

Inservice Inspection Report
of
Wolf Creek Generating Station
P.O. Box 411
Burlington, Kansas 66839

For

Wolf Creek Nuclear Operating Corporation
P.O. Box 411
Burlington, Kansas 66839

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

Prepared by:

Wolf Creek Generating Station
Results Engineering
P.O. Box 411
Burlington, Kansas 66839

Date of Report Completion: March 30, 1988

A047
1/1

TABLE OF CONTENTS

	<u>PAGE</u>
Introduction	1
Results	2
Examinations	7
Supports	40
Steam Generator Tubing	40
Appendix A	Form NIS-1 Owner's Report for Inservice Inspections
Appendix B	Repair/Replacement Summary Index

INTRODUCTION

Inservice examinations of Class 1 and 2 components and piping were conducted at Wolf Creek Generating Station in accordance with ASME Section XI, 1980 Edition with Addenda through winter 1981, and the WCGS ISI Program Plans and Schedules and Relief Requests which have been previously submitted. This report summarizes the inservice examinations through the completion of the second Refueling Outage, which occurred on January 5, 1988. This Outage was the second Refueling Outage in the first Period of the first Interval. Examination procedures, personnel and equipment certifications were reviewed and approved.

Inspections and surveillance of the examinations and related activities were conducted by personnel from the Kemper Group and Wolf Creek Generating Station Quality Department.

The ultrasonic examinations were performed by personnel from Nuclear Energy Services, Inc. Surface examinations were performed by personnel from Nuclear Energy Services, Inc. and Wolf Creek Generating Station Quality Control. Visual examinations were performed by personnel from Wolf Creek Generating Station Quality Control.

The Class 1 Leakage Test (IWB 5221) was completed prior to startup at the end of the outage with no reported leakage.

The number of examinations performed to Section XI was 834¹ and these resulted in 10 components that failed to meet Section XI criteria. See Results Section for information regarding these failures.

Approximately 25.6% of the Interval 1 examinations (IWB-2412(a)) have been completed. Refuel II in itself completed approximately 18.8% of the Intervals exams. The method used to calculate the exam percentage is given in Wolf Creek Procedure ADM 05-107, Attachment 7. It is estimated that one additional refueling outage will be required to complete the Period 1 examinations.

1. The number 834 is arrived at by adding up all of the exams that were done to ASME Section XI criteria. This includes every VT-1, 2, 3 and 4; UT, PT and MT Exam performed on a Class 1, 2 or 3 component between the dates of 12/20/86 to 1/5/88

RESULTS

Examinations resulted in a total of 18 exams with recordable indications (this does not include geometric reflectors in ultrasonic examinations). This is the information supplied for Items 11 and 12 of the Form NIS-1.

These are:

<u>ID#</u>	<u>COMPONENT</u>	<u>TYPE OF EXAM</u>	<u>RESULT</u>
AB-01-H501-145	Variable Spring Support on 2" Main Steam Bypass Line on Loop 3	VT-1	Following the accidental flooding of the Main Steam System (LER 87-49) found cold load setting out at 5% tolerance. Reworked and found acceptable. Inspected upstream (AB-01-R502-145) and downstream (AB-01-R522-145) and found acceptable. Also inspected all other like supports that could have been affected by the flooding event. (AB-01-H503-145, AB-01-H505-145, FC-01-H001-135, FC-01-H002-135, FC-01-HC03-135). All found acceptable.

<u>ID#</u>	<u>COMPONENT</u>	<u>TYPE OF EXAM</u>	<u>RESULT</u>
AB-01-H507	Variable Spring Support on 2" Main Steam Bypass Line on Loop 4	VT-4	Following the accidental flooding of the Main Steam System (LER 87-049-00) found cold load setting out at 5% tolerance. Reworked and found acceptable. Inspected upstream (AB-01-R514-145) and downstream (AB-01-R519-145) and found acceptable. Also inspected all other like supports that could have been affected by the flooding event. (AB-01-H503-145, AB-01-H505-145, FC-01-H001-135, FC-01-H002-135, FC-01-HC03-135). All found acceptable.
AB-01-R031-145	Rigid Support to Loop 3 Main Steam Isolation Valve	VT-3	During inspection of other Components, found top left hand nut on Post Applied Plate loose. Per Nuclear Plant Engineering, the Post Applied Plate is not in the ISI scope. Following the retorquing of the nut, support found acceptable.
AE-04-S022-B	Steam Generator A Feed Pipe Flow Element FE-510 Handhole Weld	UT	3 laminar indications acceptable to IWB-3514.
CH-STUD-21	Closure Head Stud 21	VT-1	Found dings and upset metal on threads #6 and #7. Reworked and found acceptable.

<u>ID#</u>	<u>COMPONENT</u>	<u>TYPE OF EXAM</u>	<u>RESULT</u>
CH-STUD-41	Closure Head Stud 41	VT-1	Found upset metal and 1" at #1 thread sheared. Reworked and found acceptable.
EF-05-R005-141	Rigid Support on 24" Outlet Line from Component Cooling Water Heat Exchanger EEG01B	VT-3	Inspection found bearing and race displaced on both ends of strut rejectable. Following rework found acceptable. Also inspected upstream (EF-05-R025-141) and downstream (EF-05-H011-141) and found acceptable. <u>NOTE:</u> The original failure was found 11/30/86.
EJ-04-R008	Lugs to 6" Residual Heat Removal Hot Leg Recirculation Line (FW502)	PT	1 linear indication acceptable to IWB-3516.
EM-01-S035-C	6" pipe to 6" elbow on Safety Injection Pump Crossover Line	PT	2 linear indications acceptable to IWB-3514.
EP-01-FW303	Valve 8818A to 6" pipe on Safety Injection and Residual Heat Removal to Accumulator Discharge Line, Loop 1	PT	1 linear indication acceptable to IWB-3514.
EP-01-R009	Lugs to 10" pipe Accumulator A Discharge Line (Lugs 1,6,7, and 8)	PT	4 linear indications acceptable to IWB-3516.
EP-01-S011-J	2" Socholet to 6" pipe Safety Injection Pump connection to Accumulator A Discharge	PT	3 linear indications acceptable to IWB-3514.
PEJ01A-SUP-1	Residual Heat Removal Pump A Support Foot 1 Integral Attachment Weld	PT	3 aligned linear indications and 1 rounded indication acceptable to IWB-3516.

<u>ID#</u>	<u>COMPONENT</u>	<u>TYPE OF EXAM</u>	<u>RESULT</u>
TBB03-SKIRT-W	Support Skirt to Pressurizer Weld (ID only)	PT	7 linear indications acceptable to IWB-3516.
TEM01-SUPPORT-1	Boron Injection Tank Support Integral Attachment	PT	1 rejectable linear indication and 2 round indications. Reworked and found acceptable to IWB-3516. The remaining 3 BIT supports were examined pursuant to an engineering evaluation.
TEM01-SUPPORT-2	Boron Injection Tank Support Integral Attachment	PT	2 rejectable linear indication; 2 rejectable round indications; 1 acceptable linear and 5 acceptable round indications found to Construction Code ASME Section III-Div.2, 1971-Summer-1973 Addenda. Reworked and found acceptable with no rejectable indications.
TEM01-SUPPORT-3	Boron Injection Tank Support Integral Attachment	PT	3 rejectable linear indications found to Construction Code ASME Section III-Div. 2, 1971-Summer-1973 Addenda. Reworked and found acceptable with no rejectable indications.

<u>ID#</u>	<u>COMPONENT</u>	<u>TYPE OF EXAM</u>	<u>RESULT</u>
TEM01-SUPPORT-4	Boron Injection Tank Support Integral Attachment	PT	1 rejectable round indication found to Construction Code ASME Section III- Div. 2, 1971- Summer-1973 Addenda. Reworked and found acceptable with no rejectable indications.

Specific data relative to these indications is located at Wolf Creek Generating Station.

EXAMINATIONS

The following is a summary of the examinations performed and is supplied for Item 10 of the Form NIS-1: (This listing does not include VT-2 exams, VT-4 exams on snubbers which are done to Technical Specifications or VT-3 exams on supports examined under the Statistical Sampling Plan).

The Component Number in parentheses is the correct Identification Number of the item. The program plan is currently being revised to reflect the correct number.

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
BZ	B1.30	RV-101-121	Flange to Vessel Weld	UT
BG-1	B6.30	CH-STUD-21,41	Closure Head Studs	V1
	B6.50	CH-WASH-1,2,11, 12,17,19,20,26, 49,50	Closure Head Washers	V1
BG-2	B7.50	BB-02-8010C-FL-B	Pressurizer Relief Valve Flange Bolting	V1
	B7.70	BB-02-HV-8000A-B	Pressurizer Relief Isolation Valve Bolting	V1
		BB-02-HV-8000B-B	Pressurizer Relief Isolation Valve Bolting	V1
		BB-02-8010C-B	Pressurizer Relief Valve Bonnet Bolting	V1
		EP-01-8818D-B	Accumulator Safety Injection Check Valve Bonnet Bolting	V1
BH	B8.20	TBB03-SKIRT-W	Support Skirt to Pressurizer Weld	PT
BJ	B9.11	BB-02-F009	Pressurizer Relief Line 6" Pipe to 6" X 6" X 3" Tee Weld	PT
		BB-02-FW310	Pressurizer Relief Line 6" X 6" X 3" Tee to 6" Pipe Weld	PT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		BB-02-S006-E	Pressurizer Relief Line 6" pipe to 6" Elbow Weld	PT UT
		EJ-04-F024	Residual Heat Removal Suction Line from Loop 4 Valve BB PV-8702B to 12" Pipe Weld	PT
		EJ-04-F032	Residual Heat Removal Suction Line from Loop 1 Valve BB PV-8702A to 12" Line Weld	PT UT
		EJ-04-S014-D	Residual Heat Removal Suction Line from Loop 4 12" Elbow to 12" Pipe Weld	PT UT
		EJ-04-S015-C	Residual Heat Removal Suction Line from Loop 4 12" Pipe to 12" Elbow Weld	PT UT
		EM-05-F007	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 6" Pipe to 6" Sweepolet Weld	PT UT
		EM-05-S005-B	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 6" Pipe to 6" Elbow Weld	PT UT
		EM-05-S006-B	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 6" X 2" Reducer to 6" Pipe Weld	PT UT
		EP-01-F007A	Accumulator Safety Injection Loop 1 Valve BB 8943A to 10" Pipe Weld	PT UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EP-01-F008A	Accumulator Safety Injection Loop 1 10" Elbow to 10" Nozzle Weld	PT UT
		EP-01-F019A (EP-01-F019)	Accumulator Safety Injection Loop 4 Valve BB 8948D to 10" Pipe Weld	PT UT
		EP-01-F020	Accumulator Safety Injection Loop 4 10" Elbow to 10" Nozzle Weld	PT UT
		EP-01-FW302	Accumulator Safety Injection Loop 1 6" Pipe to 6" X 10" Tee Weld	PT UT
		EP-01-FW303	Accumulator Safety Injection Loop 1 Valve 8818A to 6" Pipe Weld	PT UT
		EP-01-S003-E	Accumulator Safety Injection Loop 1 10" Pipe to 6" X 10" X 10" Tee Weld	PT UT
		EP-01-S003-F	Accumulator Safety Injection Loop 1 10" X 10" X 6" to 10" Pipe Weld	PT UT
		EP-02-F007	Accumulator Safety Injection Loop 2 Valve BB 8948B to 10" Pipe Weld	PT UT
	B9.21	BB-01-S301-9	Reactor Coolant Loop 3 Crossover Leg, 3" Nozzle to 3" X 1 1/2" Reducer Weld	PT
		BB-01-S401-10	Reactor Coolant Loop 4 Cold Leg 3" Nozzle to 3" X 1 1/2" Reducer Weld	PT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		BB-02-F012	Pressurizer Relief Line 3" Pipe to Valve PCV-455A Weld	PT
		BB-02-F019	Pressurizer Relief Line 3" Pipe to Valve PCV-456A Weld	PT
		BB-02-FW312	Pressurizer Relief Line 3" Elbow to 3" Pipe Weld	PT
		BB-02-FW313A	Pressurizer Relief Line 3" Pipe to 3" Elbow Weld	PT
		BB-02-FW317A	Pressurizer Relief Line 3" Pipe to 3" Elbow Weld	PT
		BB-02-FW318	Pressurizer Relief Line 6" X 3" Reducer to 3" Pipe Weld	PT
		BB-02-FW322	Pressurizer Relief Line 3" pipe to 3" Elbow Weld	PT
		BB-02-S010-H	Pressurizer Relief Line 3" Elbow to 3" Pipe Weld	PT
		BB-02-S014-C	Pressurizer Relief Line 3" Elbow to 3" Pipe Weld	PT
		BB-06-F001	RTD Line Crossover Leg Loop 2, 3" Pipe to 3" Nozzle Weld	PT
		BB-06-F002	RTD Line Loop 2 Valve 8074B to 3" Pipe Weld	PT
		BB-06-F004	RTD Line Loop 2 Valve 8073B to 3" Pipe Weld	PT
		BB-06-FW300	RTD Line Loop 2 2" Pipe to 2" Orifice Flange Weld	PT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		BB-06-FW500	RTD Line Cold Leg Loop 2, 2" Pipe to 2" Nozzle Weld	PT
		BB-06-FW506	RTD Line Loop 2 2" Pipe to Valve V025 Weld	PT
		BB-06-FW507	RTD Line Loop 2 Valve V026 to 2" Pipe Weld	PT
		BB-06-FW508	RTD Line Loop 2 2" Pipe to Valve V026 Weld	PT
		BB-06-FW513	RTD Line Loop 2 Manifold (SBB05B) to 2" Pipe Weld	PT
		BB-06-FW514	RTD Line Loop 2, 2" Pipe to Cold Leg Manifold (SBB05B) Weld	PT
		BB-06-FW548	RTD Line Loop 2 2" Pipe to Manifold (SBB02B) Weld	PT
		BB-06-FW551	RTD Line Loop 2 2" Pipe to Valve V024 Weld	PT
		BB-06-FW552	RTD Line Loop 2 Valve V024 to 2" Pipe Weld	PT
		BB-06-FW563	RTD Line Loop 2 2" X 1" Reducer to 2" Pipe Weld	PT
		BB-06-S003-B	RTD Line Loop 2 3" Pipe to 3" X 2" Reducer Weld	PT
		BB-08-V121-2	Reactor Coolant Pump Seal Water Injection Line 2" Pipe Piece to Valve V121 Weld	PT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		BB-08-W541	Reactor Coolant Pump Seal Water Injection Line 1 1/2" Pipe to 1 1/2" X 2" Reducer Weld	PT
		BG-21-F011A	Chemical and Volume Control Charging Line to Cold Leg Loop 1 3" Pipe to Valve BB 8378B Weld	PT
		BG-21-F012	Chemical and Volume Control Charging Line to Cold Leg Loop 1 3" Pipe to Valve BB 8378A Weld	PT
		BG-23-FW322	Chemical and Volume Control Excess Letdown Line from Loop 4, 2" Pipe to Valve BB-V066 Weld	PT
		BG-23-FW582	Chemical and Volume Control Excess Letdown Line from Loop 4 Valve BB-V065 to 2" Pipe Weld	PT
		BG-23-FW583	Chemical and Volume Control Excess Letdown Line from Loop 4, 2" Pipe to Valve BB-V065 Weld	PT
		EM-03-FW549	High Pressure Coolant Injection Boron Injection Tank Header to Loop 3 Cold Leg 3" X 1 1/2" Reducer to 1 1/2" Pipe Weld	PT
		EM-03-BEV040-1	High Pressure Coolant Injection Boron Injection Header to Cold Leg Loop 3, 1 1/2" Pup Piece to Valve BB-V040 Weld	PT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EM-05-FW508A	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 2" Pup Piece to 2" Pipe Weld	PT
		EM-05-FW523	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 2" Pipe to 2" X 6" Reducer Weld	PT
		EM-05-FW532	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 2" Pipe to 2" X 2" X 3/4" Tee Weld	PT
		EM-05-FW576	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 2" X 2" X 3/4" Tee to 2" Pipe Weld	PT
		EM-05-W538	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 2" X 2" X 3/4" Tee to 2" Pipe Weld	PT
		EM-05-W539	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 2" X 2" X 1" Tee to 2" Pipe Weld	PT
		EM-05-W540	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 2" X 2" X 1" Tee to 2" Pipe Weld	PT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EM-05-W542	High Pressure Coolant Injection, Safety Injection Pumps to Residual Heat Removal 2" Pipe to 2" X 2" X 1" Tee Weld	PT
		EP-01-FW509	Accumulator Safety Injection Loop 1 2" Pipe to 2" Pup Piece Weld	PT
		EP-01-W504	Accumulator Safety Injection Loop 4 2" Pipe to 2" X 2" X 3/4" Tee Weld	PT
B9.32		BB-01-S101-4	Reactor Coolant Loop 1 Cold Leg 2 1/2" Thermo-couple Boss to 27 1/2" Pipe Weld	PT
		BB-01-S201-8	Reactor Coolant Loop 2 Crossover Leg 3" Nozzle to 27 1/2" Pipe Weld	PT
		BB-01-S202-4	Reactor Coolant Loop 2 Hot Leg 2 1/2" Thermowell Boss to 29" Pipe Weld	PT
		BB-01-S302-6	Reactor Coolant Loop 3 Hot Leg 2 1/2" Thermo-couple Boss to 29" Pipe Weld	PT
		BB-01-S401-3	Reactor Coolant Loop 4 Cold Leg 2" Socket Boss to 27 1/2" Pipe Weld	PT
		BB-01-S401-5	Reactor Coolant Loop 4 Cold Leg 3" Nozzle to 27 1/2" Pipe Weld	PT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		BB-01-S402-5	Reactor Coolant Loop 4 Hot Leg 2 1/2" Thermo- couple Boss to 29" Pipe Weld	PT
		EP-01-S005-F	Accumulator Safety Injection Loop 1 6" Pipe to 2" Weldolet Weld	PT
		EP-01-S011-J	Accumulator Safety Injection Loop 4 2" Socholet to 6" Pipe Weld	PT
CC	C3.10	TEM01-SUPPORT-1	Boron Injection Tank Support, Support Pad 1 Weld	PT
		TEM01-SUPPORT-2	Boron Injection Tank Support, Support Pad 2 Weld	PT
		TEM01-SUPPORT-3	Boron Injection Tank Support, Support Pad 3 Weld	PT
		TEM01-SUPPORT-4	Boron Injection Tank Support, Support Pad 4 Weld	PT
CC	C3.20	EJ-04-A001	Residual Heat Removal 10" Hot Leg Recirc. Pipe Integral Attach- ment Weld (Plate)	PT
		EJ-04-A002	Residual Heat Removal 6" Pipe Integral Attach- ment Weld (Plate)	PT
		EJ-04-R004	Residual Heat Removal 6" Pipe Integral Attach- ment Weld (Stanchion)	PT
		EJ-04-R008	Residual Heat Removal Hot Leg Recirc. Line Integral Attachment (8 Lugs)	PT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EJ-04-R009	Residual Heat Removal Hot Leg Recirc. Line Integral Attachment (8 Lugs)	PT
		EP-01-R009	Accumulator Safety Injection Loop 1 Integral Attachment (8 Lugs)	PT
	C3.30	PEJ01A-SUP-1	Residual Heat Removal Pump A Support Foot 1 Integral Attachment Weld	PT
CF	C5.11	EJ-01-F027	Residual Heat Removal Heat Exchanger A Outlet to 12" Pipe Weld	PT
		EJ-01-S014-A	Residual Heat Removal Train A, 10" Orifice Flange to 10" Pipe Weld	PT
		EJ-01-S015-H	Residual Heat Removal Train A, 8" Pipe to 8" Flange on Valve FCV-618 Weld	PT
		EJ-01-S016-D	Residual Heat Removal Train A, 8" pipe to 8" Elbow Weld	PT
		EJ-01-S018-C	Residual Heat Removal Train A, 10" Pipe to 10" X 8" Reducer Weld	PT
		EJ-01-S021-J	Residual Heat Removal Train A, 10" Pipe to 10" X 12" Reducer Weld	PT
		EJ-01-S023-E	Residual Heat Removal Train A, 10" Pipe to 10" Elbow Weld	PT
		EP-01-F001	Accumulator Safety Injection Loop 1 Nozzle to 10" Elbow Weld	PT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
	C5.12	EJ-01-F027-LD	Residual Heat Removal Train A Longitudinal Weld downstream of Heat Exchanger Outlet to 12" Pipe Weld	PT
		EJ-01-S014-A-LD	Residual Heat Removal Train A Longitudinal Weld downstream of 10" Orifice Flange to 10" Pipe Weld	PT
		EJ-01-S015-H-LU	Residual Heat Removal Train A Longitudinal Weld upstream of 8" Pipe to 8" Flange on Valve FCV-618 Weld	PT
		EJ-01-S016-D-LD	Residual Heat Removal Train A Longitudinal Weld downstream of 8" Pipe to 8" Elbow Weld	PT
		EJ-01-S016-D-LU	Residual Heat Removal Train A Longitudinal Weld upstream of 8" Pipe to 8" Elbow Weld	PT
		EJ-01-S018-C-LD	Residual Heat Removal Train A Longitudinal Weld downstream of 10" Pipe to 10" X 8" Reducer Weld	PT
		EJ-01-S018-C-LU	Residual Heat Removal Train A Longitudinal Weld upstream of 10" Pipe to 10" X 8" Reducer Weld	PT
		EJ-01-S021-J-LD	Residual Heat Removal Train A Longitudinal Weld downstream of 10" Pipe to 10" X 12" Reducer Weld	PT
		EJ-01-S021-J-LU	Residual Heat Removal Train A Longitudinal Weld upstream of 10" Pipe to 10" X 12" Reducer Weld	PT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EJ-01-S023-E-LD	Residual Heat Removal Train A Longitudinal Weld downstream of 10" Pipe to 10" Elbow Weld	PT
		EJ-01-S023-E-LU	Residual Heat Removal Train A Longitudinal Weld upstream of 10" Pipe to 10" Elbow Weld	PT
		EP-01-F001-LD	Accumulator Safety Injection Loop 1 Longitudinal Seam downstream of Nozzle to 10" Elbow Weld	PT
	C5.21	EJ-01-F045	Residual Heat Removal Train A Valve HV-8809A to 10" Pipe Weld	PT UT
		EJ-04-F016	Residual Heat Removal Hot Leg Recirc. 6" Pipe to Valve 8841B Weld	PT UT
		EJ-04-FW312	Residual Heat Removal Train A, 6" Pipe to 10" X 10" X 6" Tee Weld	PT UT
		EJ-04-FW365	Residual Heat Removal Hot Leg Recirc. Line 6" Pipe to 6" Elbow Weld	PT UT
		EJ-04-S006-D	Residual Heat Removal Hot Leg Recirc. Line 10" Elbow to 10" Pipe Weld	PT UT
		EJ-04-S009-D	Residual Heat Removal Hot Leg Recirc. Line 10" Pipe to 10" X 10" X 6" Tee Weld	PT UT
		EJ-04-S009-F	Residual Heat Removal Hot Leg Recirc. Line 10" Pipe to 10" X 6" Reducer Weld	PT UT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		EJ-04-S011-C	Residual Heat Removal Hot Leg Recirc. Line 6" Elbow to 6" Pipe Weld	PT UT
		EJ-04-S026-C	Residual Heat Removal Train A, 6" Pipe to 6" Elbow Weld	PT UT
		EJ-04-S026-F	Residual Heat Removal Train A, 6" Elbow to 6" Pipe Weld	PT UT
		EM-02-S009-C	High Pressure Coolant Injection, Boron Injection Tank Inlet 6" Pipe to 6" X 4" Reducer Weld	PT UT
		EP-01-F002A	Accumulator Safety Injection Loop 1 10" Pipe to Valve HV-8809A Weld	PT UT
		EP-01-S002-E	Accumulator Safety Injection Loop 1 10" Elbow to 10" Pipe Weld	PT UT
		EP-02-S006-C	Accumulator Safety Injection Loop 3 10" Pipe to 10" Elbow Weld	PT
		EP-02-S007-D	Accumulator Safety Injection Loop 3 10" Elbow to 10" Pipe Weld	PT UT
	C5.22	EJ-01-F045-LD	Residual Heat Removal Train A Longitudinal Seam downstream of Valve HV-8809A to 10" Pipe Weld	PT UT
		EJ-04-S006-D-LD	Residual Heat Removal Hot Leg Recirc. Line Longitudinal Seam downstream of 10" Elbow to 10" Pipe Weld	PT UT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		EJ-04-S006-D-LU	Residual Heat Removal Hot Leg Recirc. Line Longitudinal Seam upstream of 10" Elbow to 10" Pipe Weld	PT UT
		EJ-04-S009-D-LD	Residual Heat Removal Hot Leg Recirc. Line Longitudinal Seam downstream of 10" Pipe to 10" X 10" X 6" Tee Weld	PT UT
		EJ-04-S009-D-LU	Residual Heat Removal Hot Leg Recirc. Line Longitudinal Seam upstream of 10" Pipe to 10" X 10" X 6" Tee Weld	PT UT
		EJ-04-S009-F-LU	Residual Heat Removal Hot Leg Recirc. Line Longitudinal Seam upstream of 10" Pipe to 10" X 6" Reducer	PT UT
		EP-01-F002A-LU	Accumulator Safety Injection Loop 1 Longitudinal Seam upstream of 10" Pipe to Valve HV-8808A Weld	PT UT
		EP-01-S002-E-LD	Accumulator Safety Injection Loop 1 Longitudinal Seam downstream of 10" Elbow to 10" Pipe Weld	PT UT
		EP-01-S002-E-LU	Accumulator Safety Injection Loop 1 Longitudinal Seam upstream of 10" Elbow to 10" Pipe Weld	PT UT
		EP-02-S006-C-LD	Accumulator Safety Injection Loop 3 Longitudinal Seam downstream of 10" Pipe to 10" Elbow Weld	PT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EP-02-S006-C-LU	Accumulator Safety Injection Loop 3 Longitudinal Seam upstream of 10" Pipe to 10" Elbow Weld	PT
		EP-02-S007-D-LD	Accumulator Safety Injection Loop 3 Longitudinal Seam downstream of 10" Elbow to 10" Pipe Weld	PT UT
		EP-02-S007-D-LU	Accumulator Safety Injection Loop 3 Longitudinal Seam upstream of 10" Elbow to 10" Pipe Weld	PT UT
DA	D1.30	AL-01-A001	Auxiliary Feedwater 8" Suction Line to Motor Driven Aux- iliary Feed Pump B Integral Attachment	V3
		AL-01-R006	Auxiliary Feedwater 8" Suction Line to Turbine Drive Aux- iliary Feed Pump Integral Attachment	V3
DB	D2.20	EBG01-SUPPORT-1	Chemical and Volume Control Component Support Integral Attachment	V3
		EF-01-C002	Essential Service Water 30" Line Pipe Support Integral Attachment	V3
		EF-01-C004	Essential Service Water 30" Line Pipe Support Integral Attachment	V3

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EF-02-C003	Essential Service Water 24" Inlet Line to Component Cooling Water Heat Exchanger A Integral Attachment	V3
		EF-02-C005	Essential Service Water 24" Inlet Line to Component Cooling Water Heat Exchanger A Integral Attachment	V3
		EF-02-C006	Essential Service Water 24" Inlet Line to Component Cooling Water Heat Exchanger A Integral Attachment	V3
		EF-02-C007	Essential Service Water 24" Inlet Line to Component Cooling Water Heat Exchanger A Integral Attachment	V3
		EG-02-A006	Component Cooling Water Train A, 12' Line to Fuel Pool Cooling Heat Ex- changer Integral Attachment	V3
		EKJ06A-SUP-1	Diesel Generator Jacket Water Heat Exchanger Component Support, Train A	V3
		EKJ06A-SUP-2	Diesel Generator Jacket Water Heat Exchanger Component Support, Train A	V3
		FC-01-R003	Auxiliary Feedwater Turbine Driven Pump 10" Discharge Line Integral Attachment	V3

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		GN-01-C016	Containment Cooling 14" Pipe to Contain- ment Cooler C Integral Support	V3
		K-EF11-A001	Essential Service Water 30' Crosstie Integral Attachment	V3
		KJ-01-C007	Diesel Generator Air Intake Piping A Train Integral Attachment	V3
		KJ-01-C008	Diesel Generator Air Intake Piping A Train Integral Attachment	V3
		KJ-01-R015	Diesel Generator Air Intake Piping A Train Integral Attachment	V3
		PEF01A-SUPPORT-2	Essential Service Water Pump Base Plate to Pump Discharge Integral Support	V3
		PEF01A-SUPPORT-3	Essential Service Water Pump Skirt to Pump Discharge Integral Support	V3
Augmented (NUREG 0800)		AE-04-F001	Main Feedwater Loop 1 14" Elbow to 14" Torsional Restraint Weld	UT
		AE-04-F002	Main Feedwater Loop 1 14" Torsional Restraint to FE-510 Weld	UT
		AE-04-F003	Main Feedwater Loop 1 FE-510 to 14" Pipe Weld	UT
		AE-04-F004	Main Feedwater Loop 1 14" Pipe to Valve FV39 Weld	UT
		AE-04-F005	Main Feedwater Loop 1 Valve FV39 to 14" Pipe Weld	UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		AE-04-F006	Main Feedwater Loop 1 14" Pipe to 14" Pipe Weld	UT
		AE-04-F007	Main Feedwater Loop 1 14" Pipe to 14" Pipe Weld	UT
		AE-04-F009	Main Feedwater Loop 1 Flued Head (P-6) to 14" Pipe Weld	UT
		AE-04-F031	Main Feedwater Loop 1 4" Elbow to Valve V125 Weld	UT
		AE-04-F039	Main Feedwater Loop 1 4" Weldolet to 4" Pipe Weld	UT
		AE-04-F042	Main Feedwater Loop 1 14" X 3" Weldolet to Valve V325 Weld	UT
		AE-04-FW312	Main Feedwater Loop 1 14" Pipe to 14" Pipe Weld	UT
		AE-04-FW313	Main Feedwater Loop 1 14" Pipe to Flued Head (P-6) Weld	UT
		AE-04-FW901	Main Feedwater Loop 1 14" X 3" Weldolet to 14" Pipe Weld	UT
		AE-04-S004-A	Main Feedwater Loop 1 14" Pipe to 14" X 4" Weldolet Weld	UT
		AE-04-S022-B	Main Feedwater Loop 1 Handhole to FE-510 Weld	UT
		AE-04-S025-A	Main Feedwater Loop 1 4" Pipe to 4" Elbow Weld	UT
		AE-04-S025-B	Main Feedwater Loop 1 4" Elbow to 4" Pipe Weld	UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		AE-04-S025-C	Main Feedwater Loop 1 4" Pipe to 4" Elbow Weld	UT
		AE-05-F031	Main Feedwater Loop 4 4" Elbow to Valve V126 Weld	UT
		AE-05-F038	Main Feedwater Loop 4 4" Weldolet to 4" Pipe Weld	UT
		AE-05-S004-A	Main Feedwater Loop 4 14" Pipe to 14" X 4" Weldolet Weld	UT
		AE-05-S026-A	Main Feedwater Loop 4 4" Pipe to 4" Elbow Weld	UT
		BB-08-F002A	Reactor Coolant Pump A Seal Water Injection Line, 2" Pipe to Flued Head (P-41) Weld	PT UT
		BB-08-FW306	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" Coupling Weld	PT
		BB-08-FW359 (BG-09-FW359)	Reactor Coolant Pump A Seal Water Injection Line Flued Head (P-41) to 2" Pipe Weld	PT UT
		BB-08-FW500	Reactor Coolant Pump A Seal Water Injection Line 2" Pup Piece to 2" Pipe Weld	PT UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		BB-08-FW501	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" Pup Piece Weld	PT UT
		BB-08-FW509	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to Valve V119 Weld	PT UT
		BB-08-FW543	Reactor Coolant Pump A Seal Water Injection Line Valve V119 to 2" Pipe Weld	PT UT
		BB-08-W300	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" Elbow Weld	PT
		BB-08-W301	Reactor Coolant Pump A Seal Water Injection Line 2" Elbow to 2" Pipe Weld	PT
		BB-08-W502	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" Elbow Weld	PT UT
		BB-08-W503	Reactor Coolant Pump A Seal Water Injection Line 2" Elbow to 2" Pipe Weld	PT UT
		BB-08-W504	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" Tee Weld	PT UT
		BB-08-W506	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" X 3/4" Reducer Weld	PT UT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		BB-08-W507	Reactor Coolant Pump A Seal Water Injection Line 2" Tee to 2" Pipe Weld	PT UT
		BB-08-W508	Reactor Coolant Pump A Seal Water Injection Line 2" Tee to 2" Pipe Weld	PT UT
		BB-08-V118-1	Reactor Coolant Pump A Seal Water Injection Line Valve V118 to 2" Pup Piece Weld	PT UT
		BB-08-V118-2	Reactor Coolant Pump A Seal Water Injection Line 2" Pup Piece to Valve V118 Weld	PT UT
		BB-09-FW304A	Reactor Coolant Pump C Seal Water Injection Line 2" Pipe to 2" Pipe Weld	PT UT
		BB-11-F001	Reactor Coolant Pump B Seal Water Injection Line Flued Head (P-22) to 2" Pipe Weld	PT UT
		BG-03-F001	Chemical and Volume Control Excess Let- down Line Flued Head (P-23) to 3" Elbow Weld	UT
		BG-03-F001-LD	Chemical and Volume Control Excess Let- down Line Longitudinal Seam downstream from Flued Head (P-23) to 3" Elbow Weld	UT
		BG-03-F002	Chemical and Volume Control Excess Let- down Line 3" Pipe to Valve HV-8152 Weld	UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EG-03-F002-LU	Chemical and Volume Control Excess Let-down Line Longitudinal Seam upstream of 3" Pipe to Valve HV-8152 Weld	UT
		EG-03-FW312	Chemical and Volume Control Excess Let-down Line 3" Pipe to 3" Elbow Weld	UT
		EG-03-FW312-LD	Chemical and Volume Control Excess Let-down Line Longitudinal Seam downstream of 3" Pipe to 3" Elbow Weld	UT
		EG-03-FW312-LU	Chemical and Volume Control Excess Let-down Line Longitudinal Seam upstream of 3" Pipe to 3" Elbow Weld	UT
		EG-03-FW313	Chemical and Volume Control Excess Let-down Line 3" Pipe to 3" X 3" X 3/4" Tee Weld	UT
		EG-03-FW313-LD	Chemical and Volume Control Excess Let-down Line Longitudinal Seam downstream of 3" Pipe to 3" X 3" X 3/4" Tee Weld	UT
		EG-03-FW314	Chemical and Volume Control Excess Let-down Line 3" Valve HV-8152 to 3" Pipe Weld	UT
		EG-03-S001-A	Chemical and Volume Control Excess Let-down Line 3" Elbow to 3" Pipe Weld	UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		BG-03-S001-A-LD	Chemical and Volume Control Excess Let-down Line Longitudinal Seam downstream of 3" Elbow to 3" Pipe Weld	UT
		BG-03-S001-A-LU	Chemical and Volume Control Excess Let-down Line Longitudinal Seam upstream of 3" Elbow to 3" Pipe Weld	UT
		BG-03-S001-C	Chemical and Volume Control Excess Let-down Line 3" Elbow to 3" Pipe Weld	UT
		BG-03-S001-C-LD	Chemical and Volume Control Excess Let-down Line Longitudinal Seam downstream of 3" Elbow to 3" Pipe Weld	UT
		BG-03-S001-C-LU	Chemical and Volume Control Excess Let-down Line Longitudinal Seam upstream of 3" Elbow to 3" Pipe Weld	UT
		BG-03-S002-A	Chemical and Volume Control Excess Let-down Line 3" X 3" X 3/4" Tee to 3" Elbow Weld	UT
		BG-03-S002-A-LD	Chemical and Volume Control Excess Let-down Line Longitudinal Seam downstream of 3" X 3" X 3/4" Tee to 3" Elbow Weld	UT
		BG-03-S002-A-LU	Chemical and Volume Control Excess Let-down Line Longitudinal Seam upstream of 3" X 3" X 3/4" Tee to 3" Elbow Weld	UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EG-03-S002-B	Chemical and Volume Control Excess Let- down Line 3" Elbow to 3" Pipe Weld	UT
		EG-03-S002-B-LD	Chemical and Volume Control Excess Let- down Line Longitudinal Seam downstream of 3" Elbow to 3" Pipe Weld	UT
		EG-03-S002-B-LU	Chemical and Volume Control Excess Let- down Line Longitudinal Seam upstream of 3" Elbow to 3" Pipe Weld	UT
		EG-09-FW310	Reactor Coolant Pump B Seal Water Injection Line 2" X 2" X 3/4" Tee to 2" Pipe Weld	PT UT
		EG-09-FW324	Reactor Coolant Pump B Seal Water Injection Line 2" X 2" X 3/4" Tee to 2" Pipe Weld	PT UT
		EG-09-FW339	Reactor Coolant Pump B Seal Water Injection Line 2" Tee to 2" Pipe Weld	PT UT
		EG-09-FW340	Reactor Coolant Pump B Seal Water Injection Line 2" Pipe to 2" X 1" Reducer Weld	PT UT
		EG-09-FW352	Reactor Coolant Pump A Seal Wat. v Injection Line 2" Pipe to Valve HV-8351A Weld	PT
		EG-09-FW360	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" Tee Weld	PT UT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		BG-09-FW784	Reactor Coolant Pump A Seal Water Injection Line Valve HV-8351A to 2" Pipe Weld	PT
		BG-09-FW789	Reactor Coolant Pump A Seal Water Injection Line 2" Tee to 2" Pipe Weld	PT UT
		BG-09-FW821	Reactor Coolant Pump B Seal Water Injection Line 2" Pipe to Valve HV-8351B Weld	PT
		BG-09-FW881	Reactor Coolant Pump A Seal Water Injection Line Valve V198 to 1 1/2" Pipe Weld	PT
		BG-09-FW882	Reactor Coolant Pump A Seal Water Injection Line 1 1/2" Pipe to Valve V198 Weld	PT
		BG-09-W686	Reactor Coolant Pump A Seal Water Injection Line 1 1/2" Pipe to 2" X 1 1/2" Reducer Weld	PT
		BG-09-W721	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" X 2" X 3/4" Tee Weld	PT UT
		BG-09-W722	Reactor Coolant Pump B Seal Water Injection Line 2" Pipe to 2" X 2" X 3/4" Tee Weld	PT UT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		BG-09-W779	Reactor Coolant Pump A Seal Water Injection Line 2" X 1 1/2" Reducer to 1 1/2" Pipe Weld	PT
		BG-09-W780	Reactor Coolant Pump A Seal Water Injection Line Orifice Flange FE-145 to 2" Pipe Weld	PT UT
		BG-09-W781	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to Orifice Flange FE-145 Weld	PT UT
		BG-09-W787	Reactor Coolant Pump A Seal Water Injection Line 2" Tee to 2" Pipe Weld	PT UT
		BG-09-W822 (BG-09-W882)	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" Pipe Weld	PT UT
		BG-09-W823	Reactor Coolant Pump B Seal Water Injection Line 2" Tee to 2" Pipe Weld	PT UT
		BG-09-W824	Reactor Coolant Pump B Seal Water Injection Line 2" Pipe to 2" Tee Weld	PT UT
		BG-09-W861	Reactor Coolant Pump A Seal Water Injection Line 2" X 1 1/2" Reducer to 2" Pipe Weld	PT UT
		BG-09-W867	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" X 1 1/2" Reducer Weld	PT UT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		BG-09-w874	Reactor Coolant Pump A Seal Water Injection Line 2" Pipe to 2" X 1" Reducer Weld	PT UT
		BG-22-FW303	Chemical and Volume Control Excess Let- down 3" Pipe to Flued Head (P-23) Weld	UT
		BG-22-S019-A	Chemical and Volume Control Excess Let- down Line 3" Elbow to 3" Pipe Weld	UT
		BG-22-S019-B	Control and Volume Control Excess Let- down Line 3" Pipe to 3" Elbow Weld	UT
		EM-01-F004	Steam Generator Blowdown Loop 1 Flued Head (P-10) to Valve V002 Weld	UT
		EM-01-F006	Steam Generator Blowdown Loop 1, 4" Pipe to Flued Head (P-10) Weld	UT
		EM-01-F017	Steam Generator Blowdown Loop 1, 4" Pipe to 4" Pipe Weld	UT
		EM-01-F018	Steam Generator Blowdown Loop 1, 4" Pipe to 4" Pipe Weld	UT
		EM-01-F019	Steam Generator Blowdown Loop 1 Valve HV-1 to 4" Pipe Weld	UT
		EM-01-F020	Steam Generator Blowdown Loop 1 4" Pipe to Valve HV-1 Weld	UT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		BM-01-F021	Steam Generator Blowdown Loop 1 Valve V002 to 4" Pipe Weld	UT
		BM-01-F027	Steam Generator Blowdown Loop 4 4" Pipe to Isolation Restraint Weld	UT
		BM-01-F029	Steam Generator Blowdown Loop 1 4" Pipe to Isolation Restraint Weld	UT
		BM-01-F030	Steam Generator Blowdown Loop 1 Isolation Restraint to 4" Pipe Weld	UT
		BM-01-FW305	Steam Generator Blowdown Loop 4 Isolation Restraint to 4" Pipe Weld	UT
		BM-01-FW306	Steam Generator Blowdown Loop 4 4" Pipe to 4" Pipe Weld	UT
		BM-01-S012-D	Steam Generator Blowdown Loop 1 4" Pipe to 4" Pipe Weld	UT
		BN-01-F007	Refueling Water Storage System Discharge Header 24" Elbow to 24" Pipe Weld	PT UT
		BN-01-F007-LD	Refueling Water Storage System Discharge Header Longitudinal Seam downstream of 24" Elbow to 24" Pipe Weld	PT UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		BN-01-F007-LUI	Refueling Water Storage System Discharge Header Longitudinal Inner Seam upstream of 24" Elbow to 24" Pipe Weld	PT UT
		BN-01-F007-LUO	Refueling Water Storage System Discharge Header Longitudinal Outer Seam upstream of 24" Elbow to 24" Pipe Weld	PT UT
		BN-01-F029	Refueling Water Storage System to Suction of Residual Heat Removal Pump B 14" Pipe to Valve HV-8812B Weld	PT UT
		BN-01-F029-LU	Refueling Water Storage System to Suction of Residual Heat Removal Pump B Longitudinal Seam upstream of 14" Pipe to Valve HV-8812B Weld	PT UT
		BN-01-FW311	Refueling water Storage System to Suction of Residual Heat Removal Pump B 14" Pipe to 14" Elbow Weld	PT UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		BN-01-FW311-LD	Refueling Water Storage System Discharge Header to Suction of Residual Heat Removal Pump B Longitudinal Seam downstream of 14" Pipe to 14" Elbow Weld	PT UT
		BN-01-FW311-LU	Refueling Water Storage System Discharge Header to Suction of Residual Heat Removal Pump B Longitudinal Seam upstream of 14" Pipe to 14" Elbow Weld	PT UT
		BN-01-S007-C	Refueling Water Storage System Discharge Header to 24" Elbow to 24" Pipe Weld	PT UT
		BN-01-S007-C-LDI	Refueling Water Storage System Discharge Header to Longitudinal downstream Inner Seam of 24" Elbow to 24" Pipe Weld	PT UT
		BN-01-S007-C-LDO	Refueling Water Storage System Discharge Header to Longitudinal downstream Outer Seam of 24" Elbow to 24" Pipe Weld	PT UT
		BN-01-S007-C-LU	Refueling Water Storage System Discharge Header to Longitudinal upstream of 24" Elbow to 24" Pipe Weld	PT UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		BN-01-S021-J	Refueling Water Storage System Discharge Header to Containment Spray Pump A 12" Elbow to 23" Pipe Weld	PT UT
		BN-01-S021-J-LD	Refueling Water Storage System Discharge Header to Containment Spray Pump A Longitudinal Seam downstream of 12" Pipe to 12" Elbow Weld	PT UT
		BN-01-S021-J-LU	Refueling Water Storage System Discharge Header to Containment Spray Pump A Longitudinal Seam upstream of 12" Pipe to 12" Elbow Weld	PT UT
		EM-01-S035-C	High Pressure Coolant Injection Pump Suction Line Crosstie 6" Elbow to 6" Pipe Weld	PT UT
		EM-01-S035-C-LD	High Pressure Coolant Injection Pump Suction Line Crosstie Longi- tudinal Seam downstream of 6" Elbow to 6" Pipe Weld	PT UT
		EM-01-S035-C-LU	High Pressure Coolant Injection Pump Suction Line Crosstie Longi- tudinal Seam upstream of 6" Elbow to 6" Pipe Weld	PT UT

<u>CODE CATEGORY</u>	<u>CODE ITEM</u>	<u>COMPONENT NUMBER</u>	<u>COMPONENT DESCRIPTION</u>	<u>TYPE OF EXAM</u>
		EM-01-S039-C	High Pressure Coolant Injection Pump Suction Crosstie 6" Pipe to 6" Elbow Weld	PT UT
		EM-01-S039-C-LD	High Pressure Coolant Injection Pump Suction Crosstie Longitudinal Seam downstream of 6" Pipe to 6" Elbow Weld	PT UT
		EM-01-S039-C-LU	High Pressure Coolant Injection Pump Suction Crosstie Longitudinal Seam upstream of 6" Pipe to 6" Elbow Weld	PT UT
		EM-01-S040-M	High Pressure Coolant Injection Pump Suction Crosstie 6" Pipe to 6" Elbow Weld	PT UT
		EM-01-S040-M-LD	High Pressure Coolant Injection Pump Suction Crosstie Longitudinal Seam downstream of 6" Pipe to 6" Elbow Weld	PT UT
		EM-01-S040-M-LU	High Pressure Coolant Injection Pump Suction Crosstie Longitudinal Seam upstream of 6" Pipe to 6" Elbow Weld	PT UT
		EN-01-F007	Containment Spray Pump A Suction Line Valve V002 to 12" Pipe Weld	PT UT
		EN-01-F007-LD	Containment Spray Pump A Suction Line Longitudinal Seam downstream of Valve V002 to 12" Pipe Weld	PT UT
		EN-01-FW303	Containment Spray Pump A Suction Line 12" Pipe to Valve V003 Weld	PT UT
		EN-01-FW303-LU	Containment Spray Pump A Suction Line Longitudinal Seam upstream of 12" Pipe to Valve V003 Weld	PT UT

<u>CODE</u> <u>CATEGORY</u>	<u>CODE</u> <u>ITEM</u>	<u>COMPONENT</u> <u>NUMBER</u>	<u>COMPONENT</u> <u>DESCRIPTION</u>	<u>TYPE OF</u> <u>EXAM</u>
		EN-01-S005-H	Containment Spray Pump A Suction Line 12" Tee to 14" X 12" Reducer Weld	PT UT
		EN-01-S005-H-LD	Containment Spray Pump A Suction Line Longitudinal Seam downstream of 12" Tee to 14" X 12" Reducer Weld	PT UT
		EN-01-S005-H-LU	Containment Spray Pump A Suction Line Longitudinal Seam upstream of 12" Tee to 14" X 12" Reducer Weld	PT UT
		FC-01-F021	Auxiliary Feedwater Pump Steam Inlet Line 4" Pipe to Valve Weld	UT
		FC-01-F022	Auxiliary Feedwater Pump Steam Inlet Valve to 4" Pipe Weld	UT
		FC-01-F023	Auxiliary Feedwater Pump Steam Inlet 4" Pipe to Valve Weld	UT
		FC-01-F024	Auxiliary Feedwater Pump Steam Inlet Valve to 4" Pipe Weld	UT
		FC-01-S018-B	Auxiliary Feedwater Pump Inlet 4" Pipe to 4" Elbow Weld	UT
		FC-01-S018-C	Auxiliary Feedwater Pump Inlet 4" Elbow to 4" Pipe Weld	UT
Augmented (Reg. Guide 1.14)		PBB01B-FLYWHEEL	Reactor Coolant Pump B Flywheel Bore and Keyway	UT
		PBB01D-FLYWHEEL	Reactor Coolant Pump D Flywheel Bore and Keyway	UT

SUPPORTS

58 supports selected for examination in the second refueling outage per the statistical sampling plan were examined.

The systems in which the supports were examined are:

<u>SYSTEM</u>	<u>NUMBER OF SUPPORTS</u> Refuel 2
Main Steam	2
Auxiliary Feedwater	2
Reactor Coolant	3
Chemical and Volume Control	7
Steam Generator Blowdown	1
Fuel Pool Cooling & Cleanup	2
Essential Service Water	11
Component Cooling Water	18
Residual Heat Removal	2
High Pressure Safety Injection	4
Containment Spray	1
Aux. Turbines	1
Emergency Fuel Oil	1
Standby Diesel Generator	3

A total of 137 of the Intervals 439 Supports required to be examined have been examined, per the Statistical Sampling Plan, up to the end of Refueling Outage 2.

The Systems in which the Supports were examined are:

<u>SYSTEM</u>	<u>NUMBER OF SUPPORTS</u> Interval 1
Main Steam	3
Main Feedwater	4
Auxiliary Feedwater	2
Reactor Coolant	16
Chemical and Volume Control	15
Steam Generator Blowdown	12
Fuel Pool Cooling and Cleanup	2
Essential Service Water	15
Component Cooling Water	32
Residual Heat Removal	3
High Pressure Safety Injection	11
Containment Spray	9
Accumulator Safety Injection	3
Auxiliary Turbines	1
Containment Coolers	3
Emergency Fuel Oil	1
Standby Diesel Generator	5

STEAM GENERATOR TUBING

None performed during this fuel cycle.

FORM NIS-1 (back)

8. Examination Dates 12-21-86 to 1-5-88 9. Inspection Interval from 9-3-85 to 9-2-95

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

See Examinations Section in the ISI Summary Report.

11. Abstract of Conditions Noted

See Results Section in the ISI Summary Report.

12. Abstract of Corrective Measures Recommended and Taken

See Results Section in the ISI Summary Report.

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

Date 3-31 19 88 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 Lumbermans Mutual of Long Grove, IL have inspected the components described in this Owners' Data Report during the period 12-21-86 to 1-5-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date APRIL 01 19 88
[Signature] Commissions KS 299
Inspector's Signature National Board, State, Province and No.

*Casualty Company

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
AB-01-H501-145	CORNER & LADA	1-AB01-H501/145Q	N/A	N/A
AB-01-H505-145	ITT GRINNELL	M1481, 1-AB01-H505/145Q	N/A	N/A
AB-01-H507-145	ITT GRINNELL	M1431, 1-AB01-H507/145Q	N/A	N/A
AB-01-R502-145	BERGEN PATTERSON	1-AB01-R502/145Q	N/A	N/A
AB-01-R506-145	BERGEN PATERSON	1-AB01-R506/145Q	N/A	N/A
AB-01-R514-145	BERGEN PATTERSON	1-AB01-R514/145Q	N/A	N/A
AB-01-R519-145	PACIFIC SCIENTIFIC	23241	N/A	N/A
AB-01-R522-145	PACIFIC SCIENTIFIC	23259	N/A	N/A
AE-04-F001	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F002	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F003	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F004	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F005	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F006	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F007	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F009	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F031	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F039	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-F042	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-FW312	DANIEL INTEP ^A TIONAL CORPORATION	N/A	N/A	N/A
AE-04-FW313	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-FW901	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-S004-A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-04-S022-B	PERMUTIT COMPANY	N1505	N/A	208
AE-04-S025-A	PULLMAN POWER PRODUCTS	1-AE-04-S025/145	N/A	N/A
AE-04-S025-B	PULLMAN POWER PRODUCTS	1-AE-04-S025/145	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
AE-04-S025-C	PULLMAN POWER PRODUCTS	1-AE-04-S025/145	N/A	N/A
AE-05-F031	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-05-F038	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AE-05-S004-A	PULLMAN POWER PRODUCTS	1-AE-05-S-004/145	N/A	N/A
AE-05-S026-A	PULLMAN POWER PRODUCTS	1-AE-05-S-026/145	N/A	N/A
AL-01-A001	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
AL-01-R006	BERGEN PATERSON	1-AL01-R006/135Q	N/A	N/A
AL-03-R010-135	ITT GRINNELL	H1730	N/A	N/A
AL-05-C002-125	BERGEN PATERSON	1-AL05-C002/125	N/A	N/A
BB-01-S101-4	SOUTHWEST FABRICATING & WELDING COMPANY	15579	N/A	N/A
BB-01-S201-8	SOUTHWEST FABRICATING & WELDING COMPANY	15583	N/A	N/A
BB-01-S202-4	SOUTHWEST FABRICATING & WELDING COMPANY	15584	N/A	N/A
BB-01-S301-9	SOUTHWEST FABRICATING & WELDING COMPANY	15587	N/A	N/A
BB-01-S302-6	SOUTHWEST FABRICATING & WELDING COMPANY	15588	N/A	N/A
BB-01-S401-10	SOUTHWEST FABRICATING & WELDING COMPANY	15591	N/A	N/A
BB-01-S401-3	SOUTHWEST FABRICATING & WELDING COMPANY	15591	N/A	N/A
BB-01-S401-5	SOUTHWEST FABRICATING & WELDING COMPANY	15591	N/A	N/A
BB-01-S402-5	SOUTHWEST FABRICATING & WELDING COMPANY	15592	N/A	N/A
BB-02-8010C-B	CROSBY VALVE & GAGE COMPANY	N60446-00-0003	N/A	539
BB-02-8010C-FL-B	CROSBY VALVE & GAGE COMPANY	N60446-00-0003	N/A	539
BB-02-F009	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-02-F012	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-02-F019	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-02-FW310	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-02-FW312	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-02-FW313A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
BB-02-FW317A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-02-FW318	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-02-FW322	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-02-HV-8000A-B	WESTINGHOUSE ELECTRO MECHANICAL DIVISION	03000GM88FNH,0D000W750005	N/A	W14628
BB-02-HV-8000B-B	WESTINGHOUSE ELECTRO MECHANICAL DIVISION	03000GM88FNH,0D000W750006	N/A	W15122
BB-02-S006-E	DRAVO CORPORATION	17899	N/A	N/A
BB-02-S010-H	DRAVO CORPORATION	17902	N/A	N/A
BB-02-S014-C	DRAVO CORPORATION	17904	N/A	N/A
BB-04-H008-261	BERGEN PATERSON	1-BB04-H008/261	N/A	N/A
BB-04-H009-261	BERGEN PATERSON	1-BB04-H009/261	N/A	N/A
BB-06-C008-232	DANIELS INTERNATIONAL CORPORTAION	N/A	N/A	N/A
BB-06-F001	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-F002	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-F004	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW300	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW500	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW506	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW507	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW508	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW513	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW514	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW548	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW551	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW552	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-FW563	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-06-S003-B	DRAVO CORPORATION	18735	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
BB-08-F002A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-FW306	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-FW359	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-FW500	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-FW501	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-FW509	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-FW543	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-V118-1	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-V118-2	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-V121-2	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W300	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W301	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W502	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W503	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W504	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W506	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W507	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W508	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-08-W541	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-09-A001-231	CORNER & LADA	1-BB09-A001/231Q	N/A	N/A
BB-09-FW304A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BB-11-F001	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-01-H006-112	CORNER & LADA	0-BG01-H006/112Q	N/A	N/A
BG-01-H009-132	CORNER & LADA	1-BG01-H009/132Q	N/A	N/A
BG-03-F001	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-03-F002	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
BG-03-FW312	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-03-FW313	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-03-FW314	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-03-S001-A	PULLMAN POWER PRODUCTS	1-BG-03-S-001/133	N/A	N/A
BG-03-S001-C	PULLMAN POWER PRODUCTS	1-BG-03-S-001/133	N/A	N/A
BG-03-S002-A	PULLMAN POWER PRODUCTS	1-BG-03-S-002/133	N/A	N/A
BG-03-S002-B	PULLMAN POWER PRODUCTS	1-BG-03-S-002/133	N/A	N/A
BG-04-C005-121	ITT GRINNELL	9629	N/A	N/A
BG-05-A003-132	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW310	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW324	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW339	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW340	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW352	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW360	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW784	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW789	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW821	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW881	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-FW882	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W696	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W721	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W722	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W779	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W780	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W781	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
BG-09-W787	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W822	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W823	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W824	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W861	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W867	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-09-W874	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-11-C006-123	ITT GRINNELL	A4851	N/A	N/A
BG-21-A001-242	BERGEN PATERSON	1-BG21-A001/242	N/A	N/A
BG-21-F011A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-21-F012	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-22-FW303	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-22-S019-A	PULLMAN POWER PRODUCTS	1-BG-22-S-019/231	N/A	N/A
BG-22-S019-B	PULLMAN POWER PRODUCTS	1-BG-22-S-019/231	N/A	N/A
BG-23-FW322	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-23-FW582	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-23-FW583	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BG-24-H001-261	BERGEN PATERSON	1-BG24-H001/261	N/A	N/A
BM-01-F004	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-F006	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-F017	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-F018	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-F019	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-F020	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-F021	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-F027	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
BM-01-F029	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-F030	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-FW305	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-FW306	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BM-01-S012-D	DRAVO CORPORATION	16967	N/A	N/A
BM-19-H503-252	CORNER & LADA	1-BM19-H503/252	N/A	N/A
BN-01-F007	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BN-01-F029	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BN-01-FW311	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
BN-01-S007-C	DRAVO CORPORATION	13428	N/A	N/A
BN-01-S021-J	DRAVO CORPORATION	13442	N/A	N/A
CH-STUD-21	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-STUD-41	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-1	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-11	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-12	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-17	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-19	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-2	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-20	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-26	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-49	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
CH-WASH-50	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
EBG01-SUPPORT-1	RICHMOND ENGINEERING COMPANY	N.2284.10	N/A	75455
EC-04-H011-611	CORNER & LADA	1-EC04-H011/611Q	N/A	N/A
EC-04-R018-611	CORNER & LADA	1-EC04-R018/611Q	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
EF-01-C002	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EF-01-C004	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EF-02-A005-112	BERGEN PATERSON	1-EF02-A005/112	N/A	N/A
EF-02-C003	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EF-02-C005	DANIEL INTERNATIONAL CORPCRATION	N/A	N/A	N/A
EF-02-C006	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EF-02-C007	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EF-03-A005-112	BERGEN PATERSON	1-EF03-A005/112	N/A	N/A
EF-03-H015-152	CORNER & LADA	1-EF03-H015/152Q	N/A	N/A
EF-04-C025-143	CORNER & LADA	0-EF04-C025/143Q	N/A	N/A
EF-06-A011-135	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EF-06-H011-135	CORNER & LADA	0-EF06-H011/135Q	N/A	N/A
EF-06-R029-135	CORNER & LADA	0-EF06-R029/135Q	N/A	N/A
EF-06-R032-135	CORNER & LADA	0-EF06-R032/135Q	N/A	N/A
EF-07-C003-311	ITT GRINNELL	8060	N/A	N/A
EF-08-C013-511	CORNER & LADA	1-EF08-C013/511Q	N/A	N/A
EF-14-H005-341	CORNER & LADA	0-EF14-H005/341Q	N/A	N/A
EG-01-R025-142	BERGEN PATERSON	1-EG01-R025/142	N/A	N/A
EG-02-A006-133	BERGEN PATERSON	1-EG18-A002/133	N/A	N/A
EG-04-C009-141	BERGEN PATERSON	1-EG04-C009/141	N/A	N/A
EG-04-R004-141	BERGEN PATERSON	1-EG04-R004/141Q	N/A	N/A
EG-05-A002-143	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EG-06-C006-131	BERGEN PATERSON	1-EG06-C006/131	N/A	N/A
EG-06-H002-131	BERGEN PATERSON	1-EG06-H002/131	N/A	N/A
EG-07-C043-112	BERGEN PATERSON	1-EG07-C043/112Q	N/A	N/A
EG-07-C044-112	BERGEN PATERSON	1-EG07-C044/112Q	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
EG-07-H013-134	BERGEN PATERSON	1-EG07-H013/134Q	N/A	N/A
EG-07-R028-134	BERGEN PATERSON	1-EG07-R028/134Q	N/A	N/A
EG-07-RC30-134	PACIFIC SCIENTIFIC	21515	N/A	N/A
EG-12-A004-232	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EG-14-A002-232	CORNER & LADA	1-EG14-A002/232	N/A	N/A
EG-14-A005-242	CORNER & LADA	1-EG14-A005/242Q	N/A	N/A
EG-16-A004-241	BERGEN PATERSON	1-EG16-A004/241	N/A	N/A
EG-16-C008-231	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EG-18-A001-611	BERGEN PATERSON	1-EG18-A001/133	N/A	N/A
EG-25-R503-111	CORNER & LADA	0-EG25-R503/111Q	N/A	N/A
EJ-01-F027	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-01-F045	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-01-S014-A	DRAVO CORPORATION	14185	N/A	N/A
EJ-01-S015-H	DRAVO CORPORATION	13587	N/A	N/A
EJ-01-S016-D	DRAVO CORPORATION	13588	N/A	N/A
EJ-01-S018-C	DRAVO CORPORATION	13590	N/A	N/A
EJ-01-S021-J	DRAVO CORPORATION	13593	N/A	N/A
EJ-01-S023-E	DRAVO CORPORATION	13595	N/A	N/A
EJ-03-C007-111	BERGEN PATERSON	1-EJ03-C007/111	N/A	N/A
EJ-03-R015-111	BERGEN PATERSON	1-EJ03-R015/111	N/A	N/A
EJ-04-A001	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-A002	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-F016	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-F024	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-F032	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-FW312	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
EJ-04-FW365	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-R004	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-R008	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-R009	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EJ-04-S006-D	DRAVO CORPORATION	16943	N/A	N/A
EJ-04-S009-D	DRAVO CORPORATION	16669	N/A	N/A
EJ-04-S009-F	DRAVO CORPORATION	16669	N/A	N/A
EJ-04-S011-C	DRAVO CORPORATION	16505	N/A	N/A
EJ-04-S014-D	DRAVO CORPORATION	16391	N/A	N/A
EJ-04-S015-C	DRAVO CORPORATION	16392	N/A	N/A
EJ-04-S026-C	DRAVO CORPORATION	16945	N/A	N/A
EJ-04-S026-F	DRAVO CORPORATION	16945	N/A	N/A
EKJ06A-SUP-1	AMERICAN STANDARD HEAT TRANSFER DIVISION	77A20004-09-1	N/A	33305
EKJ06A-SUP-2	AMERICAN STANDARD HEAT TRANSFER DIVISION	77A20004-09-1	N/A	33305
EM-01-C013-112	BERGEN PATERSON	1-EM01-C013/112	N/A	N/A
EM-01-C016-111	BERGEN PATERSON	1-EM01-C016/111	N/A	N/A
EM-01-S035-C	DRAVO CORPORATION	13674	N/A	N/A
EM-01-S039-C	DRAVO CORPORATION	13678	N/A	N/A
EM-01-S040-M	DRAVO CORPORATION	13679	N/A	N/A
EM-02-S009-C	DRAVO CORPORATION	13698	N/A	N/A
EM-03-A001-232	CORNER & LADA	M06-EM03-A001/232	N/A	N/A
EM-03-A005-231	BERGEN PATERSON	D015956,D015957,D015958	N/A	N/A
EM-03-BB040-1	BORG WARNER	27893	N/A	N/A
EM-03-FW549	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EM-05-F007	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EM-05-FW508A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
EM-05-FW523	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EM-05-FW532	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EM-05-FW576	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EM-05-R001-231	BERGEN PATERSON	1-EM05-R001/231	N/A	N/A
EM-05-S005-B	DRAVO CORPORATION	16401	N/A	N/A
EM-05-S006-B	DRAVO CORPORATION	15627	N/A	N/A
EM-05-W538	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EM-05-W539	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EM-05-W540	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EM-05-W542	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EN-01-F007	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EN-01-FW303	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EN-01-H005-112	BERGEN PATERSON	1-EN01-H005/112Q	N/A	N/A
EN-01-S005-H	PULLMAN POWER PRODUCTS	1-EN-01-S-005/112	N/A	N/A
EP-01-88180-B	WESTINGHOUSE ELECTRO MECHANICAL DIVISION	06001CS990000D-000W750019	N/A	W17573
EP-01-F001	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-F002A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-F007A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-F008A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-F019A	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-F020	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-FW302	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-FW303	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-FW509	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-01-R002-231	BERGEN PATERSON	1-EP01-R002/231Q	N/A	N/A
EP-01-R009	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
EP-01-S002-E	DRAVO CORPORATION	16419	N/A	N/A
EP-01-S003-E	DRAVO CORPORATION	16387	N/A	N/A
EP-01-S003-F	DRAVO CORPORATION	16387	N/A	N/A
01-S005-F	DRAVO CORPORATION	16421	N/A	N/A
EP-01-S011-J	DRAVO CORPORATION	16424	N/A	N/A
EP-01-W504	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-02-F007	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
EP-02-S006-C	DRAVO CORPORATION	17093	N/A	N/A
EP-02-S007-D	DRAVO CORPORATION	16142	N/A	N/A
FC-01-A001-135	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
FC-01-F021	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
FC-01-F022	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
FC-01-F023	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
FC-01-F024	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
FC-01-H001-135	ITT GRINNELL	A7930	N/A	N/A
FC-01-R003	BERGEN PATERSON	1-FC01-R003/135	N/A	N/A
FC-01-S018-B	DRAVO CORPORATION	23662	N/A	N/A
FC-01-S018-C	DRAVO CORPORATION	23662	N/A	N/A
GN-01-C016	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
JE-03-H001-511	BERGEN PATERSON	1-JE03-H001/511	N/A	N/A
K-EF11-A001	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
K-EF11-A501-022	ITT GRINNELL	B3791	N/A	N/A
K-EF11-C001-011	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
K-EF11-H007-011	BERGEN PATERSON	1-EF11-H007/011Q	N/A	N/A
KJ-01-C007	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A
KJ-01-C008	DANIEL INTERNATIONAL CORPORATION	N/A	N/A	N/A

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NUMBER	STATE OR PROVINCE NO	NATIONAL BOARD NO
KJ-01-R015	BERGEN PATERSON	1-KJ01-R015/511	N/A	N/A
OCRDML-01	SPEEDWAY MACHINE & TOOL COMPANY	1	N/A	9
OCRDML-02	SPEEDWAY MACHINE & TOOL COMPANY	2	N/A	9
PBB01B-FLYWHEEL	WESTINGHOUSE ELECTRIC CORPORATION	2-9744036G01	N/A	W26592
PBB01D-FLYWHEEL	WESTINGHOUSE ELECTRIC CORPORATION	4-9744036G01	N/A	W26594
PEF01A-03 022	BYRON JACKSON PUMP DIVISION	761-N-1029	N/A	N/A
PEJ01A-01 112	PACIFIC PUMP DIVISION	51744	N/A	332
PEJ01A-02 112	PACIFIC PUMP DIVISION	51744	N/A	332
PEJ01A-03 112	PACIFIC PUMP DIVISION	51744	N/A	332
PEJ01A-04 112	PACIFIC PUMP DIVISION	51744	N/A	332
PEJ01A-SUP-1	PACIFIC PUMP DIVISION	51744	N/A	332
RV-101-121	COMBUSTION ENGINEERING INCORPORATED	11373	N/A	22244
TBB03-SKIRT-W	WESTINGHOUSE ELECTRIC CORPORATION	2281	N/A	W-20688
TEM01-01 114	SOUTHWEST FABRICATING & WELDING COMPANY	0047	N/A	366
TEM01-SUPPORT-1	SOUTHWEST FABRICATING & WELDING COMPANY	0047	N/A	366
TEM01-SUPPORT-2	SOUTHWEST FABRICATING & WELDING COMPANY	0047	N/A	366
TEM01-SUPPORT-3	SOUTHWEST FABRICATING & WELDING COMPANY	0047	N/A	366
TEM01-SUPPORT-4	SOUTHWEST FABRICATING & WELDING COMPANY	0047	N/A	366

REPAIR/REPLACEMENT SUMMARY INDEX

The following table summarizes the repairs and replacements that were performed on Code Stamped Components following the Code Stamping.

Snubber replacements were performed as a result of preventative maintenance activities.

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
AE120, 121 & 122	SG A, B & D Feedwater Inlet Check Valves	Repair & Modification	Drill hinge pin covers for Furmanite injection and install hinge pin cover encapsulations	RR 85-139
TJE01A & B	Emergency Fuel Oil Storage Tanks	Modification	Modify manway cover and sample lines	RR 86-001
EF05-S007/141 EF05-R005/141 EF05-R004/141	Bypass Loop to CCW HX "B" and Supports	Repair & Replacement	Internal weld overlay to restore minimum wall thickness. Replace support sway strut. Removed & replaced part of support by welding. See RR 87-051 & RR 87-079 for additional work.	RR 86-010
KAV039	Reactor Building Service Air Supply Header Check Valve	Modification	Install anti-rotation pin in valve disc	RR 86-025
KCV478	Reactor Building Fire Protection Inside Containment Check Valve	Modification	Install anti-rotation pin in valve disc	RR 86-026
SJV053	RCS/Pressurizer Liquid Sample Line Inside Containment Manual Iso.	Replacement	Replace valve due to LIRT failure	RR 86-027
EPLT-950,951,952, 953, 954, 955, 956, 957	Accumulator Safety Injection Tank Level Transmitters	Replacement	Replace piping and bolting from new level transmitters to first flange connection	RR 86-044
PSA 1/2 S/N 7993	Spare Snubber	Replacement	Rebuild snubber	RR 86-045
PSA 1/4 S/N 9444	Spare Snubber	Replacement	Rebuild snubber	RR 86-046
PSA 1/4 S/N 29444	Spare Snubber	Replacement	Rebuild snubber	RR 86-047

* Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
PSA 1/4 S/N 9423	Spare Snubber	Replacement	Rebuild snubber	RR 86-048
PSA 1/4 S/N 9576	Spare Snubber	Replacement	Rebuild snubber	RR 86-049
GL-321-HBC-1/2 GL-327-HBC-1/2 GL-328-HBC-1/2 GL-330-HBC-1/2	Auxiliary Building Cooler 9B, 12A, 12B & 15B Drain Lines	Modification	Modify drainlines	RR 86-052
EC04-S019/611 EC04-S026/611	Fuel Pool Cooling Pumps A & B Inlet Pipe Spools	Replacement	Replace flange bolting	RR 86-064 **
RBB11 RX Vent Pipe Support	CRDM Cooling Shroud	Replacement	Replace bolting material	RR 86-068
ALV010 1-AL01-C505/125	Turbine Driven Aux. Feedwater Pump ESW train 'A' suction line drain valve and support	Modification	Relocate drain valve and add new support	RP 86-069
GLV131	CCP Room Cooler 12A ESW Supply Drain Valve	Replacement	Replace valve	RR 87-001
M18KJ02-C503/511 Q M18KJ02-C504/511 Q	Diesel Generator Starting Air Tanks 2A & 2B Blowdown Line Supports	Replacement	Welded non-safety hangers to ASME supports	RR 87-003
GK-296-HBC-1/2 GK-298-HBC-1/2 GKV052	Elec. Equip. Room A/C Unit 5A ESW Inlet Water Box Drain Valve, Drainline and Vent Line	Replacement	Replace drain & vent lines & drain valve	RR 87-005

* Documentation Pending

** NIS-2 Form will not be signed until final replacement activities are complete

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
PSA 1/2 S/N 6526	Spare Snubber	Replacement	Rebuild snubber	RR 87-007
PSA 1/2 S/N 6587	Spare Snubber	Replacement	Rebuild snubber	RR 87-008
EG01-S002/142	RHR HX "A" CCW Outlet Iso. Downstream Spool	Repair	Restore minimum wall thickness by weld overlaying outside of pipe spool	RR 87-010
ABV004	SB "D" PT-546 Isolation	Replacement	Replace valve	RR 87-011
ABV038	SG "B" PT-525 Isolation	Replacement	Replace valve	RR 87-012
FCST001	AFWP Turbine Steam Header Drain Steam Trap	Repair	Repair sealing surfaces by machining	RR 87-013
BGPI118	CCP "A" Outlet Pressure Indicator	Replacement	Replace instrument valve manifold	RR 87-014
AEV131	SG "C" Chemical Injection Line Isolation	Repair	Drill holes in valve to allow Furmanite injection	RR 87-015
ABPV003	SG "C" Atmospheric Relief Valve	Repair & Replacement	Skim cut main plug, machine galled area on bonnet, replace aux. plug, 2 studs & 8 nuts	RR 87-016
PSA 1/2 S/N 17812	Spare Snubber	Replacement	Rebuild snubber	RR 87-017

* Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EF03-S005/142	Bypass Loop to CCW HX "A"	Repair	Restore minimum wall thickness by weld overlaying outside of pipe spool	RR 87-018
AB020	SG "A" FT-512 HP Isolation	Repair	Drill holes in valve to allow Furmanite injection	RR 87-019
AB01-C011/145	SG "C" Atmospheric Relief Valve Supply Line Support	Replacement	Replace snubber	RR 87-020
AB01-R027/252	SG "C" Steam Line Support	Replacement	Replace snubber	RR 87-021
AE08-R530/145	Main Steam Loop 4 Low Point Drain Valve Support	Replacement	Replace snubber	RR 87-022
AE05-R011/242	SG "C" Feedwater Inlet Line Support	Replacement	Replace snubber	RR 87-023
AE05-R015/145	SG "D" Feedwater Iso. Valve Support	Replacement	Replace snubber	RR 87-024
BB01-R002/231	Pressurizer to Loop 4 Hot Leg Pipe Support	Replacement	Replace snubber and pin	RR 87-025
BB06-R008/232	RCS Loop 2 Combined Rad Return	Replacement	Replace snubber	RR 87-026

* Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BB09-R512/232	RCP 'C' Sealwater Outlet Iso. Valve Support	Replacement	Replace snubber	RR 87-027
BG01-R008/112	SBG05 Discharge Pulsation Dampener Support	Replacement	Replace snubber	RR 87-028
BG02-R004/112	CCP A & B Discharge Header Support	Replacement	Replace snubber	RR 87-029
BG03-R008/113	CVCS Letdown to Letdown Heat Exchanger Inlet Support	Replacement	Replace snubber	RR 87-030
BG17-R518/122	Boric Acid Tank 'B' Inlet Supply Line Support	Replacement	Replace snubber	RR 87-031
BG21-R006/232	CVCS Alternate Charging to RCS Loop 4 Cold Leg Pipe Support	Replacement	Replace snubber	RR 87-032
BM01-C023/231	SG 'D' Blowdown Line to Inside Containment Iso. Valve Support	Replacement	Replace snubber	RR 87-033
BM17-R506/231	SG 'A' Sample/Blowdown Cross-connect Line Pipe Support	Replacement	Replace snubber	RR 87-034
BM19-R505/252	SG 'C' Sample/Blowdown Cross-connect Line Pipe Support	Replacement	Replace snubber	RR 87-035

*Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BM20-R507/231	SG 'D' Sample/Blowdown Cross-connect Line Pipe Support	Replacement	Replace snubber	RR 87-036
BN01-R010/123	RWST to Refuel Pool Iso Valve Support	Replacement	Replace snubber	RR 87-037
EF02-R019/144	Penetration Room Cooler 'A' Supply Line Support	Replacement	Replace snubber	RR 87-038
EG11-R005/231	RCP Thermal Barrier CCW Return Line Support	Replacement	Replace snubber	RR 87-039
EM04-R002/231	SI Pump to Accumulator Injection Cold Leg 1 Throttle Valve Support	Replacement	Replace snubber	RR 87-040
EM05-R006/231	SI to Loop 4 Check Valve Support	Replacement	Replace snubber	RR 87-041
EM11-R508/231	Boron Injection Upstream Test Line Iso. Valve Support	Replacement	Replace snubber	RR 87-042
EM12-R025/231	Accumulator Tank 'A' Test Line Iso. Valve Support	Replacement	Replace snubber	RR 87-043
EP05-R502/231	Accumulator Tank 'B' Fill Line Iso. Valve Support	Replacement	Replace snubber	RR 87-044

* Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EP06-R508/242	Accumulator Tank 'C' N2 Supply Iso. Valve Support	Replacement	Replace snubber	RR 87-045
EJ01-R030/132	RHR HX 'A' Supply Line Support	Replacement	Replace snubber	RR 87-046
EJ04-C021/231	RCS Hot Leg 1 to RHR Pump 'A' Pipe Support	Replacement	Replace snubber	RR 87-047
EJ02-R038/123	RHR/SI Hot Leg Recirculation Line Support	Replacement	Replace snubber	RR 87-048
FC01-R001/135	Aux. Feedwater Pump Turbine Exhaust Line Support	Replacement	Replace snubber	RR 87-049
JE03-R005/521	Emergency Fuel Oil Day Tank 'B' Standpipe Support	Replacement	Replace snubber	RR 87-050
EF05-S007/141	Bypass Loop to CCW HX 'B'	Repair	Install weld metal overlay on outside of flange and reducer to restore minimum wall. See RR 86-010 & RR 87-079 also.	RR 87-051
EJ-FE-611	RHR Pump 'B' Outlet Flow Element	Replacement	Replace Flange Bolts & Studs	RR 87-052
ABPV001	SG 'A' Atmospheric Relief Valve	Repair & Replacement	Repair steam cut surfaces and replace plug, aux. plug, body studs and nuts	RR 87-053

* Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EFV345 EFV346	Instrument and Service Air Compressor 'A' & 'B' Cooling Water Outlet Piping Check Valve Iso.	Modification	Add new isolation valves to system	RR 87-054
BBV099, BBV102 BBV108	Pressurizer Level Transmitter/ Pressure Transmitter Upper Iso.	Modification	Install new type valves	RR 87-056
AEV128, 129, 130 and 131	S/G A-D Chemical Injection Line Isolation	Modification	Install new type valve	RR 87-057
BGFCV0121	Centrifugal Charging Pump Flow Control Valve	Modification	Install new anti-cavitation plug assembly	RR 87-058
SGN01A, SGN01B, SGN01C, SGN01D	Containment Coolers A-D	Modification	Install vent valves on cooling coils	RR 87-059
BB8379A BB8379B	CVCS Alternate Charging to Loop 4 Check Valve	Modification	Install bonnet seal caps	RR 87-060
EKJ06A	Emergency Diesel Generator 'A' Jacket Water Heat Exchanger	Replacement	Rebuild tube bundle and install in heat exchanger	RR 87-063
TEJ01A TEJ01B	RHR Isolation Valve Encapsulation	Replacement	Replace bolting material	RR 87-064

* Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
TEN02A TEN02B	Containment Spray Iso. Valve Encapsulation	Replacement	Replace bolting material	RR 87-065
EF03-S060/134	ESW 'A' from Containment Air Coolers Isolation Valve Bypass Line	Modification	Replace spool with stainless steel material	RR 87-067
EFHV048	ESW 'B' from Containment Air Coolers Bypass	Replacement	Replace retaining ring	RR 87-072
EF05-S050/133	ESW 'B' from Containment Air Coolers Isolation Valve Bypass Line	Modification	Replace part of pipe spool with stainless steel material	RR 87-073
BBPCV455B	RCS Loop I Pressurizer Spray Valve	Replacement	Replaced packing box with undocumented material. Relief request submitted 3/22/88 to allow replacement at first available outage.	RR 87-074 **
ABFT513 J14AB08	S/G 'A' Flow Transmitter Support	Modification	Add RTD support to existing support	RR 87-076
AELT551 J14AE32	S/G 'A' Level Transmitter Support	Modification	Add RTD support to existing support	RR 87-077
EFV090	CCW HX 'B' ESW 'B' Return HV-60 Bypass Iso.	Repair	Repair cavitation damage to retaining ring	RR 87-078
EF05-S007/141	HV-60 Bypass Loop from CCW HX 'B'	Repair & Modification	Repair cavitation damage to 24" tee, hardsurface overlay repaired area & replace 24"x16" reducer & 16" flange with stainless steel material. See RR 86-010 & RR 87-051 also.	RR 87-079

* Documentation Pending

** NIS-2 Form will not be signed until final replacement activities are complete

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
EF03-S005/142	Bypass Loop to CCW HX 'A'	Repair & Modification	Repair cavitation damage to 24" tee, hardsurface overlay repaired area & replace 24"x16" reducer & 16" flange with stainless steel material. See RR 87-018 also.	RR 87-081
ABFT533 J04AB13	S/G 'C' Flow Transmitter Support	Modification	Add RTD support to existing support	RR 87-082
BBPT152 J14BB54	RCP 'B' Seal 'I' Delta P Instrument Support	Modification	Add RTD support to existing support	RR 87-083
BBPCV455A	Pressurizer Power Operated Relief Valve	Replacement	Replace valve plug	RR 87-084
J04AE10 Item 1	S/G 'C' Feedwater Inlet Flow Transmitter Tubing Adapter at AEV110	Replacement	Replace pipe to tubing adapter welded to AEV110	RR 87-086
EKJ06B	Emergency Diesel Generator 'B' Jacket Water Heat Exchanger	Replacement	Replace heat exchanger tube bundle	RR 87-087
BB8010B	Pressurizer Safety Valve 'B'	Replacement	Replace valve	RR 87-088
BGV201	RCP 'D' Seal Water Injection Throttle Valve	Replacement	Replace valve	RR 87-089

* Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
SGN01A	Containment Cooler 'A'	Repair	Cut and cap leaking tube in cooling coil and rebraze several other fittings	RR 87-090 *
TEM01	Boron Injection Tank	Repair	Remove ISI PT indications by grinding	RR 87-091
J04KJ01Q FW-016(16) J04KJ01Q FW-018(16)	Tubing Supports on Each Side of KJ-PI-198A	Replacement	Remove & replace unistrut tubing support	RR 87-092
TBB03	Pressurizer	Repair	Prepare inner skirt weld for ISI exam	RR 87-093
BM-30-DBB-2"	S/G 'C' Blowdown Line Drain Line	Replacement	Remove & reinstall pipe spool	RR 87-098
BBB010C	Pressurizer Safety Valve 'C'	Replacement	Replace valve	RR 87-099
J04KJ01Q FW-010(16) J04KJ01Q FW-012(16)	Tubing Supports on each side of KJ-PI-98A	Replacement	Remove & replace tubing supports with new material	RR 87-100
BGV001	Letdown Orifice 'C' Outlet Throttle Valve	Replacement	Replace valve	RR 87-101

* Documentation Pending

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BGV002	Letdown Orifice 'B' Outlet Throttle Valve	Replacement	Replace valve	RR 87-102
BGV003	Letdown Orifice 'A' Outlet Throttle Valve	Replacement	Replace valve	RR 87-103
EC01-S002/142	RHR HX 'A' CCW Outlet Iso. Downstream Spool	Repair	Remove surface defects in vendor weld	RR 87-104
AB01-H501/145	SG 'C' MSIV Bypass Line Support	Repair	Shorten spring can load flange rod	RR 87-105
ABPV004	SG 'D' Atmospheric Relief Valve	Repair & Replacement	Repair steam cuts and replace main plug	RR 87-106
EFHV033	ESW 'A' to Containment Air Coolers	Replacement	Replace retaining ring	RR 87-107
BGV200	RCP 'C' Seal Water Injection Throttle Valve	Replacement	Replaced stem-disc assembly with improperly documented material. Relief request submitted 3/22/88 to allow replacement at first available outage.	RR 87-108 **
KC0111-S019	Essential Service Water Train 'B' Pipe Spool Downstream of EFV265	Repair	Repair hole in pipe spool	RR 87-109
SJ01-C525/231	RCS/Pressurizer Liquid Sample Line Inside Containment Iso. Valve Support	Replacement	Replace 4 bolts, nuts & jam nuts on PG12 assembly	RR 87-110
ABPV002	SG 'B' Atmospheric Relief Valve	Repair & Replacement	Repair steam cuts & replace auxiliary plug, main plug, 2 studs and 2 nuts	RR 87-111

* Documentation Pending

** NIS-2 Form will not be signed until final replacement activities are complete

<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>TYPE</u>	<u>DESCRIPTION</u>	<u>DOCUMENTATION</u>
BB8010A	Pressurizer Safety Valve 'A'	Replacement	Replace valve	RR 87-112 *
BBO2-R012/261	Pipe Support for Pressurizer Outlet Line to P.O.R.V.'s	Replacement	Replace snubber extension tube assembly	RR 87-113
EF03-S016/124 EF03-S017/134	ESW 'A' from Containment Air Coolers Isolation Valve Downstream Pipe Spool	Replacement	Replaced flange bolting and cut and fit-up spool welds to correct mis-alignment	RR 87-114
EJ-062-ECB-3/4"	RHR to Accumulator Inj. Discharge Loops 3 & 4 Relief Valve Inlet	Replacement	Replaced pipe and flange	RR 87-115
RBB01	Reactor Vessel	Repair	Chase Threads on Stud Hole #41, removed upset metal on studs #21 and #41	RR 87-116
ABV216	Loop 4 MSIV Bypass Valve Outlet Iso.	Replacement	Replace stem-disc assembly	RR 87-117
EP8818D	RHR to Accumulator Injection Line Check Valve (Loop 4)	Replacement	Replace disc assembly	RR 87-118
SJHV012	Pressurizer Vapor Sample Inner Containment Iso.	Replacement	Replace valve	RR 87-119
EP8818A	RHR Pump to Accumulator Injection Line Check Valve (Loop 1)	Replacement	Replace disc assembly	RR 87-120
SJHV130	Pressurizer/RCS Liquid Sample Outer Containment Iso. Bypass	Replacement	Replace valve	RR 87-121
BB06-C008/232	RCS Loop #2 RTD Inlet Isolation Valve Support	Replacement	Replace 2 studs and 8 nuts	RR 87-122
J14BB02(Q) Item 110	2 Welded Pipe to Tubing Adapters Immediately Downstream of BBHV8016B	Replacement	Replace two (2) pipe to tubing adapters	RR 87-124

* Documentation Pending