL01A-SUP-1	VT-3	FA F1.30	Auxiliary Feedwater, Pump Support of "A" Motor Driven Auxiliary Feedwater Pump
83A1702	PAL01A-SUP-2	VT-3	FA F1.30	Auxiliary Feedwater, Pump Support of "A" Motor Driven Auxiliary Feedwater Pump
83A1702	PAL02-SUP-1	VT-3	FA F1.30	Auxiliary Feedwater, Pump Support of Turbine Driven Auxiliary Feedwater Pump
83A1702	PAL02-SUP-2	VT-3	FA F1.30	Auxiliary Feedwater, Pump Support of Turbine Driven Auxiliary Feedwater Pump

## REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BB04-R021-261	VT-3	FC N/A	Reactor Coolant, Sway Strut on the Pressurizer Spray Common Header
83A1715	BB08-A001-231	VT-3	FB N/A	Reactor Coolant, Anchor on "A" Reactor Coolant Pump Seal Injection Line
83A1715	BB08-C503-231	VT-3	FC N/A	I-Beam with Strap on "A" Reactor Coolant Pump Seal Injection Line between V118 and V120
83A1708	EBB01A-02 231	VT-3	FB F2.30	Steam Generator "A" Lower Column Support
83A1708	EBB01A-06 231	VT-3	FB F2.40	Steam Generator "A" Lower Lateral Support
83A1708	EBB01A-07 231	VT-3	FB F2.40	Steam Generator "A" Lower Lateral Support

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

**REACTOR COOLANT (BB) Continued**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1700	PBB01A-SUP-2	VT-3	FB F2.30	Reactor Coolant, Reactor Coolant Pump "A" Tie Rod Support
83A1700	PBB01A-SUP-2A	VT-3	FB F2.30	Reactor Coolant, Reactor Coolant Pump "A" Column Support
83A1700	RBB01-02 231	VT-3	FB F2.40	Reactor Coolant, Reactor Vessel Pad Support
83A1700	RBB01-03 231	VT-3	FB F2.40	Reactor Coolant, Reactor Vessel Pad Support

**CHEMICAL AND VOLUME CONTROL (BG)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BG01-C516-132	VT-3	FC N/A	CVCS, Angle Iron with Strap on the Line between the Volume Control Tank and Valve V85 (VCT Level Transmitter Line)
83A1715	BG02-C006-121	VT-3	FB N/A	CVCS, Box Hanger on Charging Pump "B" Discharge, between Valve 8483C and Line 158
83A1715	BG02-R019-112	VT-3	FC N/A	CVCS, Snubber on Line between the Charging Pump "A" Discharge and Valve V8485A
83A1715	BG03-C014-121	VT-3	FC N/A	CVCS, 2 Sway Struts on the Line between the Letdown Heat Exchanger and Valve BG-PRV8119
83A1715	BG03-R012-113	VT-3	FC N/A	CVCS, 2 Snubbers on the Line between the Letdown Heat Exchanger and Valve PCV131
83A1715	BG04-H001-123	VT-3	FB N/A	CVCS, Box Hanger on the Demineralizer Bypass Line, between Valve BGTCV129 and the Reactor Coolant Filter
83A1715	BG04-R001-113	VT-3	FB N/A	CVCS, Box Hanger on the Demineralizer Bypass Line, between Valve BGTCV129 and the Reactor Coolant Filter
83A1715	BG04-R006-132	VT-3	FC N/A	CVCS, 2 Sway Struts on the Line between Valve BGLCV112A and Valve V8417 (Letdown to the Volume Control Tank)

**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 &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BG05-R017-132	VT-3	FC N/A	CVCS, 2 Snubbers on the Line between Valve V8470 and the Volume Control Tank (Seal Water and Excess Letdown Return to Volume Control Tank)
83A1715	BG09-R516-133	VT-3	FC N/A	CVCS, I-Beam with Plate and Loose Clamp on the "C" Seal Injection Line Downstream of BB-HV8351C
83A1715	BG11-A001-123	VT-3	FB N/A	CVCS, Anchor on the Line between Letdown Reheat Heat Exchanger to Letdown Heat Exchanger
83A1715	BG11-C014-111	VT-3	FB N/A	CVCS, Wrapper Plate Mounted on a Stanchion with a Sliding Base on the line from Letdown Reheat Heat Exchanger to Valve BGTCV381A
83A1715	BG16-A004-122	VT-3	FB N/A	CVCS, Anchor on Boric Acid Transfer Pump Discharge Line
83A1715	BG16-R002-132	VT-3	FB N/A	CVCS, Box Hanger on Boric Acid Tank Overflow Line to LF System
83A1715	BG17-H503-132	VT-3	FC N/A	CVCS, Tube Steel with Suspended, Sliding Clamp on the Boric Acid Transfer Pump Recirc Line between Valve BGV156 and Boric Acid Tank "A"
83A1715	BG24-C503-242	VT-3	FC N/A	CVCS, Tube Steel with Suspended, Sliding Clamp on Pressurizer Auxiliary Spray Line

**STEAM GENERATOR BLOWDOWN (BM)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BM17-R502-251	VT-3	FC N/A	Steam Generator Blowdown, Snubber on the Steam Generator "A" Shell Side Sample Cross Connect to the "A" Blowdown Line
83A1715	BM18-R504-242	VT-3	FC N/A	Steam Generator Blowdown, Sway Strut on the Steam Generator "B" Shell Side Sample Cross Connect to the "B" Blowdown Line

EXAMINATION  
ISI VISUAL EXAMS  
(VT-3)

## STEAM GENERATOR BLOWDOWN (BM) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BM19-C505-252	VT-3	FC N/A	Steam Generator Blowdown, Snubber and Sway Strut on the Steam Generator C Shell Side Sample Cross Connect to the "C" Blowdown Line
83A1715	BM19-R512-242	VT-3	FC N/A	Steam Generator Blowdown, I-Beam with Two Removable Straps on the "C" Shell Side Sample Cross Connect to the "C" Blowdown Line
83A1715	BM20-R504-241	VT-3	FC N/A	Steam Generator Blowdown, I-Beam with Two Removable Straps on the "D" Shell Side Sample Cross Connect to the "D" Blowdown Line

## REFUELING WATER STORAGE (BN)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BN01-C011-123	VT-3	FB N/A	Refueling Water Box Hanger on the RWST (Refueling Water Storage Tank) to Fuel Pool Cleanup Pumps Line

## ESSENTIAL SERVICE WATER (EF)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1707	EF-02-A007	VT-3	DB D2.20	Essential Service Water, Integral Attachments on "A" Train Header which feeds Turbine Driven Auxiliary Feedwater Pump, Penetration Room Cooler, "A" Air Compressor after Cooler, Auxiliary Feedwater Room Cooler, and Auxiliary Feedwater Pump Suction
83A1707	EF-02-C013	VT-3	DB D2.20	Essential Service Water, Integral Attachments on "A" Train Header which feeds Turbine Driven Auxiliary Feedwater Pump, Electrical Penetration Room Cooler, "A" Air Compressor after Cooler, Auxiliary Feedwater Room Cooler, and Auxiliary Feedwater Pump Suction

EXAMINATION  
ISI VISUAL EXAMS  
(VT-3)

## ESSENTIAL SERVICE WATER (EF) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>		<u>COMPONENT DESCRIPTION</u>
83A1707	EF-02-C014	VT-3	DB	D2.20	Essential Service Water, Integral Attachments on "A" Train Header which feeds Turbine Driven Auxiliary Feedwater Pump, Penetration Room Cooler, "A" Air Compressor after Cooler, Auxiliary Feedwater Room Cooler and Auxiliary Feedwater Pump Suction
83A1707	EF-02-C016	VT-3	DB	D2.20	Essential Service Water, Integral Attachments on "A" Train Header which feeds Turbine Driven Auxiliary Feedwater Pump, Penetration Room Cooler, "A" Air Compressor after Cooler, Auxiliary Feedwater Room Cooler, and Auxiliary Feedwater Pump Suction
83A1715	EF02-C026-122	VT-3	FB	N/A	Essential Service Water, Box Hanger on Line 37 from "A" Train Branch Header Line 36 to Valve EFV029 which feeds Centrifugal Charging Pump Room Cooler "A"
83A1715	EF03-A007-122	VT-3	FB	N/A	Essential Service Water, Anchor on the Return from "A" Safety Injection Pump Room Cooler Line
83A1707	EF-03-C004	VT-3	DB	D2.20	Essential Service Water, Integral Attachments on Line (80) which is Component Cooling Water Heat Exchanger "A" Return to the Ultimate Heat Sink between EFHV59 and Line 81 (30" Return Header)
83A1707	EF-03-H006	VT-3	DB	D2.20	Essential Service Water, Integral Attachments on the "A" Train ESW Return (Line 81) from Lines 73 and 80 (Described Above). Also Returns the Diesel Generator Coolers to the Ultimate Heat Sink. Line 81 ends at EFV108. Also feeds Line 82 (Service Water Return Header to the Lake)
83A1715	EF03-R004-124	VT-3	FC	N/A	Essential Service Water, Snubber on Line 71 which is the Return from "A" Train Containment Coolers between EFHV49 and Line 073
83A1715	EF04-A002-121	VT-3	FB	N/A	Essential Service Water, Anchor on Line 90 which is between Branch Header Line 117 and EFV65 which feeds Safety Injection Pump Room Cooler "B"
83A1715	EF05-R024-111	VT-3	FB	N/A	Essential Service Water, Partial Box Hanger on Return from Containment Spray Pump Room Cooler "B" Line

EXAMINATION  
ISI VISUAL EXAMS  
(VT-3)

## ESSENTIAL SERVICE WATER (EF) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EF05-R028-143	VT-3	FC N/A	Essential Service Water, Snubber on Line between SGL15B (Electrical Penetration Room Cooler "B") and Valve EFV84
83A1715	EF06-A003-134	VT-3	FB N/A	Essential Service Water, Anchor on Line 100 which is between Branch Header Line 99 and EFV71 which feeds "B" Train Control Room Air Conditioning Condenser
83A1715	EF05-A014-125	VT-3	FB N/A	Essential Service Water Anchor on "B" Train Line, which feeds Suction to Auxiliary Feedwater Turbine, also feeds Control Room A/C Condenser, Air Compressor "B" Aftercooler, Auxiliary Feedwater Pump Room Cooler and the Motor Driven Auxiliary Feedwater Pump
83A1715	EF14-R003-341	VT-3	FC N/A	Essential Service Water Snubber on Line 141, which is between Branch Header Line 74 and EFV54, which feeds "A" Train Control Room A/C Condenser
83A1707	FEF02A-SUPPORT-1	VT-3	DB D2.20 FA F1.30	Essential Service Water, Integral Attachment on "A" Train ESW Self Cleaning Strainer
83A1707	FEF02A-SUPPORT-2	VT-3	DB D2.20 FA F1.30	Essential Service Water, Integral Attachment on "A" Train ESW Self Cleaning Strainer
83A1707	K-EF11-R003	VT-3	FA F1.30	Essential Service Water, Box Hanger Pump Support on "A" ESW Pump

## COMPONENT COOLING WATER (EG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EG01-A001-142	VT-3	FB N/A	Component Cooling Water, Anchor on Line 11, which is between V35 at CCW HX Outlet and Common Header, also feeds Fuel Pool Cooling Heat Exchanger, RHR Heat Exchanger, Safety Injection Pump Oil Cooler, RHR Pump Seal Cooler, CCP Oil Cooler, and the SJ Sample 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 &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1706	EG-C2-C007	VT-3	DB D2.20	Component Cooling Water, Integral Attachments on Line 226 between ECHV11 and Line 178 which is Fuel Pool Cooling Heat Exchanger "A" Return to Component Cooling Water Pumps "A" and "C" Pump Suction Line
83A1706	EG-02-C012	VT-3	DB D2.20	Component Cooling Water, Integral Attachments on Line 226 between ECHV11 and Line 178 which is Fuel Pool Cooling Heat Exchanger "A" Return to Component Cooling Water Pumps "A" and "C" Pump Suction Line
83A1706	EG-04-A001	VT-3	DB D2.20	Component Cooling Water, Integral Attachments on Line 177 which is the Return Header from Containment, Auxiliary Building, and Radwaste Building Component Cooling Water Loads
83A1706	EG-04-R001	VT-3	DB D2.20	Component Cooling Water, Integral Attachments on "A" Train Line (313) which is between Line 11 and Line 49, which is the Component Cooling Water Heat Exchanger Outlet to the Common Header Feeding the Containment, Auxiliary, and Radwaste Building CCW Loads
83A1715	EG05-C003-143	VT-3	FC N/A	Component Cooling Water, 2 Sway Struts on Line 227 which is between ECHV12 (Fuel Pool Cooling Heat Exchanger Return) and the "B" and "D" CCW Pump Junction
83A1706	EG-06-A003	VT-3	DB D2.20	Component Cooling Water, Integral Attachments on Line 49 which is the "A" and "B" Train Common Header Feeding the Containment, Auxiliary, and Radwaste Buildings CCW Loads
83A1706	EG-06-C004	VT-3	DB D2.20	Component Cooling Water, Integral Attachments on Line 53 which is on the Radwaste Building Supply Header between Valves EGHV69A and EGHV70A
83A1706	EG-06-C010	VT-3	DB D2.20	Component Cooling Water, Integral Attachment on Line 101 which is on the Radwaste Building Loads and the Letdown Heat Exchanger Return Header

**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</u>	<u>GAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1706	EG-06-C016	VT-3	DB	D2.20	Component Cooling Water, Integral Attachment on Line 51 which is the Inlet Line to the Letdown Heat Exchanger between Line 50 (Radwaste Building Supply Header) to EGV71
83A1706	EG-06-C021	VT-3	DB	D2.20	Component Cooling Water, Integral Attachment on Line 52 which is the Outlet Line from the Letdown Heat Exchanger between EGV309 and Line 101 (Radwaste Building Return Header)
83A1706	EG-06-C023	VT-3	DB	D2.20	Component Cooling Water, Integral Attachment on Line 51 which is the Inlet Line to the Letdown Heat Exchanger between Line 50 (Radwaste Building Supply Header) to EGV71
83A1706	EG-07-A001	VT-3	DB	D2.20	Component Cooling Water, Integral Attachment on Line 102 which is between Line 49 (Common Header to RW, Auxiliary, and Reactor Loads) and EGV88 (Reactor Coolant Pump Loads) and Line 103 (Auxiliary Building Loads)
83A1706	EG-07-A002	VT-3	DB	D2.20	Component Cooling Water, Integral Attachment on Line 176 which is between EGHV69 at Penetration 75 (Reactor Coolant Pump and Auxiliary Building Loads Return Header) and Line 177 (Reactor, Auxiliary, and RW CCW Loads Return Header)
83A1715	EG07-A002-132	VT-3	Fb	N/A	Component Cooling Water, Anchor on Line 176 which is between EGHV60 at Penetration 75 (Reactor Coolant Pump and Auxiliary Building Loads Return Header) and Line 177 (Reactor, Auxiliary, and RW CCW Loads Return Header)
83A1706	EG-07-C002	VT-3	DB	D2.20	Component Cooling Water, Integral Attachments on Line 102 which is between Line 49 (Common Header to RW, Auxiliary and Reactor Loads) and EGV88 (Reactor Coolant Pump Loads) and Line 103 (Auxiliary Building Loads)

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 &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EG07-C026-132	VT-3	FB N/A	Component Cooling Water, Box Hanger on Line 109 which is between BGV251 (Positive Displacement Charging Pump Cooler) and Line 110 (Auxiliary Building CCW Loads Return Header)
83A1706	EG-6'-R002	VT-3	DB D2.20	Component Cooling Water, Integral Attachment on Line 103 which is between Line 102 Reactor and Auxiliary Building CCW Loads Supply Header) and the Auxiliary Building CCW Loads
83A1715	EG10-A001-241	VT-3	FB N/A	Component Cooling Water, Anchor on Line 241 which is the Supply Header to the Reactor Coolant Pump "D" CCW Loads and the Excess Letdown Heat Exchanger Inlet Supply
83A1715	EG10-A003-241	VT-3	FB N/A	Component Cooling Water, Anchor on the Reactor Coolant Pump "A" Upper Bearing Cooler Supply Line BB-122-HBC-4"
83A1715	EG11-A006-231	VT-3	FB N/A	Component Cooling Water, Anchor on the Reactor Coolant Pump "C" Seal Water Injection Return Line BB-166-HBC-3"
83A1715	EG11-R003-231	VT-3	FB N/A	Component Cooling Water, Partial Box Hanger on Reactor Coolant Pump "A and D" Thermal Barrier Cooling Coil Return
83A1715	EG15-A002-242	VT-3	FB N/A	Component Cooling Water, Anchor on Line 238 which is the Return for the Reactor Coolant Drain Tank Heat Exchanger and the "C" Reactor Coolant Pump CCW Loads
83A1715	EG17-A001-241	VT-3	FB N/A	Component Cooling Water, Anchor on Line 242 which is the Return for the Reactor Coolant Pump "D" CCW Loads and the Excess Letdown Heat Exchanger
83A1715	EG17-A007-231	VT-3	FB N/A	Component Cooling Water, Anchor on Line BB-206-CBC-3" which is the Return for the Reactor Coolant Pump "D" Thermal Barrier Cooler

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

**COMPONENT COOLING WATER (EG) Continued**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CGDE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EG18-C001-611	VT-3	FC N/A	Component Cooling Water, 2 Sway Struts on Line 224 which is between Line 11 ("A" CCW HX to "A" Train CCW Loads) and EGV200 (Inlet to "A" Fuel Pool Heat Exchanger)
83A1715	EG26-C503-112	VT-3	FC N/A	Component Cooling Water, I-Beam with Strap on the CCW Return from the Safety Injection Pump "A"

**RESIDUAL HEAT REMOVAL (EJ)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EJ01-R029-134	VT-3	FC N/A	Residual Heat Removal, Snubber on Line 17 (RHR Heat Exchanger Outlet to Valve HV8809A)
83A1715	EJ03-R006-131	VT-3	FC N/A	Residual Heat Removal, 2 Snubbers on Line 58 (RHR Heat Exchanger "B" to Safety Injection Pumps Suction)
83A1715	EJ04-A002-231	VT-3	FB N/A	Residual Heat Removal, Anchor on Line 20 which is between Line 19 (Loop 1 RHR Injection) and Valve EP8818B (Loop 2 RHR Injection)

**SAFETY INJECTION (EM)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EM01-A003-121	VT-3	FB N/A	Safety Injection, Stanchion (Anchor) on the RHR Heat Exchanger Line to the Safety Injection Pump Suction
83A1715	EM01-C006-121	VT-3	FB N/A	Safety Injection, Box Hanger on Safety Injection Pumps Discharge Crossconnect Line
83A1715	EM03-R016-232	VT-3	FC N/A	Safety Injection, Snubber on Line between BBV22 and Loop 2 RCS (Boron Injection Tank to Loop 2 Cold Leg)

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

**CONTAINMENT SPRAY (EN)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EN02-R004-121	VT-3	FC N/A	Containment Spray, Sway Strut on Containment Spray Pump "B" to Containment Isolation Valve ENHV12
83A1715	EN03-C023-261	VT-3	FB N/A	Containment Spray, Box Hanger on Spray Header "B"
83A1715	EN03-C104-262	VT-3	FB N/A	Containment Spray, Box Hanger on Spray Header "A"
83A1715	EN03-C123-261	VT-3	FB N/A	Containment Spray, Box Hanger on Spray Header "A"
83A1715	EN03-C148-262	VT-3	FB N/A	Containment Spray, Box Hanger on Spray Header "A"
83A1715	EN03-C160-261	VT-3	FB N/A	Containment Spray, Gusset Plate and Stanchion, with Sliding Base (Support) on Line 41 ("A" Train Spray Header between Valve ENV13 and 10" X 6" Reducer of Line 41)
83A1715	EN05-C003-281	VT-3	FB N/A	Containment Spray, Box Hanger on Line 43 ("B" Train Spray Header between Valve ENV17 and 10" X 6" Reducer on Line 43)

**ACCUMULATOR SAFETY INJECTION (EP)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EP01-H004-231	VT-3	FC N/A	Accumulator Safety Injection, Sway Strut on Line 12 which is between EP8956D and Loop 4 RCS (Cold Leg Accumulator Injection)

**AUXILIARY TURBINE (FC)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1701	FC-01-A001	VT-3	DB D2.20	Auxiliary Turbine, Integral Attachment on Auxiliary Feedwater Turbine Exhaust Line
83A1715	FC01-R005-135	VT-3	FC N/A	Auxiliary Turbine, Snubber on the Auxiliary Feedwater Turbine Exhaust Line

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

**CONTAINMENT COOLING (GN)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	GN01-C007-232	VT-3	FC N/A	Containment Cooling, Partial Box Hanger on Containment Coolers SGN01 "A" and "C" ESW Return Line
83A1703	GN-01-C017	VT-3	DB D2.20	Containment Cooling, Integral Attachment on the Containment Coolers SGN01 "A" and "C" ESW Return Line
83A1715	GN02-C010-242	VT-3	FB N/A	Containment Cooling, Box Hanger on Containment Cooler SGN01B ESW Supply Line
83A1715	GN02-R010-241	VT-3	FB N/A	Containment Cooling, Box Hanger on Containment Cooler SGN01D ESW Supply Line
83A1715	M-620-003-024-251	VT-3	FB N/A	Containment Cooling, Frame Support on the Containment Cooling Piping

**STANDBY DIESEL ENGINE (KJ)**

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1704	EKJ03A-SUP-1	VT-3	DB D2.20 FA F1.30	Emergency Diesel, Integral Attachment on the "A" Intercooler Heat Exchanger
83A1704	EKJ03A-SUP-2	VT-3	DB D2.20 FA F1.30	Emergency Diesel, Integral Attachment on the "A" Intercooler Heat Exchanger
83A1704	KJ-01-C015	VT-3	DB D2.20	Emergency Diesel, Integral Attachments on Diesel Generator "A" Exhaust to the Outside
83A1704	KJ-01-H003	VT-3	DB D2.20	Emergency Diesel, Integral Attachments on Diesel Generator "A" Exhaust to the Silencer
83A1704	KJ-01-R007	VT-3	DB D2.20	Emergency Diesel, Integral Attachments on Diesel Generator "A" Exhaust to the Silencer
83A1715	KJ01-R015-511	VT-3	FC N/A	Emergency Diesel, 2 Sway Struts on Diesel Generator "A" Combustion Intake Line

EXAMINATION  
ISI VISUAL EXAMS  
(VT-3)

## STANDBY DIESEL ENGINE (KJ) Continued

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	M-018-0667-010-511	VT-3	FB N/A	Emergency Diesel, Frame Support on the Diesel Generator Piping
83A1715	M-018-0667-042-511	VT-3	FB N/A	Emergency Diesel, Frame Support on the Diesel Generator Piping
83A1715	M-018-0667-103-511	VT-3	FB N/A	Emergency Diesel, Frame Support on the Diesel Generator Piping
83A1715	M-018-0667-110-511	VT-3	FB N/A	Emergency Diesel, Frame Support on the Diesel Generator Piping
83A1715	M-018-0674-009-511	VT-3	FB N/A	Emergency Diesel, Frame Support on the Diesel Generator Piping
83A1715	M-018-0674-110-511	VT-3	FB N/A	Emergency Diesel, Frame Support on the Diesel Generator Piping

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 &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	AE05-H004-241	VT-3 VT-4	FC N/A	Main Feedwater, Variable Support Loop 4 Feedwater Line

## REACTOR COOLANT (BB)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BB01-H001-231	VT-3 VT-4	FC N/A	Reactor Coolant, Variable Support on the Pressurizer Surge Line
83A1715	BB02-H001-261	VT-3 VT-4	FC N/A	Reactor Coolant, Constant Support on the Pressurizer Safety Line "B"
83A1715	BB04-H001-242	VT-3 VT-4	FC N/A	Reactor Coolant, Variable Support on the Pressurizer Spray Line from Loop 2 Cold Leg

## CHEMICAL AND VOLUME CONTROL (BG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	BG05-H004-132	VT-3 VT-4	FC N/A	CVCS, Variable Support on the line between Valve V8470 and the Volume Control Tank (Seal Water and Volume Control Tank) Seal Water and Excess Letdown Return to Volume Control Tank
83A1715	BG09-H519-112	VT-3 VT-4	FC N/A	CVCS, Variable Support on the Charging Pumps "A" and "B" Discharge Cross Connect Line to the Seal Injection Filters
83A1715	BG24-H002-261	VT-3 VT-4	FC N/A	CVCS, Constant Support on the Pressurizer Auxiliary Spray Line
83A1715	BG24-H003-261	VT-3 VT-4	FC N/A	CVCS, Constant Support on the Pressurizer Auxiliary Spray Line



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

## FUEL POOL COOLING &amp; CLEANUP (EC)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EC04-H001-611	VT-3 VT-4	FC N/A	Fuel Pool Cooling, Variable Support on the Spent Fuel Pool to the Suction of the Fuel Pool Cooling Pump "A" Line

## ESSENTIAL SERVICE WATER (EF)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EF03-H004-122	VT-3 VT-4	FC N/A	Essential Service Water, Variable Support on the "A" Train Line (73) which is the Return from Control Room A/C, Fuel Pool Cooling Room Cooler, Penetration Room Cooler, Air Compressor "A" Aftercooler, Auxiliary Feedwater Pump Room Cooler, Containment Coolers, and ESF Pump Room Coolers to the Ultimate Heat Sink
83A1715	EF05-H011-141	VT-3 VT-4	FC N/A	Essential Service Water, Variable Support on the Essential Service Water Return from "B" Component Cooling Water Heat Exchanger

## COMPONENT COOLING WATER (EG)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EG04-H006-131	VT-3 VT-4	FC N/A	Component Cooling Water, 2 Variable Supports on the Line between the RHR Heat Exchanger "B" and EJV38

## RESIDUAL HEAT REMOVAL (EJ)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EJ01-H001-112	VT-3 VT-4	FC N/A	Residual Heat Removal, 2 Spring Hangers on Line 3 (RHR Pump "A" Suction Line)
83A1715	EJ01-H014-134	VT-3 VT-4	FC N/A	Residual Heat Removal, Variable Spring Support on Line 17 (RHR Heat Exchanger Outlet to Valve HV8809A)

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 &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	EM01-H010-112	VT-3 VT-4	FC N/A	Safety Injection, 2 Spring Cans on the Line 23 which is between EMHV8924 and Line 22 (RHR Heat Exchanger "A" to Safety Injection Pump "A")

## CONTAINMENT HYDROGEN CONTROL (GS)

<u>ISI PLAN</u>	<u>COMPONENT ID</u>	<u>TYPE EXAM</u>	<u>CODE CAT &amp; SECTION</u>	<u>COMPONENT DESCRIPTION</u>
83A1715	GS01-H003-241	VT-3 VT-4	FC N/A	Containment Hydrogen Purge, Variable Spring Support on Line 25 which is the Containment Hydrogen Purge Line between GSHV20 and GSHV21

Note: This completes the Period 2 examinations.

## STEAM GENERATOR TUBE INSERVICE INSPECTION

The fourth Steam Generator Tube Inservice Inspection of steam generators was completed by Westinghouse Nuclear Energy Systems, Nuclear Services Division (WNSD) during Refueling Outage V. This inspection included Steam Generators "A" and "C". This was the second inservice inspection of the Steam Generator "A" and the third for Steam Generator "C".

During the steam generator eddy current inspection performed, a total of 2792 tubes were inspected. Of which, 1565 were in Steam Generator "A" and 1227 were in Steam Generator "C".

The results of the fourth inspection showed six tubes in Steam Generator "A" and seven tubes in Steam Generator "C" that had indications greater than or equal to 20 percent (degraded) and must be inspected during the next inspection of these steam generators.

Plug repair was performed in Steam Generators "A" and "C". A total of 10 plugs were removed from Steam Generator "A", (six in the hot leg and four in the cold leg). A total of eight plugs were removed from Steam Generator "C", four from each leg. The location of the plugs removed are as follows:

Steam Generator "A"			Steam Generator "C"		
<u>Row</u>	<u>Column</u>	<u>Leg</u>	<u>Row</u>	<u>Column</u>	<u>Leg</u>
51	78	H	14	17	H
51	76	C	14	17	C
28	61	H	28	56	H
28	61	C	28	56	C
28	65	H	28	76	H
28	65	C	28	76	C
28	103	H	54	40	H
28	103	C	54	40	C
17	11	H			
52	66	H			

Two tubes, originally preventively plugged (less than 40 percent), were put back in service after eddy current was performed and no additional tube degradation was found. Those tubes were Row 28 Column 76 and Row 28 Column 56 both in Steam Generator "C".

Tubes plugged (six) in Steam Generator "A" are those that had the plugs repaired (reference the above table); no new tubes were plugged. In Steam Generator "C", four tubes were plugged. Two of the tubes were a result of plug repair and two of the tubes are new, resulting from degradation greater than 40 percent through wall. The location of the new tubes that were plugged are Row 49 Column 84 and Row 49 Column 88.

With the completion of this outage, Steam Generator "A" has nine tubes plugged and Steam Generator "C" has seven tubes plugged.

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Wolf Creek Nuclear Operating Corporation  
P.O. Box 411, Burlington, Kansas 66839  
(Name and Address of Owner)
2. Plant Wolf Creek Generating Station  
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 09/0 6. National Board Number for Unit N/A
7. Components Inspected

Component or Appearance	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 05/12/90 to 01/16/92 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 April 10 19 92 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 05/12/90 to 01/16/92 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.

Dated APRIL 10 19 92  
[Signature] Commissioner NB#9752-N.I.B / KS#299  
Inspector's Signature National Board, State, Province and No.

\* Arkwright Mutual Insurance Company/Factory Mutual System

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NUMBER	NATIONAL BOARD NO.	YEAR BUILT
AB-01-AT-TOR-RES-2	Daniel International Corporation	N/A	N/A	N/A
AB-01-F026	Daniel International Corporation	N/A	N/A	N/A
AB-01-F027	Daniel International Corporation	N/A	N/A	N/A
AB-01-F028	Daniel International Corporation	N/A	N/A	N/A
AB-01-F029	Daniel International Corporation	N/A	N/A	N/A
AB-01-F030	Daniel International Corporation	N/A	N/A	N/A
AB-01-F031	Daniel International Corporation	N/A	N/A	N/A
AB-01-F032	Daniel International Corporation	N/A	N/A	N/A
AB-01-F033	Daniel International Corporation	N/A	N/A	N/A
AB-01-F035	Daniel International Corporation	N/A	N/A	N/A
AB-01-F037	Daniel International Corporation	N/A	N/A	N/A
AB-01-F038	Daniel International Corporation	N/A	N/A	N/A
AB-01-F039	Daniel International Corporation	N/A	N/A	N/A
AB-01-F075	Daniel International Corporation	N/A	N/A	N/A
AB-01-F076	Daniel International Corporation	N/A	N/A	N/A
AB-01-F077	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW320	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW321	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW322	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW323	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW327	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW342	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW343	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW344	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW345	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW346	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW704	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW707	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW708	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW709	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW744	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW748	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW751	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW752	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW753	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW754	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW755	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW756	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW759	Daniel International Corporation	N/A	N/A	N/A
AB-01-FW765	Daniel International Corporation	N/A	N/A	N/A
AB-01-S018-G	Dravo Corporation	15137	N/A	N/A
AB-01-S018-H	Dravo Corporation	15137	N/A	N/A
AB-01-S018-J	Dravo Corporation	15137	N/A	N/A
AB-01-S018-K	Dravo Corporation	15137	N/A	N/A
AB-01-S018-L	Dravo Corporation	15157	N/A	N/A

WELD COMPONENT ID	MANUFACTURER CR INSTALLER	SERIAL NUMBER	NATIONAL BOARD NO.	YEAR BUILT
AB-01-S018-N	Dravo Corporation	15137	N/A	N/A
AB-01-S018-S	Dravo Corporation	15137	N/A	N/A
AB-01-S018-W	Dravo Corporation	15137	N/A	N/A
AB-01-S020-B	Dravo Corporation	18072	N/A	N/A
AB-01-S020-C	Dravo Corporation	18072	N/A	N/A
AB-01-S021-C	Dravo Corporation	18073	N/A	N/A
AB-01-S021-D	Dravo Corporation	18073	N/A	N/A
AB-01-S023-D	Dravo Corporation	15138	N/A	N/A
AB-01-S023-E	Dravo Corporation	15138	N/A	N/A
AB-01-S046-M	Dravo Corporation	15153	N/A	N/A
AB-01-S046-S	Dravo Corporation	15153	N/A	N/A
AB-01-S046-V	Dravo Corporation	15153	N/A	N/A
AB-01-W702	Daniel International Corporation	N/A	N/A	N/A
AB-01-W703	Daniel International Corporation	N/A	N/A	N/A
AB-01-W705	Daniel International Corporation	N/A	N/A	N/A
AB-01-W706	Daniel International Corporation	N/A	N/A	N/A
AB-01-W745	Daniel International Corporation	N/A	N/A	N/A
AB-01-W746	Daniel International Corporation	N/A	N/A	N/A
AB-01-W749	Daniel International Corporation	N/A	N/A	N/A
AB-01-W750	Daniel International Corporation	N/A	N/A	N/A
AB-01-W758	Daniel International Corporation	N/A	N/A	N/A
AB-01-W760	Daniel International Corporation	N/A	N/A	N/A
AB-01-W761	Daniel International Corporation	N/A	N/A	N/A
AB-01-W762	Daniel International Corporation	N/A	N/A	N/A
AB-01-W763	Daniel International Corporation	N/A	N/A	N/A
AB-01-W764	Daniel International Corporation	N/A	N/A	N/A
AEC5-H004-241	ITT Grinnell	85402	N/A	1979
	ITT Grinnell	J5328	N/A	1982
AL 03-A001	Daniel International Corporation	N/A	N/A	N/A
AL-03-C005	Daniel International Corporation	N/A	N/A	N/A
AL-04-H007	Daniel International Corporation	N/A	N/A	N/A
PAL01A-SUP-1	Ingersoll-Rand Cameron Division	0576147	393	1976
PAL01A-SUP-2	Ingersoll-Rand Cameron Division	0576147	393	1978
PAL02-SUP-1	Ingersoll-Rand Cameron Division	0776190	401	1978
PAL02-SUP-2	Ingersoll-Rand Cameron Division	0776190	401	1978
BB-01-F003	Daniel International Corporation	N/A	N/A	N/A
BB-01-F103	Daniel International Corporation	N/A	N/A	N/A
BB-01-F201	Daniel International Corporation	N/A	N/A	N/A
BB-01-F204	Daniel International Corporation	N/A	N/A	N/A
BB-01-F205	Daniel International Corporation	N/A	N/A	N/A
BB-01-F301	Daniel International Corporation	N/A	N/A	N/A
BB-01-F304	Daniel International Corporation	N/A	N/A	N/A
BB-01-F401	Daniel International Corporation	N/A	N/A	N/A
BB-01-F403	Daniel International Corporation	N/A	N/A	N/A
BB-01-F404	Daniel International Corporation	N/A	N/A	N/A
BB01-H001-231	Bergen Parsons	1-BB01-H001/231	N/A	1980

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NUMBER	NATIONAL BOARD NO.	YEAR BUILT
BB-01-S003-2	Southwest Fabricating & Welding Company Inc	15597	366	1979
BB-01-S301-5	Southwest Fabricating & Welding Company Inc	15587	366	1978
BB02-H001-261	Bergen Paterson	A002536	N/A	1983
BB-04-FW302	Daniel International Corporation	N/A	N/A	N/A
BB04-H001-242	Bergen Paterson	1-BB04-H001/242	N/A	1980
BB04-R021-261	Bergen Paterson	1-BB01-R021/261	N/A	1980
BB-04-S009-D	Dravo Corporation	17944	N/A	1979
BBU7-FL1-b	Texas Bolt Company	STUD HT#NH58; NUT HT#NH77	N/A	N/A
BB-07-FW308	Daniel International Corporation	N/A	N/A	1982
BB08-A001-231	Corner & Lada Company Incorporated	1-BB08-A001/231	N/A	N/A
BB-09-W573	Daniel International Corporation	N/A	N/A	N/A
BB-11-W559	Daniel International Corporation	N/A	N/A	1979
EBB01A-02	Lamco Industries Incorporated	1469	N/A	1979
EBB01A-06	Lamco Industries Incorporated	1488	N/A	N/A
EBB01A-07	Lamco Industries Incorporated	1505	N/A	N/A
EBB01A-2-A(1-16)b	Westinghouse Electric Corporation	17-32	N/A	N/A
EBB01A-2-B(1-16)b	Westinghouse Electric Corporation	1-16	N/A	1979
PBB01A-SUP-2	Lamco Industries Incorporated	1363	N/A	1979
PBB01A-SUP-2A	Lamco Industries Incorporated	1454	N/A	1979
RBB01-02 231	Lamco Industries Incorporated	1451	N/A	1979
RBB01-03 231	Lamco Industries Incorporated	1450	N/A	N/A
BG01-C516-132	Daniel International Corporation	N/A	N/A	N/A
BG02-C006-121	Daniel International Corporation	N/A	N/A	1980
BG02-R019-112	Pacific Scientific	11770	N/A	1982
BG03-C014-121	Bergen Paterson	1-BG02-R019/112	N/A	1973
BG03-R012-113	ITT Grinnell	8020	N/A	1980
BG04-H001-123	Bergen Paterson	1-BG03-R012/113	N/A	1982
BG04-R001-113	Pacific Scientific	15012	N/A	1979
BG04-R006-132	Pacific Scientific	6527	N/A	N/A
BG05-H004-134	Daniel International Corporation	N/A	N/A	N/A
BG05-R017-132	Daniel International Corporation	N/A	N/A	N/A
BG09-H519-112	Corner & Lada Company Incorporated	N/A	N/A	1984
BG09-R515-133	Daniel International Corporation	D021245	N/A	1983
BG11-A001-123	Daniel International Corporation	M1933	N/A	1979
BG11-C014-111	ITT Grinnell	12119	N/A	1982
BG16-A004-122	ITT Grinnell	9422	N/A	1982
BG16-R002-132	Daniel International Corporation	1-BG09-H519/112	N/A	N/A
BG17-H503-132	ITT Grinnell	N/A	N/A	N/A
BG24-C503-242	ITT Grinnell	N/A	N/A	1980
BG24-H002-261	Bergen Paterson	C5614	N/A	1979
BG24-H003-261	Bergen Paterson	B8628	N/A	N/A
		N/A	N/A	1979
		B5186	N/A	1979
		A9422, B4819, and A6231	N/A	1980
		1-BG24-H002/261	N/A	1982
		A002193	N/A	



WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NUMBER	NATIONAL BOARD NO.	YEAR BUILT
BM-01-F001	Daniel International Corporation	N/A	N/A	N/A
BM-01-F007	Daniel International Corporation	N/A	N/A	N/A
BM-01-F008	Daniel International Corporation	N/A	N/A	N/A
BM-01-F009	Daniel International Corporation	N/A	N/A	N/A
BM-01-F010	Daniel International Corporation	N/A	N/A	N/A
BM-01-F011	Daniel International Corporation	N/A	N/A	N/A
BM-02-F018	Daniel International Corporation	N/A	N/A	N/A
BM-02-F019A	Daniel International Corporation	N/A	N/A	N/A
BM-02-F020	Daniel International Corporation	N/A	N/A	N/A
BM-02-F031	Daniel International Corporation	N/A	N/A	N/A
BM-02-F032	Daniel International Corporation	N/A	N/A	N/A
BM17-R502-251	Pacific Scientific	26103	N/A	1982
	Bergen Paterson	D013547	N/A	1982
BM18-R504-242	Bergen Paterson	1-BM18-R504-242	N/A	1980
BM19-C505-252	Bergen Paterson	1-BM19-C505-252	N/A	1982
	Pacific Scientific	26319	N/A	1983
BM19-R512-242	Daniel International Corporation	N/A	N/A	N/A
BM20-R504-241	Daniel International Corporation	N/A	N/A	N/A
BN01-C011-123	Daniel International Corporation	N/A	N/A	N/A
EC04-H001-611	Bergen Paterson	1-EC04-H001/611	N/A	N/A
EF-02-A007	Daniel International Corporation	N/A	N/A	N/A
EF-02-C013	Daniel International Corporation	N/A	N/A	N/A
EF-02-C014	Daniel International Corporation	N/A	N/A	N/A
EF-02-C016	Daniel International Corporation	N/A	N/A	N/A
EF02-C026-122	Daniel International Corporation	N/A	N/A	N/A
EF03-A007-122	Daniel International Corporation	N/A	N/A	N/A
EF-03-C004	Daniel International Corporation	N/A	N/A	N/A
EF03-H004-122	Bergen Paterson	1-SF03-H004/122	N/A	N/A
EF-03-H006	Daniel International Corporation	N/A	N/A	N/A
EF03-R004-124	Bergen Paterson	1-EF03-R004/124	N/A	N/A
EF04-A002-121	Daniel International Corporation	N/A	N/A	N/A
EF05-H011-141	Bergen Paterson	1-EF05-H011/141	N/A	1982
EF05-R024-111	Daniel International Corporation	N/A	N/A	N/A
EF05-R028-143	Pacific Scientific	14859	N/A	1983
EF06-A003-134	Daniel International Corporation	N/A	N/A	N/A
F06-A014-125	Daniel International Corporation	N/A	N/A	N/A
EF14-R003-341	Bergen Paterson	1-EF14-R003/341	N/A	1981
FEF02A-SUP-1	Pacific Scientific	12542	N/A	1980
FEF02A-SUP-2	R. P. Adams Company, Inc.	151356	28538	1980
EG01-A001-142	R. P. Adams Company, Inc.	151356	28558	1980
EG-02-C007	Bergen Paterson	1-EG01-A001/142	N/A	1980
EG-02-C012	Daniel International Corporation	N/A	N/A	N/A
EG-04-A001	Daniel International Corporation	N/A	N/A	N/A
EG04-H006-131	Bergen Paterson	1-EG04-H006/131	N/A	1982
EG-04-R001	Daniel International Corporation	N/A	N/A	N/A

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NUMBER	NATIONAL BOARD NO.	YEAR BUILT
EG05-C003-143	Bergen Paterson	1-EG05-C003/143	N/A	1979
EG-06-A003	Daniel International Corporation	N/A	N/A	N/A
EG-06-C004	Daniel International Corporation	N/A	N/A	N/A
EG-06-C010	Daniel International Corporation	N/A	N/A	N/A
EG-06-C016	Daniel International Corporation	N/A	N/A	N/A
EG-06-C021	Daniel International Corporation	N/A	N/A	N/A
EG-06-C023	Daniel International Corporation	N/A	N/A	N/A
EG-07-A001	Daniel International Corporation	N/A	N/A	N/A
EG-07-A002	Daniel International Corporation	N/A	N/A	N/A
EG07-A002-132	Daniel International Corporation	N/A	N/A	N/A
EG-07-C002	Daniel International Corporation	N/A	N/A	N/A
EG07-C026-132	Daniel International Corporation	N/A	N/A	N/A
EG-07-R002	Daniel International Corporation	N/A	N/A	N/A
EG10-A001-241	Corner & Lada Company Incorporated	1-EG10-A001/241	N/A	1982
EG10-A003-241	Daniel International Corporation	N/A	N/A	N/A
EG11-A006-242	Corner & Lada Company Incorporated	1-EG11-A006/241	N/A	1982
EG11-R003-231	Daniel International Corporation	N/A	N/A	N/A
EG15-A002-242	Bergen Paterson	1-EG15-A002/242	N/A	1980
EG17-A001-241	Bergen Paterson	1-EG17-A001/241	N/A	1980
EG17-A007-241	Corner & Lada Company Incorporated	1-EG17-A007/241	N/A	1982
EG18-C001-611	Bergen Paterson	1-EG18-C001/611	N/A	1979
EG26-C503-112	Daniel International Corporation	N/A	N/A	N/A
EJ01-H001-112	Bergen Paterson	1-EJ01-H001/112	N/A	1978
EJ01-H014-134	Bergen Paterson	1-EJ01-H014/134	N/A	1982
EJ01-R029-134	Pacific Scientific	14888	N/A	1983
	Bergen Paterson	D011847	N/A	1982
	Bergen Paterson	1-EJ01-R029/134	N/A	1982
EJ-02-C002	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C004	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C006	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C008	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C009	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C018	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C020	Daniel International Corporation	N/A	N/A	N/A
EJ-02-C022	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F014 & LU	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F021 & LD	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F022 & LU	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F025 & LD	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F027 & LD	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F038 & LD & LU	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F053 & LU	Daniel International Corporation	N/A	N/A	N/A
EJ-02-F054 & LD	Daniel International Corporation	N/A	N/A	N/A
EJ-02-H017	Daniel International Corporation	N/A	N/A	N/A
EJ-02-H022	Daniel International Corporation	N/A	N/A	N/A

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NUMBER	NATIONAL BOARD NO.	YEAR BUILT
EJ-02-R016	Daniel International Corporation	N/A	N/A	N/A
EJ-02-R020	Daniel International Corporation	N/A	N/A	N/A
EJ-02-R035	Daniel International Corporation	N/A	N/A	N/A
EJ-02-S001-G & LD & LU	Dravo Corporation	13573	N/A	1978
EJ-02-S008-B & LD & LU	Dravo Corporation	13580	N/A	1978
EJ-02-S010-D & LU	Dravo Corporation	13582	N/A	1979
EJ-02-S016-M & LD & LU	Dravo Corporation	13588	N/A	1978
EJ-02-S017-C & LD & LU	Dravo Corporation	13589	N/A	1978
EJ-02-S020-K & LD & LU	Dravo Corporation	13592	N/A	1978
EJ-02-S021-F & LD & LU	Dravo Corporation	13593	N/A	1978
EJ-02-S022-B & LD & LU	Dravo Corporation	13594	N/A	1978
EJ-02-S027-C & LD & LU	Dravo Corporation	13599	N/A	1978
EJ-03-A003	Daniel International Corporation	N/A	N/A	N/A
EJ-03-FW304 & LD & LU	Daniel International Corporation	N/A	N/A	N/A
EJ-03-R006	Daniel International Corporation	N/A	N/A	N/A
EJ-03-S003-C & LD & LU	Dravo Corporation	13622	N/A	1978
EJ-03-S003-F & LD & LU	Dravo Corporation	13622	N/A	1978
EJ03-R006-131	Bergen Paterson	1-EJ03-R006/131	N/A	1979
	Pacific Scientific	7577	N/A	1979
	Pacific Scientific	7582	N/A	1979
EJ04-8841B-b	Westinghouse Electric Corporation	06001CS990000D000W750014	W17568	1978
EJ04-A002-231	Bergen Paterson	1-EJ04-A002/231	N/A	1982
EKJ03A-SUP-1	American-Standard (Heat Transfer Division)	77A20004-08	13161	1979
EKJ03A-SUP-2	American-Standard (Heat Transfer Division)	77A20004-08	13161	1979
EM-01-S022-L & LD & LU	Dravo Corporation	13661	N/A	1978
EM-01-S029-E & LD & LU	Dravo Corporation	13668	N/A	1978
EM01-A003-121	Daniel International Corporation	N/A	N/A	N/A
EM01-C006-121	Daniel International Corporation	N/A	N/A	N/A
EM01-H010-112	ITT Grinnell	B4640	N/A	1979
EM-02-S028-L	Dravo Corporation	13697	N/A	1978
EM03-FE926-FL-b	Daniel International Corporation	N/A	N/A	N/A
EM03-R016-232	Pacific Scientific	20280	N/A	1982
TEM01-1-W	Southwest Fabricating & Welding Company, Inc.	0047	366	1977
TEM01-SEAM-3-W	Southwest Fabricating & Welding Company, Inc.	0047	366	1977
EN02-R004-121	ITT Grinnell	K4470	N/A	1982
EN03-C023-261	Daniel International Corporation	N/A	N/A	N/A
EN03-C104-262	Daniel International Corporation	N/A	N/A	N/A
EN03-C123-261	Daniel International Corporation	N/A	N/A	N/A
EN03-C148-262	Daniel International Corporation	N/A	N/A	N/A
EN03-C160-261	Corner & Lada Company Incorporated	1-EN03-C160/261	N/A	1982
EN05-C003-281	Daniel International Corporation	N/A	N/A	N/A
EP01-H004-231	Bergen Paterson	1-EP01-H004/231	N/A	1980
EP-01-S011-J	Dravo Corporation	16424	N/A	1979
FC-01-A001	Daniel International Corporation	N/A	N/A	N/A
FC-01-F020	Daniel International Corporation	N/A	N/A	N/A
FC-01-F029	Daniel International Corporation	N/A	N/A	N/A

WELD COMPONENT ID	MANUFACTURER OR INSTALLER	SERIAL NUMBER	NATIONAL BOARD NO.	YEAR BUILT
FC-01-F030	Daniel International Corporation	N/A	N/A	N/A
FC01-R005-135	Pacific Scientific	1-FC01-R005/135	N/A	1980
FC-01-S022-C	Dravo Corporation	23665	N/A	1980
FC-01-S022-E	Dravo Corporation	23665	N/A	1980
GN-01-C017	Daniel International Corporation	N/A	N/A	N/A
GN-1-C007-232	Daniel International Corporation	N/A	N/A	N/A
GN02-C010-242	Daniel International Corporation	N/A	N/A	N/A
GN02-R010-241	Daniel International Corporation	N/A	N/A	N/A
GS01-H003-241	Corner & Lada Company Incorporated	1-GSC1-H003/241	N/A	1982
HB-24-W512	Daniel International Corporation	N/A	N/A	N/A
K-EF11-R003	Daniel International Corporation	N/A	N/A	N/A
KJ-01-C015	Daniel International Corporation	N/A	N/A	N/A
KJ-01-H003	Daniel International Corporation	N/A	N/A	N/A
KJ-01-R007	Daniel International Corporation	N/A	N/A	N/A
KJ01-R015-511	Bergen Paterson	1-KJ01-R015/511	N/A	1979
M-018-0667-010-511	Colt Industries	N/A	N/A	N/A
M-018-0667-042-511	Colt Industries	N/A	N/A	N/A
M-018-0667-103-511	Colt Industries	N/A	N/A	N/A
M-018-0667-110-511	Colt Industries	N/A	N/A	N/A
M-018-0674-009-511	Colt Industries	N/A	N/A	N/A
M-018-0674-110-511	Colt Industries	N/A	N/A	N/A
M-620-0003-024-251	American Air Filter Company Incorporated	N/A	N/A	N/A

## REPAIR/REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
PSA-1/4 S/N 14038	Spare Snubber	Replacement	Replaced damaged parts to Rebuild Snubber	88-009
HKE11A (RBB01)	CRDM Siesmic Platform on Reactor Vessel Head	Modification	Ground welds flush on CRDM Siesmic Platform Trolley Rails	88-066
PSA-3 S/N 17977	Spare Snubber	Replacement	Replaced damaged parts to Rebuild Snubber	89-045
BGV0367 BG-017-GCB-1"	Chemical and Volume Control Valve and Piping	Replacement	Replaced valve and Piping by Welding	90-008
EFV139 EFV140 EFV141 EFV142 EF10-R512/113Q	Essential Service Water System Supply Flow Indicators	Modification	Performed welding to install tubing, tubing adapters, 5-valve manifolds, instrument and tubing supports downstream of existing root valves. One tubing support is welded to an existing pipe support.	90-009
EFHV87 EFHV88 EFV154 EFV156 EF215HBC-1" EF215HCC-1" EF216HBC-1" EF216HCC-1"	Essential Service Water System Radiation Monitor Supply Piping	Modification	Performed welding to modify listed lines by adding piping, fittings, wye strainers EFYS-001 and EFYS-002, valves EF-347, 348, 349, 350, 351 & 352, pipe support EF13-C508/311Q, replacing EFV154 and shortening the safe ends on EFHV87 and EFHV88.	90-010
BGV0379 BG-021-BGB-3/4"	Chemical and Volume Control Valve and Piping	Replacement	Replaced Valve and Piping by Welding	90-032
EFV231 EFV236	Essential Service Water System Return to Service Water System Pressure Indicators	Modification	Performed welding to add piping, valves EFV372 & 373, fittings, instruments EFPI-109 & EFPI-110, pipe supports M18-EF13-C503/311Q & M18-EF13-C504/311Q and instrument and tubing supports downstream of EFV231 & 236.	90-052

## REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
FMV029	High Pressure Coolant Injection Valve	Replacement	Replaced tubing adapter on downstream side of Valve by Welding.	90-053
SGF02B	Misc. Building HVAC Heat Exchanger	Modification	Cut and Capped Leaking tubes in cooling coil by Brazing.	90-059
GKV771	Control Building HVAC Relief Valve	Replacement	Replaced Valve Disc and Nozzle During Rebuild of Valve	90-060
SGL12B	Auxiliary Building HVAC Heat Exchanger	Repair	Repaired Pin Hole Leak in H-Bend by Brazing	90-061
EKJ04A	Standby Diesel Generator Heat Exchanger	Replacement	Replaced 3/4" pipe nipple on Heat Exchanger Drain By Welding.	90-062
KC0111-S019	Essential Service Water Pipe Spool	Repair	Repaired Pipe Spool by Cutting out damaged Section And Installing New Section By Welding.	90-063
EP06-R515/232	Accumulator Safety Injection Pipe Support	Replacement	Replaced Snubber S/N 15026 with S/N 20539.	90-064
PSA-1 S/N 20139	Spare Snubber	Replacement	Replaced Damaged Parts to Rebuild Snubber.	90-065
ABPV0004	Main Steam System Valve	Replacement	Replaced Pilot Plug During Rebuild of Valve.	90-067

## REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
ABPV0003	Main Steam System Valve	Repair/ Replacement/ and Modification	Machined Bonnet nut seating area to remove galled metal. Replaced leak off nipple with plug by welding. Replaced body-bonnet studs and nuts, main plug and auxiliary stem-plug assembly.	90-068
EM09-R506/114	High Pressure Coolant Injection Pipe Support	Replacement	Replaced Snubber S/N 14988 with S/N 20526	90-069
BC02-C513/111	Chemical and Volume Control Pipe Support	Modification	Removed pipe support. Left Welded Lugs in place on pipe.	90-072
ABPV0001	Main Steam System Valve	Replacement	Installed pipe plug in place of leak off pipe nipple by welding. Replaced valve main plug, pilot plug and bonnet nuts. Installed longer body studs.	90-073
BGV0464 BG-149-BCB-1"	Chemical and Volume Control Valve and Piping	Replacement	Replaced Valve and Pipe by Welding	90-074
AB01-R009/241	Main Steam System Pipe Support	Replacement	Replaced Snubber S/N 6075 With S/N 6921	90-075
AB01-R505/145	Main Steam Pipe Support	Replacement	Replaced Snubber S/N 14537 with S/N 20534	90-076
AE04-R011/145	Main Feedwater Pipe Support	Replacement	Replaced Snubber S/N 8682 with S/N 14507	90-077
AE05-R002/242	Main Feedwater Pipe Support	Replacement	Replaced Snubber S/ 11603 With S/N 12035	90-078

## REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
AL01-R006/135	Auxiliary Feedwater Pipe Support	Replacement	Replaced Snubber S/N 7367 With S/N 9108	90-079
EB01-R004/231	Reactor Coolant Pipe Support	Replacement	Replaced Snubber S/N 6048 With S/N 11690	90-080
BG01-R011/112	Chemical and Volume Control Pipe Support	Replacement	Replaced Snubber S/N 9387 With S/N 18278	90-081
BG03-R018/133	Chemical and Volume Control Pipe Support	Replacement	Replaced Snubber S/N 26144 With S/N 18365	90-082
BG09-R531/133	Chemical and Volume Control Pipe Support	Replacement	Replaced Snubber S/N 23267 With S/N 23259	90-083
BG11-R009/123	Chemical and Volume Control Pipe Support	Replacement	Replaced Snubber S/N 35601 With S/N 25909	90-084
BG21-R021/231	Chemical and Volume Control Pipe Support	Replacement	Replaced Snubber S/N 26101 With S/N 13148	90-087
BG22-R021/232	Chemical and Volume Control Pipe Support	Replacement	Replaced Snubber S/N 25928 With S/N 18378	90-088
BM01-C006/231	Steam Generator Blowdown Pipe Support	Replacement	Replaced Snubber S/N 10283 With S/N 4943	90-089
BM02-C020/232	Steam Generator Blowdown Pipe Support	Replacement	Replaced Snubber S/N 17986 With S/N 8433	90-090
BM18-R505/242	Steam Generator Blowdown Pipe Support	Replacement	Replaced Snubber S/N 19095 With S/N 23237	90-091
BM20-R506/241	Steam Generator Blowdown Pipe Support	Replacement	Replaced Snubber S/N 19066 With S/N 8858	90-092



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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EF15-R002/341	Essential Service Water Pipe Support	Replacement	Replaced Snubber S/N 14037 With S/N 29343	90-093
EG01-R029/142	Component Cooling Water Pipe Support	Replacement	Replaced Snubber S/N 5807 With S/N 14033	90-094
EG07-C044/112	Component Cooling Water Pipe Support	Replacement	Replaced Snubber S/N 20368 With S/N 23268	90-095
EJ01-R031/132	Residual Heat Removal Pipe Support	Replacement	Replaced Snubber S/N 19096 With S/N 19101	90-096
EJ02-R012/123	Residual Heat Removal Pipe Support	Replacement	Replaced Snubber S/N 26168 With S/N 18363	90-097
EM03-R023/231	High Pressure Coolant Injection Pipe Support	Replacement	Replaced Snubber S/N 17994 With S/N 26126	90-098
EM05-R004/231	High Pressure Coolant Injection Pipe Support	Replacement	Replaced Snubber S/N 8110 With S/N 14515	90-099
EM11-R502/231	High Pressure Coolant Injection Pipe Support	Replacement	Replaced Snubber S/N 14542 With S/N 20546	90-100
EM12-R021/232	High Pressure Coolant Injection Pipe Support	Replacement	Replaced Snubber S/N 17809 With S/N 20538	90-101
EN05-R007/241	Containment Spray Pipe Support	Replacement	Replaced Snubber S/N 6402 With S/N 7599	90-102
EP01-R008/231	Accumulator Safety Injection Pipe Support	Replacement	Replaced Snubber S/N 12251 With S/N 23234	90-103
EP07-R506/231	Accumulator Safety Injection Pipe Support	Replacement	Replaced Snubber S/N 14545 With S/N 20527	90-104

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
FC01-R006/135	Auxiliary Turbines Pipe Support	Replacement	Replaced Snubber S/N 23289 With S/N 20939	90-105
SGL09B	Auxiliary Building HVAC Heat Exchanger	Modification	Removed section of cooling coil tubing from heat exchanger. Installed new section of tubing by brazing.	91-001
SGL13B	Auxiliary Building HVAC Heat Exchanger	Repair	Repaired pin hole in return bend on heat exchanger cooling coil by brazing.	91-002
PKJ03A	Emergency Diesel Generator Lube Oil Pump	Replacement	Replaced Lube Oil Pump S/N NRP-002002 with Pump S/N NRP-002000	91-003
AB01-R005/251	Main Steam Pipe Support	Replacement	Replaced Snubber S/N 1123 With S/N 1667	91-005
EJ04-R012/231	Residual Heat Removal Pipe Support	Replacement	Replaced Snubber S/N 2114 With S/N 1202	91-006
BNV0021	Borated Refueling Water Storage Valve	Replacement	Performed Seal Welding of Body-Bonnet and Plug-Bonnet Joints.	91-010
BG21-C003/242 BG21-C004/242 BG21-C008/232 BG21-R001/242 BG21-R002/232 BG21-R004/232 BG21-R005/232 BG21-R006/232 BG21-R507/242 BG21-R508/242	Chemical And Volume Control Pipe Support	Modification	Removed Snubber(s), Pipe Clamp(s), and Load Pin(s) from Support	91-011

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
AB PV0002	Main Steam System Valve	Repair/ Replacement/ and Modification	Installed Pipe Plug in place of leak off nipple by welding. Machined Main Plug Seating Surface, Bonnet Gasket Seating Surface, and Flat Spring Seating Area. Replaced Bonnet Nuts. Replaced Body-Bonnet Studs.	91-013
EKJ04A EKJ04B EKJ06A EKJ06B	Diesel Generator Lube Oil Heat Exchangers A & B Diesel Generator Jacket Water Heat Exchangers A & B	Modification	Performed seal welding of threaded drain lines to heat exchangers.	91-014
BG-FT-159	Chemical And Volume Control Flow Transmitter Support	Modification	Removed Welded Mounting Plate. Drilled Holes In Support For Installation of Different Style of Transmitter	91-015
EM-FT-917A	High Pressure Coolant Injection Flow Transmitter Support	Modification	Removed Welded Mounting Plate. Drilled Holes In Support For Installation of Different Style of Transmitter	91-016
SGL12B	Auxiliary Building HVAC Heat Exchanger	Modification	Cut And Capped Cooling Coil Tubes In Heat Exchanger By Brazing.	91-017
SGL13A	Auxiliary Building HVAC Heat Exchanger	Modification	Cut And Capped Cooling Coil Tubes In Heat Exchanger By Brazing.	91-018
TEF01A	Essential Service Water Prelube Storage Tank	Replacement	Replaced Missing Tank Cover Nut.	91-019
PSA-100 S/N 1976	Spare Snubber	Replacement	Replaced End Adapter Nut.	91-020
CS-615-W- J-14SJ16(Q)-00-01	Nuclear Sampling Tubing Support	Modification	Installed New Tubing Support Support By Welding.	91-021

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BBV004	Reactor Coolant Valves	Modification	Removed RTD Bypass Piping, Valves, Supports, and Tubing.	91-022
BBV005			Installed New Thermowells on Hot and Cold Legs By Welding.	
BBV015			Capped RTD Bypass Return Nozzles On Crossover Legs By Welding.	
BBV016				
BBV006				
BBV013				
BBV014				
BBV401				
BBV011				
BBV003				
BBV002				
BBV302				
BBV303				
BBV012				
BB8073A				
BB8074A				
BBV023				
BBV024				
BBV025				
BBV026				
BBV027				
BBV030				
BBV031				
BBV032				
BBV033				
BBV038				
BBV039				
BBV304				
BBV305				
BBV402				
BB8073B				
BB8074B				
BBV041				
BBV042				
BBV043				
BBV044				
BBV045				
BBV049				
BBV050				
BBV051				
BBV052				
BBV053				
BBV054				
BBV306				
BBV307				
BBV403				
BB8073C				
BB8074C				

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BBV060 BBV061 BBV062 BBV063 BBV064 BBV069 BBV070 BBV071 BBV072 BBV073 BBV074 BBV308 BBV309 BBV404 BB8073D BB8074D	Reactor Coolant Valves (Continued)	Modification (Continued)		91-022 (Continued)
SBB02A SBB05A SBB02B SBB05B SBB02C SBB05C SBB02D SBB05D	Reactor Coolant RTD Manifolds			91-022 (Continued)
BB05-S002/231 BB05-S003/231 BB05-S004/231 BB05-S001/231 BB01-S101 BB01-S102 BB06-S001/232 BB06-S002/232 BB06-S003/232 BB06-S004/232 BB01-S201 BB01-S202 BB14-S001/232 BB14-S002/232 BB14-S003/232 BB14-S004/232 BB01-S301 BB01-S302 BB15-S001/231 BB15-S002/231 BB15-S003/231 BB15-S004/231 BB01-S401 BB01-S402	Reactor Coolant Pipe Spools			91-022 (Continued)

## REPAIR REPLACEMENT SUMMARY INDEX

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BB05-C001/231	Reactor Coolant Pipe Supports	Modification (Continued)		91-022 (Continued)
BB05-C002/231				
BB05-C004/231				
BB05-C005/231				
BB05-C006/231				
BB05-C007/231				
BB05-C008/231				
BB05-C009/231				
BB05-C010/231				
BB05-H001/231				
BB05-H002/231				
BB05-H003/231				
BB05-H004/231				
BB05-R001/231				
BB05-R002/231				
BB05-R003/231				
BB05-R004/231				
BB05-R005/231				
BB05-R006/231				
BB05-R007/231				
BB05-R008/231				
BB05-R009/231				
BB05-R010/231				
BB05-R011/231				
BB05-R012/231				
BB05-R013/231				
BB05-R019/231				
BB05-R020/231				
BB06-C001/232				
BB06-C002/232				
BB06-C003/232				
BB06-C004/232				
BB06-C005/232				
BB06-C006/232				
BB06-C007/232				
BB06-C008/232				
BB06-C009/232				
BB06-H001/232				
BB06-H002/232				
BB06-R001/232				
BB06-R002/232				
BB06-R003/232				
BB06-R004/232				
BB06-R005/232				
BB06-R006/232				
BB06-R007/232				
BB06-R008/232				
BB06-R009/232				
BB06-R010/232				

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BB14-C001/232	Reactor Coolant Pipe	Modification		91-022
BB14-C002/232	Supports	(Continued)		(Continued)
BB14-C003/232	(Continued)			
BB14-C004/232				
BB14-C005/232				
BB14-C006/232				
BB14-C007/232				
BB14-C008/232				
BB14-C009/232				
BP14-C010/232				
BB14-H001/232				
BB14-R001/232				
BB14-R002/232				
BB14-R004/232				
BB14-R005/232				
BB14-R006/232				
BB14-R007/232				
BB14-R008/232				
BB15-C001/231				
BB15-C002/231				
BB15-C003/231				
BB15-C004/231				
BB15-C005/231				
BB15-C006/231				
BB15-C007/231				
BB15-C008/231				
BB15-C009/231				
BB15-H001/231				
BB15-R001/231				
BB15-R002/231				
BB15-R003/231				
BB15-R004/231				
BB15-R005/231				
BB15-R006/231				
BB15-R007/231				
BB15-R008/231				
BB15-R009/231				
BB15-R010/231				
BB15-R011/231				
BB15-R012/231				
BB15-R013/231				
BB15-R018/231				

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BB16-C518/231	Reactor Coolant Pipe Support	Replacement	Installed PG-3 Strap On Pipe Support By Welding.	91-023
BBHV8157A BBHV8157B BB-245-HCC-1" BG-474-BCB-1" BG-475-BCB-1"	Chemical and Volume Control System Letdown Piping	Modification Repair Replacement	Repaired arc strike on piping by grinding and blending. Performed welding to replace, relocate, and rotate both valves.	91-024
EMHV8837A EMHV8837B EM-125-BCB-1" EM-126-BCB-1"	Boron Injection Tank Inlet Isolation Bypass	Repair Modification Replacement	Performed welding to repair defects in EMHV8837A valve body and add weld build-up for seal weld, replace EMHV8837B and seal weld, rotate and relocate both valves.	91-025
KAV1364 KAV1365 KAV1366 KAV1367 KA-704-HBC-3/4" KA-705-HBC-3/4" KA-706-HBC-3/4" KA-707-HBC-3/4"	Service Air Valves And Piping	Modification	Added New Isolation Valves KAV1364, KAV1365, KAV1366, and KAV1367 by Welding.	91-026
DPBB01B Air & Oil Coolers	Reactor Coolant Pump "B" Motor Heat Exchangers	Replacement	Replaced Reactor Coolant Pump Motor "B" with a remanufactured spare motor which included four ASME heat exchangers.	91-028
BGV0488 BG-155-BCB-1"	Chemical And Volume Control Valve and Piping	Replacement	Replaced Valve And Piping by Welding.	91-041
SJHV0005	Nuclear Sampling Valve	Replacement	Performed Body to Bonnet Seal Weld After Rework of Valve Internals	91-042
SJHV0006	Nuclear Sampling Valve	Replacement	Performed Body To Bonnet Seal Weld After Rework of Valve Internals	91-043



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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
SJHV127	Nuclear Sampling System Solenoid Valves	Replacement	Performed welding to reinstall body to bonnet seal weld.	91-044
SJHV0128 SJ-021-BCB-1*	Nuclear Sampling Valve and Piping	Modification	Replaced Valve and Piping by Welding.	91-045
SJHV0129 SJ-021-BCB-1*	Nuclear Sampling Valve	Modification	Replaced Valve and Piping by Welding	91-046
SJHV0130 SJ-021-BCB-1*	Nuclear Sampling Valve and Piping	Modification	Replaced Valve and Piping by Welding	91-047
FCV0009	Auxiliary Turbine Valve	Replacement	Replaced Valve by Welding.	91-048
BNV0034 BN-008-HCB-1*	Borated Refueling Water Storage Valve and Piping	Replacement	Replaced Valve and Piping by Welding.	91-049
BGV0080 BGV0081	Chemical and Volume Control Valves	Replacement	Removed and Rewelded Body to Bonnet Seal Welds to Allow Rework of Valves	91-050
EKJ06A	Emergency Diesel Generator Heat Exchanger	Repair/ Replacement	Installed Spare Tube Bundle. Removed and Rewelded Interior Flange Weld in Outlet Water Box.	91-051
EKJ06B	Emergency Diesel Generator Heat Exchanger	Repair/ Replacement	Installed Spare Tube Bundle. Rewelded Interior Flange Weld On Outlet Water Box.	91-052
G-SAP-J04KJ01Q FW-010 16 G-SAP-J04KJ01Q FW012 16 G-SAP-J04KJ01Q FW-016 16 G-SAP-J04KJ01Q FW-018 16	Emergency Diesel Generator Tubing Supports	Replacement	Ground out welds, to remove supports. Reinstalled supports by welding.	91-053

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EF01-S010/311 EF01-S018/311 EF01-S027/311 EF01-S034/311 EFV376 EFV378 EFV380 EFV382	Essential Service Water System To Service Water System Crosstie Piping, Supports, and Valves	Modification	Modified spools by adding 3/4" vent lines and valves and 3" drain lines and valves.	91-054
BB8010A S/N N60446-00-0002 BB8010 B S/N N60446-00-0041 BB8010 C S/N N60446-00-0040 Spare Valve S/N N60446-00-0039	Reactor Coolant System Pressurizer Safety Valves	Replacement	Replaced three pressurizer safety valves. Replaced two inlet flange nuts on spare valve S/N N60446-00-0039.	91-056
PBG05A S/N 51669 Spare Pump S/N 51671	Chemical and Volume Control System Centrifugal Charging Pumps	Replacement	Removed Inboard and Outboard Seal Housings from Spare Pump S/N 51671 and installed them in PBG05A S/N 51669.	91-059
AL01-S008/125 AL01-S009/125 AL01-S012/125 AL01-S015/125 AL-008-HBC-1"	Auxiliary Feedwater System Pipe Spools	Modification	Cut and welded cap on 1" drain line and modified spools by adding 3" drain lines and valves.	91-060
BG HV8153A BG HV8153B	Chemical and Volume Control System Valves	Modification	Rotated and Relocated Valves by Welding.	91-061
BGV0102	Chemical and Volume Control System Valve	Repair	Machined Valve Disc Seating Surfaces. Seal Welded Body To Bonnet Joint After Valve Repair.	91-062
KKJ01A	Emergency Diesel Generator	Replacement	Replaced 1-1/2" Fuel Oil Tubing and Connectors.	91-063

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
KKJ01E	Emergency Diesel Generator	Replacement	Replaced 1-1/2" Fuel Oil Tubing and Connectors	91-064
BEV0083	Reactor Coolant System Throttle Valve	Replacement	Performed welding to reinstall tack weld on valve yoke.	91-065
BGV001	Chemical and Volume Control System Valve	Replacement	Replaced Stem/Disc Assembly Performed tack weld on yoke bushing.	91-066
BGV002	Chemical and Volume Control System Valve	Replacement	Replaced Stem/Disc Assembly Performed tack weld on yoke bushing.	91-067
BGV003	Chemical and Volume Control System Valve	Replacement	Replaced Stem/Disc Assembly. Performed tack weld on yoke bushing.	91-068
BGV0198	Chemical and Volume Control System Valve	Replacement	Replaced Stem/Disc Assembly Performed tack weld on yoke bushing.	91-069
BGV0199	Chemical and Volume Control System Valve	Replacement	Replaced Stem/Disc Assembly Performed tack weld on yoke bushing.	91-070
BGV0200	Chemical and Volume Control Throttle Valve	Replacement	Replaced valve stem and performed welding to reinstall tack weld on valve yoke.	91-071
BGV0201	Chemical and Volume Control System Valve	Replacement	Replaced Stem/Disc Assembly Performed tack weld on yoke bushing.	91-072
BGV0202	Chemical and Volume Control System Valve	Replacement	Performed Tack Weld on Valve Yoke Bushing.	91-073

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOC. IDENTIFICATION</u>
SGN01A	Containment Cooler "A"	Replacement	Replaced 10 of 12 cooling coils, cut 4 welds on 8" supply manifold and 3 welds on 8" return manifold and rewelded after obtaining proper flange alignment.	91-076
EMV178 EM-023-HCB-1*	High Pressure Coolant Injection Valve and Piping	Replacement	Replaced Valve and Piping by Welding.	91-078
AE05-R016/145	Main Feed Water Pipe Support	Replacement	Replaced Snubber S/N 14032 With S/N 14563	91-080
AE05-R015/145	Main Feed Water Pipe Support	Replacement	Replaced Snubber S/N 10266 With S/N 14895	91-081
AE05-R012/145	Main Feed Water Pipe Support	Replacement	Replaced Snubber S/N 14885 With S/N 10278	91-082
AL01-R008/135	Auxiliary Feedwater System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 11964 with Snubber S/N 9382.	91-084
BM18-R507/232	Steam Generator Blowdown System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 27592 with Snubber S/N 29159.	91-085
BM20-R511/231	Steam Generator Blowdown System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 29163 with Snubber S/N 29222.	91-086
EG01-L004/142	Component Cooling Water System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 4400 with Snubber S/N 26096.	91-087

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EF01-R010/311	Essential Service Water System Pipe Support	Replacement	Replaced PSA-35 Snubber S/N 11671 with Snubber S/N 11636 and exchanged adapter nuts between snubbers.	91-088
EM12-R013/232	High Pressure Safety Injection System Pipe Support	Replacement	Replaced PSA-1/2 Snubber S/N 15019 with Snubber S/N 17784.	91-089
EP01-R017/231	Accumulator Safety Injection System Pipe Support	Replacement	Replaced PSA-10 Snubber S/N 10378 with Snubber S/N 10365.	91-090
GS03-R506/232	Containment Hydrogen Control System Pipe Support	Replacement	Replaced PSA-1/4 Snubber S/N 29432 with Snubber S/N 16451.	91-091
EKJ04A	Diesel Generator "A" Lube Oil Heat Exchanger	Repair	Machined the Stationary tubesheet gasket surface, filed and blended gouges and dents on O.D. of floating tubesheet and removed and rewelded the interior flange weld at blind flange end of outlet water box.	91-092
AB01-R512/145	Main Steam System Pipe Support	Replacement	Replaced PSA-1 Snubber S/N 21519 with Snubber S/N 25215.	91-093
BG25-R504/231	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-1/2 Snubber S/N 15015 with Snubber S/N 20510.	91-094
EJ01-R024/132	Residual Heat Removal System Pipe Support	Replacement	Replaced PSA-1 Snubber S/N 7594 with Snubber S/N 8874.	91-095
BG22-R009/242	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-1 Snubber S/N 7597 with Snubber S/N 23295.	91-096

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BG09-R515/133	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-1/2 Snubber S/N 7989 with Snubber S/N 20548.	91-097
EM03-R028/232	High Pressure Coolant Injection System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 20281 with Snubber S/N 21290.	91-098
BB02-R022/261	Reactor Coolant System Pipe Support	Replacement	Replaced PSA-10 Snubber S/N 7613 with Snubber S/N 10381.	91-099
AE04-R008/241	Main Feedwater System Pipe Support	Replacement	Replaced PSA-100 Snubber S/N 859 with Snubber S/N 1949.	91-100
EFHV25 EF-010-HBC-30"	Essential Service Water System Piping and Butterfly Valve	Replacement	Replaced One stud and One Nut on EFHV25 Flanged Connection to Line EF-010-HBC-30"	91-101
EFHV0045	Essential Service Water System Containment Isolation Valve	Replacement	Replaced Retaining Ring Assembly and Disc/Shaft Assembly	91-102
EBB01C	Steam Generator "C"	Repair Replacement	Replaced Manway Cover Bolts With Stud/Nut Assemblies and replaced one secondary handhole cover bolt with new material. Drilled and tapped bolthole #1 on handhole #17C to allow installation of a helicoil insert.	91-103
EBB01A	Steam Generator "A"	Replacement	Replaced primary manway cover bolting with stud/nut assemblies.	91-104
EKJ03A	Diesel Generator "A" Intercooler Heat Exchanger	Replacement	Replaced two heat exchanger inlet cover nuts.	91-106

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BG22-R004/232	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-1/4 Snubber S/N 9423 with Snubber S/N 27896 and PSA-1/4 Snubber S/N 9424 with Snubber S/N 25913.	91-107
EEG01A	Component Cooling Water System Heat Exchanger "A"	Modification	Modified Heat Exchanger by Seal Welding manway Covers to heat exchanger.	91-110
SGN01B	Containment Cooler "B"	Replacement	Replaced all 12 heat exchanger coils with new coils.	91-111
BG23-R507/231	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-1/2 Snubber S/N 14990 with snubber S/N 17814.	91-113
BG01-R012/112	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-1/2 Snubber S/N 8531 with Snubber S/N 8326.	91-114
EJ02-R035/123	Residual Heat Removal System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 27597 With Snubber S/N 14051.	91-115
AE04-R022/241	Main Feedwater Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 26098 with Snubber S/N 17996.	91-116
BM20-R516/251	Steam Generator Blowdown System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 26901 With Snubber S/N 18442.	91-117
EG07-C018/134	Component Cooling Water System Pipe Support	Replacement	Replaced PSA-10 Snubber S/N 14031 with Snubber S/N 10361.	91-118
AP01-R511/145	Main Steam System Pipe Support	Replacement	Replaced PSA-1 Snubber S/N 21511 With Snubber S/N 20373.	91-119
BM02-R013/232	Steam Generator Blowdown Pipe Support	Replacement	Replaced PSA-10 Snubber S/N 10235 With Snubber S/N 14030.	91-120

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BB04-R001/232	Reactor Coolant System Pipe Support	Replacement	Replaced PSA-10 Snubber S/N 7604 With Snubber S/N 8122.	91-121
BG21-R023/242	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-1 Snubber S/N 7578 With Snubber S/N 23269.	91-122
EMV0092	High Pressure Coolant Injection System Throttle Valve	Replacement	Performed Welding to Reinstall Tack Weld On Valve Yoke.	91-124
EJ01-R032/134	Residual Heat Removal System Pipe Support	Replacement	Replaced PSA-35 Snubber S/N 11664 With Snubber S/N 11644 and Interchanged Snubber end adapter nuts between the two snubbers.	91-125
AB01-C012/145	Main Steam Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 18383 With Snubber S/N 4401.	91-126
BM02-R006/232	Steam Generator Blowdown Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 18437 With Snubber S/N 26393.	91-127
BB02-R017/261	Reactor Coolant System Pipe Support	Replacement	Replaced PSA-1 Snubber S/N 10065 With Snubber S/N 23235.	91-128
BM19-R515/232	Steam Generator Blowdown Pipe Support	Replacement	Replaced PSA-1/4 Snubber S/N 27913 With Snubber S/N 9421	91-129
EG03-R023/141	Component Cooling Water System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 4395 With Snubber S/N 18435	91-130
EM12-R025/231	High Pressure Coolant Injection System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 27564 With Snubber S/N 21284.	91-131



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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EKJ04B	Emergency Diesel Generator Lube Oil Heat Exchanger "B"	Repair	Machined Stationary tubesheet gasket Seating Surface, filed and blended dents and gouges on outside diameter of floating tubesheet and removed and rewelded the interior flange weld on the blind flange end of the outlet water box.	91-132
EEG01B	Component Cooling Water Heat Exchanger "B"	Repair	Repaired Heat Exchanger manway covers by building up damaged areas with weld filler material and machining to original dimensions.	91-133
EG13-A501/242	Component Cooling Water Pipe Support	Modification	Performed Welding of stiffener plate to pipe support after tube steel had been notched to provide clearance for replacement motor.	91-134
BG23-R013/231	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 7374 with Snubber S/N 26394.	91-135
BG23-R006/231	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-1 Snubber S/N 23239 with Snubber S/N 23296.	91-136
EFHV0032	Essential Service Water Containment Isolation Valve	Replacement Modification	Replaced Valve Disc with a new Modified Valve Disc and Replaced the carbon steel retaining ring with a new stainless steel ring.	91-137
EFHV0034	Essential Service Water Containment Isolation Valve	Replacement Modification	Replaced Valve Disc and installed a stainless steel retaining ring in place of original carbon steel ring.	91-138
BGV0569 BG-462-HCB-3/4"	Chemical and Volume Control System Valve and Piping	Replacement	Replaced Valve and Pipe Spools on each side of valve by welding.	91-139
EF-260-HBC-1-1/2"	Essential Service Water Supply and Return Piping To SGL15B	Replacement	Replaced Line from Flanged Connection at EF-007-HBC-1 1/2" downstream to the upstream end of the second elbow.	91-140

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EF04-S042/143 EF05-S048/143	Essential Service Water Supply And Return Piping To SGL15B	Modification	Modified pipe spools by cutting and adding flanged connections and bolting.	91-141
EG24-R009/111	Component Cooling Water Pipe Support	Replacement	Reinstalled W6x20 portion of support by welding using original material.	91-142
SGL15B GL-285-HBC-1/2" GL-330-HBC-1/2"	Auxiliary Building HVAC Heat Exchanger and Piping	Replacement	Replaced room cooler cooling coil and performed welding to reinstall vent and drain lines.	91-143
AL01-C505/125	Auxiliary Feedwater System Pipe Support	Modification	Deleted Pipe Support by grinding off weld to baseplate.	91-144
SJ03-C503/133 SJ03-C504/133	Nuclear Sampling System Pipe Supports	Replacement	Re-install Supports by Welding	91-145
EBB01D	Steam Generator "D" Upper Lateral Support Ring	Modification	Cut Notch In Upper Overhanging Plate at the Northeast hydraulic snubber connection	91-146
BG03-R504/113	Chemical and Volume Control System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 27589 with Snubber S/N 1965.	91-147
BM17-R512/231	Steam Generator Blowdown System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 26105 With Snubber S/N 7373	91-148
BM20-R510/251	Steam Generator Blowdown System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 26401 With Snubber S/N 20275.	91-149
GN02-R007/252	Containment Cooling System Pipe Support	Replacement	Replaced PSA-3 Snubber S/N 9396 with Snubber S/N 26100.	91-150
EJ02-R507/133	Residual Heat Removal System Pipe Support	Replacement	Replaced PSA-1/4 Snubber S/N 29344 With Snubber S/N 29342.	91-152

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
WIP-J-14AL26- XX-A Rev. 0 TS-001 WIP-J-14AL26- XX-A Rev. 0 TS-002	Auxiliary Feed Water System ALFI-49 Tube Supports	Modification	Performed welding to install two new tubing supports for AEFI-49.	91-153
EPV0021	Accumulator Safety Injection System Globe Valve	Replacement	Replaced Stem/Disc Assembly	91-154
AB01-C010/145	Main Steam System Pipe Support	Replacement	Replaced Sway Strut Pipe Clamp Bolting.	91-155
AB01-H503/145	Main Steam System Pipe	Replacement	Replaced Pipe Clamp Bolting Material on PG-12 Assembly.	91-156
AB01-H504/145	Main Steam System Pipe Support	Replacement	Replaced Sway Strut Pipe Clamp Bolting Material	91-157
BM01-C003/145	Steam Generator Blowdown System Pipe Support	Replacement	Replaced 1/2" Stud and four Nuts on the west end of the south sway strut pipe clamp.	91-158
BM01-R019/145	Steam Generator Blowdown System Pipe Support	Replacement	Replaced pipe clamp bolting material	91-159
AE05-R006/241	Main Feedwater System Pipe Support	Replacement	Replaced PSA-35 Snubber S/N 11599 With Snubber S/N 12029 and interchanged end adapter nuts between the two snubbers.	91-160
RBB01	Reactor Vessel	Repair	Repaired the area outside the O-ring sealing area by removing metal upset beyond the original vessel head flange surface contour using hand stones, files and abrasive cloth. Repaired the vessel flange surface by welding, grinding and hand stoning to restore acceptable surface contour.	91-161

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<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
SJ03-C508/231 SJ03-C509/231 SJ03-510/231	Nuclear Sampling System Pipe Support	Replacement	Performed welding to reinstall one new PG-3 on each support and one special scope shim plate which is welded to ASME support SJ03-C509/231.	91-162
TEJ01A	Residual Heat Removal Containment Isolation Valve Encapsulation Tank	Replacement	Replaced One Nut on Encapsulation Tank Flange Connection	91-163
EJ02-R506/133	Residual Heat Removal System Pipe Support	Replacement	Replaced PSA-1/4 Snubber S/N 14057 with Snubber S/N 35592.	91-164
EMV0240	High Pressure Coolant Injection System Check Valve	Replacement	Performed welding to reinstall Body to Bonnet Seal Weld	91-165
ALV0024	Auxiliary Feedwater System Instrument Tubing Adapter on Valve ALV0024	Replacement	Performed welding to install tubing adapter downstream of ALV0024.	91-166
EF05-R026/141	Essential Service Water System Pipe Support	Replacement	Replaced PSA-10 Snubber S/N 14060 with Snubber S/N 14865	91-168
BMHV0002	Steam Generator Blowdown System Control Valve	Replacement	Replaced two studs and two nuts at the body to bonnet joint.	91-169
AEFE510 AEFE520 AEFE530 AEFE540	Main Feedwater System Flow Elements	Repair Replacement	Repaired all eight handle covers by machining and drilled and tapped one bolthole to allow installing a helicoil insert. Replaced bolt which was stuck in damaged bolthole.	91-170
BMHV0003	Steam Generator Blowdown System Globe Control Valve	Repair Replacement	Drilled and Tapped One Body Stud Hole to allow installing A helicoil insert. Replaced pilot plug stem assembly, three body studs and three nuts	91-171

## REPAIR REPLACEMENT SUMMARY

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EMFT-922	High Pressure Coolant Injection System Instrument Support	Modification	Removed welded instrument support mounting plate and drilled boltholes for mounting new transmitter on remaining tube steel.	91-172
LFFVC096	Floor and Equipment Drain Containment Sump Isolation Valve	Replacement	Replaced Valve Plug.	91-173
EG04-R009/141	Component Cooling Water Pipe Support	Replacement	Replaced PSA-10 Snubber S/N 6399 With Snubber S/N 14031	91-174
SGFC2B EF06-S055/135 EF06-S057/135	Auxiliary Feed Pump Room Cooler and Supply and Return Lines	Replacement Modification	Replaced room cooler cooling coil. Added flanges and bolting to supply and return lines and performed welding to reinstall cooler vent and drain lines.	91-175
EBB01C	Steam Generator "C" Upper Lateral Support North East Hydraulic Snubber	Replacement	Replaced Hydraulic Snubber With Spare Snubber S/N PD 14855-423.	91-176
BB-PT-455 BB-PT-456 BB-PT-457 BB-PT-458	Reactor Coolant System Instrument Supports	Modification	Modified Instrument Supports by Slotting Lower Mounting bolt holes.	91-177
JO4EG31 17-2 SW-001	Component Cooling Water Instrumentation Tubing Support	Modification	Performed welding to modify and relocate tubing support.	91-178
EPV0097 EP-084-ECB-3/4"	Accumulator Safety Injection System Drain Valve and Piping	Replacement	Performed Welding To Install Replacement Valve And Upstream Pipe Spool	91-179
EPHV8950F	Accumulator Safety Injection System Solenoid Valve	Replacement	Performed Welding To Reinstall Body To Bonnet Seal Weld.	91-180