

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION UNIT 2

INSERVICE INSPECTION PROGRAM

INTERVAL 2

MAY 01, 1983 - MAY 01, 1993

REVISION 1

VIRGINIA ELECTRIC AND POWER COMPANY
 SURRY POWER STATION UNIT 2
 INSERVICE INSPECTION PROGRAM
 INTERVAL 2
 MAY 01, 1983 - MAY 01, 1993
 REVISION 1

DISTRIBUTION RECORD

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19	_____	_____	39	_____	_____
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ABSTRACT
VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNIT 2
INTERVAL 2
MAY 01, 1983 TO MAY 01, 1993

In accordance with 10CFR50.55a Surry Unit 2 was updated to ASME Section XI, 1980 Edition with Addenda through Winter 1980. Steam generator inspections will continue to be inspected under Plant Technical Specifications. Specific reliefs are requested in accordance with 10CFR50.55a(g)(5)(iii).

The interval for which this program is applicable commenced on May 01, 1983, and will end on May 01, 1993.

The ISI Program was developed employing 10CFR50 and Reg. Guide 1.26. Quality Groups A, B, and C are the same as ASME Classes 1, 2, and 3 respectively.

The list of drawings on the following pages identifies the drawings used in developing the program.

Section 1 introduces the Inservice Inspection Program.

Section 2 describes the Class 1, 2, and 3 component Inservice Inspection Program developed in accordance with Subsections IWB, IWC, and IWD of ASME Section XI.

Section 3 describes the Inservice Inspection Program for component supports.

Section 4 describes the Class 1, 2, and 3 pump and valve Inservice Test Program developed in accordance with Subsection IWP and IWV of ASME Section XI.

Section 5 describes the Inservice System Pressure Test Program.

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE PAGE</u>	<u>REVISION</u>
i	Assignment	
ii	Distribution Record	
iii	Abstract	
iv	Table of Contents	
v	List of Drawings	
1	Introduction	
2	Inservice Inspection Program for Components	
3	Inservice Inspection Program for Component Supports	
4	Inservice Testing Program Plan for Pumps and Valves	
5	System Pressure Tests Program Plan	

LIST OF DRAWINGS

UNIT 2

FB DRAWINGS

11448-FB-4B	Fuel Oil Lines
11548-FB-6A	Air Cooling and Purging
11448-FB-46B	Emergency Diesel Generator #2
11448-FB-47B	Fire Protection

UNIT 2

FM DRAWINGS

11548-FM-64A	Main Steam
11548-FM-64B	Steam Generator Nitrogen Connection
11548-FM-66A	Auxiliary Steam and Air Removal
11548-FM-68A	Feedwater
11548-FM-68B	Cross-connect Auxiliary Feedwater
11548-FM-71A	Circulating and Service Water
11548-FM-71B	Circulating and Service Water
11548-FM-72A	Component Cooling
11548-FM-72B	Component Cooling
11548-FM-72C	Component Cooling
11448-FM-72D	Component Cooling
11448-FM-72E	Component Cooling
11448-FM-72F	Component Cooling
11448-FM-72G	Component Cooling
11548-FM-75C	Compressed Air System
11548-FM-75E	Compressed Air System
11448-FM-75G	Compressed Air System

LIST OF DRAWINGS CONT.

UNIT 2

FM DRAWINGS

11548-FM-75J	Containment Instrument Air
11548-FM-82A	Sampling System
11548-FM-83A	Vent and Drains
11548-FM-83B	Vent and Drains
11548-FM-84A	Containment Spray
11548-FM-84B	Recirculation Spray
11548-FM-85A	Containment Vacuum and Leakage Monitoring
11548-FM-86A	Reactor Coolant
11548-FM-86B	Reactor Coolant
11548-FM-87A	Residual Heat Removal
11548-FM-88A	Chemical and Volume Control
11548-FM-88B	Chemical and Volume Control
11548-FM-88C	Chemical and Volume Control
11548-FM-89A	Safety Injection
11548-FM-89B	Safety Injection
11448-FM-90A	Gaseous Waste System
11448-FM-90C	Gaseous Waste System
11448-FM-118A	Reactor Cavity Purification
11548-FM-123A	Chemical Feed
11548-FM-124A	Steam Generator Blowdown
11448-FM-130A	Radiation Monitor Circ. and Service Water
11548-FM-138A	Steam Generator Recirculation and Transfer

UNIT 2

SPS DRAWINGS

11448-SPS-14A	Containment Particulate
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VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

UNIT 2

INSERVICE INSPECTION
AND
INSERVICE TESTING PROGRAM

1.0 INTRODUCTION

1.1 GENERAL INFORMATION

Surry Power Station Unit 2 is a Pressurized Water Reactor located on Gravel Neck and adjacent to the James River in Surry County, Virginia. The plant employs a Westinghouse Electric Corp. Nuclear Steam System.

The Inservice Inspection (ISI) and Inservice Testing (IST) Programs for Surry Nuclear Power Station Unit 2 are developed in compliance with the rules and regulations of 10CFR50.55a and Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition including the Addenda through Winter 1980. Where these rules are determined to be impractical, specific relief is requested in writing.

The Inservice Inspection and Testing Program for Class 1, 2, and 3 Components, Components Supports, Pumps, and Valves are applicable for the ten year interval beginning May 01, 1983 and ending May 01, 1993. The present ten year interval is the second inspection interval for Surry Unit 2.

1.2 SYSTEM CLASSIFICATION

The construction permits for Surry Units 1 and 2 were issued on June 25, 1968. At that time the ASME Boiler and Pressure Vessel Code covered only nuclear vessels. Piping, pumps, and valves were built primarily to the rules of USAS B31.1.0, therefore, the station has essentially no ASME Code Class 1, 2, or 3 designed systems. The system classifications used as a basis for the Inservice Inspection and Testing Programs are based on the requirements set forth in 10CFR50 and Regulatory Guide 1.26. Pursuant to 10CFR50.55a paragraph (g)(1), inservice inspection requirements of Section XI of the ASME Code are then assigned to these components, within the constraints of existing plant design.

Flow diagrams (FM's) documenting the system classifications were developed to aid in the review and implementation of the subject programs.

Descriptions of changes between Revision 0 and Revision 1 for the Surry Unit 2 Inservice Inspection Program for Components are provided below. The page numbers refer to the Revision 1.

<u>Page</u>	<u>Description of Change</u>
1	Item Descriptions were changed to better reflect the descriptions given by the Code. These changes occur throughout the document.
1	The flow diagram reference number (11715) was changed to read (11548). This change occurs throughout the document.
1	The vessel number, given in the column entitled "Line Number", was changed from RPRV to 2RCR1. This change was applied to all of the occurrences of RPRV.
1	Also note that the unit designator "2" was added to the vessel number. The unit designator "2" was added to every vessel and pump number which did not have a unit designator in Revision 0.
3	Item Number B1.21 was changed to B1.21T for "Top Head" weld.
6	The vessel number unit designator in the column entitled "Line Number" was changed from "1" to "2". This change was applied to all of the occurrences of vessel or pump numbers with "1" as the unit designator in Revision 0.
6	The Relief Request number was changed to a 3 digit number (ie. SR-5 is now SR-005). This change occurs throughout the document.
7	Relief Request SR-005 was added.
11	Item Number B3.120 was added to the program.
12	Item Number B3.140 was added to the program. Item Number B3.150 was deleted from the program.
16	Exam method was changed to volumetric only and Relief Request SR-006 was added.
18	Surface exam added to Line Number RC305-2501R, and Relief Request SR-006 was added.
27	Relief Request SR-011 was added.
41	Line Number SII81-1502 was changed to SI281-1502.

<u>Page</u>	<u>Description of Change</u>
43	Item Number B8.10 "Reactor Vessel Integrally Welded Attachments" was moved from Item Number B8.20.
52	Flow Diagrams and Coordinates were changed to reflect the proper FM. This change has occurred throughout the document. Relief Request SR-009 was added.
57	Line Number SI247-1502 for Item Number B9.31 was changed to RC324-1502 and Relief Request SR-003 was added.
59, 60, & 61	The following Line Numbers were changed from Item Number B9.31 to B9.32: CH301-1502 RC353-1502 RC416-1502 RC431-1502 RC447-1502
64	The Flow Diagram Coordinate was changed from A8 to A-8 for Line Number RC412-1502.
66	The Flow Diagram Coordinate was changed from E1 to E-1 for Line Number SI280-1502.
68, 69, 70, & 71	The following Line Numbers were added to Item Number B10.10: CH426-152 CH515-152 RC320-602 RC336-602 RC337-1502 RC338-1502 RC339-1502 RC340-602 RC362-602 RC322-1502 RH116-1502
88	Line Number CH11-1502 was changed to CH411-1502.
98	Line Number RC447-1502 was changed from RC477-1502. This change occurs throughout the document.
101 & 118	Flow Diagram Coordinate was changed from 2-5 to I-5 for Line Number RC361-1502.
123 & 125	Relief Request SR-009 has been added to Line Number 2CHFL3. Line Numbers CHTK2 and CHE3 have been deleted from Item Number C1.10.
125	Line Number 2CHE3 was added to Item Number C1.20.

Page

Description of Change

	Item Numbers C2.10 and C2.20 have been deleted from the program.																														
128, 129 & 130	Item Numbers C2.21 and C2.22 were added to program.																														
132, 133, 134 135 & 136	The following Line Numbers were added to Item Number C3.40: <table border="0"><tr><td>CC15-121</td><td>CS122-153</td></tr><tr><td>CC173-151</td><td>CS123-153</td></tr><tr><td>CH181-151</td><td>CS133-153</td></tr><tr><td>CH301-1502</td><td>CS134-153</td></tr><tr><td>CH505-152</td><td>CS188-153</td></tr><tr><td>SI317-152</td><td>CV108-151</td></tr><tr><td>SI318-152</td><td>DG202-152</td></tr><tr><td>SI319-152</td><td>DG237-152</td></tr><tr><td>SI372-152</td><td>RH115-152</td></tr><tr><td>CH315-1502</td><td>RH120-152</td></tr><tr><td>CH365-152</td><td>RS103-153</td></tr><tr><td>CS101-153</td><td>RS111-153</td></tr><tr><td>CS102-153</td><td>RS115-153</td></tr><tr><td>CS103-153</td><td>SI170-153</td></tr><tr><td>CS104-153</td><td>SI279-1502</td></tr></table>	CC15-121	CS122-153	CC173-151	CS123-153	CH181-151	CS133-153	CH301-1502	CS134-153	CH505-152	CS188-153	SI317-152	CV108-151	SI318-152	DG202-152	SI319-152	DG237-152	SI372-152	RH115-152	CH315-1502	RH120-152	CH365-152	RS103-153	CS101-153	RS111-153	CS102-153	RS115-153	CS103-153	SI170-153	CS104-153	SI279-1502
CC15-121	CS122-153																														
CC173-151	CS123-153																														
CH181-151	CS133-153																														
CH301-1502	CS134-153																														
CH505-152	CS188-153																														
SI317-152	CV108-151																														
SI318-152	DG202-152																														
SI319-152	DG237-152																														
SI372-152	RH115-152																														
CH315-1502	RH120-152																														
CH365-152	RS103-153																														
CS101-153	RS111-153																														
CS102-153	RS115-153																														
CS103-153	SI170-153																														
CS104-153	SI279-1502																														
139	Line Number SDHV4-601 was changed to SDHV104.																														
169	Line Number RH2-602 was changed to RH102-602. This change occurs throughout the document.																														
176	Line Number SI90-1503 was changed to SI290-1503. This change occurs throughout the document.																														
222 thru 249	Item Number D1.10 was replaced by Item Numbers D1.10H and D1.10S. The following line numbers were deleted from replaced Item Numbers D1.10H and D1.10S: <table border="0"><tr><td>CC14-121</td></tr><tr><td>CC15-121</td></tr><tr><td>CC7-121</td></tr><tr><td>CC9-121</td></tr></table>	CC14-121	CC15-121	CC7-121	CC9-121																										
CC14-121																															
CC15-121																															
CC7-121																															
CC9-121																															
231 & 245	Line Number WAPD106-60 was changed to WAPD106-601.																														
234 & 248	Line Number WEMU109-151 was changed to WCMU109-151.																														
250 thru 259	Item Number D2.10 was replaced by Item Numbers D2.10H and D2.10S.																														
260 & 261	Item Number D2.20 was added to the program.																														

<u>Page</u>	<u>Description of Change</u>
2-14	Relief Request SR-006 was added to the Program Submittal.
2-15 & 2-16	Relief Request SR-007 was added to the Program Submittal.
2-17	Relief Request SR-008 was added to the Program Submittal.
2-18	Relief Request SR-009 was added to the Program Submittal.
2-19	Relief Request SR-010 was added to the Program Submittal.
2-20	Relief Request SR-011 was added to the Program Submittal.
2-21	Relief Request SR-012 was added to the Program Submittal.
2-22	Relief Request SR-013 was added to the Program Submittal.
2-23	Relief Request SR-014 was added to the Program Submittal.

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

UNIT 2

INSERVICE INSPECTION PROGRAM FOR COMPONENTS

SECTION 2
TABLE OF CONTENTS

2.0 INSERVICE INSPECTION PROGRAM FOR COMPONENTS

2.1 PROGRAM DESCRIPTION

2.2 INSERVICE INSPECTION PLAN SUMMARY

2.0 INSERVICE INSPECTION PROGRAM FOR COMPONENTS

2.1 PROGRAM DESCRIPTION

2.1.1 The Inservice Inspection for Class 1, 2 and 3 components meets the requirements of Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addendum. Where these requirements are determined to be impractical, specific requests for relief have been written and included in this section.

2.1.2 Weld selection for piping shall be in accordance with 10CFR50 utilizing the ASME Section XI, 1974 Edition through the Summer 1975 Addendum for selection criteria. The ASME Section XI 1980 Edition through the Winter 1980 Addendum criteria will be applicable when stress calculations to support that inspection program are available.

Vessel weld selection and hanger and support selection shall be in accordance with the ASME Section XI 1980 Edition through the Winter 1980 addendum.

2.1.3 Repairs and replacements shall be in accordance with Station Administrative Procedures.

2.1.4 The existing calibration standards/blocks for ultrasonic examinations used during the first interval were designed and manufactured to satisfy the intent of ASME Section V and ASME Section XI, Appendices I and III, 1974 Edition through the Summer 1975 Addenda. Use of the blocks will supercede all current code references to calibration block material requirements as per Code Case N335-1 and N355.

2.2 INSERVICE INSPECTION PLAN SUMMARY

2.2.1 The Inservice Inspection Plan Summary for the Component Program is presented in Section 2.2.2 in a tabular format. The components and associated requirements are listed according to ascending Code Category and Item Numbers. The following information is included in the tables:

A. Code Category - The Section XI Examination Categories as defined in Table IWB-2500-1, IWC-2500-1 and IWD-2500-1 for Class 1, 2 and 3 components.

B. Item Number and Item Description - The Item Number and Item Description as listed in Tables IWB-2500-1, IWC-2500-1 and IWD-2500-1. Item Numbers and the applicable Item Descriptions are listed for each Code Category.

C. Exam Method - Lists the examination method or methods as reflected by the requirements of ASME Section XI. The abbreviations used are as follows:

VOL - Volumetric per IWA-2230

SUR - Surface per IWA-2220

VIS - Visual per IWA-2211, 12, 13 and 14

- D. Relief Request - References either a specific relief request contained in this section or references one of the code allowed exemptions listed below. If the latter is referenced, the particular line or component has been exempted from volumetric and/or surface examination by the applicable code paragraph. Components exempted from examination by code allowed exemptions will not appear in the component table of this program in most cases. The following is a list of exemptions applicable to this program.

EX-1 - IWB-1220(b), lines 1-inch nominal pipe size (n.p.s.) and less

EX-2 - Withdrawn

EX-3 - Withdrawn

EX-4 - IWB-1220(c), head connection, 2-inches n.p.s. and less made inaccessible by CRD penetrations

EX-5 - IWC-1220(b), components not required to operate above a temperature of 200°F or above a pressure of 275 psig.

EX-6 - IWC-1220(c), component connections, piping and associated valves, and vessels and their attachments that are 4 in. n.p.s.

EX-7 - IWC-1220(a), lines not required during normal operating conditions but remain flooded under static conditions at a minimum of 80% of the pressure they would be subjected to when required to operate.

EX-8 - IWC-1230, piping support and piping support components encased in concrete.

EX-9 - IWD-1220.1, integral attachments of supports and restraints to components that are 4 in. n.p.s. and smaller.

EX-10 - IWD-1220.2(a), integral attachments of supports and restraints in system whose function is not required in support of reactor residual heat removal and emergency core cooling.

EX-11 - IWD-1220.2(b), integral attachments of supports and restraints where operating pressure is 275 psig or less and operating temperature is 200°F or less.

EX-12 - IWD-5223(e), open ended vent and drain lines from components extending beyond the last shut-off ended safety or relief valve discharge lines.

2.2.2 The Inservice Inspection Plan Summary on the following pages lists the applicable Class 1, 2, and 3 systems which are covered in the Inservice Inspection Program.

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      1 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-A    PRESSURE RETAINING WELDS IN REACTOR VESSEL
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ITEM NUMBER : B1.11

ITEM DESCRIPTION : RV CIRCUMFERENTIAL SHELL WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	2RCR1	VOL		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      2 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY B-A    PRESSURE RETAINING WELDS IN REACTOR VESSEL
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ITEM NUMBER : B1.12

ITEM DESCRIPTION : RV LONGITUDINAL SHELL WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VOL		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      3 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY B-A    PRESSURE RETAINING WELDS IN REACTOR VESSEL
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ITEM NUMBER : B1.21T

ITEM DESCRIPTION : RV CIRCUMFERENTIAL TOP HEAD WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VOL		


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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      4 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-A    PRESSURE RETAINING WELDS IN REACTOR VESSEL
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ITEM NUMBER : B1.30

ITEM DESCRIPTION : RV SHELL-TO-FLANGE WELD

	FLOW	FLOW					
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD		RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====		=====	=====
RC	FM-86A	F-5	2RCR1	VOL			

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      5 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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*****
* CATEGORY B-A    PRESSURE RETAINING WELDS IN REACTOR VESSEL
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ITEM NUMBER : B1.40

ITEM DESCRIPTION : RV HEAD-TO-FLANGE WELD

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	SUR VOL		

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*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY      POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      6 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
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* CATEGORY B-B    PRESSURE RETAINING WELDS IN VESSELS OTHER THAN THE RV
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ITEM NUMBER : B2.11

ITEM DESCRIPTION : PZR CIRCUMFERENTIAL SHELL-TO-HEAD WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	6-6	2RCE2	VOL	SR-005	

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      7 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-B    PRESSURE RETAINING WELDS IN VESSELS OTHER THAN THE RV
*
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ITEM NUMBER : B2.12

ITEM DESCRIPTION : PZR LONGITUDINAL SHELL-TO-HEAD WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-6	2RCE2	VOL	SR-005	

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      8 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-B    PRESSURE RETAINING WELDS IN VESSELS OTHER THAN THE RV
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ITEM NUMBER : B2.40

ITEM DESCRIPTION : SG PRIMARY TUBESHEET-TO-HEAD WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	C-1	2RCE1A	VOL		
RC	FM-86A	C-6	2RCE1B	VOL		
RC	FM-86A	J-1	2RCE1C	VOL		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      9 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY B-D    FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
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ITEM NUMBER : B3. 90

ITEM DESCRIPTION : RV NOZZLE-TO-VESSEL WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      10 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-D    FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
*
*****

```

ITEM NUMBER : B3.100

ITEM DESCRIPTION : RV NOZZLE INSIDE RADIUS SECTION

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VOL		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      11 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-D      FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
*
*****

```

ITEM NUMBER : B3.120

ITEM DESCRIPTION : PZR NOZZLE INSIDE RADIUS SECTION

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-6	2RCE2	VIS	SR-007	


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*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY                *
*                SURRY          POWER STATION UNIT 2                *
*
*                INSERVICE INSPECTION PLAN SUMMARY                *****
*                INTERVAL 2, 05/01/83 TO 05/01/93                * PAGE      12 *
*                ASME SECTION XI EDITION 80W80                * REVISION 0001 *
*
*                * DATE: 86/10/20 *
*****
* CATEGORY B-D      FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
*
*****

```

ITEM NUMBER : B3.140

ITEM DESCRIPTION : SG PRIMARY NOZZLE INSIDE RADIUS SECTION

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-1	2RCE1A	VIS	SR-007	
RC	FM-86A	C-6	2RCE1B	VIS	SR-007	
RC	FM-86A	J-1	2RCE1C	VIS	SR-007	

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      13 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-E    PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS
*
*****

```

ITEM NUMBER : B4.12

ITEM DESCRIPTION : ALL VESSELS, CRD NOZZLE PARTIAL PENETRATION WELD

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      14 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY B-E    PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS
*
*****

```

ITEM NUMBER : B4.13

ITEM DESCRIPTION : ALL VESSELS, INSTRUMENT NOZZLE PARTIAL PENETRATION

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      15 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-E    PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS
*
*****

```

ITEM NUMBER : B4.20

ITEM DESCRIPTION : PRESSURIZER HEATER PENETRATION WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	6-6	2RCE2	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      16 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-F    PRESSURE RETAINING DISSIMILAR METAL WELDS
*
*****

```

ITEM NUMBER : B5.10

ITEM DESCRIPTION : RV NOMINAL PIPE SIZE >= 4" NOZZLE-TO-SAFE END BUTT WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	E-2	RC301-2501R	VOL	SR-006	
RC	FM-86A	C-4	RC303-2501R	VOL	SR-006	
RC	FM-86A	F-5	RC304-2501R	VOL	SR-006	
RC	FM-86A	C-8	RC306-2501R	VOL	SR-006	
RC	FM-86A	H-2	RC307-2501R	VOL	SR-006	
RC	FM-86A	K-4	RC309-2501R	VOL	SR-006	

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      17 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-F    PRESSURE RETAINING DISSIMILAR METAL WELDS
*
*****

```

ITEM NUMBER : B5.20

ITEM DESCRIPTION : PZR NOMINAL PIPE SIZE >= 4T NOZZLE-TO-SAFE END BUTT WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	G-8	RC310-2501R	SUR VOL		
RC	FM-86B	F-5	RC315-1502	SUR VOL		
RC	FM-86B	H-5	RC334-1502	SUR VOL		
RC	FM-86B	H-5	RC337-1502	SUR VOL		
RC	FM-86B	G-5	RC338-1502	SUR VOL		
RC	FM-86B	G-5	RC339-1502	SUR VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      18 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-F    PRESSURE RETAINING DISSIMILAR METAL WELDS
*
*****

```

ITEM NUMBER : B5.30

ITEM DESCRIPTION : SG NOMINAL PIPE SIZE >= 4T NOZZLE-TO-SAFE END BUTT WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	E-2	RC301-2501R	SUR VOL	SR-008	
RC	FM-86A	B-2	RC302-2501R	SUR VOL	SR-008	
RC	FM-86A	E-5	RC304-2501R	SUR VOL	SR-008	
RC	FM-86A	B-6	RC305-2501R	SUR VOL	SR-008	
RC	FM-86A	H-2	RC307-2501R	SUR VOL	SR-008	
RC	FM-86A	L-2	RC308-2501R	SUR VOL	SR-008	

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      19 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6. 10

ITEM DESCRIPTION : RV CLOSURE HEAD NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	SUR		


```

*****
*
*          VIRGINIA ELECTRIC AND POWER COMPANY
*          SURRY          POWER STATION UNIT 2
*
*          INSERVICE INSPECTION PLAN SUMMARY
*          INTERVAL 2, 05/01/83 TO 05/01/93
*          ASME SECTION XI EDITION 80W80
*
*          *****
*          * PAGE      20 *
*          * REVISION  0001 *
*          * DATE    86/10/20 *
*          *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : B6. 20

ITEM DESCRIPTION : RV CLOSURE STUDS, IN PLACE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	2RCR1	VOL		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      21 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : B6. 30

ITEM DESCRIPTION : RV CLOSURE STUDS, WHEN REMOVED

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	2RCR1	SUR VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      22 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-G-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : B6. 40

ITEM DESCRIPTION : RV THREADS IN FLANGE

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VOL		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      23 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : 86. 50

ITEM DESCRIPTION : RV CLOSURE WASHERS,BUSHINGS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      24 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : B6.180

ITEM DESCRIPTION : PUMP BOLTS AND STUDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-1	2RCP1A	VOL		
RC	FM-86A	A-6	2RCP1B	VOL		
RC	FM-86A	L-1	2RCP1C	VOL		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      25 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-G-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : B6.190

ITEM DESCRIPTION : PUMP FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	2RCP1A	VIS		
RC	FM-86A	A-6	2RCP1B	VIS		
RC	FM-86A	L-1	2RCP1C	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      26 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-G-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : B6.200

ITEM DESCRIPTION : PUMP NUTS,BUSHINGS, AND WASHERS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-1	2RCP1A	VIS		
RC	FM-86A	A-6	2RCP1B	VIS		
RC	FM-86A	L-1	2RCP1C	VIS		

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNIT 2

INSERVICE INSPECTION PLAN SUMMARY
INTERVAL 2, 05/01/83 TO 05/01/93
ASME SECTION XI EDITION 80W80

* PAGE 27 *
* REVISION 0001 *
* DATE 86/10/20 *

* CATEGORY B-6-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER *

ITEM NUMBER : B6.210

ITEM DESCRIPTION : VALVE BOLTS AND STUDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	D-2	RC301-2501R	VIS	SR-011	
RC	FM-86A	C-4	RC303-2501R	VIS	SR-011	
RC	FM-86A	D-6	RC304-2501R	VIS	SR-011	
RC	FM-86A	D-8	RC306-2501R	VIS	SR-011	
RC	FM-86A	I-2	RC307-2501R	VIS	SR-011	
RC	FM-86A	I-4	RC309-2501R	VIS	SR-011	


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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      28 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : B6.220

ITEM DESCRIPTION : VALVE FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	D-2	RC301-2501R	VIS		
RC	FM-86A	D-4	RC303-2501R	VIS		
RC	FM-86A	D-6	RC304-2501R	VIS		
RC	FM-86A	D-8	RC306-2501R	VIS		
RC	FM-86A	I-2	RC307-2501R	VIS		
RC	FM-86A	I-4	RC309-2501R	VIS		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      29 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : B6.230

ITEM DESCRIPTION : VALVE NUTS,BUSHINGS, AND WASHERS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	D-2	RC301-2501R	VIS		
RC	FM-86A	D-4	RC303-2501R	VIS		
RC	FM-86A	D-6	RC304-2501R	VIS		
RC	FM-86A	D-8	RC306-2501R	VIS		
RC	FM-86A	I-2	RC307-2501R	VIS		
RC	FM-86A	I-4	RC309-2501R	VIS		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      30 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

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ITEM NUMBER : B7.10

ITEM DESCRIPTION : REACTOR VESSEL BOLTS, STUDS, AND NUTS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      31 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

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ITEM NUMBER : B7.20

ITEM DESCRIPTION : PRESSURIZER BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	6-6	2RCE2	VIS		

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*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      32 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

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ITEM NUMBER : B7.30

ITEM DESCRIPTION : STEAM GENERATOR BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-1	2RCE1A	VIS		
RC	FM-86A	C-6	2RCE1B	VIS		
RC	FM-86A	J-1	2RCE1C	VIS		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      33 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

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ITEM NUMBER : 87.50

ITEM DESCRIPTION : PIPING BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	G-6	CH393-1502	VIS		
CH	FM-88C	D-6	CH395-1502	VIS		
CH	FM-88C	A-6	CH397-1502	VIS		
RC	FM-86A	H-3	RC344-1502	VIS		
RC	FM-86A	E-3	RC345-1502	VIS		
RC	FM-86A	E-7	RC346-1502	VIS		
RC	FM-86A	I-5	RC405-1502	VIS		
RC	FM-86A	C-7	RC416-1502	VIS		
RC	FM-86A	B-8	RC417-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      34 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

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ITEM NUMBER : B7.50

ITEM DESCRIPTION : PIPING BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	B-3	RC429-1502	VIS		
RC	FM-86A	B-3	RC431-1502	VIS		
RC	FM-86A	C-4	RC432-1502	VIS		
RC	FM-86A	K-3	RC446-1502	VIS		
RC	FM-86A	K-3	RC447-1502	VIS		
RC	FM-86A	J-3	RC451-2501R	VIS		
RC	FM-86B	H-5	RC337-1502	VIS		
RC	FM-86B	G-5	RC338-1502	VIS		
RC	FM-86B	G-5	RC339-1502	VIS		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 35 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
*****
* CATEGORY B-G-2 PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
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ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	D-2	CH305-1502	VIS		
CH	FM-88C	G-3	CH308-1503	VIS		
CH	FM-88C	D-2	CH368-1502	VIS		
CH	FM-88C	G-3	CH379-1502	VIS		
CH	FM-88C	G-6	CH393-1502	VIS		
CH	FM-88C	D-6	CH395-1502	VIS		
CH	FM-88C	B-7	CH397-1502	VIS		
RC	FM-86A	D-3	RC311-1502	VIS		
RC	FM-86A	D-7	RC312-1502	VIS		


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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      36 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
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ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	I-3	RC313-1502	VIS		
RC	FM-86A	H-3	RC344-1502	VIS		
RC	FM-86A	E-3	RC345-1502	VIS		
RC	FM-86A	E-7	RC346-1502	VIS		
RC	FM-86A	C-3	RC353-1502	VIS		
RC	FM-86A	B-2	RC355-1502	VIS		
RC	FM-86A	B-6	RC356-1502	VIS		
RC	FM-86A	C-5	RC357-1502	VIS		
RC	FM-86A	G-1	RC358-1502	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      37 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
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ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	K-2	RC359-1502	VIS		
RC	FM-86A	A-7	RC360-1502	VIS		
RC	FM-86A	I-5	RC405-1502	VIS		
RC	FM-86A	B-8	RC416-1502	VIS		
RC	FM-86A	C-8	RC417-1502	VIS		
RC	FM-86A	C-8	RC419-1502	VIS		
RC	FM-86A	C-7	RC421-1502	VIS		
RC	FM-86A	B-4	RC426-1502	VIS		
RC	FM-86A	B-3	RC429-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      38 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
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ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-2	RC431-1502	VIS		
RC	FM-86A	C-3	RC432-1502	VIS		
RC	FM-86A	C-2	RC439-1502	VIS		
RC	FM-86A	K-3	RC442-1502	VIS		
RC	FM-86A	K-3	RC446-1502	VIS		
RC	FM-86A	K-2	RC447-1502	VIS		
RC	FM-86A	J-3	RC448-1502	VIS		
RC	FM-86A	J-2	RC453-1502	VIS		
RC	FM-86A	A-2	RC498-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      39 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

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ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-6	RC499-1502	VIS		
RC	FM-86A	L-2	RC500-1502	VIS		
RC	FM-86B	E-8	RC314-1502	VIS		
RC	FM-86B	F-5	RC315-1502	VIS		
RC	FM-86B	I-4	RC335-1502	VIS		
RC	FM-86B	H-5	RC337-1502	VIS		
RC	FM-86B	G-5	RC338-1502	VIS		
RC	FM-86B	G-5	RC339-1502	VIS		
RC	FM-86B	I-5	RC361-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      40 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
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ITEM NUMBER : 87.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-89B	A-3	RC316-1502	VIS		
RC	FM-89B	A-1	RC317-1502	VIS		
RC	FM-89B	A-2	RC318-1502	VIS		
RC	FM-89B	A-1	RC319-1502	VIS		
RC	FM-89B	A-2	RC320-1502	VIS		
RC	FM-89B	A-3	RC321-1502	VIS		
RC	FM-89B	A-7	RC323-1502	VIS		
RHR	FM-87A	H-7	RH101-1502	VIS		
RHR	FM-87A	L-5	RH116-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      41 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
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ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	L-5	RH117-1502	VIS		
SI	FM-89B	B-5	SI245-1502	VIS		
SI	FM-89B	A-8	SI247-1502	VIS		
SI	FM-89B	A-3	SI272-1503	VIS		
SI	FM-89B	B-1	SI274-1502	VIS		
SI	FM-89B	A-2	SI275-1502	VIS		
SI	FM-89B	A-3	SI277-1503	VIS		
SI	FM-89B	A-3	SI279-1502	VIS		
SI	FM-89B	A-2	SI281-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      42 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
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ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-1	SI285-1502	VIS		
SI	FM-89B	B-1	SI344-1502	VIS		
SI	FM-89B	A-1	SI345-1502	VIS		
SI	FM-89B	A-2	SI353-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      43 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-H    INTEGRAL ATTACHMENTS FOR VESSELS
*
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ITEM NUMBER : 88.10

ITEM DESCRIPTION : RV INTEGRALLY WELDED ATTACHMENTS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VOL		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      44 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-H      INTEGRAL ATTACHMENTS FOR VESSELS
*
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ITEM NUMBER : B8.20

ITEM DESCRIPTION : PZR INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-6	2RCE2	VOL		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE          45 *
*                               * REVISION    0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-2	RC301-2501R	SUR VOL		
RC	FM-86A	B-2	RC302-2501R	SUR VOL		
RC	FM-86A	A-4	RC303-2501R	SUR VOL		
RC	FM-86A	E-5	RC304-2501R	SUR VOL		
RC	FM-86A	B-6	RC305-2501R	SUR VOL		
RC	FM-86A	B-8	RC306-2501R	SUR VOL		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      46 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER ^: B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	H-2	RC307-2501R	SUR VOL		
RC	FM-86A	L-2	RC308-2501R	SUR VOL		
RC	FM-86A	K-4	RC309-2501R	SUR VOL		
RC	FM-86A	D-2	RC311-2501R	SUR VOL		
RC	FM-86A	D-7	RC312-2501R	SUR VOL		
RC	FM-86A	I-3	RC313-2501R	SUR VOL		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      47 *
*                               * REVISION 0001 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-8	RC310-2501R	SUR VOL		
RC	FM-86B	E-8	RC314-1502	SUR VOL		
RC	FM-86B	F-5	RC315-1502	SUR VOL		
RC	FM-86B	H-5	RC334-1502	SUR VOL		
RC	FM-86B	H-5	RC337-1502	SUR VOL		
RC	FM-86B	G-5	RC338-1502	SUR VOL		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      48 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-5	RC339-1502	SUR VOL		
RHR	FM-87A	H-7	RH101-1502	SUR VOL		
RHR	FM-87A	K-5	RH116-1502	SUR VOL		
RHR	FM-87A	K-5	RH117-1502	SUR VOL		
SI	FM-86A	E-2	RC316-1502	SUR VOL		
SI	FM-86A	E-4	RC317-1502	SUR VOL		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      49 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-86A	E-6	RC318-1502	SUR VOL		
SI	FM-86A	E-7	RC319-1502	SUR VOL		
SI	FM-86A	H-4	RC320-1502	SUR VOL		
SI	FM-86A	H-2	RC321-1502	SUR VOL		
SI	FM-86A	E-7	RC344-1502	SUR VOL		
SI	FM-86A	E-4	SI245-1502	SUR VOL		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      50 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-86A	H-3	SI247-1502	SUR VOL		
SI	FM-86A	H-4	SI275-1502	SUR VOL		
SI	FM-86A	E-7	SI285-1502	SUR VOL		
SI	FM-89B	B-1	RC317-1502	SUR VOL		
SI	FM-89B	A-7	RC323-1502	SUR VOL		
SI	FM-89B	C-7	SI246-1502	SUR VOL		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      51 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FH-89B	A-1	SI345-1502	SUR VOL		


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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      52 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.12

ITEM DESCRIPTION : LONGITUDINAL WELDS IN PIPING

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	B-2	RC302-2501R	SUR VOL		SR-009
RC	FM-86A	B-6	RC305-2501R	SUR VOL		SR-009
RC	FM-86A	L-2	RC308-2501R	SUR VOL		SR-009

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      53 *
*               * REVISION  0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.21

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-86A	F-8	CH301-1502	SUR		
CH	FM-88C	H-3	CH379-1503	SUR		
RC	FM-86A	B-7	RC416-1502	SUR		
RC	FM-86A	C-8	RC417-1502	SUR		
RC	FM-86A	B-2	RC431-1502	SUR		
RC	FM-86A	C-3	RC432-1502	SUR		
RC	FM-86A	K-2	RC447-1502	SUR		
RC	FM-86A	J-3	RC448-1502	SUR		
RC	FM-86B	I-4	RC335-1502	SUR		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE          54 *
*                               * REVISION 0001 *
*                               * DATE   86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.21

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	I-5	RC361-1502	SUR		
SI	FM-86A	H-4	SI275-1502	SUR		
SI	FM-86A	E-1	SI280-1502	SUR		
SI	FM-86A	E-5	SI281-1502	SUR		
SI	FM-86A	E-7	SI285-1502	SUR		
SI	FM-88B	E-3	SI272-1503	SUR		
SI	FM-89A	I-3	SI272-1503	SUR		
SI	FM-89B	I-3	SI272-1503	SUR		
SI	FM-89B	E-2	SI273-1503	SUR		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      55 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.21

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-1	SI274-1502	SUR		
SI	FM-89B	E-2	SI277-1503	SUR		
SI	FM-89B	C-3	SI279-1502	SUR		
SI	FM-89B	I-3	SI347-1503	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      56 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.31

ITEM DESCRIPTION : NOMINAL PIPE SIZE >= 4 IN., BRANCH PIPE CONNECTI

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	G-8	RC310-2501R	SUR VOL	SR-003	
RC	FM-86B	E-8	RC314-1502	SUR VOL	SR-003	
RC	FM-86B	E-7	RC315-1502	SUR VOL	SR-003	
RHR	FM-87A	H-7	RH101-1502	SUR VOL	SR-003	
RC	FM-86A	E-2	RC316-1502	SUR VOL	SR-003	
RC	FM-86A	E-4	RC317-1502	SUR VOL	SR-003	

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      57 *
*                               * REVISION 0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
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```

ITEM NUMBER : B9.31

ITEM DESCRIPTION : NOMINAL PIPE SIZE >= 4 IN., BRANCH PIPE CONNECTI

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-6	RC318-1502	SUR VOL	SR-003	
RC	FM-86A	E-7	RC319-1502	SUR VOL	SR-003	
RC	FM-86A	H-4	RC320-1502	SUR VOL	SR-003	
RC	FM-86A	H-2	RC321-1502	SUR VOL	SR-003	
RC	FM-86A	H-3	RC324-1502	SUR VOL	SR-003	
RC	FM-89B	A-7	RC323-1502	SUR VOL	SR-003	

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      58 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.31

ITEM DESCRIPTION : NOMINAL PIPE SIZE >= 4 IN., BRANCH PIPE CONNECTI

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-86A	E-4	SI245-1502	SUR VOL	SR-003	

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      59 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.32

ITEM DESCRIPTION : NOMINAL PIPE SIZE < 4 IN., BRANCH PIPE CONNECTION

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-86A	F-8	CH301-1502	SUR		
CH	FM-86A	E-4	CH305-1502	SUR		
CH	FM-86B	E-5	CH368-1502	SUR		
RC	FM-86A	C-5	RC327-1502	SUR		
RC	FM-86A	H-2	RC344-1502	SUR		
RC	FM-86A	E-3	RC345-1502	SUR		
RC	FM-86A	E-7	RC346-1502	SUR		
RC	FM-86A	C-2	RC353-1502	SUR		
RC	FM-86A	A-7	RC356-1502	SUR		


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*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      60 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.32

ITEM DESCRIPTION : NOMINAL PIPE SIZE < 4 IN., BRANCH PIPE CONNECTION

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	G-1	RC358-1502	SUR		
RC	FM-86A	K-2	RC359-1502	SUR		
RC	FM-86A	A-7	RC360-1502	SUR		
RC	FM-86A	I-4	RC405-1502	SUR		
RC	FM-86A	B-8	RC415-1502	SUR		
RC	FM-86A	B-7	RC416-1502	SUR		
RC	FM-86A	A-2	RC425-1502	SUR		
RC	FM-86A	B-2	RC431-1502	SUR		
RC	FM-86A	L-2	RC441-1502	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      61 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
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ITEM NUMBER : B9.32

ITEM DESCRIPTION : NOMINAL PIPE SIZE < 4 IN., BRANCH PIPE CONNECTION

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	K-3	RC446-1502	SUR		
RC	FM-86A	K-2	RC447-1502	SUR		
RC	FM-86A	A-2	RC498-1502	SUR		
RC	FM-86A	A-6	RC499-1502	SUR		
RC	FM-86A	L-2	RC500-1502	SUR		
SI	FM-86A	E-1	SI280-1502	SUR		
SI	FM-86A	E-5	SI281-1502	SUR		
SI	FM-89B	C-3	SI279-1502	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      62 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-86A	F-8	CH301-1502	SUR		
CH	FM-86A	E-4	CH305-1502	SUR		
CH	FM-86A	A-2	CH308-1503	SUR		
CH	FM-86A	A-7	CH309-1503	SUR		
CH	FM-86A	L-2	CH310-1503	SUR		
CH	FM-86B	E-5	CH368-1502	SUR		
CH	FM-88C	G-6	CH393-1502	SUR		
CH	FM-88C	D-6	CH395-1502	SUR		
CH	FM-88C	B-6	CH397-1502	SUR		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE          63 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	C-5	RC327-1502	SUR		
RC	FM-86A	H-2	RC344-1502	SUR		
RC	FM-86A	E-3	RC345-1502	SUR		
RC	FM-86A	E-7	RC346-1502	SUR		
RC	FM-86A	K-5	RC353-1502	SUR		
RC	FM-86A	B-2	RC355-1502	SUR		
RC	FM-86A	A-7	RC356-1502	SUR		
RC	FM-86A	G-1	RC358-1502	SUR		
RC	FM-86A	K-2	RC359-1502	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      64 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-7	RC360-1502	SUR		
RC	FM-86A	I-4	RC405-1502	SUR		
RC	FM-86A	A-8	RC412-1502	SUR		
RC	FM-86A	B-8	RC415-1502	SUR		
RC	FM-86A	C-8	RC417-1502	SUR		
RC	FM-86A	C-8	RC417-2501R	SUR		
RC	FM-86A	C-7	RC421-1502	SUR		
RC	FM-86A	A-2	RC425-1502	SUR		
RC	FM-86A	A-2	RC428-2501R	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-3	RC429-1502	SUR		
RC	FM-86A	C-3	RC432-1502	SUR		
RC	FM-86A	C-2	RC439-1502	SUR		
RC	FM-86A	L-2	RC441-1502	SUR		
RC	FM-86A	L-3	RC442-1502	SUR		
RC	FM-86A	K-3	RC446-1502	SUR		
RC	FM-86A	J-3	RC448-1502	SUR		
RC	FM-86A	J-2	RC453-1502	SUR		
RC	FM-86A	A-2	RC498-1502	SUR		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      66 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-6	RC499-1502	SUR		
RC	FM-86A	L-2	RC500-1502	SUR		
RC	FM-86B	I-4	RC335-1502	SUR		
RC	FM-86B	I-5	RC361-1502	SUR		
SI	FM-86A	H-4	SI275-1502	SUR		
SI	FM-86A	E-1	SI280-1502	SUR		
SI	FM-86A	E-5	SI281-1502	SUR		
SI	FM-86A	E-7	SI285-1502	SUR		
SI	FM-88B	E-3	SI272-1503	SUR		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      67 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89A	E-5	SI273-1503	SUR		
SI	FM-89B	C-3	SI272-1503	SUR		
SI	FM-89B	E-2	SI273-1503	SUR		
SI	FM-89B	B-1	SI274-1502	SUR		
SI	FM-89B	E-2	SI277-1503	SUR		
SI	FM-89B	C-3	SI279-1502	SUR		


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*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY      POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      68 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

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ITEM NUMBER : B10.10

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-86A	F-8	CH301-1502	SUR		
CH	FM-86A	L-2	CH310-1503	SUR		
CH	FM-88A	G-5	CH426-152	SUR		
CH	FM-88C	H-3	CH379-1503	SUR		
CH	FM-88C	D-4	CH515-152	SUR		
RC	FM-86A	K-5	RC353-1502	SUR		
RC	FM-86A	G-1	RC358-1502	SUR		
RC	FM-86A	B-7	RC416-1502	SUR		
RC	FM-86A	B-2	RC431-1502	SUR		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      69 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

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ITEM NUMBER : B10.10

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	K-2	RC447-1502	SUR		
RC	FM-86A	A-6	RC499-1502	SUR		
RC	FM-86B	G-8	RC310-2501R	SUR		
RC	FM-86B	E-8	RC314-1502	SUR		
RC	FM-86B	F-5	RC315-1502	SUR		
RC	FM-86B	H-4	RC320-602	SUR		
RC	FM-86B	H-5	RC334-1502	SUR		
RC	FM-86B	I-5	RC335-1502	SUR		
RC	FM-86B	E-4	RC336-602	SUR		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE          70 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

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ITEM NUMBER : B10.10

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	H-4	RC337-1502	SUR		
RC	FM-86B	G-5	RC338-1502	SUR		
RC	FM-86B	G-5	RC339-1502	SUR		
RC	FM-86B	G-4	RC340-602	SUR		
RC	FM-86B	I-5	RC361-1502	SUR		
RC	FM-86B	J-4	RC362-602	SUR		
RC	FM-89B	B-5	RC322-1502	SUR		
RC	FM-89B	A-7	RC323-1502	SUR		
RHR	FM-87A	H-7	RH101-1502	SUR		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      71 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

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ITEM NUMBER : B10.10

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	K-5	RH116-1502	SUR		
RHR	FM-87A	K-5	RH117-1502	SUR		
SI	FM-86A	E-4	SI245-1502	SUR		
SI	FM-86A	H-3	SI247-1502	SUR		
SI	FM-86A	E-1	SI280-1502	SUR		
SI	FM-86A	E-5	SI281-1502	SUR		
SI	FM-89B	A-7	RC323-1502	SUR		
SI	FM-89B	B-5	SI245-1502	SUR		
SI	FM-89B	C-7	SI246-1502	SUR		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      72 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

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ITEM NUMBER : B10.10

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-8	SI247-1502	SUR		
SI	FM-89B	C-3	SI272-1503	SUR		
SI	FM-89B	E-2	SI273-1503	SUR		
SI	FM-89B	E-2	SI277-1503	SUR		
SI	FM-89B	C-3	SI279-1502	SUR		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 73 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
*****
* CATEGORY B-K-1 INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES *
*
*****

```

ITEM NUMBER : B10.20

ITEM DESCRIPTION : PUMP INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-1	2RCP1A	SUR		
RC	FM-86A	A-6	2RCP1B	SUR		
RC	FM-86A	L-1	2RCP1C	SUR		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      74 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : B10.30

ITEM DESCRIPTION : VALVE INTEGRALLY WELDED ATTACHMENTS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-86A	L-2	CH310-1503	SUR		

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*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      75 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY B-L-2  PUMP CASINGS
*
*****

```

ITEM NUMBER : B12.10

ITEM DESCRIPTION : PUMP CASING WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	2RCP1A	VOL		
RC	FM-86A	A-6	2RCP1B	VOL		
RC	FM-86A	L-1	2RCP1C	VOL		


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*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      76 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY B-L-2  PUMP CASINGS
*
*****

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ITEM NUMBER : B12.20

ITEM DESCRIPTION : PUMP CASING

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	2RCP1A	VIS		
RC	FM-86A	A-6	2RCP1B	VIS		
RC	FM-86A	L-1	2RCP1C	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      77 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-M-2 VALVE BODIES
*
*****

```

ITEM NUMBER : B12.40

ITEM DESCRIPTION : VALVE, VALVE BODY EXCEEDING 4 IN. NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-1	RC301-2501R	VIS	SR-001	
RC	FM-86A	D-3	RC303-2501R	VIS	SR-001	
RC	FM-86A	D-6	RC304-2501R	VIS	SR-001	
RC	FM-86A	D-8	RC306-2501R	VIS	SR-001	
RC	FM-86A	H-1	RC307-2501R	VIS	SR-001	
RC	FM-86A	H-3	RC309-2501R	VIS	SR-001	
RC	FM-86A	C-4	RC311-2501R	VIS	SR-001	
RC	FM-86A	C-8	RC312-2501R	VIS	SR-001	
RC	FM-86A	I-4	RC313-2501R	VIS	SR-001	

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*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      78 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY B-M-2  VALVE BODIES
*
*****

```

ITEM NUMBER : B12.40

ITEM DESCRIPTION : VALVE, VALVE BODY EXCEEDING 4 IN. NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	H-4	RC337-1502	VIS	SR-001	
RC	FM-86B	G-4	RC338-1502	VIS	SR-001	
RC	FM-86B	F-4	RC339-1502	VIS	SR-001	
RC	FM-89B	A-2	RC316-1502	VIS	SR-001	
RC	FM-89B	A-1	RC317-1502	VIS	SR-001	
RC	FM-89B	A-2	RC318-1502	VIS	SR-001	
RC	FM-89B	A-1	RC319-1502	VIS	SR-001	
RC	FM-89B	A-1	RC320-1502	VIS	SR-001	
RC	FM-89B	A-3	RC321-1502	VIS	SR-001	

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      79 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-M-2  VALVE BODIES
*
*****

```

ITEM NUMBER : B12.40

ITEM DESCRIPTION : VALVE, VALVE BODY EXCEEDING 4 IN. NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	H-7	RH101-1502	VIS	SR-001	
RHR	FM-87A	L-5	RH116-1502	VIS	SR-001	
RHR	FM-87A	K-5	RH117-1502	VIS	SR-001	
SI	FM-89B	C-5	SI245-1502	VIS	SR-001	
SI	FM-89B	F-7	SI246-1502	VIS	SR-001	
SI	FM-89B	C-8	SI247-1502	VIS	SR-001	
SI	FM-89B	B-1	SI344-1502	VIS	SR-001	
SI	FM-89B	A-1	SI345-1502	VIS	SR-001	
SI	FM-89B	B-2	SI353-1502	VIS	SR-001	

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      80 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-N-1  INTERIOR OF REACTOR VESSELS
*
*****

```

ITEM NUMBER : B13.10
ITEM DESCRIPTION : RV VESSEL INTERIOR

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	2RCR1	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      81 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY B-N-1 INTERIOR OF REACTOR VESSELS
*
*****

```

ITEM NUMBER : B13.30

ITEM DESCRIPTION : RV CORE SUPPORT STRUCTURE (PWR)

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VIS		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      82 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-0    PRESSURE RETAINING WELDS IN CONTROL ROD DRIVE HOUSINGS
*
*****

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ITEM NUMBER      : B14.10
ITEM DESCRIPTION : RV WELDS IN CRD HOUSING

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SYSTEM/ COMPONENT	FLOW DIAGRAM	FLOW DIAGRAM	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
	(11548)	COORD				
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VOL		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      83 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : B15.10

ITEM DESCRIPTION : RV PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VIS		


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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      84 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : B15.11

ITEM DESCRIPTION : RV PRESSURE RETAINING BOUNDARY-HYDROSTATIC

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	2RCR1	VIS		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      85 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : B15.20

ITEM DESCRIPTION : PZR PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	6-6	2RCE2	VIS		

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*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 86 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
*****
* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : B15.21

ITEM DESCRIPTION : PZR PRESSURE RETAINING BOUNDARY-HYDROSTATIC

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-6	2RCE2	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      87 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	D-2	CH301-1502	VIS		
CH	FM-88C	D-2	CH305-1502	VIS		
CH	FM-88C	I-3	CH308-1503	VIS		
CH	FM-88C	G-3	CH309-1503	VIS		
CH	FM-88C	H-3	CH310-1503	VIS		
CH	FM-88C	D-2	CH368-1502	VIS		
CH	FM-88C	G-3	CH379-1503	VIS		
CH	FM-88C	C-6	CH405-1502	VIS		
CH	FM-88C	F-6	CH408-1502	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      88 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	I-6	CH411-1502	VIS		
CH	FM-88C	C-3	CH423-1502	VIS		
CH	FM-88C	B-3	CH523-1502	VIS		
RC	FM-86A	E-2	RC301-2501R	VIS		
RC	FM-86A	B-2	RC302-2501R	VIS		
RC	FM-86A	A-4	RC303-2501R	VIS		
RC	FM-86A	E-5	RC304-2501R	VIS		
RC	FM-86A	A-6	RC305-2501R	VIS		
RC	FM-86A	B-8	RC306-2501R	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      89 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	H-2	RC307-2501R	VIS		
RC	FM-86A	K-2	RC308-2501R	VIS		
RC	FM-86A	K-4	RC309-2501R	VIS		
RC	FM-86A	H-1	RC310-2501R	VIS		
RC	FM-86A	D-2	RC311-2501R	VIS		
RC	FM-86A	D-7	RC312-2501R	VIS		
RC	FM-86A	I-2	RC313-2501R	VIS		
RC	FM-86A	E-4	RC314-1502	VIS		
RC	FM-86A	H-4	RC315-1502	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      90 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	E-2	RC316-1502	VIS		
RC	FM-86A	E-4	RC317-1502	VIS		
RC	FM-86A	E-6	RC318-1502	VIS		
RC	FM-86A	E-6	RC319-1502	VIS		
RC	FM-86A	H-4	RC320-1502	VIS		
RC	FM-86A	H-2	RC321-1502	VIS		
RC	FM-86A	E-5	RC322-1502	VIS		
RC	FM-86A	E-8	RC323-1502	VIS		
RC	FM-86A	H-3	RC324-1502	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      91 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	H-3	RC344-1502	VIS		
RC	FM-86A	E-3	RC345-1502	VIS		
RC	FM-86A	E-7	RC346-1502	VIS		
RC	FM-86A	E-2	RC347-1502	VIS		
RC	FM-86A	E-7	RC348-1502	VIS		
RC	FM-86A	H-2	RC349-1502	VIS		
RC	FM-86A	C-3	RC353-1502	VIS		
RC	FM-86A	B-2	RC355-1502	VIS		
RC	FM-86A	A-7	RC356-1502	VIS		


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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE          92 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P  ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-5	RC357-1502	VIS		
RC	FM-86A	I-1	RC358-1502	VIS		
RC	FM-86A	K-2	RC359-1502	VIS		
RC	FM-86A	A-7	RC360-1502	VIS		
RC	FM-86A	D-3	RC363-1502	VIS		
RC	FM-86A	D-8	RC364-1502	VIS		
RC	FM-86A	I-3	RC365-1502	VIS		
RC	FM-86A	B-1	RC392-1502	VIS		
RC	FM-86A	B-1	RC393-1502	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      93 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-1	RC394-1502	VIS		
RC	FM-86A	C-2	RC395-1502	VIS		
RC	FM-86A	A-6	RC396-1502	VIS		
RC	FM-86A	A-6	RC397-1502	VIS		
RC	FM-86A	A-6	RC398-1502	VIS		
RC	FM-86A	C-6	RC399-1502	VIS		
RC	FM-86A	K-1	RC400-1502	VIS		
RC	FM-86A	K-1	RC401-1502	VIS		
RC	FM-86A	K-1	RC402-1502	VIS		

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*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      94 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	J-2	RC403-1502	VIS		
RC	FM-86A	I-5	RC405-1502	VIS		
RC	FM-86A	I-5	RC406-1502	VIS		
RC	FM-86A	A-8	RC412-1502	VIS		
RC	FM-86A	A-8	RC413-2501R	VIS		
RC	FM-86A	A-8	RC414-1502	VIS		
RC	FM-86A	C-8	RC415-1502	VIS		
RC	FM-86A	A-7	RC416-1502	VIS		
RC	FM-86A	B-8	RC417-1502	VIS		

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*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      95 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	B-7	RC418-1502	VIS		
RC	FM-86A	B-8	RC419-2501R	VIS		
RC	FM-86A	B-8	RC420-1502	VIS		
RC	FM-86A	C-7	RC421-1502	VIS		
RC	FM-86A	C-7	RC422-1502	VIS		
RC	FM-86A	C-7	RC423-1502	VIS		
RC	FM-86A	C-6	RC424-1502	VIS		
RC	FM-86A	A-2	RC425-1502	VIS		
RC	FM-86A	B-3	RC426-1502	VIS		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 96 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
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* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS *
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-3	RC427-1502	VIS		
RC	FM-86A	B-3	RC428-2501R	VIS		
RC	FM-86A	B-3	RC429-1502	VIS		
RC	FM-86A	B-4	RC430-1502	VIS		
RC	FM-86A	B-2	RC431-1502	VIS		
RC	FM-86A	C-3	RC432-1502	VIS		
RC	FM-86A	B-3	RC433-2501R	VIS		
RC	FM-86A	C-3	RC434-1502	VIS		
RC	FM-86A	C-2	RC436-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      97 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	C-2	RC437-1502	VIS		
RC	FM-86A	C-2	RC438-1502	VIS		
RC	FM-86A	C-2	RC439-1502	VIS		
RC	FM-86A	A-7	RC440-1502	VIS		
RC	FM-86A	L-2	RC441-1502	VIS		
RC	FM-86A	K-3	RC442-1502	VIS		
RC	FM-86A	L-3	RC443-1502	VIS		
RC	FM-86A	K-3	RC444-2501R	VIS		
RC	FM-86A	K-4	RC445-1502	VIS		

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*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
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*                * PAGE          98 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
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* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	K-4	RC446-1502	VIS		
RC	FM-86A	K-2	RC447-1502	VIS		
RC	FM-86A	J-3	RC448-1502	VIS		
RC	FM-86A	J-3	RC449-1502	VIS		
RC	FM-86A	J-3	RC451-2501R	VIS		
RC	FM-86A	J-4	RC452-1502	VIS		
RC	FM-86A	J-2	RC453-1502	VIS		
RC	FM-86A	J-2	RC454-1502	VIS		
RC	FM-86A	J-2	RC455-1502	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE          99 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
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* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	J-2	RC456-1502	VIS		
RC	FM-86A	J-4	RC461-1502	VIS		
RC	FM-86A	H-4	RC462-1502	VIS		
RC	FM-86A	I-2	RC463-1502	VIS		
RC	FM-86A	D-2	RC465-1502	VIS		
RC	FM-86A	E-6	RC466-1502	VIS		
RC	FM-86A	D-6	RC472-1502	VIS		
RC	FM-86A	G-5	RC473-1502	VIS		
RC	FM-86A	G-5	RC492-1502	VIS		


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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-2	RC498-1502	VIS		
RC	FM-86A	A-6	RC499-1502	VIS		
RC	FM-86A	L-2	RC500-1502	VIS		
RC	FM-86B	F-4	RC325-602	VIS		
RC	FM-86B	G-4	RC326-602	VIS		
RC	FM-86B	H-4	RC327-602	VIS		
RC	FM-86B	G-5	RC334-1502	VIS		
RC	FM-86B	I-5	RC335-1502	VIS		
RC	FM-86B	H-4	RC337-1502	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      101 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	G-4	RC338-1502	VIS		
RC	FM-86B	G-4	RC339-1502	VIS		
RC	FM-86B	H-7	RC350-1502	VIS		
RC	FM-86B	I-5	RC351-1502	VIS		
RC	FM-86B	I-5	RC361-1502	VIS		
RC	FM-86B	D-5	RC366-1502	VIS		
RC	FM-86B	E-5	RC367-1502	VIS		
RHR	FM-87A	H-7	RH101-1502	VIS		
RHR	FM-87A	L-5	RH117-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      102 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-6	SI239-1502	VIS		
SI	FM-89B	F-7	SI240-1502	VIS		
SI	FM-89B	B-8	SI241-1502	VIS		
SI	FM-89B	B-5	SI245-1502	VIS		
SI	FM-89B	C-7	SI246-1502	VIS		
SI	FM-89B	B-8	SI247-1502	VIS		
SI	FM-89B	I-3	SI272-1503	VIS		
SI	FM-89B	E-2	SI273-1503	VIS		
SI	FM-89B	E-3	SI277-1503	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      103 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
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* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-3	SI279-1502	VIS		
SI	FM-89B	B-3	SI280-1502	VIS		
SI	FM-89B	B-2	SI281-1502	VIS		
SI	FM-89B	I-2	SI347-1503	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      104 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	D-2	CH301-1502	VIS		
CH	FM-88C	D-2	CH305-1502	VIS		
CH	FM-88C	I-3	CH308-1503	VIS		
CH	FM-88C	G-3	CH309-1503	VIS		
CH	FM-88C	H-3	CH310-1503	VIS		
CH	FM-88C	D-2	CH368-1502	VIS		
CH	FM-88C	G-3	CH379-1503	VIS		
CH	FM-88C	C-6	CH405-1502	VIS		
CH	FM-88C	F-6	CH408-1502	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      105 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	I-6	CH411-1502	VIS		
CH	FM-88C	C-3	CH423-1502	VIS		
CH	FM-88C	B-3	CH523-1502	VIS		
RC	FM-86A	E-2	RC301-2501R	VIS		
RC	FM-86A	B-2	RC302-2501R	VIS		
RC	FM-86A	A-4	RC303-2501R	VIS		
RC	FM-86A	E-5	RC304-2501R	VIS		
RC	FM-86A	A-6	RC305-2501R	VIS		
RC	FM-86A	B-8	RC306-2501R	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      106 *
*               * REVISION  0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	H-2	RC307-2501R	VIS		
RC	FM-86A	K-2	RC308-2501R	VIS		
RC	FM-86A	K-4	RC309-2501R	VIS		
RC	FM-86A	H-1	RC310-2501R	VIS		
RC	FM-86A	D-2	RC311-2501R	VIS		
RC	FM-86A	D-7	RC312-2501R	VIS		
RC	FM-86A	I-2	RC313-2501R	VIS		
RC	FM-86A	E-4	RC314-1502	VIS		
RC	FM-86A	H-4	RC315-1502	VIS		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 107 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
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* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-2	RC316-1502	VIS		
RC	FM-86A	E-4	RC317-1502	VIS		
RC	FM-86A	E-6	RC318-1502	VIS		
RC	FM-86A	E-6	RC319-1502	VIS		
RC	FM-86A	H-4	RC320-1502	VIS		
RC	FM-86A	H-2	RC321-1502	VIS		
RC	FM-86A	E-5	RC322-1502	VIS		
RC	FM-86A	E-8	RC323-1502	VIS		
RC	FM-86A	H-3	RC324-1502	VIS		


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*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY      POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
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*                * PAGE      108 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
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* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	H-3	RC344-1502	VIS		
RC	FM-86A	E-3	RC345-1502	VIS		
RC	FM-86A	E-7	RC346-1502	VIS		
RC	FM-86A	E-2	RC347-1502	VIS		
RC	FM-86A	E-7	RC348-1502	VIS		
RC	FM-86A	H-2	RC349-1502	VIS		
RC	FM-86A	C-3	RC353-1502	VIS		
RC	FM-86A	B-2	RC355-1502	VIS		
RC	FM-86A	A-7	RC356-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      109 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
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* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : 815.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-5	RC357-1502	VIS		
RC	FM-86A	I-1	RC358-1502	VIS		
RC	FM-86A	K-2	RC359-1502	VIS		
RC	FM-86A	A-7	RC360-1502	VIS		
RC	FM-86A	D-3	RC363-1502	VIS		
RC	FM-86A	D-8	RC364-1502	VIS		
RC	FM-86A	I-3	RC365-1502	VIS		
RC	FM-86A	B-1	RC392-1502	VIS		
RC	FM-86A	B-1	RC393-1502	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      110 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-1	RC394-1502	VIS		
RC	FM-86A	C-2	RC395-1502	VIS		
RC	FM-86A	A-6	RC396-1502	VIS		
RC	FM-86A	A-6	RC397-1502	VIS		
RC	FM-86A	A-6	RC398-1502	VIS		
RC	FM-86A	C-6	RC399-1502	VIS		
RC	FM-86A	K-1	RC400-1502	VIS		
RC	FM-86A	K-1	RC401-1502	VIS		
RC	FM-86A	K-1	RC402-1502	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      111 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	J-2	RC403-1502	VIS		
RC	FM-86A	I-5	RC405-1502	VIS		
RC	FM-86A	I-5	RC406-1502	VIS		
RC	FM-86A	A-8	RC412-1502	VIS		
RC	FM-86A	A-8	RC413-2501R	VIS		
RC	FM-86A	A-8	RC414-1502	VIS		
RC	FM-86A	C-8	RC415-1502	VIS		
RC	FM-86A	A-7	RC416-1502	VIS		
RC	FM-86A	B-8	RC417-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      112 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	B-7	RC418-1502	VIS		
RC	FM-86A	B-8	RC419-2501R	VIS		
RC	FM-86A	B-8	RC420-1502	VIS		
RC	FM-86A	C-7	RC421-1502	VIS		
RC	FM-86A	C-7	RC422-1502	VIS		
RC	FM-86A	C-7	RC423-1502	VIS		
RC	FM-86A	C-6	RC424-1502	VIS		
RC	FM-86A	A-2	RC425-1502	VIS		
RC	FM-86A	B-3	RC426-1502	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      113 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-3	RC427-1502	VIS		
RC	FM-86A	B-3	RC428-2501R	VIS		
RC	FM-86A	B-3	RC429-1502	VIS		
RC	FM-86A	B-4	RC430-1502	VIS		
RC	FM-86A	B-2	RC431-1502	VIS		
RC	FM-86A	C-3	RC432-1502	VIS		
RC	FM-86A	B-3	RC433-2501R	VIS		
RC	FM-86A	C-3	RC434-1502	VIS		
RC	FM-86A	C-2	RC436-1502	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      114 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	C-2	RC437-1502	VIS		
RC	FM-86A	C-2	RC438-1502	VIS		
RC	FM-86A	C-2	RC439-1502	VIS		
RC	FM-86A	A-7	RC440-1502	VIS		
RC	FM-86A	L-2	RC441-1502	VIS		
RC	FM-86A	K-3	RC442-1502	VIS		
RC	FM-86A	L-3	RC443-1502	VIS		
RC	FM-86A	K-3	RC444-2501R	VIS		
RC	FM-86A	K-4	RC445-1502	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      115 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	K-4	RC446-1502	VIS		
RC	FM-86A	K-2	RC447-1502	VIS		
RC	FM-86A	J-3	RC448-1502	VIS		
RC	FM-86A	J-3	RC449-1502	VIS		
RC	FM-86A	J-3	RC451-2501R	VIS		
RC	FM-86A	J-4	RC452-1502	VIS		
RC	FM-86A	J-2	RC453-1502	VIS		
RC	FM-86A	J-2	RC454-1502	VIS		
RC	FM-86A	J-2	RC455-1502	VIS		


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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      116 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	J-2	RC456-1502	VIS		
RC	FM-86A	J-4	RC461-1502	VIS		
RC	FM-86A	H-4	RC462-1502	VIS		
RC	FM-86A	I-2	RC463-1502	VIS		
RC	FM-86A	D-2	RC465-1502	VIS		
RC	FM-86A	E-6	RC466-1502	VIS		
RC	FM-86A	D-6	RC472-1502	VIS		
RC	FM-86A	G-5	RC473-1502	VIS		
RC	FM-86A	G-5	RC492-1502	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      117 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-2	RC498-1502	VIS		
RC	FM-86A	A-6	RC499-1502	VIS		
RC	FM-86A	L-2	RC500-1502	VIS		
RC	FM-86B	F-4	RC325-602	VIS		
RC	FM-86B	G-4	RC326-602	VIS		
RC	FM-86B	H-4	RC327-602	VIS		
RC	FM-86B	G-5	RC334-1502	VIS		
RC	FM-86B	I-5	RC335-1502	VIS		
RC	FM-86B	H-4	RC337-1502	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      118 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
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* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	G-4	RC338-1502	VIS		
RC	FM-86B	G-4	RC339-1502	VIS		
RC	FM-86B	H-7	RC350-1502	VIS		
RC	FM-86B	I-5	RC351-1502	VIS		
RC	FM-86B	I-5	RC361-1502	VIS		
RC	FM-86B	D-5	RC366-1502	VIS		
RC	FM-86B	E-5	RC367-1502	VIS		
RHR	FM-87A	H-7	RH101-1502	VIS		
RHR	FM-87A	L-5	RH117-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      119 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-6	SI239-1502	VIS		
SI	FM-89B	F-7	SI240-1502	VIS		
SI	FM-89B	B-8	SI241-1502	VIS		
SI	FM-89B	B-5	SI245-1502	VIS		
SI	FM-89B	C-7	SI246-1502	VIS		
SI	FM-89B	B-8	SI247-1502	VIS		
SI	FM-89B	I-3	SI272-1503	VIS		
SI	FM-89B	E-2	SI273-1503	VIS		
SI	FM-89B	E-3	SI277-1503	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      120 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
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* CATEGORY B-P  ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-3	SI279-1502	VIS		
SI	FM-89B	B-3	SI280-1502	VIS		
SI	FM-89B	B-2	SI281-1502	VIS		
SI	FM-89B	I-2	SI347-1503	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      121 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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*****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.60

ITEM DESCRIPTION : PUMP PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-1	2RCP1A	VIS		
RC	FM-86A	A-6	2RCP1B	VIS		
RC	FM-86A	L-1	2RCP1C	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      122 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
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* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : B15.61

ITEM DESCRIPTION : PUMP PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-1	2RCP1A	VIS		
RC	FM-86A	A-6	2RCP1B	VIS		
RC	FM-86A	L-1	2RCP1C	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      123 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-A      PRESSURE RETAINING WELDS IN PRESSURE VESSELS
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ITEM NUMBER : C1.10

ITEM DESCRIPTION : PRESSURE VESSEL SHELL CIRCUMFERENTIAL WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-72A	F-4	2CHE4	VOL		
CH	FM-88B	G-3	2CHE1	VOL		
CH	FM-88B	C-2	2CHE2	VOL		
CH	FM-88B	J-1	2CHFL2	SUR	SR-004	
CH	FM-88B	E-3	2CHFL3	SUR	SR-012	
CH	FM-88B	B-6	2CHFL4A	VOL		
CH	FM-88B	B-7	2CHFL4B	VOL		
MS	FM-64A	A-2	2RCE1A	VOL		
MS	FM-64A	A-4	2RCE1B	VOL		


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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 05/01/83 TO 05/01/93
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-A PRESSURE RETAINING WELDS IN PRESSURE VESSELS
*
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ITEM NUMBER : C1.10

ITEM DESCRIPTION : PRESSURE VESSEL SHELL CIRCUMFERENTIAL WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	A-6	2RCE1C	VOL		
RHR	FM-87A	B-2	2RHE1A	VOL		
RHR	FM-87A	D-2	2RHE1B	VOL		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 125 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
*****
* CATEGORY C-A PRESSURE RETAINING WELDS IN PRESSURE VESSELS
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ITEM NUMBER : C1.20
ITEM DESCRIPTION : PRESSURE VESSEL HEAD CIRCUMFERENTIAL WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-72A	F-4	2CHE4	VOL		
CH	FM-88B	G-3	2CHE1	VOL		
CH	FM-88B	C-2	2CHE2	VOL		
CH	FM-88C	C-2	2CHE3	VOL		
CH	FM-88B	J-1	2CHFL2	SUR	SR-004	
CH	FM-88B	E-3	2CHFL3	SUR	SR-012	
CH	FM-88B	B-6	2CHFL4A	VOL		
CH	FM-88B	B-7	2CHFL4B	VOL		
CH	FM-88B	H-2	2CHTK2	VOL		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      126 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-A   PRESSURE RETAINING WELDS IN PRESSURE VESSELS
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ITEM NUMBER : C1.20

ITEM DESCRIPTION : PRESSURE VESSEL HEAD CIRCUMFERENTIAL WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	A-2	2RCE1A	VOL		
MS	FM-64A	A-4	2RCE1B	VOL		
MS	FM-64A	A-6	2RCE1C	VOL		
RHR	FM-87A	B-2	2RHE1A	VOL		
RHR	FM-87A	D-2	2RHE1B	VOL		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      127 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY C-A      PRESSURE RETAINING WELDS IN PRESSURE VESSELS
*
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ITEM NUMBER : C1.30

ITEM DESCRIPTION : PRESSURE VESSEL TUBESHEET-TO-SHELL WELD

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	F-2	2CHE3	VOL		
MS	FM-64A	A-2	2RCE1A	VOL		
MS	FM-64A	A-4	2RCE1B	VOL		
MS	FM-64A	A-6	2RCE1C	VOL		

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNIT 2

INSERVICE INSPECTION PLAN SUMMARY
INTERVAL 2, 05/01/83 TO 05/01/93
ASME SECTION XI EDITION 80W80

* PAGE 128 *
* REVISION 0001 *
* DATE 86/10/20 *

* CATEGORY C-B PRESSURE RETAINING NOZZLE WELDS IN VESSELS *

ITEM NUMBER : C2.21

ITEM DESCRIPTION : NOZZLE-TO-SHELL(OR HEAD) WELDS IN PRESSURE VESSELS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-64A	A-2	2RCE1A	SUR VOL	SR-007	
FW	FM-64A	A-4	2RCE1B	SUR VOL	SR-007	
FW	FM-64A	A-6	2RCE1C	SUR VOL	SR-007	
MS	FM-64A	A-2	2RCE1A	SUR VOL	SR-007	
MS	FM-64A	A-4	2RCE1B	SUR VOL	SR-007	
MS	FM-64A	A-6	2RCE1C	SUR VOL	SR-007	

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      129 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-B      PRESSURE RETAINING NOZZLE WELDS IN VESSELS
*
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ITEM NUMBER : C2.21

ITEM DESCRIPTION : NOZZLES IN PRESSURE VESSELS > 1/2" NOMINAL THICKNESS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	B-2	2RHE1A	SUR VIS	SR-002 SR-002	
RHR	FM-87A	D-2	2RHE1B	SUR VIS	SR-002 SR-002	

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      130 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-B    PRESSURE RETAINING NOZZLE WELDS IN VESSELS
*
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ITEM NUMBER : C2.22

ITEM DESCRIPTION : NOZZLES IN PRESSURE VESSELS > 1/2_T NOMINAL THICKNESS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-64A	A-2	2RCE1A	VOL		
FW	FM-64A	A-4	2RCE1B	VOL		
FW	FM-64A	A-6	2RCE1C	VOL		
MS	FM-64A	A-2	2RCE1A	VOL		
MS	FM-64A	A-4	2RCE1B	VOL		
MS	FM-64A	A-6	2RCE1C	VOL		
RHR	FM-87A	B-2	2RHE1A	SUR VIS	SR-002 SR-002	
RHR	FM-87A	D-2	2RHE1B	SUR VIS	SR-002 SR-002	

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      131 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
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ITEM NUMBER : C3. 10

ITEM DESCRIPTION : PRESSURE VESSEL INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	G-3	2CHE1	SUR		
CH	FM-88B	C-2	2CHE2	SUR		
CH	FM-88B	J-1	2CHFL2	SUR		
CH	FM-88B	E-3	2CHFL3	SUR		
CH	FM-88B	B-6	2CHFL4A	SUR		
CH	FM-88B	B-7	2CHFL4B	SUR		
CH	FM-88B	H-2	2CHTK2	SUR		
RHR	FM-87A	B-2	2RHE1A	SUR		
RHR	FM-87A	D-2	2RHE1B	SUR		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      132 *
*                               * REVISION  0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
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ITEM NUMBER : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	L-3	CC15-121	SUR		
CC	FM-72A	D-8	CC173-151	SUR		
CC	FM-72A	E-8	CC181-151	SUR		
CH	FM-86A	F-8	CH301-1502	SUR		
CH	FM-88B	C-8	CH505-152	SUR		
CH	FM-88B	E-8	SI317-152	SUR		
CH	FM-88B	F-8	SI318-152	SUR		
CH	FM-88B	H-8	SI319-152	SUR		
CH	FM-88B	E-8	SI372-152	SUR		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      133 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
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ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	D-5	CH315-1502	SUR		
CH	FM-88C	H-2	CH365-152	SUR		
CS	FM-84A	F-5	CS101-153	SUR		
CS	FM-84A	F-5	CS102-153	SUR		
CS	FM-84A	J-3	CS103-153	SUR		
CS	FM-84A	J-3	CS104-153	SUR		
CS	FM-84A	J-2	CS122-153	SUR		
CS	FM-84A	J-3	CS123-153	SUR		
CS	FM-84A	G-4	CS133-153	SUR		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      134 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
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ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	H-4	CS134-153	SUR		
CS	FM-84A	L-1	CS188-153	SUR		
CV	FM-85A	I-4	CV108-151	SUR		
DA	FM-87A	L-4	DG202-152	SUR		
DA	FM-87A	K-4	DG237-152	SUR		
FW	FM-68A	D-5	WFPD109-601	SUR		
FW	FM-68A	D-3	WFPD113-601	SUR		
FW	FM-68A	D-2	WFPD117-601	SUR		
MS	FM-64A	E-2	SHP101-601	SUR		

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*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
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*                *****
*                * PAGE      135 *
*                * REVISION  0001 *
*                * DATE    86/10/20 *
*                *****
* CATEGORY C-C    INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

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ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	E-4	SHP102-601	SUR		
MS	FM-64A	E-6	SHP103-601	SUR		
MS	FM-64A	D-3	SHP145-601	SUR		
MS	FM-64A	D-5	SHP146-601	SUR		
MS	FM-64A	D-6	SHP147-601	SUR		
RHR	FM-87A	D-3	RH110-602	SUR		
RHR	FM-87A	J-5	RH112-602	SUR		
RHR	FM-87A	K-4	RH115-152	SUR		
RHR	FM-87A	L-5	RH116-1502	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY           POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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* PAGE          136
* REVISION      0001
* DATE          86/10/20
*****
* CATEGORY C-C   INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
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ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	D-7	RH118-602	SUR		
RHR	FM-87A	I-4	RH120-152	SUR		
RS	FM-84B	K-2	RS103-153	SUR		
RS	FM-84B	H-2	RS111-153	SUR		
RS	FM-84B	A-6	RS115-153	SUR		
SI	FM-88B	B-8	SI170-153	SUR		
SI	FM-89B	C-2	SI248-1502	SUR		
SI	FM-89B	C-3	SI249-1502	SUR		
SI	FM-89B	B-3	SI279-1502	SUR		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      137 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

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ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-2	SI344-1502	SUR		
SI	FM-89B	A-1	SI345-1502	SUR		
SI	FM-89B	B-2	SI353-1502	SUR		

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* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 05/01/83 TO 05/01/93
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-D PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

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ITEM NUMBER : C4.30

ITEM DESCRIPTION : PUMP BOLTS AND STUDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	D-7	2CHP1A	VOL		
CH	FM-88B	E-7	2CHP1B	VOL		
CH	FM-88B	G-7	2CHP1C	VOL		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      139 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD <= 1/2 T NOMINAL WALL

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	J-3	CS103-153	SUR		
CS	FM-84A	J-3	CS104-153	SUR		
CS	FM-84A	J-3	CS123-153	SUR		
CS	FM-84A	G-4	CS133-153	SUR		
CS	FM-84A	H-4	CS134-153	SUR		
CS	FM-89A	J-2	CS122-153	SUR		
MS	FM-64A	C-4	SDHV104	SUR		
MS	FM-64A	A-2	SHP122-601	SUR		
MS	FM-64A	A-4	SHP123-601	SUR		


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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      140 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD <= 1/2 T NOMINAL WALL

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	A-6	SHP124-601	SUR		
MS	FM-64A	C-3	SHP137-601	SUR		
MS	FM-64A	B-4	SHP138-601	SUR		
MS	FM-64A	C-6	SHP139-601	SUR		
MS	FM-64A	D-3	SHP145-601	SUR		
MS	FM-64A	D-5	SHP146-601	SUR		
MS	FM-64A	D-6	SHP147-601	SUR		
RC	FM-84B	E-4	RS109-153	SUR		
RHR	FM-87A	D-7	RH102-602	SUR		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      141 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-F      PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD <= 1/2 T NOMINAL WALL

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	B-6	RH104-602	SUR		
RHR	FM-87A	D-6	RH105-602	SUR		
RHR	FM-87A	D-3	RH107-602	SUR		
RHR	FM-87A	B-3	RH108-602	SUR		
RHR	FM-87A	B-3	RH109-602	SUR		
RHR	FM-87A	D-3	RH110-602	SUR		
RHR	FM-87A	J-5	RH112-602	SUR		
RHR	FM-87A	I-5	RH114-602	SUR		
RHR	FM-87A	D-7	RH118-602	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      142 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD <= 1/2 T NOMINAL WALL

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	E-4	RH119-602	SUR		
RHR	FM-87A	K-5	RH137-602	SUR		
RS	FM-84B	J-4	RS101-153	SUR		
RS	FM-84B	H-4	RS102-153	SUR		
RS	FM-84B	K-2	RS103-153	SUR		
RS	FM-84B	I-2	RS104-153	SUR		
RS	FM-84B	E-4	RS109-153	SUR		
RS	FM-84B	C-3	RS110-153	SUR		
RS	FM-84B	H-2	RS111-153	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY           POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      143 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD <= 1/2 T NOMINAL WALL

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	F-2	RS112-153	SUR		
RS	FM-84B	K-1	RS120-153	SUR		
RS	FM-84B	J-1	RS121-153	SUR		
RS	FM-84B	H-1	RS122-153	SUR		
RS	FM-84B	G-1	RS123-153	SUR		
SI	FM-89A	D-6	SI216-153	SUR		
SI	FM-89A	D-6	SI292-153	SUR		
SI	FM-89A	D-6	SI351-153	SUR		
SI	FM-89B	C-2	SI248-1502	SUR		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      144 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD <= 1/2 T NOMINAL WALL

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11548)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	C-3	SI249-1502	SUR		

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*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 145 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
*****
* CATEGORY C-F PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : C5.21

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD > 1/2 T NOMINAL WALL

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	B-5	WFPD109-601	SUR VOL		
FW	FM-68A	B-3	WFPD113-601	SUR VOL		
FW	FM-68A	B-2	WFPD117-601	SUR VOL		
MS	FM-64A	A-2	SHP101-601	SUR VOL		
MS	FM-64A	A-4	SHP102-601	SUR VOL		
MS	FM-64A	A-6	SHP103-601	SUR VOL		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      146 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
*               *****
* CATEGORY C-F   PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : C5.21

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD > 1/2 T NOMINAL WALL

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	A-2	SHP122-601	SUR VOL		
MS	FM-64A	A-4	SHP123-601	SUR VOL		
MS	FM-64A	A-6	SHP124-601	SUR VOL		
RHR	FM-87A	L-5	RH116-1502	SUR VOL		
SI	FM-89B	C-2	SI248-1502	SUR VOL		
SI	FM-89B	C-3	SI249-1502	SUR VOL		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 05/01/83 TO 05/01/93
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-F PRESSURE RETAINING WELDS IN PIPING
*
*****

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ITEM NUMBER : C5.21

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD > 1/2 T NOMINAL WALL

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	A-1	SI345-1502	SUR VOL		
SI	FM-89A	A-4	SI352-1502	SUR VOL		
SI	FM-89B	C-3	SI250-1502	SUR VOL		
SI	FM-89B	B-2	SI344-1502	SUR VOL		
SI	FM-89B	B-2	SI353-1502	SUR VOL		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      148 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-F      PRESSURE RETAINING WELDS IN PIPING
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*****

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ITEM NUMBER : C5.22

ITEM DESCRIPTION : PIPING LONGITUDINAL WELD > 1/2 T NOMINAL WALL TH

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	A-2	SHP101-601	SUR VOL		
MS	FM-64A	A-4	SHP102-601	SUR VOL		
MS	FM-64A	A-6	SHP103-601	SUR VOL		
MS	FM-64A	A-2	SHP122-601	SUR VOL		
MS	FM-64A	A-4	SHP123-601	SUR VOL		
MS	FM-64A	A-6	SHP124-601	SUR VOL		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      149 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
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ITEM NUMBER : C5.31

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD, PIPE BRANCH CONNECTION

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	A-2	SHP122-601	SUR		
MS	FM-64A	A-4	SHP123-601	SUR		
MS	FM-64A	A-6	SHP124-601	SUR		
MS	FM-64A	C-2	SHP137-601	SUR		
MS	FM-64A	B-4	SHP138-601	SUR		
MS	FM-64A	C-6	SHP139-601	SUR		
MS	FM-64A	D-3	SHP145-601	SUR		
MS	FM-64A	D-5	SHP146-601	SUR		
MS	FM-64A	D-6	SHP147-601	SUR		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               PAGE      150
*               REVISION  0001
*               DATE      86/10/20
*
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : C7.10

ITEM DESCRIPTION : PRESSURE VESSEL PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-72A	F-4	2CHE4	VIS		
CH	FM-88B	G-3	2CHE1	VIS		
CH	FM-88B	C-2	2CHE2	VIS		
CH	FM-88B	H-2	2CHTK2	VIS		
MS	FM-64A	A-2	2RCE1A	VIS		
MS	FM-64A	A-4	2RCE1B	VIS		
MS	FM-64A	A-6	2RCE1C	VIS		
RHR	FM-87A	B-2	2RHE1A	VIS		
RHR	FM-87A	D-2	2RHE1B	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      151 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : C7.11

ITEM DESCRIPTION : PRESSURE VESSEL PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-72A	F-4	2CHE4	VIS		
CH	FM-88B	G-3	2CHE1	VIS		
CH	FM-88B	C-2	2CHE2	VIS		
CH	FM-88B	H-2	2CHTK2	VIS		
MS	FM-64A	A-2	2RCE1A	VIS		
MS	FM-64A	A-4	2RCE1B	VIS		
MS	FM-64A	A-6	2RCE1C	VIS		
RHR	FM-87A	B-2	2RHE1A	VIS		
RHR	FM-87A	D-2	2RHE1B	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      152 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88A	C-3	CH325-152	VIS		
CH	FM-88A	F-4	CH329-152	VIS		
CH	FM-88B	G-1	CH194-152	VIS		
CH	FM-88B	F-6	CH302-1503	VIS		
CH	FM-88B	G-6	CH303-1503	VIS		
CH	FM-88B	H-3	CH306-602	VIS		
CH	FM-88B	B-2	CH307-602	VIS		
CH	FM-88B	A-3	CH308-1503	VIS		
CH	FM-88B	A-6	CH311-1503	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      153 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	A-7	CH312-1503	VIS		
CH	FM-88B	A-7	CH313-1503	VIS		
CH	FM-88B	H-4	CH317-152	VIS		
CH	FM-88B	G-8	CH318-152	VIS		
CH	FM-88B	I-7	CH319-152	VIS		
CH	FM-88B	F-6	CH321-1503	VIS		
CH	FM-88B	G-6	CH322-1503	VIS		
CH	FM-88B	G-2	CH323-152	VIS		
CH	FM-88B	H-2	CH324-152	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      154 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	I-3	CH358-152	VIS		
CH	FM-88B	I-3	CH359-152	VIS		
CH	FM-88B	G-2	CH367-152	VIS		
CH	FM-88B	C-6	CH369-1503	VIS		
CH	FM-88B	E-6	CH370-1503	VIS		
CH	FM-88B	G-6	CH371-1503	VIS		
CH	FM-88B	E-8	CH372-152	VIS		
CH	FM-88B	H-3	CH373-152	VIS		
CH	FM-88B	B-6	CH374-1503	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      155 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	B-6	CH375-152	VIS		
CH	FM-88B	B-6	CH376-1503	VIS		
CH	FM-88B	A-6	CH377-1503	VIS		
CH	FM-88B	A-4	CH379-1503	VIS		
CH	FM-88B	B-5	CH380-1503	VIS		
CH	FM-88B	D-6	CH381-1503	VIS		
CH	FM-88B	H-1	CH387-152	VIS		
CH	FM-88B	C-4	CH389-1503	VIS		
CH	FM-88B	B-6	CH390-1503	VIS		


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*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
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*                * PAGE      156 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	A-6	CH391-1503	VIS		
CH	FM-88B	A-3	CH399-152	VIS		
CH	FM-88B	F-3	CH400-152	VIS		
CH	FM-88B	H-3	CH412-152	VIS		
CH	FM-88B	E-4	CH413-1503	VIS		
CH	FM-88B	D-6	CH414-1503	VIS		
CH	FM-88B	F-3	CH417-152	VIS		
CH	FM-88B	G-3	CH418-152	VIS		
CH	FM-88B	I-1	CH419-152	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*             SURRY      POWER STATION UNIT 2
*
*             INSERVICE INSPECTION PLAN SUMMARY
*             INTERVAL 2, 05/01/83 TO 05/01/93
*             ASME SECTION XI EDITION 80W80
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*             *****
*             * PAGE      157 *
*             * REVISION 0001 *
*             * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	H-2	CH420-152	VIS		
CH	FM-88B	J-1	CH421-152	VIS		
CH	FM-88B	D-1	CH425-602	VIS		
CH	FM-88B	G-2	CH463-152	VIS		
CH	FM-88B	J-3	CH464-152	VIS		
CH	FM-88B	H-3	CH465-152	VIS		
CH	FM-88B	G-7	CH487-1503	VIS		
CH	FM-88B	F-7	CH488-1503	VIS		
CH	FM-88B	D-7	CH489-1503	VIS		

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*
*          VIRGINIA ELECTRIC AND POWER COMPANY
*          SURRY          POWER STATION UNIT 2
*
*          INSERVICE INSPECTION PLAN SUMMARY
*          INTERVAL 2, 05/01/83 TO 05/01/93
*          ASME SECTION XI EDITION 80W80
*
*          *****
*          * PAGE      158 *
*          * REVISION  0001 *
*          * DATE    86/10/20 *
*          *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	F-4	CH491-152	VIS		
CH	FM-88B	D-3	CH492-152	VIS		
CH	FM-88B	J-1	CH493-152	VIS		
CH	FM-88B	G-1	CH494-152	VIS		
CH	FM-88B	G-2	CH499-152	VIS		
CH	FM-88B	H-7	CH501-152	VIS		
CH	FM-88B	G-7	CH502-152	VIS		
CH	FM-88B	E-7	CH503-152	VIS		
CH	FM-88B	B-8	CH504-152	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      159 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	C-8	CH505-152	VIS		
CH	FM-88B	C-8	CH506-152	VIS		
CH	FM-88B	D-8	CH507-1503	VIS		
CH	FM-88B	F-8	CH508-1503	VIS		
CH	FM-88B	H-8	CH509-1503	VIS		
CH	FM-88B	I-4	CH512-152	VIS		
CH	FM-88B	C-7	CH524-1503	VIS		
CH	FM-88B	E-7	CH525-1503	VIS		
CH	FM-88B	G-7	CH526-1503	VIS		

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*                VIRGINIA ELECTRIC AND POWER COMPANY                *
*                SURRY      POWER STATION UNIT 2                    *
*
*                INSERVICE INSPECTION PLAN SUMMARY                  *****
*                INTERVAL 2, 05/01/83 TO 05/01/93                  * PAGE      160 *
*                ASME SECTION XI EDITION 80W80                     * REVISION  0001 *
*                                                                * DATE  86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS              *
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	A-4	CH531-1503	VIS		
CH	FM-88B	F-2	CH536-152	VIS		
CH	FM-88B	I-1	CH537-152	VIS		
CH	FM-88B	G-3	CH538-152	VIS		
CH	FM-88B	E-1	CH539-152	VIS		
CH	FM-88B	J-1	2CHFL2	VIS		
CH	FM-88B	E-3	2CHFL3	VIS		
CH	FM-88B	B-6	2CHFL4A	VIS		
CH	FM-88B	B-7	2CHFL4B	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      161 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	E-2	CH305-1502	VIS		
CH	FM-88C	I-2	CH306-602	VIS		
CH	FM-88C	E-6	CH315-1502	VIS		
CH	FM-88C	H-6	CH316-1502	VIS		
CH	FM-88C	F-2	CH382-1502	VIS		
CH	FM-88C	H-3	CH383-602	VIS		
CH	FM-88C	G-1	CH384-1502	VIS		
CH	FM-88C	H-3	CH385-602	VIS		
CH	FM-88C	H-2	CH386-602	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
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*                               * PAGE      162 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	H-8	CH392-1503	VIS		
CH	FM-88C	E-8	CH394-1503	VIS		
CH	FM-88C	B-8	CH396-1503	VIS		
CH	FM-88C	B-5	CH398-1502	VIS		
CH	FM-88C	G-4	CH399-152	VIS		
CH	FM-88C	E-5	CH401-1502	VIS		
CH	FM-88C	H-5	CH402-1502	VIS		
CH	FM-88C	C-5	CH403-1502	VIS		
CH	FM-88C	I-4	CH422-152	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      163 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	B-4	CH424-152	VIS		
CH	FM-88C	C-4	CH514-152	VIS		
CH	FM-88C	C-5	CH515-152	VIS		
CH	FM-88C	G-5	CH516-152	VIS		
CH	FM-88C	C-5	CH517-152	VIS		
CH	FM-88C	G-5	CH518-152	VIS		
CH	FM-88C	I-4	CH519-152	VIS		
CH	FM-88C	H-2	CH532-602	VIS		
CH	FM-88C	I-3	CH533-602	VIS		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      164 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	F-5	CS101-153	VIS		
CS	FM-84A	F-5	CS102-153	VIS		
CS	FM-84A	J-3	CS103-153	VIS		
CS	FM-84A	J-3	CS104-153	VIS		
CS	FM-84A	C-2	CS114-152	VIS		
CS	FM-84A	J-2	CS122-153	VIS		
CS	FM-84A	J-3	CS123-153	VIS		
CS	FM-84A	C-2	CS124-ICN1	VIS		
CS	FM-84A	G-4	CS133-153	VIS		

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*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      165 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
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*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CS	FM-84A	H-4	CS134-153	VIS		
CS	FM-84A	G-4	CS135-153	VIS		
CS	FM-84A	H-4	CS136-153	VIS		
CS	FM-84A	G-2	CS174-153	VIS		
CS	FM-84A	G-2	CS175-153	VIS		
FW	FM-68A	B-5	WFPD109-601	VIS		
FW	FM-68A	B-4	WFPD113-601	VIS		
FW	FM-68A	B-2	WFPD117-601	VIS		
MS	FM-64A	B-3	SAE105-121	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      166 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-3	SDHV101-601	VIS		
MS	FM-64A	C-4	SDHV102-601	VIS		
MS	FM-64A	C-6	SDHV103-601	VIS		
MS	FM-64A	C-3	SDHV104-601	VIS		
MS	FM-64A	A-2	SHP101-601	VIS		
MS	FM-64A	A-4	SHP102-601	VIS		
MS	FM-64A	A-6	SHP103-601	VIS		
MS	FM-64A	B-3	SHP122-601	VIS		
MS	FM-64A	B-4	SHP123-601	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      167 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	B-6	SHP124-601	VIS		
MS	FM-64A	C-8	SHP128-601	VIS		
MS	FM-64A	C-8	SHP129-601	VIS		
MS	FM-64A	C-8	SHP130-601	VIS		
MS	FM-64A	F-8	SHP131-601	VIS		
MS	FM-64A	B-7	SHP132-601	VIS		
MS	FM-64A	C-8	SHP135-601	VIS		
MS	FM-64A	C-2	SHP137-601	VIS		
MS	FM-64A	B-4	SHP138-601	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      168 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	C-6	SHP139-601	VIS		
MS	FM-64A	D-2	SHP145-601	VIS		
MS	FM-64A	D-4	SHP146-601	VIS		
MS	FM-64A	C-6	SHP147-601	VIS		
MS	FM-64A	B-3	SSV101-121	VIS		
MS	FM-64A	B-3	SSV102-121	VIS		
MS	FM-64A	C-3	SSV103-121	VIS		
MS	FM-64A	C-3	SSV104-121	VIS		
MS	FM-64A	B-4	SSV106-121	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      169 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	B-4	SSV107-121	VIS		
MS	FM-64A	C-4	SSV108-121	VIS		
MS	FM-64A	C-4	SSV109-121	VIS		
MS	FM-64A	B-4	SSV110-121	VIS		
MS	FM-64A	B-6	SSV111-121	VIS		
MS	FM-64A	C-6	SSV112-121	VIS		
MS	FM-64A	C-6	SSV114-121	VIS		
MS	FM-64A	B-6	SSV115-121	VIS		
RHR	FM-87A	E-7	RH102-602	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      170 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	G-3	RH103-602	VIS		
RHR	FM-87A	B-6	RH104-602	VIS		
RHR	FM-87A	C-6	RH105-602	VIS		
RHR	FM-87A	A-4	RH106-602	VIS		
RHR	FM-87A	C-4	RH107-602	VIS		
RHR	FM-87A	A-3	RH108-602	VIS		
RHR	FM-87A	B-3	RH109-602	VIS		
RHR	FM-87A	D-3	RH110-602	VIS		
RHR	FM-87A	F-6	RH111-602	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      171 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	E-5	RH112-602	VIS		
RHR	FM-87A	H-4	RH113-602	VIS		
RHR	FM-87A	I-5	RH114-602	VIS		
RHR	FM-87A	K-5	RH116-602	VIS		
RHR	FM-87A	E-7	RH118-602	VIS		
RHR	FM-87A	E-4	RH119-602	VIS		
RHR	FM-87A	B-5	RH121-602	VIS		
RHR	FM-87A	I-5	RH122-602	VIS		
RHR	FM-87A	K-5	RH137-602	VIS		


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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      172 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	C-6	RH150-602	VIS		
RS	FM-84B	J-4	RS101-153	VIS		
RS	FM-84B	H-4	RS102-153	VIS		
RS	FM-84B	K-2	RS103-153	VIS		
RS	FM-84B	I-2	RS104-153	VIS		
RS	FM-84B	E-8	RS107-153	VIS		
RS	FM-84B	E-8	RS108-153	VIS		
RS	FM-84B	E-4	RS109-153	VIS		
RS	FM-84B	C-3	RS110-153	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      173 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	H-2	RS111-153	VIS		
RS	FM-84B	F-2	RS112-153	VIS		
RS	FM-84B	D-6	RS114-153	VIS		
RS	FM-84B	K-1	RS120-153	VIS		
RS	FM-84B	J-1	RS121-153	VIS		
RS	FM-84B	H-1	RS122-153	VIS		
RS	FM-84B	G-1	RS123-153	VIS		
RS	FM-84B	E-8	RS124-153	VIS		
SI	FM-89B	G-8	SI201-153	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      174 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	G-8	SI202-153	VIS		
SI	FM-89A	H-8	SI205-153	VIS		
SI	FM-89A	F-4	SI207-152	VIS		
SI	FM-89A	G-5	SI213-153	VIS		
SI	FM-89A	G-5	SI214-153	VIS		
SI	FM-89A	D-6	SI216-153	VIS		
SI	FM-89A	E-6	SI217-152	VIS		
SI	FM-89A	E-6	SI218-152	VIS		
SI	FM-89A	E-6	SI219-152	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      175 *
*               * REVISION  0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	F-2	SI220-1503	VIS		
SI	FM-89A	H-7	SI223-152	VIS		
SI	FM-89A	F-6	SI224-153	VIS		
SI	FM-89A	E-6	SI225-152	VIS		
SI	FM-89A	H-5	SI230-152	VIS		
SI	FM-89B	C-2	SI248-1502	VIS		
SI	FM-89B	C-3	SI249-1502	VIS		
SI	FM-89A	E-6	SI255-153	VIS		
SI	FM-89A	F-7	SI256-153	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      176 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89A	H-2	SI257-1503	VIS		
SI	FM-89A	H-2	SI258-1503	VIS		
SI	FM-89A	H-1	SI259-1503	VIS		
SI	FM-89A	E-1	SI268-1503	VIS		
SI	FM-89A	A-2	SI272-1503	VIS		
SI	FM-89A	E-6	SI278-152	VIS		
SI	FM-89A	G-7	SI283-153	VIS		
SI	FM-89A	D-8	SI284-152	VIS		
SI	FM-89A	B-2	SI290-1503	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      177 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	D-6	SI292-153	VIS		
SI	FM-89A	F-2	SI293-1503	VIS		
SI	FM-89A	F-4	SI302-152	VIS		
SI	FM-89A	D-6	SI306-152	VIS		
SI	FM-89A	I-6	SI330-152	VIS		
SI	FM-89A	J-4	SI331-152	VIS		
SI	FM-89A	C-7	SI332-153	VIS		
SI	FM-89A	C-8	SI333-ICN9	VIS		
SI	FM-89A	E-7	SI334-ICN9	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      178 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	D-8	SI335-ICN9	VIS		
SI	FM-89A	E-7	SI336-ICN9	VIS		
SI	FM-89A	F-7	SI337-153	VIS		
SI	FM-89A	F-8	SI338-ICN9	VIS		
SI	FM-89A	H-7	SI339-ICN9	VIS		
SI	FM-89A	H-8	SI340-ICN9	VIS		
SI	FM-89A	H-7	SI341-ICN9	VIS		
SI	FM-89A	B-2	SI347-1503	VIS		
SI	FM-89A	E-5	SI348-153	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      179 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89A	E-5	SI349-153	VIS		
SI	FM-89A	D-5	SI350-153	VIS		
SI	FM-89A	D-6	SI351-153	VIS		
SI	FM-89A	A-4	SI352-1502	VIS		
SI	FM-89A	D-6	SI360-153	VIS		
SI	FM-89A	C-2	SI361-1503	VIS		
SI	FM-89A	D-8	SI362-153	VIS		
SI	FM-89A	F-8	SI363-153	VIS		
SI	FM-89B	G-7	SI234-1502	VIS		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      180 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	D-5	SI236-602	VIS		
SI	FM-89B	B-5	SI245-1502	VIS		
SI	FM-89B	F-6	SI246-1502	VIS		
SI	FM-89B	C-3	SI250-1502	VIS		
SI	FM-89B	B-5	SI263-602	VIS		
SI	FM-89B	G-6	SI265-602	VIS		
SI	FM-89B	I-1	SI270-1503	VIS		
SI	FM-89B	E-1	SI271-1503	VIS		
SI	FM-89B	B-1	SI274-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      181 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-2	SI275-1502	VIS		
SI	FM-89B	E-1	SI276-1503	VIS		
SI	FM-89B	B-1	SI285-1502	VIS		
SI	FM-89B	G-5	SI297-602	VIS		
SI	FM-89B	D-4	SI300-602	VIS		
SI	FM-89B	I-3	SI343-1502	VIS		
SI	FM-89B	B-1	SI344-1502	VIS		
SI	FM-89B	A-1	SI345-1502	VIS		
SI	FM-89B	I-1	SI346-1503	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      182 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-2	SI353-1502	VIS		
SI	FM-89B	D-1	SI354-1502	VIS		
SI	FM-89B	C-3	SI355-1502	VIS		
SI	FM-89B	D-1	SI356-1502	VIS		
SI	FM-89B	C-2	SI357-1502	VIS		
SI	FM-89B	D-2	SI358-1502	VIS		
SI	FM-89B	C-4	SI359-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      183 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	C-3	CH325-152	VIS		
CH	FM-88A	F-4	CH329-152	VIS		
CH	FM-88B	G-1	CH194-152	VIS		
CH	FM-88B	F-6	CH302-1503	VIS		
CH	FM-88B	G-6	CH303-1503	VIS		
CH	FM-88B	H-3	CH306-602	VIS		
CH	FM-88B	B-2	CH307-602	VIS		
CH	FM-88B	A-3	CH308-1503	VIS		
CH	FM-88B	A-6	CH311-1503	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      184 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	A-7	CH312-1503	VIS		
CH	FM-88B	A-7	CH313-1503	VIS		
CH	FM-88B	H-4	CH317-152	VIS		
CH	FM-88B	G-8	CH318-152	VIS		
CH	FM-88B	I-7	CH319-152	VIS		
CH	FM-88B	F-6	CH321-1503	VIS		
CH	FM-88B	G-6	CH322-1503	VIS		
CH	FM-88B	G-2	CH323-152	VIS		
CH	FM-88B	H-2	CH324-152	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      185 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	I-3	CH358-152	VIS		
CH	FM-88B	I-3	CH359-152	VIS		
CH	FM-88B	G-2	CH367-152	VIS		
CH	FM-88B	C-6	CH369-1503	VIS		
CH	FM-88B	E-6	CH370-1503	VIS		
CH	FM-88B	G-6	CH371-1503	VIS		
CH	FM-88B	E-8	CH372-152	VIS		
CH	FM-88B	H-3	CH373-152	VIS		
CH	FM-88B	B-6	CH374-1503	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      186 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	B-6	CH375-152	VIS		
CH	FM-88B	B-6	CH376-1503	VIS		
CH	FM-88B	A-6	CH377-1503	VIS		
CH	FM-88B	A-4	CH379-1503	VIS		
CH	FM-88B	B-5	CH380-1503	VIS		
CH	FM-88B	D-6	CH381-1503	VIS		
CH	FM-88B	H-1	CH387-152	VIS		
CH	FM-88B	C-4	CH389-1503	VIS		
CH	FM-88B	B-6	CH390-1503	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      187 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	A-6	CH391-1503	VIS		
CH	FM-88B	A-3	CH399-152	VIS		
CH	FM-88B	F-3	CH400-152	VIS		
CH	FM-88B	H-3	CH412-152	VIS		
CH	FM-88B	E-4	CH413-1503	VIS		
CH	FM-88B	D-6	CH414-1503	VIS		
CH	FM-88B	F-3	CH417-152	VIS		
CH	FM-88B	G-3	CH418-152	VIS		
CH	FM-88B	I-1	CH419-152	VIS		


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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      188 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	H-2	CH420-152	VIS		
CH	FM-88B	J-1	CH421-152	VIS		
CH	FM-88B	D-1	CH425-602	VIS		
CH	FM-88B	G-2	CH463-152	VIS		
CH	FM-88B	J-3	CH464-152	VIS		
CH	FM-88B	H-3	CH465-152	VIS		
CH	FM-88B	G-7	CH487-1503	VIS		
CH	FM-88B	F-7	CH488-1503	VIS		
CH	FM-88B	D-7	CH489-1503	VIS		

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* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
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* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 05/01/83 TO 05/01/93
* ASME SECTION XI EDITION 80W80
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* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	F-4	CH491-152	VIS		
CH	FM-88B	D-3	CH492-152	VIS		
CH	FM-88B	J-1	CH493-152	VIS		
CH	FM-88B	G-1	CH494-152	VIS		
CH	FM-88B	G-2	CH499-152	VIS		
CH	FM-88B	H-7	CH501-152	VIS		
CH	FM-88B	G-7	CH502-152	VIS		
CH	FM-88B	E-7	CH503-152	VIS		
CH	FM-88B	B-8	CH504-152	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      190 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	C-8	CH505-152	VIS		
CH	FM-88B	C-8	CH506-152	VIS		
CH	FM-88B	D-8	CH507-1503	VIS		
CH	FM-88B	F-8	CH508-1503	VIS		
CH	FM-88B	H-8	CH509-1503	VIS		
CH	FM-88B	I-4	CH512-152	VIS		
CH	FM-88B	C-7	CH524-1503	VIS		
CH	FM-88B	E-7	CH525-1503	VIS		
CH	FM-88B	G-7	CH526-1503	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      191 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	A-4	CH531-1503	VIS		
CH	FM-88B	F-2	CH536-152	VIS		
CH	FM-88B	I-1	CH537-152	VIS		
CH	FM-88B	G-3	CH538-152	VIS		
CH	FM-88B	E-1	CH539-152	VIS		
CH	FM-88B	J-1	2CHFL2	VIS		
CH	FM-88B	E-3	2CHFL3	VIS		
CH	FM-88B	B-6	2CHFL4A	VIS		
CH	FM-88B	B-7	2CHFL4B	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      192 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	E-2	CH305-1502	VIS		
CH	FM-88C	I-2	CH306-602	VIS		
CH	FM-88C	E-6	CH315-1502	VIS		
CH	FM-88C	H-6	CH316-1502	VIS		
CH	FM-88C	F-2	CH382-1502	VIS		
CH	FM-88C	H-3	CH383-602	VIS		
CH	FM-88C	G-1	CH384-1502	VIS		
CH	FM-88C	H-3	CH385-602	VIS		
CH	FM-88C	H-2	CH386-602	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      193 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	H-8	CH392-1503	VIS		
CH	FM-88C	E-8	CH394-1503	VIS		
CH	FM-88C	B-8	CH396-1503	VIS		
CH	FM-88C	B-5	CH398-1502	VIS		
CH	FM-88C	G-4	CH399-152	VIS		
CH	FM-88C	E-5	CH401-1502	VIS		
CH	FM-88C	H-5	CH402-1502	VIS		
CH	FM-88C	C-5	CH403-1502	VIS		
CH	FM-88C	I-4	CH422-152	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      194 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	B-4	CH424-152	VIS		
CH	FM-88C	C-4	CH514-152	VIS		
CH	FM-88C	C-5	CH515-152	VIS		
CH	FM-88C	G-5	CH516-152	VIS		
CH	FM-88C	C-5	CH517-152	VIS		
CH	FM-88C	G-5	CH518-152	VIS		
CH	FM-88C	I-4	CH519-152	VIS		
CH	FM-88C	H-2	CH532-602	VIS		
CH	FM-88C	I-3	CH533-602	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      195 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CS	FM-84A	F-5	CS101-153	VIS		
CS	FM-84A	F-5	CS102-153	VIS		
CS	FM-84A	J-3	CS103-153	VIS		
CS	FM-84A	J-3	CS104-153	VIS		
CS	FM-84A	C-2	CS114-152	VIS		
CS	FM-84A	J-2	CS122-153	VIS		
CS	FM-84A	J-3	CS123-153	VIS		
CS	FM-84A	C-2	CS124-ICN1	VIS		
CS	FM-84A	G-4	CS133-153	VIS		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      196 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	H-4	CS134-153	VIS		
CS	FM-84A	G-4	CS135-153	VIS		
CS	FM-84A	H-4	CS136-153	VIS		
CS	FM-84A	G-2	CS174-153	VIS		
CS	FM-84A	G-2	CS175-153	VIS		
FW	FM-68A	B-5	WFPD109-601	VIS		
FW	FM-68A	B-4	WFPD113-601	VIS		
FW	FM-68A	B-2	WFPD117-601	VIS		
MS	FM-64A	B-3	SAE105-121	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      197 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	C-3	SDHV101-601	VIS		
MS	FM-64A	C-4	SDHV102-601	VIS		
MS	FM-64A	C-6	SDHV103-601	VIS		
MS	FM-64A	C-3	SDHV104-601	VIS		
MS	FM-64A	A-2	SHP101-601	VIS		
MS	FM-64A	A-4	SHP102-601	VIS		
MS	FM-64A	A-6	SHP103-601	VIS		
MS	FM-64A	B-3	SHP122-601	VIS		
MS	FM-64A	B-4	SHP123-601	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      198 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	B-6	SHP124-601	VIS		
MS	FM-64A	C-8	SHP128-601	VIS		
MS	FM-64A	C-8	SHP129-601	VIS		
MS	FM-64A	C-8	SHP130-601	VIS		
MS	FM-64A	F-8	SHP131-601	VIS		
MS	FM-64A	B-7	SHP132-601	VIS		
MS	FM-64A	C-8	SHP135-601	VIS		
MS	FM-64A	C-2	SHP137-601	VIS		
MS	FM-64A	B-4	SHP138-601	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      199 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	C-6	SHP139-601	VIS		
MS	FM-64A	D-2	SHP145-601	VIS		
MS	FM-64A	D-4	SHP146-601	VIS		
MS	FM-64A	C-6	SHP147-601	VIS		
MS	FM-64A	B-3	SSV101-121	VIS		
MS	FM-64A	B-3	SSV102-121	VIS		
MS	FM-64A	C-3	SSV103-121	VIS		
MS	FM-64A	C-3	SSV104-121	VIS		
MS	FM-64A	B-4	SSV106-121	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      200 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	B-4	SSV107-121	VIS		
MS	FM-64A	C-4	SSV108-121	VIS		
MS	FM-64A	C-4	SSV109-121	VIS		
MS	FM-64A	B-4	SSV110-121	VIS		
MS	FM-64A	B-6	SSV111-121	VIS		
MS	FM-64A	C-6	SSV112-121	VIS		
MS	FM-64A	C-6	SSV114-121	VIS		
MS	FM-64A	B-6	SSV115-121	VIS		
RHR	FM-87A	E-7	RH102-602	VIS		

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*          VIRGINIA ELECTRIC AND POWER COMPANY
*          SURRY          POWER STATION UNIT 2
*
*          INSERVICE INSPECTION PLAN SUMMARY
*          INTERVAL 2, 05/01/83 TO 05/01/93
*          ASME SECTION XI EDITION 80W80
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*          * PAGE      201 *
*          * REVISION  0001 *
*          * DATE    86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	G-3	RH103-602	VIS		
RHR	FM-87A	B-6	RH104-602	VIS		
RHR	FM-87A	C-6	RH105-602	VIS		
RHR	FM-87A	A-4	RH106-602	VIS		
RHR	FM-87A	C-4	RH107-602	VIS		
RHR	FM-87A	A-3	RH108-602	VIS		
RHR	FM-87A	B-3	RH109-602	VIS		
RHR	FM-87A	D-3	RH110-602	VIS		
RHR	FM-87A	F-6	RH111-602	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      202 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	E-5	RH112-602	VIS		
RHR	FM-87A	H-4	RH113-602	VIS		
RHR	FM-87A	I-5	RH114-602	VIS		
RHR	FM-87A	K-5	RH116-602	VIS		
RHR	FM-87A	E-7	RH118-602	VIS		
RHR	FM-87A	E-4	RH119-602	VIS		
RHR	FM-87A	B-5	RH121-602	VIS		
RHR	FM-87A	I-5	RH122-602	VIS		
RHR	FM-87A	K-5	RH137-602	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      203 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	C-6	RH150-602	VIS		
RS	FM-84B	J-4	RS101-153	VIS		
RS	FM-84B	H-4	RS102-153	VIS		
RS	FM-84B	K-2	RS103-153	VIS		
RS	FM-84B	I-2	RS104-153	VIS		
RS	FM-84B	E-8	RS107-153	VIS		
RS	FM-84B	E-8	RS108-153	VIS		
RS	FM-84B	E-4	RS109-153	VIS		
RS	FM-84B	C-3	RS110-153	VIS		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      204 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	H-2	RS111-153	VIS		
RS	FM-84B	F-2	RS112-153	VIS		
RS	FM-84B	D-6	RS114-153	VIS		
RS	FM-84B	K-1	RS120-153	VIS		
RS	FM-84B	J-1	RS121-153	VIS		
RS	FM-84B	H-1	RS122-153	VIS		
RS	FM-84B	G-1	RS123-153	VIS		
RS	FM-84B	E-8	RS124-153	VIS		
SI	FM-89B	G-8	SI201-153	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      205 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	G-8	SI202-153	VIS		
SI	FM-89A	H-8	SI205-153	VIS		
SI	FM-89A	F-4	SI207-152	VIS		
SI	FM-89A	G-5	SI213-153	VIS		
SI	FM-89A	G-5	SI214-153	VIS		
SI	FM-89A	D-6	SI216-153	VIS		
SI	FM-89A	E-6	SI217-152	VIS		
SI	FM-89A	E-6	SI218-152	VIS		
SI	FM-89A	E-6	SI219-152	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      206 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	F-2	SI220-1503	VIS		
SI	FM-89A	H-7	SI223-152	VIS		
SI	FM-89A	F-6	SI224-153	VIS		
SI	FM-89A	E-6	SI225-152	VIS		
SI	FM-89A	H-5	SI230-152	VIS		
SI	FM-89B	C-2	SI248-1502	VIS		
SI	FM-89B	C-3	SI249-1502	VIS		
SI	FM-89A	E-6	SI255-153	VIS		
SI	FM-89A	F-7	SI256-153	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      207 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	H-2	SI257-1503	VIS		
SI	FM-89A	H-2	SI258-1503	VIS		
SI	FM-89A	H-1	SI259-1503	VIS		
SI	FM-89A	E-1	SI268-1503	VIS		
SI	FM-89A	A-2	SI272-1503	VIS		
SI	FM-89A	E-6	SI278-152	VIS		
SI	FM-89A	G-7	SI283-153	VIS		
SI	FM-89A	D-8	SI284-152	VIS		
SI	FM-89A	B-2	SI290-1503	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
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*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      208 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	D-6	SI292-153	VIS		
SI	FM-89A	F-2	SI293-1503	VIS		
SI	FM-89A	F-4	SI302-152	VIS		
SI	FM-89A	D-6	SI306-152	VIS		
SI	FM-89A	I-6	SI330-152	VIS		
SI	FM-89A	J-4	SI331-152	VIS		
SI	FM-89A	C-7	SI332-153	VIS		
SI	FM-89A	C-8	SI333-ICN9	VIS		
SI	FM-89A	E-7	SI334-ICN9	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      209 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89A	D-8	SI335-ICN9	VIS		
SI	FM-89A	E-7	SI336-ICN9	VIS		
SI	FM-89A	F-7	SI337-153	VIS		
SI	FM-89A	F-8	SI338-ICN9	VIS		
SI	FM-89A	H-7	SI339-ICN9	VIS		
SI	FM-89A	H-8	SI340-ICN9	VIS		
SI	FM-89A	H-7	SI341-ICN9	VIS		
SI	FM-89A	B-2	SI347-1503	VIS		
SI	FM-89A	E-5	SI348-153	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      210 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89A	E-5	SI349-153	VIS		
SI	FM-89A	D-5	SI350-153	VIS		
SI	FM-89A	D-6	SI351-153	VIS		
SI	FM-89A	A-4	SI352-1502	VIS		
SI	FM-89A	D-6	SI360-153	VIS		
SI	FM-89A	C-2	SI361-1503	VIS		
SI	FM-89A	D-8	SI362-153	VIS		
SI	FM-89A	F-8	SI363-153	VIS		
SI	FM-89B	G-7	SI234-1502	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      211 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	D-5	SI236-602	VIS		
SI	FM-89B	B-5	SI245-1502	VIS		
SI	FM-89B	F-6	SI246-1502	VIS		
SI	FM-89B	C-3	SI250-1502	VIS		
SI	FM-89B	B-5	SI263-602	VIS		
SI	FM-89B	G-6	SI265-602	VIS		
SI	FM-89B	I-1	SI270-1503	VIS		
SI	FM-89B	E-1	SI271-1503	VIS		
SI	FM-89B	B-1	SI274-1502	VIS		


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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      212 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-2	SI275-1502	VIS		
SI	FM-89B	E-1	SI276-1503	VIS		
SI	FM-89B	B-1	SI285-1502	VIS		
SI	FM-89B	G-5	SI297-602	VIS		
SI	FM-89B	D-4	SI300-602	VIS		
SI	FM-89B	I-3	SI343-1502	VIS		
SI	FM-89B	B-1	SI344-1502	VIS		
SI	FM-89B	A-1	SI345-1502	VIS		
SI	FM-89B	I-1	SI346-1503	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      213 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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*****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-2	SI353-1502	VIS		
SI	FM-89B	D-1	SI354-1502	VIS		
SI	FM-89B	C-3	SI355-1502	VIS		
SI	FM-89B	D-1	SI356-1502	VIS		
SI	FM-89B	C-2	SI357-1502	VIS		
SI	FM-89B	D-2	SI358-1502	VIS		
SI	FM-89B	C-4	SI359-1502	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      214 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.30

ITEM DESCRIPTION : PUMPS PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	2RCPIA	VIS		
RC	FM-86A	A-6	2RCPIB	VIS		
RC	FM-86A	L-1	2RCPI C	VIS		
RHR	FM-87A	C-6	2RHP1A	VIS		
RHR	FM-87A	C-6	2RHP1B	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      215 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.31

ITEM DESCRIPTION : PUMPS PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	2RCP1A	VIS		
RC	FM-86A	A-6	2RCP1B	VIS		
RC	FM-86A	L-1	2RCP1C	VIS		
RHR	FM-87A	C-6	2RHP1A	VIS		
RHR	FM-87A	C-6	2RHP1B	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      216 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.40

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	C-5	WFPD109-601	VIS		
FW	FM-68A	C-3	WFPD113-601	VIS		
FW	FM-68A	C-2	WFPD117-601	VIS		
MS	FM-64A	B-3	SHPI01-601	VIS		
MS	FM-64A	A-4	SHPI02-601	VIS		
MS	FM-64A	B-5	SHPI03-601	VIS		
MS	FM-64A	B-3	SHPI22-601	VIS		
MS	FM-64A	B-4	SHPI23-601	VIS		
MS	FM-64A	B-6	SHPI24-601	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      217 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.40

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	D-3	SHP145-601	VIS		
MS	FM-64A	D-5	SHP146-601	VIS		
MS	FM-64A	D-6	SHP147-601	VIS		
RHR	FM-87A	E-6	RH102-602	VIS		
RHR	FM-87A	B-6	RH104-602	VIS		
RHR	FM-87A	D-6	RH105-602	VIS		
RHR	FM-87A	A-3	RH108-602	VIS		
RHR	FM-87A	I-5	RH109-602	VIS		
RHR	FM-87A	D-3	RH110-602	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      218 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.40

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	C-3	RH112-602	VIS		
RHR	FM-87A	B-3	RH114-602	VIS		
RHR	FM-87A	D-3	RH116-602	VIS		
RHR	FM-87A	C-6	RH118-602	VIS		
RHR	FM-87A	G-4	RH119-602	VIS		
SI	FM-89B	C-2	SI248-1502	VIS		
SI	FM-89B	C-3	SI249-1502	VIS		
SI	FM-89A	B-6	SI352-1502	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      219 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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*****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.41

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	C-5	WFPD109-601	VIS		
FW	FM-68A	C-3	WFPD113-601	VIS		
FW	FM-68A	C-2	WFPD117-601	VIS		
MS	FM-64A	B-3	SHP101-601	VIS		
MS	FM-64A	A-4	SHP102-601	VIS		
MS	FM-64A	B-5	SHP103-601	VIS		
MS	FM-64A	B-3	SHP122-601	VIS		
MS	FM-64A	B-4	SHP123-601	VIS		
MS	FM-64A	B-6	SHP124-601	VIS		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      220 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
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* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.41

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	D-3	SHP145-601	VIS		
MS	FM-64A	D-5	SHP146-601	VIS		
MS	FM-64A	D-6	SHP147-601	VIS		
RHR	FM-87A	E-6	RH102-602	VIS		
RHR	FM-87A	B-6	RH104-602	VIS		
RHR	FM-87A	D-6	RH105-602	VIS		
RHR	FM-87A	A-3	RH108-602	VIS		
RHR	FM-87A	I-5	RH109-602	VIS		
RHR	FM-87A	D-3	RH110-602	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      221 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
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ITEM NUMBER : C7.41

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	C-3	RH112-602	VIS		
RHR	FM-87A	B-3	RH114-602	VIS		
RHR	FM-87A	D-3	RH116-602	VIS		
RHR	FM-87A	C-6	RH118-602	VIS		
RHR	FM-87A	G-4	RH119-602	VIS		
SI	FM-89B	C-2	SI248-1502	VIS		
SI	FM-89B	C-3	SI249-1502	VIS		
SI	FM-89A	B-6	SI352-1502	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      222 *
*               * REVISION  0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-71B	D-7	CC365-151	VIS		
CC	FM-71B	G-6	CC366-151	VIS		
CC	FM-71B	F-7	CC367-151	VIS		
CC	FM-71B	E-6	CC369-151	VIS		
CC	FM-71B	D-5	CC370-151	VIS		
CC	FM-71B	G-5	CC371-151	VIS		
CC	FM-71B	E-5	CC372-151	VIS		
CC	FM-71B	C-5	CC373-151	VIS		
CC	FM-71B	I-5	CC374-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      223 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-71B	G-5	CC375-151	VIS		
CC	FM-71B	H-4	CC376-151	VIS		
CC	FM-71B	E-4	CC377-151	VIS		
CC	FM-71B	B-4	CC378-151	VIS		
CC	FM-71B	G-5	CC379-151	VIS		
CC	FM-71B	H-5	CC380-151	VIS		
CC	FM-71B	E-6	CC381-151	VIS		
CC	FM-71B	E-5	CC385-151	VIS		
CC	FM-72A	A-8	CC161-151	VIS		

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* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 05/01/83 TO 05/01/93
* ASME SECTION XI EDITION 80W80
*
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* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-7	CC162-151	VIS		
CC	FM-72A	A-7	CC163-151	VIS		
CC	FM-72A	A-8	CC164-151	VIS		
CC	FM-72A	A-8	CC165-151	VIS		
CC	FM-72A	C-8	CC166-151	VIS		
CC	FM-72A	C-8	CC167-151	VIS		
CC	FM-72A	C-8	CC168-151	VIS		
CC	FM-72A	A-6	CC169-151	VIS		
CC	FM-72A	B-4	CC170-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      225 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-5	CC171-151	VIS		
CC	FM-72A	A-5	CC172-151	VIS		
CC	FM-72A	B-4	CC173-151	VIS		
CC	FM-72A	D-5	CC174-151	VIS		
CC	FM-72A	D-5	CC175-151	VIS		
CC	FM-72A	C-7	CC176-151	VIS		
CC	FM-72A	A-3	CC177-151	VIS		
CC	FM-72A	A-2	CC178-151	VIS		
CC	FM-72A	A-3	CC179-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      226 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72A	A-3	CC180-151	VIS		
CC	FM-72A	C-2	CC181-151	VIS		
CC	FM-72A	D-3	CC182-151	VIS		
CC	FM-72A	C-3	CC183-151	VIS		
CC	FM-72A	F-7	CC185-151	VIS		
CC	FM-72A	F-4	CC187-151	VIS		
CC	FM-72A	F-5	CC188-151	VIS		
CC	FM-72A	F-6	CC189-151	VIS		
CC	FM-72A	G-7	CC190-151	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      227 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72A	G-4	CC192-151	VIS		
CC	FM-72A	H-6	CC194-151	VIS		
CC	FM-72A	A-2	CC208-151	VIS		
CC	FM-72A	D-2	CC209-151	VIS		
CC	FM-72A	B-4	CC210-151	VIS		
CC	FM-72A	D-4	CC211-151	VIS		
CC	FM-72A	A-7	CC212-151	VIS		
CC	FM-72A	G-1	CC215-151	VIS		
CC	FM-72A	G-2	CC219-151	VIS		


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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      228 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72A	E-1	CC253-151	VIS		
CC	FM-72A	G-8	CC254-151	VIS		
CC	FM-72A	G-7	CC272-151	VIS		
CC	FM-72A	G-7	CC275-151	VIS		
CC	FM-72B	E-3	CC153-151	VIS		
CC	FM-72B	C-2	CC154-151	VIS		
CC	FM-72B	D-3	CC155-151	VIS		
CC	FM-72B	D-2	CC186-151	VIS		
CC	FM-72B	C-2	CC191-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      229 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
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*****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72B	G-2	CC263-151	VIS		
CC	FM-72B	F-2	CC276-151	VIS		
CC	FM-72E	F-6	CC143-121	VIS		
CC	FM-72E	F-3	CC144-151	VIS		
CC	FM-72E	F-3	CC145-151	VIS		
CC	FM-72E	H-3	CC146-151	VIS		
CC	FM-72E	I-3	CC148-151	VIS		
CC	FM-72E	E-1	CC72-121	VIS		
CC	FM-72F	D-3	CC149-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      230 *
*               * REVISION 0001 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72F	B-3	CC152-121	VIS		
CC	FM-72F	E-3	CC156-151	VIS		
CC	FM-72F	D-2	CC159-151	VIS		
CC	FM-72F	D-3	CC160-151	VIS		
CC	FM-72F	C-2	CC163-151	VIS		
CC	FM-72F	B-3	CC181-121	VIS		
CH	FM-88B	L-4	CH342-152	VIS		
CH	FM-88B	L-4	CH356-152	VIS		
CH	FM-88B	K-4	CH357-152	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      231 *
*                               * REVISION 0001 *
*                               * DATE  86/10/20 *
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* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	J-4	CH358-152	VIS		
CH	FM-88B	J-4	CH495-152	VIS		
FW	FM-68A	G-8	WAPD-151	VIS		
FW	FM-68A	D-6	WAPD101-601	VIS		
FW	FM-68A	D-6	WAPD102-601	VIS		
FW	FM-68A	D-7	WAPD103-601	VIS		
FW	FM-68A	D-6	WAPD104-601	VIS		
FW	FM-68A	E-6	WAPD105-601	VIS		
FW	FM-68A	E-6	WAPD106-601	VIS		

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*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
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*                * PAGE      232 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY D-A    SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	F-6	WAPD107-601	VIS		
FW	FM-68A	F-6	WAPD108-601	VIS		
FW	FM-68A	C-4	WAPD109-601	VIS		
FW	FM-68A	C-6	WAPD110-601	VIS		
FW	FM-68A	B-5	WAPD111-601	VIS		
FW	FM-68A	B-6	WAPD112-601	VIS		
FW	FM-68A	B-6	WAPD113-601	VIS		
FW	FM-68A	B-6	WAPD114-601	VIS		
FW	FM-68A	D-7	WAPD115-601	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      233 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	D-6	WAPD116-151	VIS		
FW	FM-68A	E-7	WAPD117-601	VIS		
FW	FM-68A	F-6	WAPD118-151	VIS		
FW	FM-68A	F-L	WAPD119-151	VIS		
FW	FM-68A	F-7	WAPD120-601	VIS		
FW	FM-68A	G-6	WAPD121-151	VIS		
FW	FM-68A	B-7	WAPD150-601	VIS		
FW	FM-68A	B-L	WAPD151-601	VIS		
FW	FM-68A	C-6	WAPD52-601	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      234 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	G-8	WCMU-151	VIS		
FW	FM-68A	H-8	WCMU104-151	VIS		
FW	FM-68A	H-8	WCMU105-151	VIS		
FW	FM-68A	H-8	WCMU106-151	VIS		
FW	FM-68A	H-8	WCMU107-151	VIS		
FW	FM-68A	E-8	WCMU108-151	VIS		
FW	FM-68A	F-8	WCMU109-151	VIS		
FW	FM-68A	E-8	WCMU110-151	VIS		
MS	FM-64A	B-4	SHP125-601	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               * PAGE      235 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
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* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	B-6	SHP126-601	VIS		
MS	FM-64A	B-7	SHP127-601	VIS		
MS	FM-64A	G-8	SHP157-601	VIS		
SI	FM-89A	G-2	SI260-1503	VIS		
SI	FM-89A	I-1	SI287-1503	VIS		


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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      236 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-71B	D-7	CC365-151	VIS		
CC	FM-71B	G-6	CC366-151	VIS		
CC	FM-71B	F-7	CC367-151	VIS		
CC	FM-71B	E-6	CC369-151	VIS		
CC	FM-71B	D-5	CC370-151	VIS		
CC	FM-71B	G-5	CC371-151	VIS		
CC	FM-71B	E-5	CC372-151	VIS		
CC	FM-71B	C-5	CC373-151	VIS		
CC	FM-71B	I-5	CC374-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      237 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-71B	G-5	CC375-151	VIS		
CC	FM-71B	H-4	CC376-151	VIS		
CC	FM-71B	E-4	CC377-151	VIS		
CC	FM-71B	B-4	CC378-151	VIS		
CC	FM-71B	G-5	CC379-151	VIS		
CC	FM-71B	H-5	CC380-151	VIS		
CC	FM-71B	E-6	CC381-151	VIS		
CC	FM-71B	E-5	CC385-151	VIS		
CC	FM-72A	A-8	CC161-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               * PAGE      238 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-7	CC162-151	VIS		
CC	FM-72A	A-7	CC163-151	VIS		
CC	FM-72A	A-8	CC164-151	VIS		
CC	FM-72A	A-8	CC165-151	VIS		
CC	FM-72A	C-8	CC166-151	VIS		
CC	FM-72A	C-8	CC167-151	VIS		
CC	FM-72A	C-8	CC168-151	VIS		
CC	FM-72A	A-6	CC169-151	VIS		
CC	FM-72A	B-4	CC170-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      239 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72A	A-5	CC171-151	VIS		
CC	FM-72A	A-5	CC172-151	VIS		
CC	FM-72A	B-4	CC173-151	VIS		
CC	FM-72A	D-5	CC174-151	VIS		
CC	FM-72A	D-5	CC175-151	VIS		
CC	FM-72A	C-7	CC176-151	VIS		
CC	FM-72A	A-3	CC177-151	VIS		
CC	FM-72A	A-2	CC178-151	VIS		
CC	FM-72A	A-3	CC179-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      240 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-3	CC180-151	VIS		
CC	FM-72A	C-2	CC181-151	VIS		
CC	FM-72A	D-3	CC182-151	VIS		
CC	FM-72A	C-3	CC183-151	VIS		
CC	FM-72A	F-7	CC185-151	VIS		
CC	FM-72A	F-4	CC187-151	VIS		
CC	FM-72A	F-5	CC188-151	VIS		
CC	FM-72A	F-6	CC189-151	VIS		
CC	FM-72A	G-7	CC190-151	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      241  *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	G-4	CC192-151	VIS		
CC	FM-72A	H-6	CC194-151	VIS		
CC	FM-72A	A-2	CC208-151	VIS		
CC	FM-72A	D-2	CC209-151	VIS		
CC	FM-72A	B-4	CC210-151	VIS		
CC	FM-72A	D-4	CC211-151	VIS		
CC	FM-72A	A-7	CC212-151	VIS		
CC	FM-72A	G-1	CC215-151	VIS		
CC	FM-72A	G-2	CC219-151	VIS		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 242 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	E-1	CC253-151	VIS		
CC	FM-72A	6-8	CC254-151	VIS		
CC	FM-72A	6-7	CC272-151	VIS		
CC	FM-72A	6-7	CC275-151	VIS		
CC	FM-72B	E-3	CC153-151	VIS		
CC	FM-72B	C-2	CC154-151	VIS		
CC	FM-72B	D-3	CC155-151	VIS		
CC	FM-72B	D-2	CC186-151	VIS		
CC	FM-72B	C-2	CC191-151	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      243 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72B	G-2	CC263-151	VIS		
CC	FM-72B	F-2	CC276-151	VIS		
CC	FM-72E	F-6	CC143-121	VIS		
CC	FM-72E	F-3	CC144-151	VIS		
CC	FM-72E	F-3	CC145-151	VIS		
CC	FM-72E	H-3	CC146-151	VIS		
CC	FM-72E	I-3	CC148-151	VIS		
CC	FM-72E	E-1	CC72-121	VIS		
CC	FM-72F	D-3	CC149-151	VIS		


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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      244 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : 01.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72F	B-3	CC152-121	VIS		
CC	FM-72F	E-3	CC156-151	VIS		
CC	FM-72F	D-2	CC159-151	VIS		
CC	FM-72F	D-3	CC160-151	VIS		
CC	FM-72F	C-2	CC163-151	VIS		
CC	FM-72F	B-3	CC181-121	VIS		
CH	FM-88B	L-4	CH342-152	VIS		
CH	FM-88B	L-4	CH356-152	VIS		
CH	FM-88B	K-4	CH357-152	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      245 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.105

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	J-4	CH358-152	VIS		
CH	FM-88B	J-4	CH495-152	VIS		
FW	FM-68A	G-8	WAPD-151	VIS		
FW	FM-68A	D-6	WAPD101-601	VIS		
FW	FM-68A	D-6	WAPD102-601	VIS		
FW	FM-68A	D-7	WAPD103-601	VIS		
FW	FM-68A	D-6	WAPD104-601	VIS		
FW	FM-68A	E-6	WAPD105-601	VIS		
FW	FM-68A	E-6	WAPD106-601	VIS		

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*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      246 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	F-6	WAPD107-601	VIS		
FW	FM-68A	F-6	WAPD108-601	VIS		
FW	FM-68A	C-4	WAPD109-601	VIS		
FW	FM-68A	C-6	WAPD110-601	VIS		
FW	FM-68A	B-5	WAPD111-601	VIS		
FW	FM-68A	B-6	WAPD112-601	VIS		
FW	FM-68A	B-6	WAPD113-601	VIS		
FW	FM-68A	B-6	WAPD114-601	VIS		
FW	FM-68A	D-7	WAPD115-601	VIS		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 05/01/83 TO 05/01/93 * PAGE 247 *
* ASME SECTION XI EDITION 80W80 * REVISION 0001 *
* * DATE 86/10/20 *
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	D-6	WAPD116-151	VIS		
FW	FM-68A	E-7	WAPD117-601	VIS		
FW	FM-68A	F-6	WAPD118-151	VIS		
FW	FM-68A	F-L	WAPD119-151	VIS		
FW	FM-68A	F-7	WAPD120-601	VIS		
FW	FM-68A	G-6	WAPD121-151	VIS		
FW	FM-68A	B-7	WAPD150-601	VIS		
FW	FM-68A	B-L	WAPD151-601	VIS		
FW	FM-68A	C-6	WAPD52-601	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      248 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	G-8	WCMU-151	VIS		
FW	FM-68A	H-8	WCMU104-151	VIS		
FW	FM-68A	H-8	WCMU105-151	VIS		
FW	FM-68A	H-8	WCMU106-151	VIS		
FW	FM-68A	H-8	WCMU107-151	VIS		
FW	FM-68A	E-8	WCMU108-151	VIS		
FW	FM-68A	F-8	WCMU109-151	VIS		
FW	FM-68A	E-8	WCMU110-151	VIS		
MS	FM-64A	B-4	SHP125-601	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      249 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
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ITEM NUMBER : D1.10S

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	B-6	SHP126-601	VIS		
MS	FM-64A	B-7	SHP127-601	VIS		
MS	FM-64A	G-8	SHP157-601	VIS		
SI	FM-89A	G-2	SI260-1503	VIS		
SI	FM-89A	I-1	SI287-1503	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      250 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-B   ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
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ITEM NUMBER : D2.10H

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-71B	B-1	WS179-21B	VIS		
SW	FM-71A	E-6	WC101-10	VIS		
SW	FM-71A	E-6	WC102-10	VIS		
SW	FM-71A	F-6	WC103-10	VIS		
SW	FM-71A	F-6	WC104-10	VIS		
SW	FM-71A	C-7	WS101-10	VIS		
SW	FM-71A	C-7	WS102-10	VIS		
SW	FM-71A	C-7	WS104-10	VIS		
SW	FM-71A	E-7	WS121-10	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      251 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
*               *****
* CATEGORY D-B - ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
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ITEM NUMBER : D2.10H

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SW	FM-71A	D-6	WS122-10	VIS		
SW	FM-71A	B-7	WS123-10	VIS		
SW	FM-71A	B-7	WS124-10	VIS		
SW	FM-71A	A-3	WS126-10	VIS		
SW	FM-71A	B-3	WS128-10	VIS		
SW	FM-71A	C-3	WS130-10	VIS		
SW	FM-71A	C-3	WS132-10	VIS		
SW	FM-71A	A-3	WS133-10	VIS		
SW	FM-71A	B-3	WS134-10	VIS		


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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      252 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-B   ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.10H

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	B-3	WS135-10	VIS		
SW	FM-71A	C-3	WS136-10	VIS		
SW	FM-71A	D-3	WS137-10	VIS		
SW	FM-71A	D-3	WS138-10	VIS		
SW	FM-71B	D-8	WS170-136	VIS		
SW	FM-71B	D-8	WS171-136	VIS		
SW	FM-71B	G-8	WS172-136	VIS		
SW	FM-71B	G-8	WS173-136	VIS		
SW	FM-71B	D-7	WS174-21B	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      253 *
*                               * REVISION 0001 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.10H

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SW	FM-71B	G-7	WS175-21B	VIS		
SW	FM-71B	E-8	WS176-21B	VIS		
SW	FM-71B	B-6	WS178-136	VIS		
SW	FM-71B	H-1	WS180-21B	VIS		
SW	FM-71B	D-1	WS181-21B	VIS		
SW	FM-71B	H-1	WS182-21B	VIS		
SW	FM-71B	E-1	WS183-21B	VIS		
SW	FM-71B	A-1	WS185-21B	VIS		
SW	FM-71B	D-1	WS186-21B	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      254 *
*               * REVISION  0001 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY D-B   ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.10H

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11548)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SW	FM-71B	H-1	WS187-21B	VIS		
SW	FM-71B	D-1	WS188-21B	VIS		
SW	FM-71B	D-7	WS190-136	VIS		

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*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 2
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 05/01/83 TO 05/01/93
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.10S

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-71B	B-1	WS179-21B	VIS		
SW	FM-71A	E-6	WC101-10	VIS		
SW	FM-71A	E-6	WC102-10	VIS		
SW	FM-71A	F-6	WC103-10	VIS		
SW	FM-71A	F-6	WC104-10	VIS		
SW	FM-71A	C-7	WS101-10	VIS		
SW	FM-71A	C-7	WS102-10	VIS		
SW	FM-71A	C-7	WS104-10	VIS		
SW	FM-71A	E-7	WS121-10	VIS		

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*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      256 *
*               * REVISION 0001 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-B   ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.10S

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	D-6	WS122-10	VIS		
SW	FM-71A	B-7	WS123-10	VIS		
SW	FM-71A	B-7	WS124-10	VIS		
SW	FM-71A	A-3	WS126-10	VIS		
SW	FM-71A	B-3	WS128-10	VIS		
SW	FM-71A	C-3	WS130-10	VIS		
SW	FM-71A	C-3	WS132-10	VIS		
SW	FM-71A	A-3	WS133-10	VIS		
SW	FM-71A	B-3	WS134-10	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      257 *
*                               * REVISION  0001 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.10S

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	B-3	WS135-10	VIS		
SW	FM-71A	C-3	WS136-10	VIS		
SW	FM-71A	D-3	WS137-10	VIS		
SW	FM-71A	D-3	WS138-10	VIS		
SW	FM-71B	D-8	WS170-136	VIS		
SW	FM-71B	D-8	WS171-136	VIS		
SW	FM-71B	G-8	WS172-136	VIS		
SW	FM-71B	G-8	WS173-136	VIS		
SW	FM-71B	D-7	WS174-21B	VIS		

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*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 2
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 05/01/83 TO 05/01/93
*                ASME SECTION XI EDITION 80W80
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*                *****
*                * PAGE      258 *
*                * REVISION 0001 *
*                * DATE 86/10/20 *
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* CATEGORY D-B    ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.10S

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71B	G-7	WS175-21B	VIS		
SW	FM-71B	E-8	WS176-21B	VIS		
SW	FM-71B	B-6	WS178-136	VIS		
SW	FM-71B	H-1	WS180-21B	VIS		
SW	FM-71B	D-1	WS181-21B	VIS		
SW	FM-71B	H-1	WS182-21B	VIS		
SW	FM-71B	E-1	WS183-21B	VIS		
SW	FM-71B	A-1	WS185-21B	VIS		
SW	FM-71B	D-1	WS186-21B	VIS		

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*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 2
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 05/01/83 TO 05/01/93
*               ASME SECTION XI EDITION 80W80
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*               *****
*               * PAGE      259 *
*               * REVISION  0001 *
*               * DATE    86/10/20 *
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* CATEGORY D-B   ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.105

ITEM DESCRIPTION : COMPONENT IN SUPPORT OF ECCS, CHR, ACU, | RHR - SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71B	H-1	WS187-21B	VIS		
SW	FM-71B	D-1	WS188-21B	VIS		
SW	FM-71B	D-7	WS190-136	VIS		


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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               *****
*                               * PAGE      260 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.20

ITEM DESCRIPTION : INTEGRAL ATTACHMENT-SUPPORTS | RESTRAINTS FOR ECCS, ETC.

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
AF	FM-68A	E-6	WAPD101-601	VIS		
AF	FM-68A	E-6	WAPD102-601	VIS		
AF	FM-68A	E-6	WAPD104-601	VIS		
AF	FM-68A	H-8	WCMU105-151	VIS		
AF	FM-68A	H-8	WCMU106-151	VIS		
AF	FM-68A	H-8	WCMU107-151	VIS		
AF	FM-68A	F-8	WCMU108-151	VIS		
CC	FM-72A	K-3	CC7-121	VIS		
CC	FM-72B	D-3	CC156-151	VIS		

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*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 2
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 05/01/83 TO 05/01/93
*                               ASME SECTION XI EDITION 80W80
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*                               * PAGE      261 *
*                               * REVISION  0001 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
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ITEM NUMBER : D2.20

ITEM DESCRIPTION : INTEGRAL ATTACHMENT-SUPPORTS | RESTRAINTS FOR ECCS, ETC.

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11548) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72B	F-3	CC160-151	VIS		
CH	FM-88C	G-4	CH399-152	VIS		

RELIEF REQUEST NO. SR-001

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

In Class 1 systems, valves which are greater than four inches nominal pipe size are subject to visual examination. These valves vary in size, design and manufacturer but are all manufactured from either cast stainless steel or carbon steel. None of the valve bodies are welded.

Section XI of the ASME Code, 1980 Edition through the Winter 1980 Addendum, requires that a visual examination be performed on the internal pressure boundary surfaces of one valve in each group of valves of the same constructional design and manufacturing method that perform similar functions in the system. (Category B-M-2).

Since these examinations must be met whether or not the valves have to be disassembled for maintenance, this requirement is considered impractical.

II. BASIS FOR RELIEF

The requirement to disassemble primary system valves for the sole purpose of performing a visual examination of the internal pressure boundary surfaces has only a very small potential of increasing plant safety margins and a very disproportionate impact on expenditures of plant manpower and radiation exposure.

Performing these visual examinations, under such adverse conditions as high dose rates and poor as-cast surface condition, realistically, provides little additional information as to the valve casing integrity.

The performance of both carbon and stainless cast valve bodies has been excellent in PWR applications. Based on this experience and both industry and regulatory acceptance of these alloys, continued excellent service performance is anticipated.

A more practical approach that would essentially provide an equivalent sampling program and significantly reduced radiation exposure to plant personnel is to inspect the internal pressure boundary of only those valves that require disassembly for maintenance purposes. This would still provide a reasonable sampling of primary system valves and give adequate assurance that the integrity of these components is being maintained.

III. ALTERNATE PROVISIONS

A valve wall thickness measurement will be performed on valves that are not disassembled for maintenance purposes and an examination of the internal pressure boundary surfaces will be performed, to the extent practical, each time a valve is disassembled for maintenance purposes.

Note: This relief request has been modified as requested by letter from Lester S. Rubenstein dated January 24, 1986.

RELIEF REQUEST NO. SR-002

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The design of the Residual Heat Removal Heat Exchanger nozzle to vessel welds calls for the use of a reinforcement pad. These pads are fillet welded and completely encase the nozzle to vessel weld.

Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addendum, requires a volumetric and surface examination of the nozzle inside radius section (Category C-B).

Relief from this requirement is requested due to the physical inaccessibility of the subject weld.

II. BASIS FOR RELIEF

The fabrication of these welds precludes any type of surface or volumetric examination. Additional assurance of the continued integrity of these welds is afforded by the fact that the reinforcement pads strengthen the welds and reduce stresses on the internal welds.

III. ALTERNATE PROVISIONS

A surface examination on the fillet weld of the reinforcement pads will be performed.

Note: This relief request has been modified as requested by letter from Lester S. Rubenstein dated January 24, 1986

RELIEF REQUEST NO. SR-003

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The configuration of the Reactor Coolant branch nozzle connection welds precluded complete examination.

Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addendum, requires a volumetric and surface examination of branch pipe connection welds on piping having a nominal pipe size of four inches or greater. In particular, paragraph III-4430 requires an angle beam examination of the weld root from the weld crown.

Relief is requested from the requirements of paragraph III-4430 due to physical configuration of these branch nozzle connection welds.

II. BASIS FOR RELIEF

Due to the configuration of the weld crown, transducer contact cannot be maintained on the weld. The slope of the weld crown precludes examination of the weld root when scanning from the weld crown.

III. ALTERNATE PROVISIONS

The volumetric examinations on these welds will be performed to the extent practical.

Note: This relief request was granted by letter from Mr. Lester S. Rubenstein dated January 24, 1986 and is included for reference and information only.

RELIEF REQUEST NO. SR-004

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The Reactor Coolant Filter has three circumferential welds subject to examination.

Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addendum, requires a volumetric examination of circumferential shell welds (Category C-A).

II. BASIS FOR RELIEF

The stainless steel material and thickness (0.188") preclude any type of meaningful examination by ultrasonic examination.

III. ALTERNATE PROVISIONS

A surface examinations will be performed in lieu of the volumetric examination.

Note: This relief request was granted by letter from Mr. Lester S. Rubenstein dated January 24, 1986 and is included for reference and information only.

RELIEF REQUEST NO. SR-005

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The shell to top head circumferential weld on the Surry 2 Pressurizer is not accessible for examination. Additionally the 1 foot intersecting longitudinal weld is also inaccessible.

Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addendum, requires a volumetric examination for both the circumferential and longitudinal welds (Category B-B).

Relief is requested from this requirement due to the physical inaccessibility of the welds.

II. BASIS FOR RELIEF

The shell to top head circumferential weld and intersecting longitudinal weld are inaccessible for either a volumetric or surface examination due to interference from the insulation support ring. The insulation support ring covers weld #7 entirely. Inspection of the intersection of longitudinal weld #2 with weld #7 is prevented by a support column. (see attached drawings).

III. ALTERNATE PROVISIONS

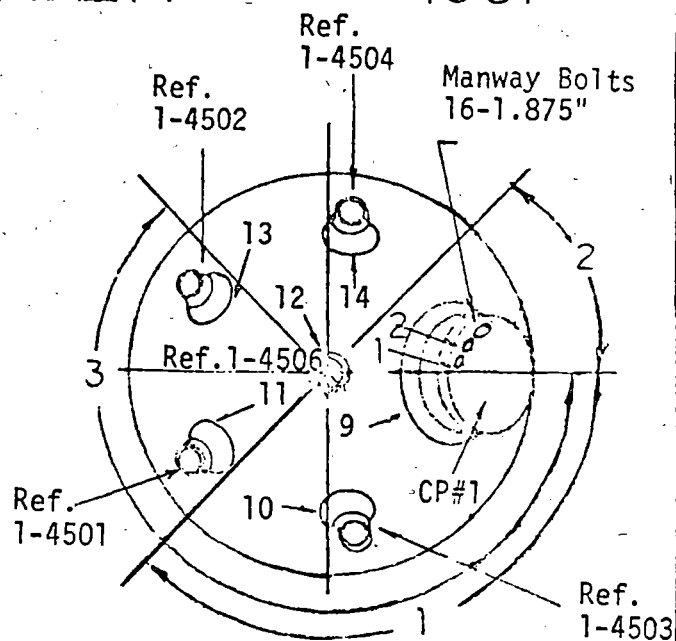
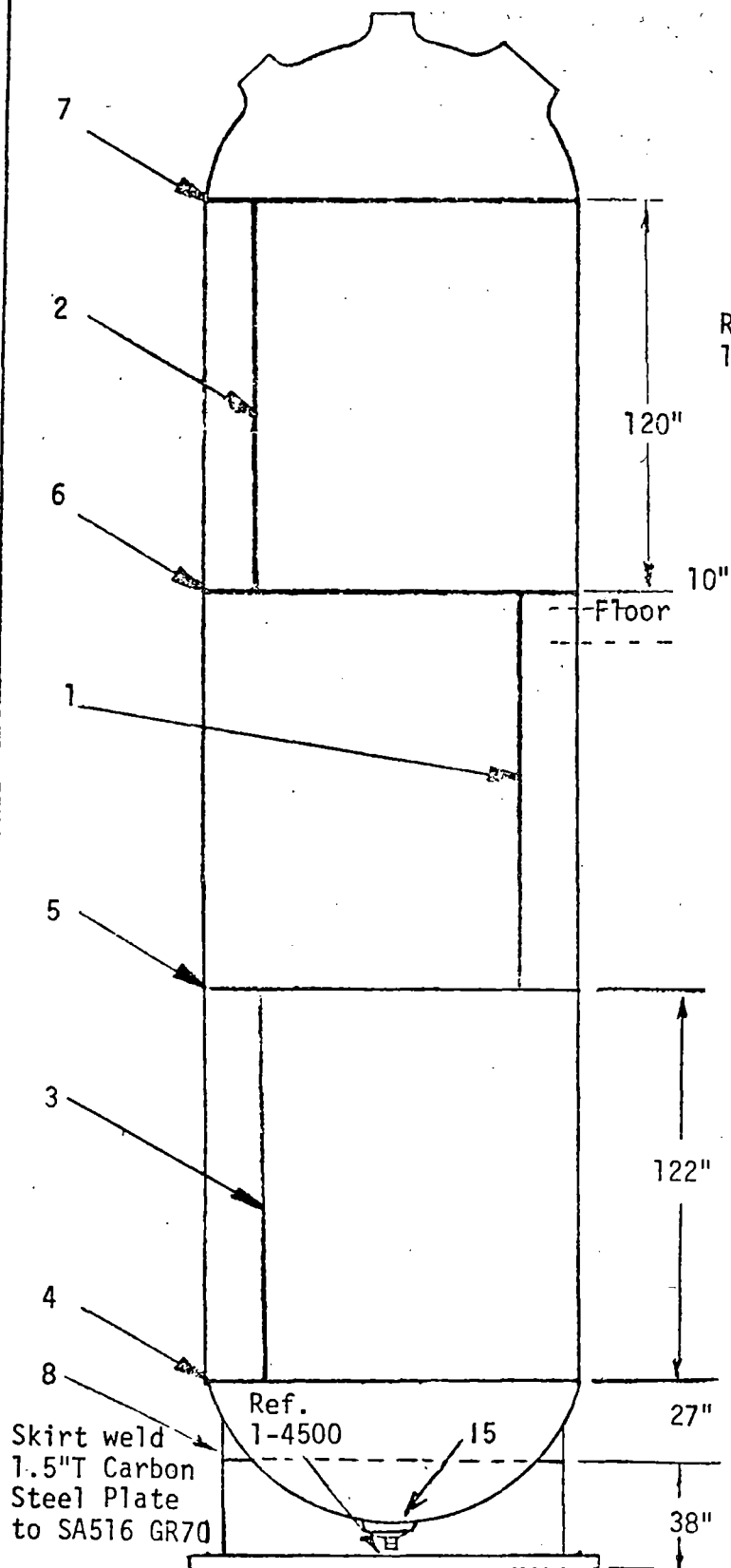
A visual (VT-2) examination for evidence of leakage will be performed during system pressure tests.

NOTE: In reference to the letter written 1/24/86 by Lester S. Rubenstein to W. L. Stewart, relief request SR-5 was denied because inadequate information was submitted. This relief request is now being resubmitted, providing the necessary information. In addition to the problem with weld #7 mentioned in the first request, inaccessibility to weld #2 has also been discussed in this revised relief request.

ILLUSTRATIVE ONLY

PRESSURIZER

VIR-2100
1981



LONG SEAM ORIENTATION

- 1 = 118"
- 2 = 69" CW: 255"CCW
- 3 = 216"
- 10 = .89"

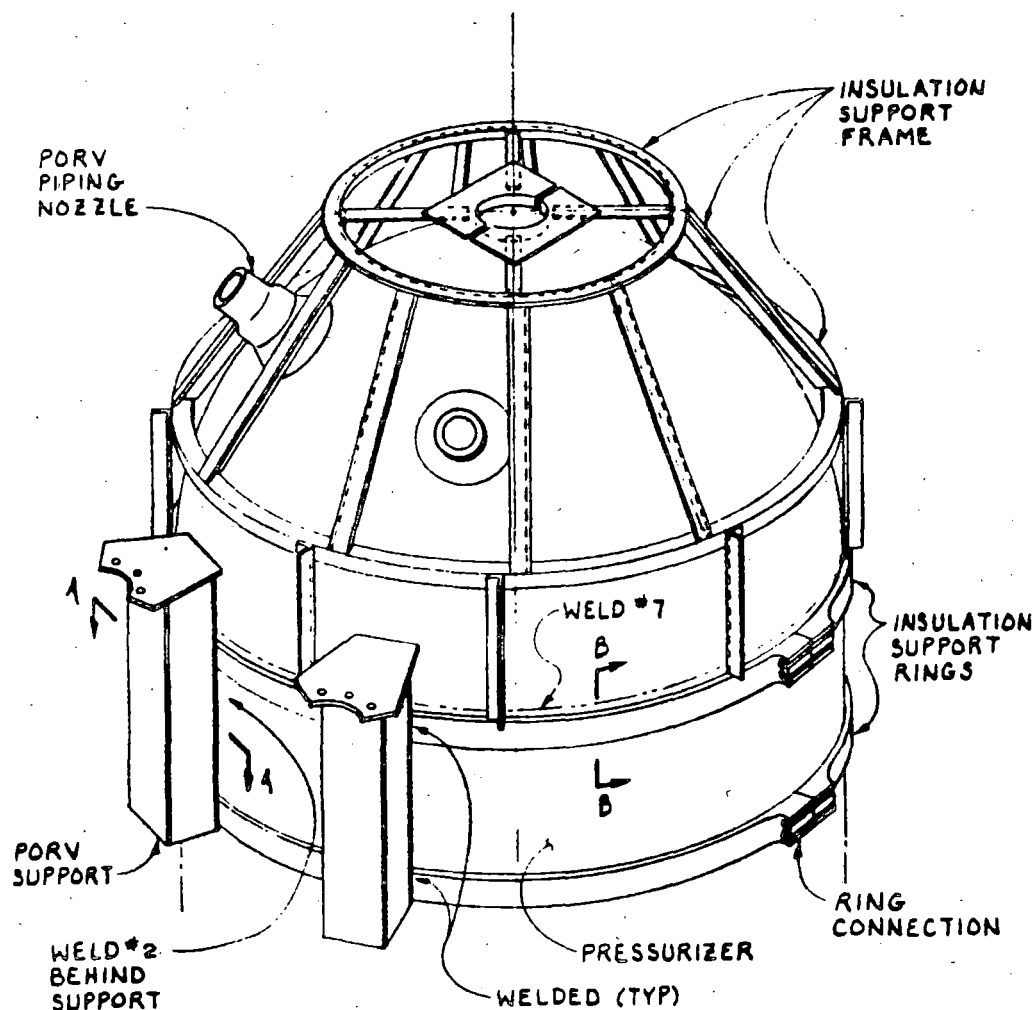
Note: All circumferential measurements taken over 5" of insulation.

Diameter: 92.375"
Circumference: 290.05"

Welds 1 thru 7: 4.375" T
Material: SA 302 GRADE B

Weld 7 not accessible for examination (Support Ring)

Welds 9 thru 15: Reference Only (areas are cast to vessel)

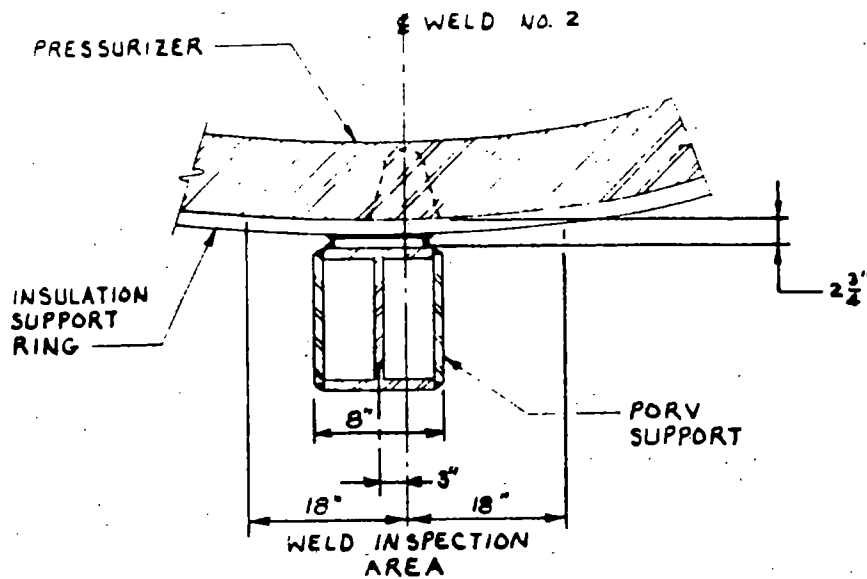


INSULATION SUPPORT 150
(FOR STUDY OF INTERFERENCES
WITH 151 NDE OF PRESSURIZER
WELDS #7 & 2)

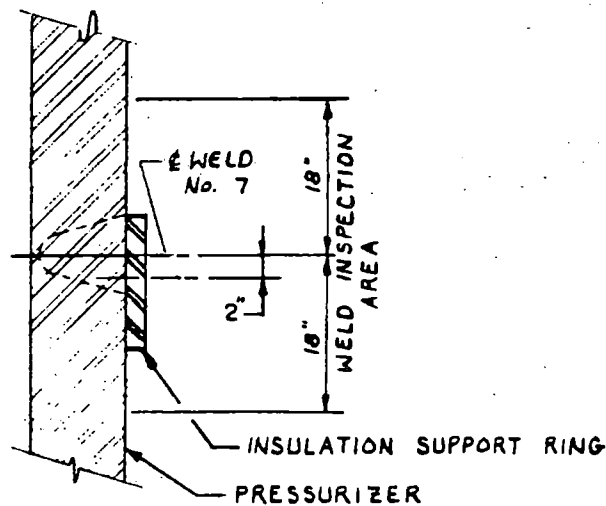
SURRY POWER STATION

PRESSURIZER WELD
UT INTERFERENCE
UNIT 2

DRAWN BY: MM	ENGINEER: R.C. Miller	DATE: 10-20-86
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SECTION A-A



SECTION B-B

SURRY POWER STATION

PRESSURIZER WELD
UT INTERFERENCE
UNIT 2

DRAWN BY:
YMM

ENGINEER:
R.L. Miller

DATE:
10-20-86

RELIEF REQUEST NO. SR-006

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The reactor vessel at Surry has six nozzle-to-safe end butt welds. The Code currently specifies in Table IWB-2500-1 (Category B-F Item B5.10) that a volumetric and a surface examination of the outside diameter (OD) be performed.

II. BASIS FOR RELIEF

The OD surface examination would require a significant amount of time for the removal of interference and shielding materials, surface preparation, and examination. High radiation exposures would be expected should this examination be performed.

III. ALTERNATE PROVISIONS

Alternately it is requested that a full volumetric examination from the inside diameter (ID) be accepted in lieu of the surface examination from the OD. A full volumetric examination from the ID of a Surry calibration block has demonstrated sensitivity adequate to resolve a 5% notch on the OD. Additionally, a flaw, which is an estimated eighty percent of the critical flaw as described in ASME Section XI IWB-3000 Acceptance Standard for Flaw Indications, has been induced into a mock-up block. This flaw has been satisfactorily detected and distinguished from the bimetallic interface.

Demonstration of both capabilities at the Westinghouse Waltz Mill Calibration Facility have been found acceptable by the Authorized Nuclear Inservice Inspector.

Note: This relief request was granted by letter from Lester S. Rubenstein dated October 29, 1986 and is included for reference and information only.

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The Code requires that the nozzle inside radius section of Category B-D and C-B nozzles on the steam generator and pressurizer must be examined volumetrically in accordance with subsections IWB-2500 and IWC-2500 during each inspection interval. Categories B-D and C-B include nozzles with full penetration welds to the vessel shell (or head) and integrally cast nozzles, but exclude manways and handholes either welded to or integrally cast in the vessel. If the examinations are conducted from inside the component and the nozzle weld is examined by straight beam ultrasonic method from the nozzle bore, the remaining examinations required to be conducted from the shell may be performed at or near the end of each inspection interval.

Relief is requested from the volumetric examination requirements of the nozzle inner radii for the steam generator and pressurizer nozzles.

II. BASIS FOR RELIEF

Relief from examining the Code required volume is requested based upon the following criteria:

- 1) Nozzles in the pressurizer and steam generators contain inherent geometric constraints and clad inner surfaces which limit the ability to perform meaningful volumetric (UT) examinations of the inner radii areas. The pressurizer surge line nozzle I.D. is physically restricted by the sparger, the thermal sleeve, and heater bank interferences. The steam generator main steam nozzles are physically restricted by the flow limiting devices.
- 2) Presently, there is no comprehensive examination technique, or guidance for such in the ASME Code, which would provide a conclusive assessment for the Code required volumetric examinations of these inner radii, particularly since no preservice results are available for review.
- 3) Radiography (RT) is not a viable examination technique due to the same inherent geometric constraints and accessibility limitations that restrict the effectiveness of the ultrasonic examination method. In addition, high radiation levels on primary system nozzles would expose radiographic film, causing it to "fog" beyond acceptable standards.

III. ALTERNATE PROVISIONS

- 1) All five (5) pressurizer upper head nozzles shall be visually examined from the I.D. using direct or remote techniques when accessible prior to the end of the inspection interval. Two nozzles were examined during the 1986 refueling outage.
- 2) The lower pressurizer nozzle was visually examined from the O.D. following the 1986 refueling outage after the unit was restarted and reached normal operating pressure and temperature.
- 3) Category B-D, primary inlet and outlet nozzles on one steam generator were visually examined from the I.D., using manual or remote techniques during the 1986 refueling outage. The other two steam generators will be examined sequentially during upcoming inspection periods, prior to the end of the inspection interval.
- 4) The steam generator feedwater nozzle thermal sleeve restricts access to the inside radius area of the nozzle. A visual examination of the accessible areas of the inside radius was performed during the 1986 refueling outage for one steam generator and will be performed prior to the end of the inspection interval for the other two steam generators.
- 5) The flow limiting device installed in the steam generator main steam nozzle restricts access to the nozzle inside radius area. One main steam nozzle was visually examined from the O.D. following the 1986 refueling outage after the unit had restarted and reached normal operating pressure and temperature. The remaining two main steam nozzles will be inspected as above prior to the end of the inspection interval.

Note: This relief request was submitted by letter dated April 24, 1986 to Mr. Harold R. Denton and was approved by NRC letter dated June 27, 1986.

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The code requires that the steam generator nozzle-to-safe end welds and pipe-to-safe end welds in Category B-F be examined volumetrically and by surface examination each inspection interval in accordance with subsection IWB-2500. A full volumetric examination is not practicable.

II. BASIS FOR RELIEF

The steam-generator nozzle-to-safe end welds and pipe-to-safe end welds are limited by the nozzle geometry, surface condition and the limited surface preparation on the pipe side of the weld. The surface on the pipe side of the weld, which is a cast elbow, is machined for a distance of approximately three inches from the edge of the weld. Ultrasonic examination is limited to this machined area of the pipe and weld since the nozzle side is in the rough as-cast condition.

III. ALTERNATE PROVISIONS

A volumetric examination from the pipe side will be performed to the extent practicable. A surface examination will be performed on one hundred percent of the weld and the base metal on the pipe side.

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The code requires that longitudinal piping welds in Category B-J be examined volumetrically and by surface examination in accordance with subsection IWB-2500 during each inspection interval. A volumetric examination is not practicable.

II. BASIS FOR RELIEF

The ninety degree elbows on the crossover leg of the reactor coolant system are fabricated in two halves from austenitic stainless steel castings welded together by the electroslog process. The structure and nature of the electroslog weld in the cast austenitic elbows are such that the material is opaque to ultrasonic transmissions. Radiography is the only other available technique for volumetric examination. Due to the wall thickness, two-inch thick splitter plates, and high radiation levels, code acceptable double wall radiographs would be virtually impossible to obtain.

III. ALTERNATE PROVISIONS

Only a surface examination will be performed on the electroslog welds.

RELIEF REQUEST NO. SR-010

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The code requires circumferential piping welds in Category B-J be examined volumetrically and by surface examination in accordance with subsection IWB-2500 during each inspection interval. A full volumetric examination may not be practicable.

II. BASIS FOR RELIEF

Limitations from full volumetric examination may occur at geometric discontinuities such as pipe to nozzle welds, pipe to fitting welds, or fitting to fitting welds. Full volumetric examination from the fitting side of a weld would be dependent upon the geometric configuration. Where elbows and tees are concerned, full volumetric examination may not be possible if the intradose prevents complete transducer contact and adequate ultrasonic coupling. No examinations can be performed from the fitting side where a valve and or flange is involved. In these cases, one hundred percent of the weld can be examined volumetrically. In instances where welds occur at fitting to fitting, access restrictions as outlined above occur on both sides of the weld.

III. ALTERNATE PROVISIONS

A volumetric examination will be performed to the extent practical in addition to the surface examination.

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The code requires bolting greater than two inches in diameter in Category B-G-1 must be examined volumetrically and by visual examination in accordance with subsection IWB-2500 during each inspection interval. A meaningful volumetric examination is not possible.

II. BASIS FOR RELIEF

The bolting used in the reactor coolant loop stop valves is ASTM A193 grade B-8M with a square hex head and a 3/4" hole drilled completely through the stud. Due to the material characteristics of both the bolting and the valve body, removal of the bolting may cause significant damage to the studs and the valve body. Therefore, disassembly of the bolting solely for the purpose of examination has only a very small potential for increasing plant safety margins and a very disproportionate impact on expenditures of plant manpower and radiation exposure.

III. ALTERNATE PROVISIONS

A visual examination of the bolting will be performed in place under tension to the extent required by Category B-G-1.

RELIEF REQUEST NO. SR-012

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The seal water return filter has three circumferential welds subject to examination.

Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addendum, requires a volumetric examination of circumferential shell welds (Category C-A).

II. BASIS FOR RELIEF

The stainless steel material and thickness (0.188") preclude any type of meaningful examination by ultrasonic examination.

III. ALTERNATE PROVISIONS

A surface examination will be performed in lieu of the volumetric examination.

Note: A similar relief request was granted by letter from Mr. Steven A. Varga dated January 24, 1984 for the reactor coolant filter.

RELIEF REQUEST NO. SR-013

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The code requires circumferential piping welds in Category C-F Item Numbers C5.21 and C5.22 be examined volumetrically and by surface examination in accordance with subsection IWC-2500 during each inspection interval. A full volumetric examination may not be practicable.

II. BASIS FOR RELIEF

Limitations from full volumetric examination may occur at geometric discontinuities such as pipe to nozzle welds, pipe to fitting welds, or fitting to fitting welds. Full volumetric examination from the fitting side of a weld would be dependent upon the geometric configuration. Where elbows and tees are concerned, full volumetric examination may not be possible if the intradose prevents complete transducer contact and adequate ultrasonic coupling. No examinations can be performed from the fitting side where a valve and or flange is involved. In these cases, one hundred percent of the weld can be examined volumetrically. In instances where welds occur at fitting to fitting, access restrictions as outlined above occur on both sides of the weld.

III. ALTERNATE PROVISIONS

A volumetric examination will be performed to the extent practical in addition to the surface examination.

RELIEF REQUEST NO. SR-014

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The Code gives certain requirements for the eddy current examination of steam generator tubing in Article IV of ASME Section XI and Article 8 (Appendix-I) of ASME Section V.

II. BASIS FOR RELIEF

The MIZ-18 digital equipment represents the "state of the art" in eddy current technology and has proven to provide data collection/data acquisition capabilities that far exceed previous analog equipment such as the MIZ-12 multifrequency equipment. Code Case N-401 allows for the use of digitized collection and storage of data in lieu of magnetic tape and strip chart recorders.

III. ALTERNATE PROVISIONS

The MIZ-18 data acquisition/data collection system will be utilized for steam generator eddy current examination.

Descriptions of changes between Revision 0 and Revision 1 for the Surry Unit 2 Inservice Inspection Program for Component Supports are provided below. The page numbers refer to Revision 1.

Page

Description of Change

3-1

Entire section (1 page) replaced

Note that revision bars are not included in Section 3 because the entire Section was replaced.

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

UNIT 2

INSERVICE INSPECTION PROGRAM

FOR COMPONENT SUPPORTS

SECTION 3
TABLE OF CONTENTS

3.0 INSERVICE INSPECTION PROGRAM FOR COMPONENT SUPPORTS

3.1 INTRODUCTION

3.2 SUPPORTS EXEMPT FROM EXAMINATION AND TEST

3.3 SUPPORTS EXAMINATION BOUNDARIES

3.4 INSPECTION SCHEDULE

3.4.1 Inspection Program

3.4.2 Successive Inspection Intervals

3.4.3 Additional Examinations

3.5 EXAMINATION REQUIREMENTS

3.6 STANDARDS FOR EXAMINATION EVALUATIONS

3.6.1 Evaluation of Inservice Examination Results

3.6.2 Repairs and Reexaminations

3.6.3 Acceptance Standards

3.7 REPAIR PROCEDURES

3.7.1 Materials

3.7.2 Welding and Welder Qualification

3.7.3 Examinations

3.7.4 Repairs

3.7.5 Replacements

3.8 RECORDS AND REPORTS

3.8.1 Requirements

3.8.2 Summary Report Submittal

3.8.3 Retention

3.0 INSERVICE INSPECTIONS PROGRAM FOR COMPONENT SUPPORTS

3.1 INTRODUCTION

This program will provide rules and requirements for inservice inspection, repair and replacement of Class 1, 2 and 3 component supports in accordance with ASME Section XI, 1980 Edition through Winter 1980 addendum as modified by this program. Component supports are those metal supports that are designed to transmit loads from the component and piping to the load carrying building or foundation structures. This shall include the attachment portion of intervening element(s) to pressure retaining components, integral and nonintegral attachments of pressure retaining components, and integral and nonintegral supports. Component supports encompass those structural elements that are used solely to either support the weight of or provide structural stability to components and piping.

All component supports that are within the ASME Section XI piping class boundaries and are within the scope of the Show Cause Order, 79-14, will be included in this program.

NOTE 1: This program does not cover snubbers. Snubbers shall be inspected in accordance with Technical Specifications. The attachments of snubbers to pipes, walls, vessels, etc. will be covered by the Support Program.

3.2 SUPPORTS EXEMPT FROM EXAMINATION AND TEST

The following exemptions are for ASME Classes 1, 2, and 3 component supports:

- 3.2.1 Component supports that are outside the scope of the Show Cause Order, 79-14, are exempt from the preservice and inservice requirements of this support program.
- 3.2.2 Component and piping supports which are buried, encased in concrete or the portion of the supports which are made inaccessible by the normal component or piping insulation are exempt from the preservice and inservice requirements of this support program.

3.3 SUPPORTS EXAMINATION BOUNDARIES

The support examination boundaries for both integral and nonintegral supports are shown in Figs. 1A & 1B. The following definitions apply.

- (a) The boundary of an integral attachment (B) connected to a pressure retaining component (A) is the distance from the pressure retaining component (A) as indicated in Figures 2A, 2B, 2C, 3, and 4.
- (b) The boundary of an integral support (C) connected to a building structure (E) is the surface of the building structure.
- (c) The boundary of a nonintegral support (D) connected to a pressure retaining component (A) is the contact surface between the component and the support.
- (d) The boundary of a nonintegral support (D) connected to a building structure (E) is the surface of the building structure.
- (e) Where the mechanical connection of a nonintegral support is buried within the component insulation, the support boundary may extend from the surface of the component insulation provided the support either carries the weight of the component or serves as a structural restraint in compression.
- (f) The examination boundary of an intervening element shall include the attachment portion¹ of the intervening element to pressure retaining components, integral and nonintegral attachments of pressure retaining components, and integral and nonintegral supports. The examination boundary does not include the attachment of the intervening element to the building structure.
- (g) All integral and nonintegral connections within the boundary governed by Support Programs rules and requirements are included.

NOTE: On new supports, the design package will define the examination boundaries for the support as above for inspections.

¹ Attachment portion includes welds, bolting, pins, clamps, etc.

3.4 INSPECTION SCHEDULE

3.4.1 INSPECTION PROGRAM

All component supports will be inspected over a ten year interval. The 10 year interval shall be divided into inspection periods with minimum and maximum percent of supports to be inspected. After each 10 year interval the sequence will be repeated.

<u>Inspection Period</u>	<u>Minimum Examinations Completed</u>	<u>Maximum Examinations Completed</u>
0-3 years	16%	34%
4-7 years	50%	67%
8-10 years	100%	100%

The inspection periods specified above may be decreased or extended by as much as 1 year to enable an inspection to coincide with a plant outage. For units that are out of service continuously for 6 months or more, the inspection interval during which the outage occurred may be extended for a period equivalent to the length of the outage.

3.4.2 SUCCESSIVE INSPECTION INTERVALS

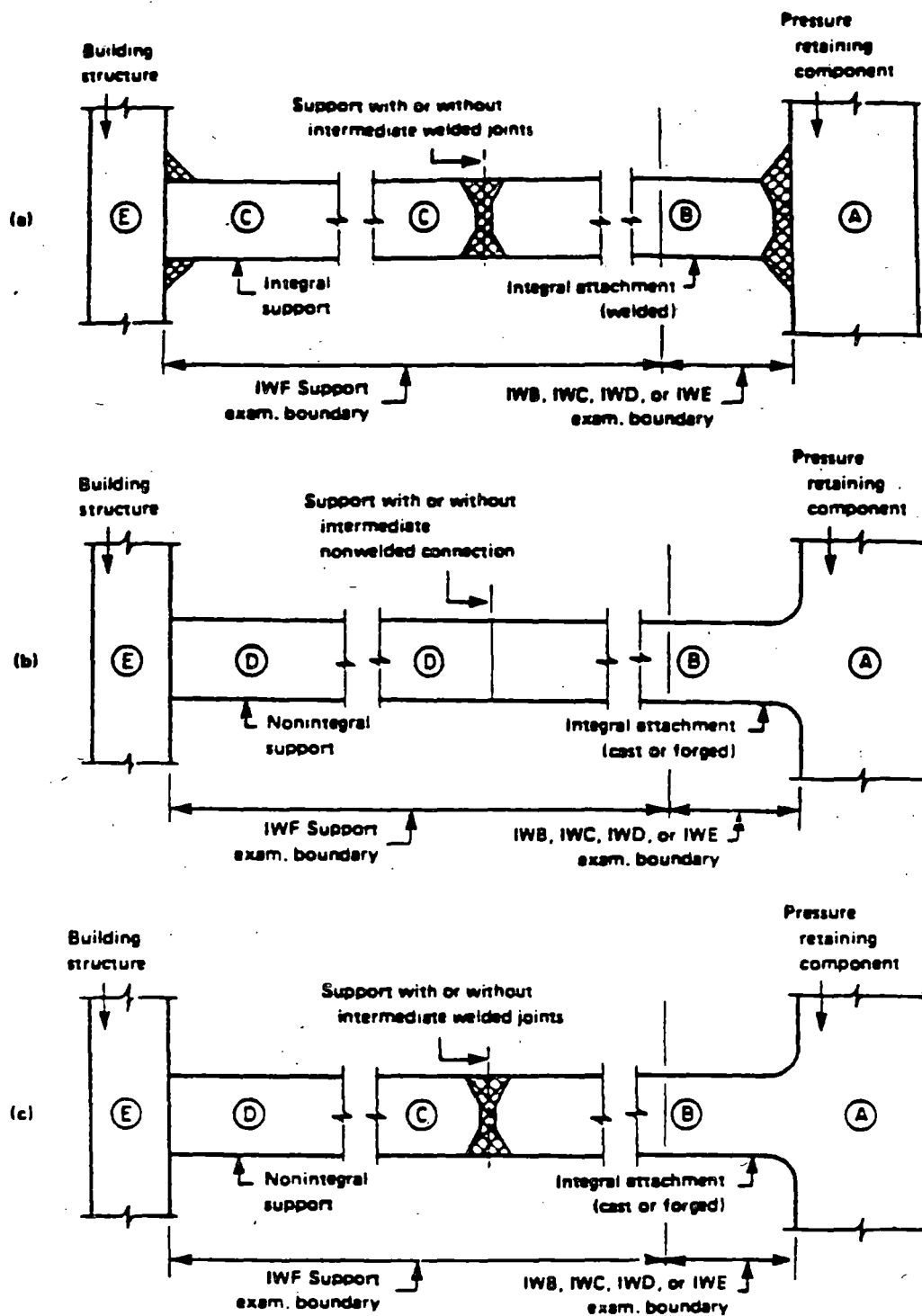
- (a) The sequence of component support examinations established during the first inspection interval shall be repeated during each successive inspection interval, to the extent practical.
- (b) When a component support requires corrective measures in accordance with Section 6, that support shall be reexamined during the next inspection period. On Class 1 component supports, the support shall be reexamined during the next three inspection periods.

NOTE: Corrections to nonrelevant conditions shall not apply.

- (c) If the reexaminations required by (b) above do not require additional corrective measures during the next three successive periods on Class 1 or the next successive period on Class 2 and 3, the inspection schedule may revert to the requirements of (a) above.

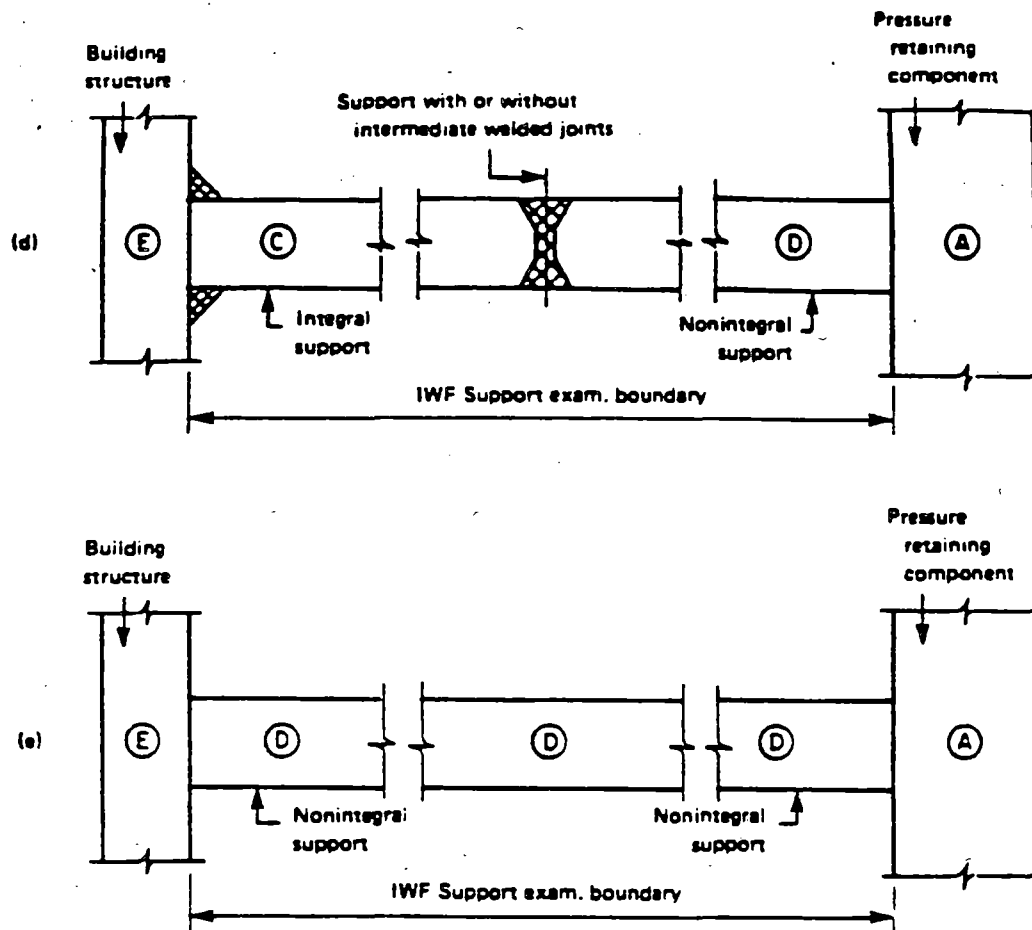
3.4.3 ADDITIONAL EXAMINATIONS

- (a) When the results of examinations render a support inoperable which require corrective measures, the examination shall be extended to include additional supports similar in type, design, and function. The additional supports shall include immediately adjacent component supports.



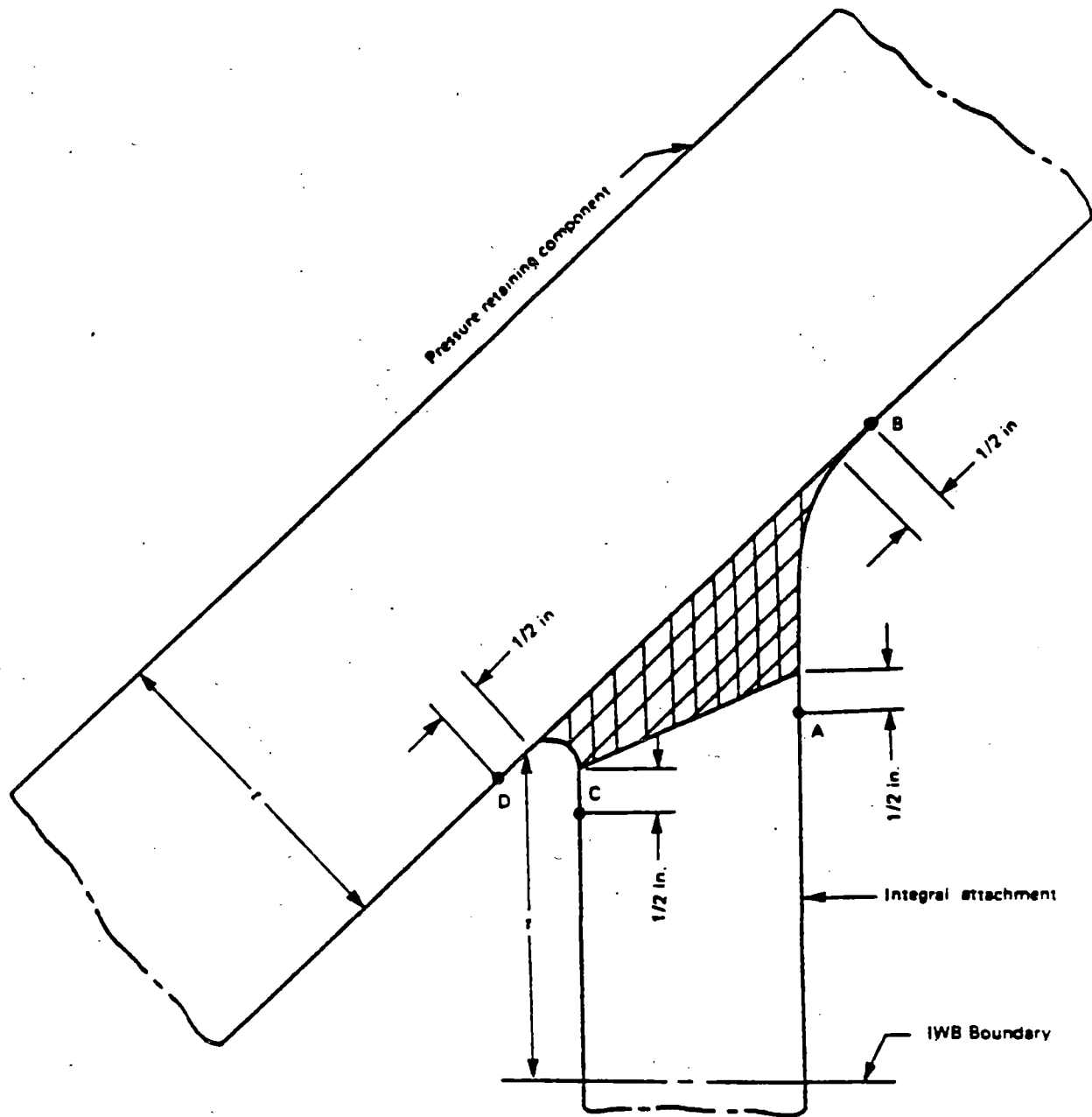
ILLUSTRATIONS OF TYPICAL SUPPORT EXAMINATION BOUNDARIES

Figure 1A



ILLUSTRATIONS OF TYPICAL SUPPORT EXAMINATION BOUNDARIES (CONT'D)

Figure 1B

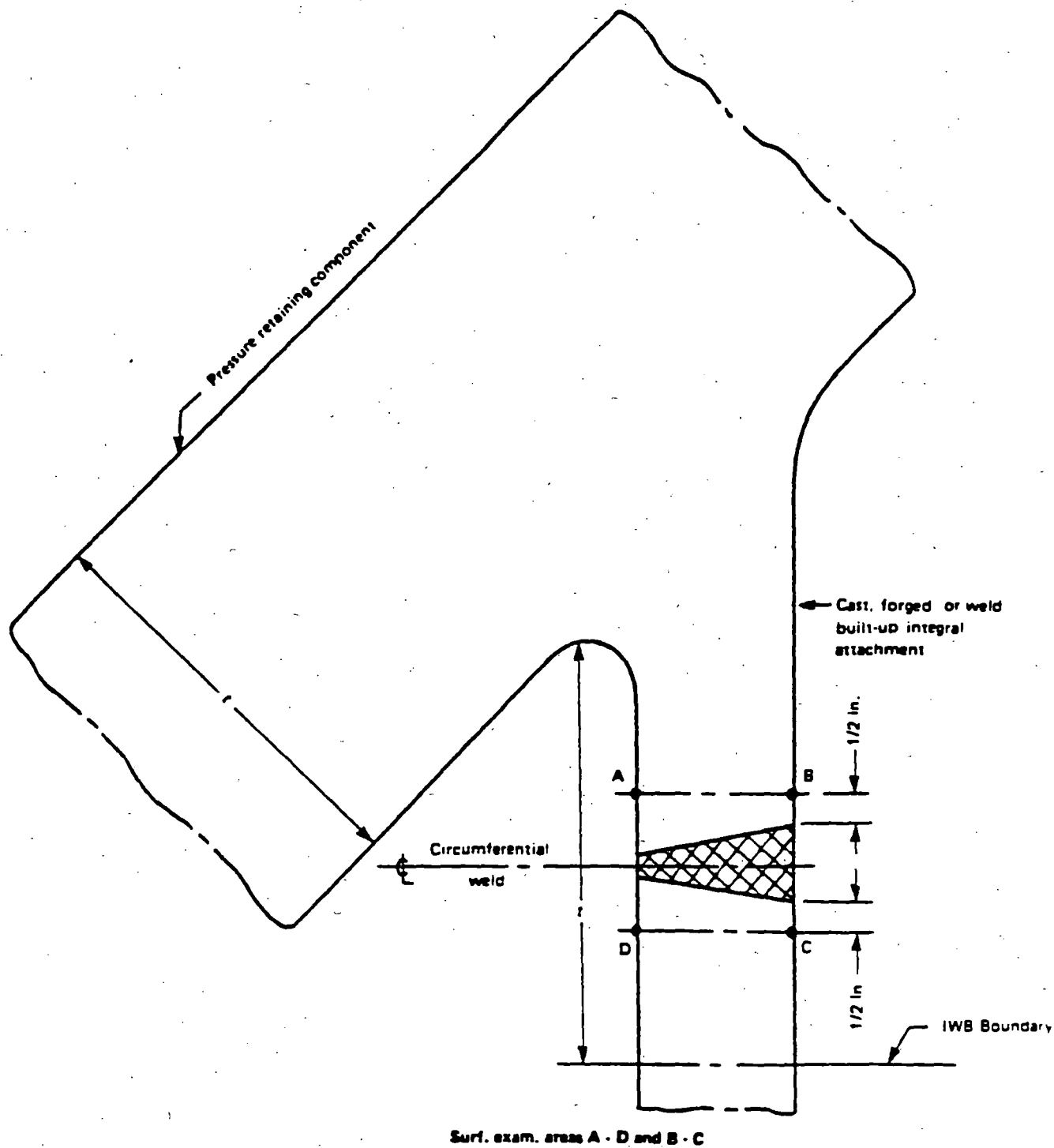


Surf. exam. areas A - B and C - D

INTEGRAL ATTACHMENT WELD

CODE CLASS 1

Figure 2A



GENERAL NOTE:

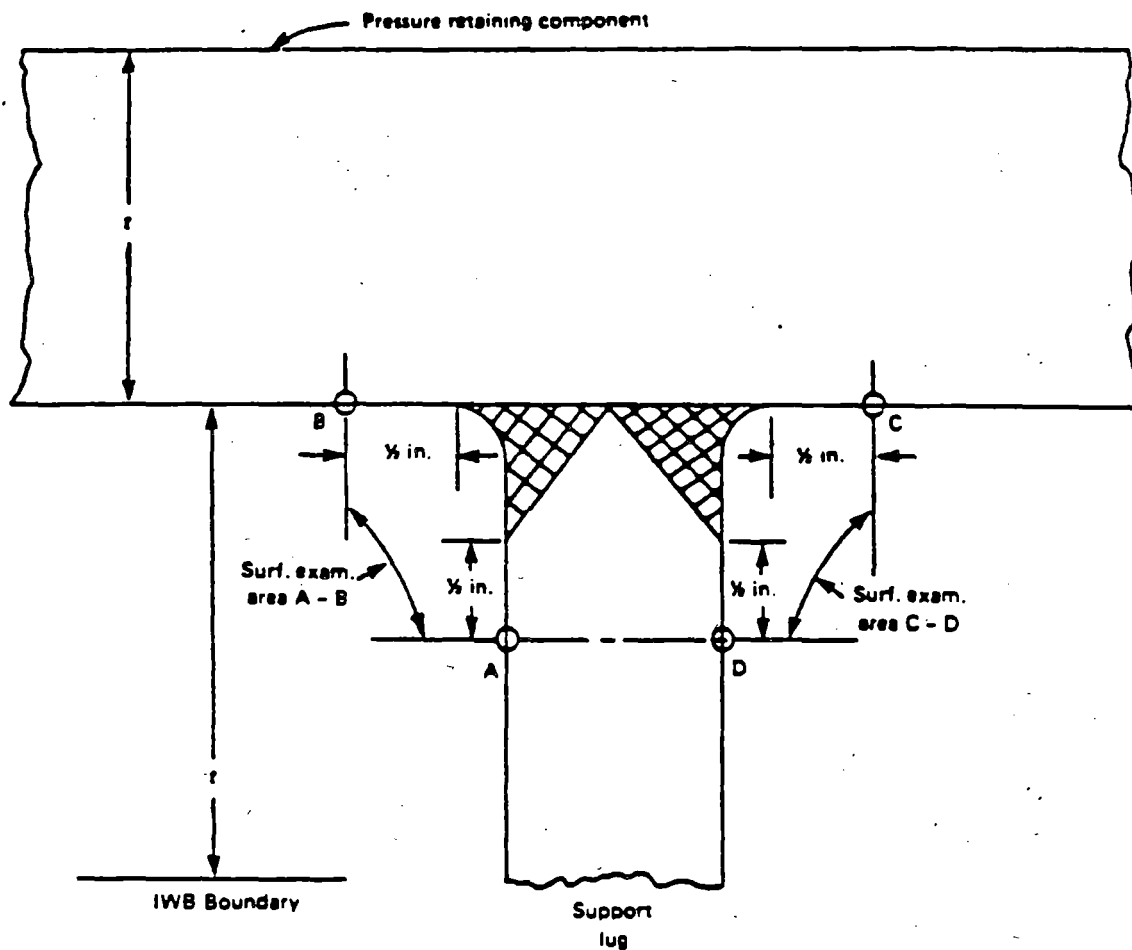
A volumetric examination of volume A - B - C - D from one side (B - C) of the circumferential weld may be performed in lieu of the surface examinations.

SUPPORT CIRCUMFERENTIAL WELD JOINT

CODE CLASS 1

Figure 2B

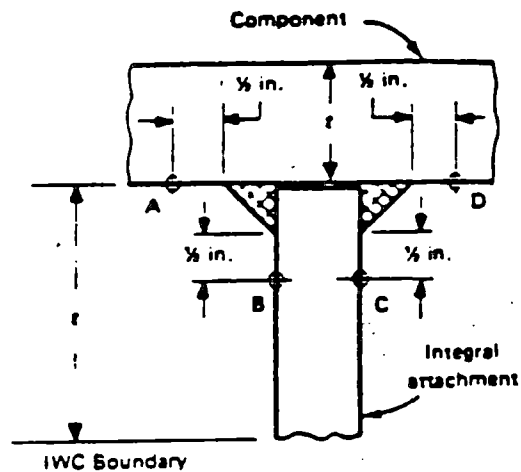
Rev. 1
April 1, 1987



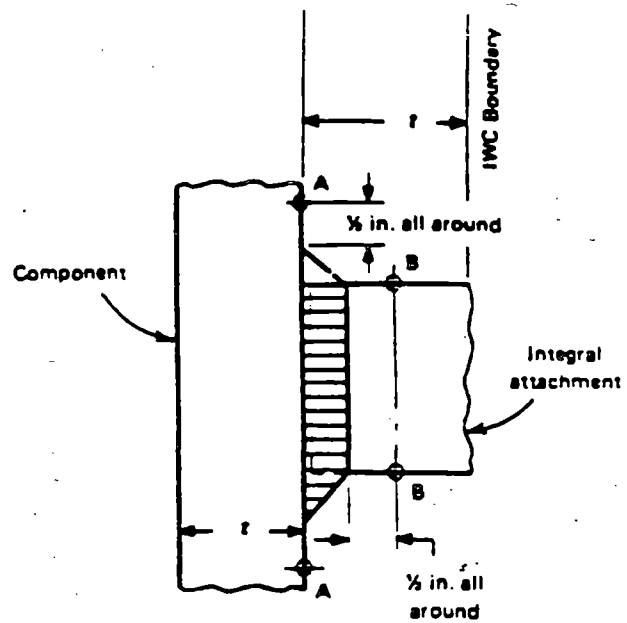
INTEGRAL ATTACHMENT

CODE CLASS 1

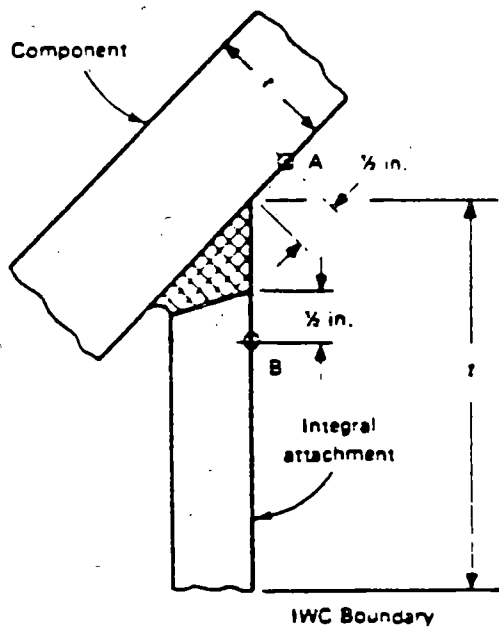
Figure 2C



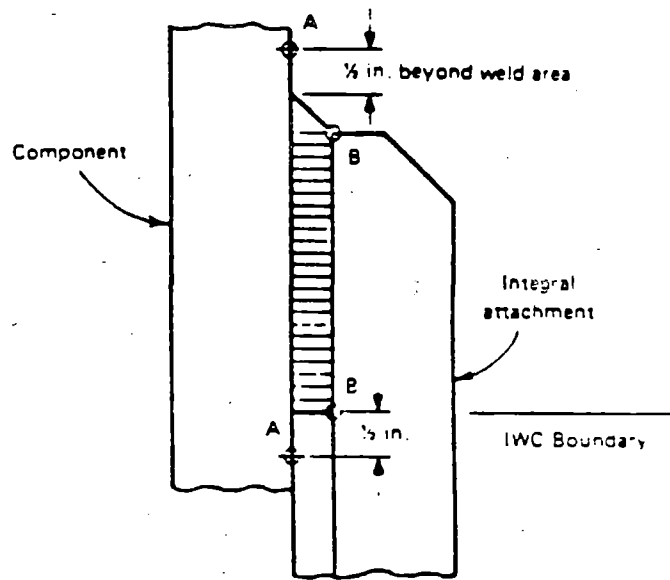
(a) Examination surfaces A - B and C - D



(b) Examination surfaces A - B



(c) Examination surfaces A - B

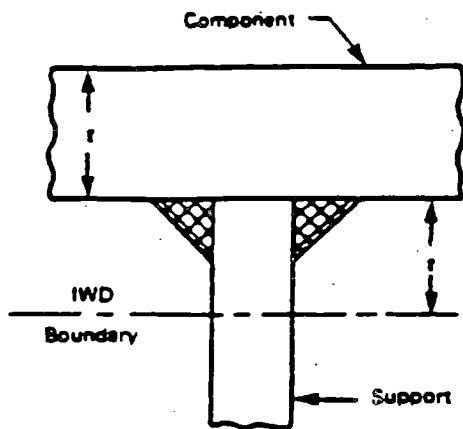


(d) Examination surfaces A - B

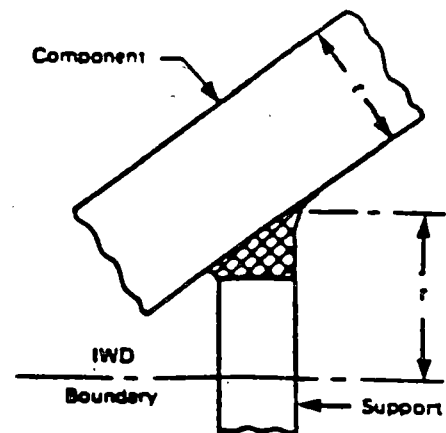
INTEGRALLY WELDED ATTACHMENTS

CODE CLASS 2

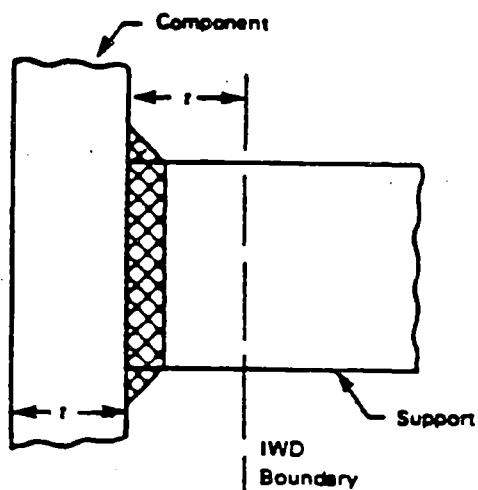
Figure 3



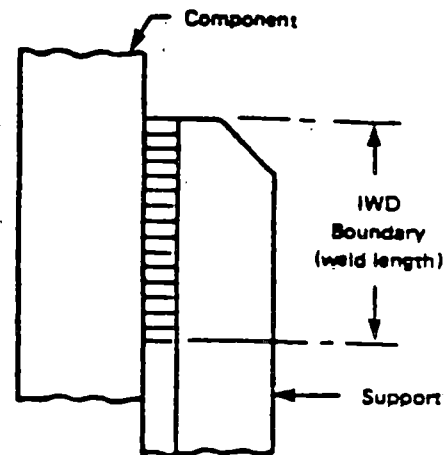
(a)



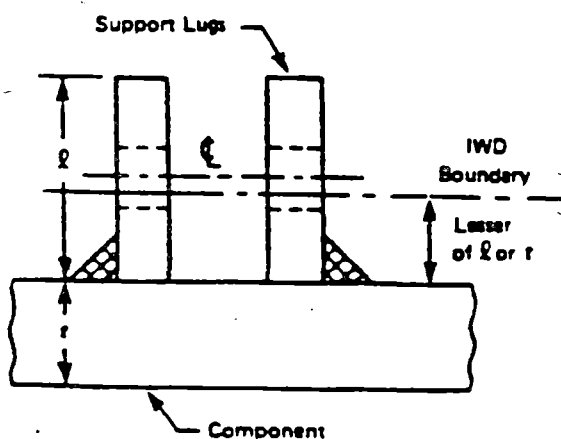
(b)



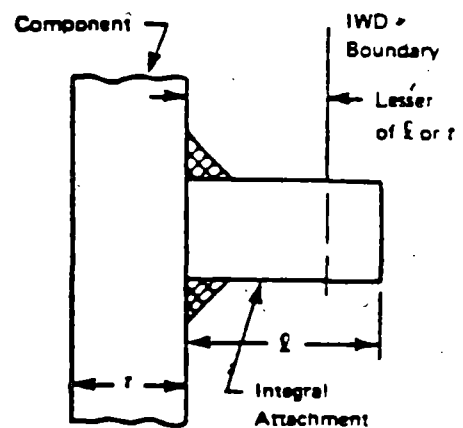
(c)



(d)



(e)



(f)

INTEGRAL ATTACHMENT - COMPONENT SUPPORTS
CODE CLASS 3

Figure 4

- (b) When these additional examinations require corrective measures in accordance with Section 6, the remaining component supports within the system of the same type, design, and function as (a) above shall be examined.

NOTE: Corrections to nonrelevant conditions shall not apply.

- (c) Any spring hanger having a setting out-of-specification shall be adjusted to restore the unit within the specification range.

3.5 EXAMINATION REQUIREMENTS

Component supports subject to examination shall be examined in accordance with Table 1.

NOTE 1: All integral attachments for Class 1 and 2 pipings, vessels, core support structures interior attachments to reactor vessels removable core support structures are included in the NDE program. The remaining portion of the support will be included in this program.

NOTE 2: All integral attachments to containment liner (IWE) will be examined as IWB or IWC of this program dependent on class of system being supported. Repairs on containment liner will be evaluated in accordance with Section 6 and 10CFR50, Appendix J. If 10% of wall is penetrated, an Appendix J, 10CFR50 Test will be performed.

TABLE 1
REQUIREMENTS FOR COMPONENT SUPPORTS
EXAMINATION CATEGORIES

CAT. F-A						
PLATE AND SHELL TYPE SUPPORTS						
ITEM NO.	Parts Examined	Examination Requirements/ Fig. No.	Examination ¹ Method	Acceptance Standard	Extent of Examination	Frequency of Examination
Fl.10	Mechanical connections to pressure retaining components and building structure	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
Fl.20	Weld connections to building structure	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
Fl.30	Weld and mechanical connections at intermediate joints in multiconnected integral and nonintegral supports	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
Fl.40	Component displacement settings of guides and stops, misalignment of multiconnected integral supports, assembly of support items	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval

NOTE:

(1) Reference IWA-2210.

TABLE 1
 REQUIREMENTS FOR COMPONENT SUPPORTS
 EXAMINATION CATEGORIES

CAT. F-B						
LINEAR TYPE SUPPORTS						
ITEM NO.	Parts Examined	Examination Requirements/ Fig. No.	Examination ¹ Method	Acceptance Standard	Extent of Examination	Frequency of Examination
F2.10	Mechanical connections to pressure retaining components and building structure	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
F2.20	Weld connections to building structure	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
F2.30	Weld and mechanical connections at intermediate joints in multiconnected integral and nonintegral supports	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
F2.40	Component displacement settings of guides and stops, misalignment of multiconnected integral supports, assembly of support items	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval

NOTE:

(1) Reference IWA-2210.

TABLE 1
 REQUIREMENTS FOR COMPONENT SUPPORTS
 EXAMINATION CATEGORIES

CAT. F-C		LINEAR TYPE SUPPORTS				
ITEM NO.	Parts Examined	Examination Requirements/ Fig. No.	Examination ¹ Method	Acceptance Standard	Extent of Examination	Frequency of Examination
F3.10	Mechanical connections to pressure retaining components and building structure	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
F3.20	Weld connections to building structure	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
F3.30	Weld and mechanical connections at intermediate joints in multiconnected integral and nonintegral supports	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
F3.40	Component displacement settings of guides and stops, misalignment of multiconnected integral supports, assembly of support items	Fig 1A,B	Visual, VT-3	Section 6.0	Section 2.0 Section 3.0	Each inspection interval
F3.50	Spring type Supports, constant load type supports	Fig 1A,B	Visual, VT-3 ²	Section 6.0	Section 2.0 Section 3.0	Each inspection interval

NOTE:

- (1) Reference IWA-2210.
- (2) See Relief Request SH-001.

3.6 STANDARDS FOR EXAMINATION EVALUATION

3.6.1 EVALUATION OF INSERVICE EXAMINATION RESULTS

3.6.1.1 Inservice examinations performed during or at the end of successive inspection intervals to meet the requirements of Table 1, and conducted in accordance with the procedures of Section 4 shall be evaluated by comparing the results of examinations with the evaluation standards specified in Section 6.3.

3.6.1.2 ACCEPTANCE

3.6.1.2.1 Acceptance by Examination

Component supports whose examination reveals no unacceptable conditions listed in 6.3.1.a shall be acceptable for continued service.

3.6.1.2.2 Acceptance by Evaluation

If unacceptable conditions are discovered by examinations performed as specified in Table 1, an engineering evaluation shall be performed in accordance with ASME XI Appendix A, 1980 Edition through winter 1980 addendum, as modified by this program to determine if the component that contains these indications shall be acceptable for continued service.

3.6.1.2.3 Acceptance by Repair

Components that contain unacceptable conditions and have been evaluated to be unacceptable for service shall be repaired prior to returning the component to service.

3.6.2 REPAIRS AND REXAMINATION

Repairs and reexaminations shall comply with the requirements of Section 7. Reexaminations shall be conducted in accordance with the requirements of Section 4 and the recorded results shall demonstrate that the repair meets the acceptance standards of Section 6.3.

3.6.3 ACCEPTANCE STANDARDS

3.6.3.1 Acceptance Standards - Component Support Structural Integrity

(a) Component support conditions which are unacceptable for continued service shall include the following:

- (1) Deformations or structural degradations of fasteners, springs, clamps or other support items.
- (2) Missing, detached or loosened support items.
- (3) Arc strikes, weld spatter, paint, scoring, roughness or general corrosion on close tolerance machined or sliding surfaces.
- (4) Improper hot or cold positions (spring supports).

(b) Except as defined in (a) above, the following are examples of nonrelevant conditions:

- (1) Fabrication marks (e.g., from punching, layout, bending, rolling, and machining).
- (2) Chipped or discolored paint.
- (3) Weld spatter on other than close tolerance machined or sliding surfaces.
- (4) Scratches and surface abrasion marks.
- (5) Roughness or general corrosion which does not reduce the load bearing capacity of the support.
- (6) General conditions acceptable by the material, design, and/or construction specifications.

(c) Component supports, whose examinations reveal conditions as defined in (a) above, shall be repaired or replaced in accordance with the station's Repair and Replacement Program.

3.6.3.2 ACCEPTANCE STANDARDS FOR BOLTING

3.6.3.2.1 Support bolting shall be acceptable for continued service upon completion of an acceptable (passing) visual (VT-3) examination.

3.7 REPAIR PROCEDURES

3.7.1 MATERIALS

Material shall conform to the requirements of original Design Specification or ASME Section III. All material will be Category I as per NODSM.

3.7.2 WELDING AND WELDER QUALIFICATION

The welding procedures and the welders shall be qualified in accordance with ASME Section IX.

3.7.3 EXAMINATIONS

Examinations shall be performed in accordance with rules of Section 6.3 of this procedure and the Non-Destructive Examination Manual for Surry.

3.7.4 REPAIRS

All repairs will be performed to ensure the support is left in the same condition of original design, or an evaluation will be performed to ensure all design and ASME Section XI IWA-4000 requirements are met.

3.7.5 Replacements

All replacements will be per original design specification or an evaluation will be performed to ensure all design and ASME Section XI IWA-7000 requirements are met.

3.8 RECORDS AND REPORTS

3.8.1 REQUIREMENTS

3.8.1.1 Virginia Electric and Power Company will prepare plans and schedules for inservice examinations and tests.

3.8.1.2 Virginia Electric and Power Company shall prepare a summary report. As a minimum, the report will include:

- (1) Numbers assigned to the components by the State, Municipality, or Province;
- (2) National Board Numbers assigned to the components by the manufacturer, where applicable;

- (3) Name of the components and descriptions, including size, capacity, material, location, and drawings to aid identification;
- (4) Name and address of manufacturers, where applicable;
- (5) Manufacturer's component identification numbers, where applicable;
- (6) Date of completion of the examination, test, replacement, or repair;
- (7) Name of Inspector who witnessed or otherwise verified the examinations, test, replacements, or repairs, and the Inspector's employer and business address, when required.
- (8) Abstract of examinations, test, replacements, or repairs performed; conditions recorded; and corrective measures recommended or taken;
- (9) Signature of Inspector, when required;
- (10) Owner's Data Report for inservice inspection, Form NIS-1
 - (a) Plans, schedules, records, and summary reports shall have a cover sheet providing the following information:
 - (1) date of document completion
 - (2) name and address of Owner
 - (3) name and address of generating plant
 - (4) name or number designation of the unit
 - (5) commercial operating date for the unit.

3.8.2 SUMMARY REPORT SUBMITTAL

Within 90 days of the completion of the inservice inspection conducted during a refueling outage, Virginia Electric and Power Company shall file inservice inspection summary reports for Class 1 and 2 supports with the enforcement and regulatory authorities having jurisdiction at the plant site.

3.8.3 RETENTION

3.8.3.1 Maintenance of Records

Virginia Electric and Power Company shall retain records and reports for Class 1, 2 and 3 supports. The records and reports shall be filed and maintain in a manner which will allow access by the Inspector. All records will be maintained for life of the plant.

3.8.3.2 Reproducing and Microfilming

Records Management and Station Quality Assurance Department shall include a system of monitoring the accuracy of the reproduction process so that when the microfilm is projected to the original size it will provide the same information retrieval capability as the original. The accuracy of the reproduction process includes the exposure (or multiple exposures for density coverage), focusing, contrast, and resolution. The Quality Assurance Program shall also provide a system for identifying film artifacts that might appear as material discontinuities in the reproduction.

Descriptions of changes between Revision 0 and Revision 1 for the Surry Unit 2 Pump and Valve Inservice Test Program are provided below. The page numbers refer to Revision 1.

<u>Page</u>	<u>Description of Change</u>
4-2	<p>The Section has been renumbered.</p> <p>Section 4.2, "PROGRAM DESCRIPTION", has been deleted.</p> <p>Old Section 4.3, "Reports to Regulatory Agencies", has been deleted.</p> <p>Old Section 6.0, "Piping and Diagrams", has been deleted.</p>
4-3	<p>References to Pump and Valve classes and code edition were deleted. This information is given on the following page.</p>
4-6	<p>The word "shall" was replaced by "should" in Sections 4.3.2 d) and e).</p> <p>The word "administrative" was deleted.</p> <p>Surry Unit 2 is currently in the second inspection interval. The verb tense in Section 4.3.3 has been changed accordingly.</p>
4-7	<p>Drawing 11548-FM-84A was replaced by 11548-FM-84B for Pumps 2-RS-P-1A, 1B, 2A and 2B.</p>
4-8	<p>Pump numbers EE-P-B, C and E were changed to 1-EE-P-1B, 1C and 1E.</p>
4-8 and 4-9	<p>Section 4.3.5 was expanded to explain the pump table headings and abbreviations.</p>
4-10	<p>NR (not required) was replaced by NA (not applicable) throughout the Pump Inservice Test Table.</p> <p>Relief Request 12 was added to Pumps 2-SI-P-1A and 1B, 2-RS-P-2A and 2B, and 2-RH-P-1A and 2B.</p> <p>Measurement of flow in Relief Request 4 was withdrawn from Pumps 2-RS-P-2A and 2B.</p> <p>Relief Request 0 was deleted from Pump 2-FW-P-2 (pump speed is being measured).</p> <p>The note (*) was deleted from the bottom of the page.</p>
4-11	<p>Relief Request 14 was added to Pumps 1-CC-P-1C and 1D.</p> <p>Relief Request 12 was added to Pumps 1-CH-P-2C and 2D.</p> <p>Relief Request 13 was added to and Relief Request 10 withdrawn from Pumps 2-CC-P-2A and 2B, and 2-SW-P-10A and 10B.</p>

<u>Page</u>	<u>Description of Change</u>
4-11	<p>In the columns for Inlet Pressure, Differential Pressure and Lubrication, Q (quarterly testing) was replaced by NA for Pumps 1-EE-P-1B, 1C and 1E to accurately reflect the contents of the relief request.</p> <p>Class 3 was replaced by NC (non-class) for Pumps 1-EE-P-1B, 1C and 1E.</p> <p>The notes (* and **) were deleted from the bottom of the page.</p>
4-12	Editorial change.
4-13	The format of the pump Relief Requests was changed to a format similar to the valve Relief Requests.
4-14	The Basis for Relief was reorganized to enhance clarity.
4-16	The allowable ranges of vibration velocity were changed.
4-17	The proposed installation date for flow instrumentation was deleted and a note was added.
4-18	References to lubrication level and pressure were deleted and a note was added.
4-19	Request for Relief from measuring flow has been withdrawn, and a note was added.
4-20	Technical detail was added to the Basis for Request.
4-21	The proposed installation date for flow instrumentation was deleted, and a note was added.
4-22	<p>Reference to lubrication level or pressure was deleted.</p> <p>The sentence, "These pumps are not engineered safety feature pumps", was deleted.</p>
4-24	<p>Reference to lubrication level was deleted.</p> <p>The alternate testing method has been rewritten, the proposed installation date for flow instrumentation deleted, and a note was added.</p>
4-25	Relief Request 10 has been withdrawn.
4-26	<p>Pump numbers changed from EE-P-1B, 1C, 1E, to 1-EE-1B, 1C, 1E.</p> <p>Reference to lubrication level or pressure was deleted.</p> <p>The sentence, "Hence all testing of these pumps is voluntary", was deleted from the Basis For Relief.</p>

<u>Page</u>	<u>Description of Change</u>
4-26	The Alternate Testing Proposed was changed and a note was added.
4-28	Relief Request 12 has been added.
4-29	Relief Request 13 has been added.
4-30	Relief Request 14 has been added.
4-31	The paragraphs on leak rate testing were rewritten. The paragraph on stroke times of solenoid controlled, air operated valves was rewritten.
4-33	Surry Unit 2 is currently in the second inspection interval. The verb tense has been changed accordingly. Reference to a training program was deleted. The designation for non-class valves was changed from "-" to "NC". The sentence, "Valves marked with an "E" are passive valves.", was added.
4-34	References to fail-safe tests were added.
4-35	Valve Numbers SOV-MS-202A and B were replaced by PCV-MS-202A and B. A fail-safe (FS) test was added to Test Required for Valves PCV-MS-202A and B. Valve Type "GA" was added to Valve HCV-MS-204. Valves NRV-MS-202A B, and C were added.
4-36	Relief Request 34 has been added to Valve TV-MS-210. The Drawing Locations for Valves 2-MS-176, 178 and 182 were changed.
4-37	Drawing Locations were changed for Valves TS-SV-202A and 2-VP-12. Category for 2-VP-12 was changed from AC to ACE.
4-39	The Drawing Number was changed from 11548-FM-68B to 11448-FM-68B. Drawing Locations for valves on this page were changed. The Function description for Valves 2-FW-272, 273, 305 and 306 were rewritten, and the Class of these valves was changed from "3" to "2".

<u>Page</u>	<u>Description of Change</u>
4-40	<p>The System Name was changed.</p> <p>Relief Request 6 has been withdrawn from Valves MOV-SW-203A, B, C and D.</p> <p>The Size of Valves MOV-SW-202A, B was changed from "42" to "10".</p>
4-41	<p>The System Name was changed.</p> <p>The Drawing Locations for Valves MOV-SW-201A, B were changed.</p> <p>The Code Class for Valves MOV-CW-200A, B, C and D was changed from "3" to "NC".</p> <p>The Code Class and Category for Valves 2-SW-206 and 208 were changed from "2" and "A" to "3" and "AE".</p>
4-42	<p>The Drawing Locations for Valves 2-CC-764, 329, and 2-SW-113, 108 were changed.</p>
4-43	<p>The Code Classes for Valves 2-CC-176, 177 and 2-CC-1, 58, 59 were changed from "2" to "3".</p> <p>The Valve Sizes for RV-CC-216A, B and C were changed from "1" to "1 1/2".</p> <p>The Valve Size for RV-CC-218 was changed from "1" to "3/4".</p>
4-44	<p>The Code Classes for Valves 2-CC-242, 233 and 224 were changed from "2" to "3".</p>
4-45	<p>The Drawing Number was changed from 11548-FM-72D to 11448-FM-72D.</p> <p>The Drawing Locations were changed.</p> <p>Thermal Relief Valves RC-CC-209 and 210 were deleted from the program and the page that followed 4-45 was deleted. Thermal Relief Valves are not subject to Section XI Testing.</p>
4-46	<p>The Drawing Number was changed from 11548-FM-72F to 11448-FM-72F.</p> <p>The Code Class was changed from "2" to "3" for valves on this page.</p> <p>Relief Request 34 was added to Valves TV-CC-205A, B, C; TV-CC-207 and TV-CC-209A, B.</p> <p>The Valve Type was changed from "BU" to "BF" for Valves TV-CC-209A, B, and TV-CC-210A, B and C.</p> <p>Test Type FS was added to valves TV-CC-209A and B.</p>

<u>Page</u>	<u>Description of Change</u>
4-48	The categories for Valves 2-SA-81 and 82 were changed from "A" to "AE" and the valve type was changed from "GA" to "GL".
4-49	The Drawing Locations for Valves TV-IA-200, 1-IA-704 and 2-IA-704 were changed. The Size for valves TV-IA-201A, B was changed from "3" to "2". Relief Request 34 was added to Valves TV-IA-201A, B and TV-IA-200. The Category for Valves 1-IA-704 and 2-IA-704 was changed from "A" to "AE".

Note that the valves on page 14 of Revision 0 were moved from drawing 11548-FM-75C to 11548-FM-75J and that they now appear on page 4-53 of Revision 1.

4-50	The Drawing Number was changed from 11548-FM-82B to 11548-FM-82A. Relief Request 34 was added to the valves on this page.
4-51	Category and Actuator Type were changed from "A" and "PN" to "AE" and "Man" for Valve 2-VA-1. Relief Request 34 was added to the valves on this page except for 2-VA-1. The Normal Position for Valve TV-VG-209B was changed from "C" to "O".
4-52	Drawing Number 11548-FM-83B was added. The Valve number TV-DC208A was changed to TV-DG208A. Size for Valve TV-VG209A was changed from "2" to "1 1/2". Category and Normal Position for Valve 2-VA-9 were changed from "A" and "O" to "AE" and "C". Relief Request 34 was added to valves on this page except for 2-VA-9.
4-53	Valves on this page were moved from drawing 11548-FM-84B to 11548-FM-84A. The Drawing Locations for valves on this page were changed.

<u>Page</u>	<u>Description of Change</u>
4-53	<p>The Category for Valves 2-CS-105, 104 was changed from "AC" to "C".</p> <p>The Valve Type and Normal Position for Valves MOV-CS-203A, B, C and D were changed from "BF" and "O" to "GA" and "C".</p>
4-54	<p>The System Name was changed.</p> <p>The Drawing Locations for valves on this page were changed.</p> <p>The Valve Type for Valves MOV-RS-256A, B was changed from "GA" to "BF".</p>
4-55	<p>The Normal Position for Valves TV-LM-200A to H was changed from "C" to "O".</p> <p>The Category for Valves HCV-CV-200 and 2-CV-2 was changed from "A" to "AE".</p> <p>Relief Request 34 was added to Valves TV-LM-200A to H and TV-CV-250A to D.</p>
4-56	<p>The Category and Valve Type for Valves HCV-2556A, B, C were changed from "A" and "GA" to "AE" and "PL".</p> <p>The Code Class for Valves SOV-RC-200A-1,-2 and SOV-RC-200B-1,-2 was changed form "1" to "2".</p> <p>The Actuator Type for Valves SOV-RC-200A-1,-2 and SOV-RC-200B-1,-2 was changed from "PN" to "SOV" and "GA" was added to Valve Type.</p>
4-57	<p>Valve Number 2-RC-160 was changed to 2-PG-20.</p> <p>The Valve Type for Valves PCV-2456 and 2455C was changed from "GA" to "PL" and Relief Requests 34 and 35 were added.</p> <p>Valve Numbers SOV-201-A-1,-B-1, -A-2 and -B-2 were changed to SOV-RC-201A-1,-2, and SOV-RC-201B-1,-2.</p> <p>Valve Type "GA" was added to Valves SOV-RC-201A-1,-2 and SOV-RC-201B-1,-2 and actuator type was changed from "PN" to "SOV".</p> <p>Test Type FS was added to valves PCV-2456 and 2455C.</p>
4-58	<p>Size for Valves MOV-2700 and 2701 was changed from "4" to "14".</p> <p>Category for Valve MOV-RH-200 was changed from "A" to "AE".</p>
4-59	<p>The Drawing Number was changed from 11548-FM-88A to 11448-FM-88A.</p>

<u>Page</u>	<u>Description of Change</u>
4-60	Code Class for Valve MOV-2381 was changed from "2" to "1". Relief Request 34 was added to Valve TV-2204. Size for Valve RV-2209 was changed from "3" to "2".
4-61	Size for Valves MOV-2289-A,B was changed from "4" to "3". Class for Valve FCV-2160 was changed from "1" to "2". Category for Valve FCV-2160 was changed from "A" to "AE" and the stroke test EV was deleted. The Valve Type for Valve FCV-2160 was changed from "GL" to "GA".
4-62	Relief Request 34 was added to Valves HCV-2200A, B, C. Code class and category for Valve RV-2382A were changed from "1" and "AC" to "2" and "C", and reference to Relief Request 30 was deleted. The size for Valve 2-CH-309 was changed from "4" to "3".
4-63	Drawing Locations for Valves MOV-2862B; MOV-2885A, B, C, D; and 2-SI-61, 53 were changed. The Valve Number 2-SI-43 was changed to 2-SI-327.
4-64	Category for Valves MOV-2864A, B was changed from "A" to "B" and the test "LT*" was deleted. Type for Valves RV-2845A, B, C was changed from "VE" to "RV". Valves MOV-2867A, B were deleted and Relief Request 25 was withdrawn.
4-65	Valves TV-2884A, B, C and RV-2857B were deleted. The Code Class for all valves on this page was changed from "-" to "2". Relief Request 34 was added to Valve TV-SI-200. Category for Valves 2-SI-150 and 174 was changed from "A" to "AE". Size and Normal Position for Valve 2-SI-150 were changed from "1" and "C" to "3/4" and "0". Valve Type for Valve 2-SI-174 was changed from "GA" to "GL".

<u>Page</u>	<u>Description of Change</u>
4-71	Relief Request 34 was added to valves on this page. Drawing Locations were changed for valves on this page.
4-72	The Drawing Number was changed from 11548-SPS-14A to 11448-SPS-14A. Relief Request 34 was added to Valves TV-RM-200A, B and C.
4-73	The Drawing Number was changed from 11548-FB-4B to 11448-FB-4B. Drawing Locations for valves on this page were changed. The Code Class and Actuator Type were change from "3" and "PN" to "NC" and "SOV" for the valves on this page. Relief Request 36 was added and test "VP" was deleted.
4-74	Category was changed from "A" to "AE" for the valves on this page. Size for Valve MOV-VS-202 was changed from "8" to "18". Size, Valve Type and Actuator Type for Valve MOV-VS-201 were changed from "4", "GA" and "Man" to "8", "BF" and "MOV". Drawing Locations were changed for the valves on this page.
4-75	Valves SOV-EG-200A, B on Drawing 11448-FB-46B were added along with Relief Request 37.
4-76	Valves 2-FP-151 and 152 were placed on Drawing 11448-FB-47B. Drawing Locations and Size were added. Code Class and Category were changed from "2" and "A" to "3" and "AE".
4-78	Relief Request 1 was reformatted to be consistent with other Relief Requests.
4-79	Valves RV-CC-211A, B and RV-CC-209, 210 were deleted from Relief Request 1. Valve Number RV-1721 was change to RV-2721.
4-80	Class for RV-2382A was changed from "1" to "2". Valve RV-2857 was deleted from Relief Request 1.
4-82	Valves NRV-MS-202A, B, and C were added to Relief Request 3.
4-83	Editorial change.

<u>Page</u>	<u>Description of Change</u>
4-84	Valve numbers 2-FW-309 and 310 were changed to 2-FW-272 and 273. Class for Valves 2-FW-272, 273, 305 and 306 was changed from "3" to "2" and the Function Description was rewritten.
4-85	Technical detail was added to the basis for relief. The test frequency was changed from every cold shutdown to every reactor refueling.
4-86	Relief Request 6 has been withdrawn.
4-87	Editorial change.
4-88	Class for Valves 2-CC-176, 177 changed from "2" to "3".
4-89	Editorial change.
4-90	Class changed from "2" to "3" for valves on this page.
4-91	Editorial change. Technical detail added to the Basis For Request.
4-92	Valve Number 2-RC-160 was changed to 2-RC-20. The Code Class of Valve 2-RC-20 was changed from "2" to "3".
4-93	Valve Number 2-CS-127 was changed to 2-CS-104. The Category Description was expanded to enhance clarity.
4-96	Technical detail was added to the Basis for Request.
4-98	Editorial change.
4-99	Technical detail was added to and valve numbers corrected in the Basis for Request.
4-100	The Code Class was changed from "2" to "1".
4-102	The Category for MOV-2289B was changed from "A" to "B".
4-104	Editorial changes.
4-105	Valve Number 2-SI-43 changed to 2-SI-327.
4-106	Technical Specification reference changed from 3.3.A.9 to 3.3.A.8. Editorial changes.

<u>Page</u>	<u>Description of Change</u>
4-108	The Basis for Request was changed from reference to flow blockage due to boron crystallization to excess charging flow causing a reactivity transient.
4-109	Relief Request 25 has been withdrawn.
4-110	Category was changed from "C" to "A and C". Editorial change was made to the Basis for Request.
4-111	Editorial changes.
4-112	Class for Valves 2-SI-226, 227 was corrected from "2" to "1".
4-115	Relief Request 30 was reformatted to be consistent with the other Relief Requests.
4-116	Valve Numbers HCV-2256A, B, C were changed to HCV-2556A, B, C. Valves 2-SI-241, 242, 243 were added. Valve RV-2382A was deleted. Valves 2-SI-235, 236, 237 were deleted.
4-119	Relief Request 33 has been added.
4-120 and 121	Relief Request 34 has been added.
4-122	Relief Request 35 has been added.
4-123	Relief Request 36 has been added.
4-124	Relief Request 37 has been added.

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

UNIT 2

INSERVICE TESTING
PROGRAM PLAN FOR PUMPS AND VALVES

SECTION 4
TABLE OF CONTENTS

4.0 INSERVICE TESTING PROGRAM PLAN FOR PUMPS AND VALVES

4.1 INTRODUCTION

4.2 PROGRAM DESCRIPTION

4.3 PUMP INSERVICE TEST PROGRAM DESCRIPTION

- 4.3.1 Program Development Philosophy
- 4.3.2 Program Implementation
- 4.3.3 Program Administration
- 4.3.4 Pump Reference List
- 4.3.5 Pump Inservice Test Tables
- 4.3.6 Pump Test Program Relief Request

4.4 VALVE INSERVICE TEST PROGRAM DESCRIPTION

- 4.4.1 Program Development Philosophy
- 4.4.2 Program Implementation
- 4.4.3 Program Administration
- 4.4.4 Valve Inservice Test Table
- 4.4.5 Valve Test Program Relief Request

4.5 REPORTING OF INSERVICE TEST RESULTS

- 4.5.1 Pump Inservice Program
- 4.5.2 Valve Inservice Program

4.6 QUALITY ASSURANCE PROGRAM

4.0 INSERVICE TESTING PROGRAM PLAN FOR PUMPS AND VALVES

4.1 INTRODUCTION

This Pump and Valve Inservice Test Program Plan is applicable to the Surry Power Station Unit 2. This program plan is comprised of two independent subprograms - the Pump Inservice Test Program and the Valve Inservice Test Program. The development, implementation and administration of these two programs are detailed in subsequent sections.

4.2 PROGRAM DESCRIPTION

This Inservice Testing Program for ISI Class 1, 2, 3 and NC pumps and valves meets the requirements of Subsections IWP and IWV of Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addendum. Where these requirements are determined to be impractical, specific requests for relief have been written and included in the program plan attached.

4.3 PUMP INSERVICE TEST PROGRAM DESCRIPTION

4.3.1 PROGRAM DEVELOPMENT PHILOSOPHY

Highly reliable safety-grade equipment is a vital consideration in the operation of a nuclear generating station. To help assure operability, the Surry Power Station Unit 2 Pump Inservice Test Program has been developed.

The Program is designed to detect and evaluate significant hydraulic or mechanical changes in the operating parameters of vital pumps and to initiate corrective action when necessary. The Program is based on the requirements of the ASME Boiler and Pressure Vessel Code (B&PV), Section XI, Subsection IWP. To the maximum extent practical, the Program complies with the specifications of the ASME B&PV Code, Section XI, Subsection IWP, 1980 Edition with Addendum through Winter of 1980; 10CFR50.55a(g); and NRC Staff guidelines for complying with certain provisions of 10CFR50.55a(g) "Inservice Inspection Requirements."

The Nuclear Regulatory Commission and Code Committee recognizes that design differences among plants may render impractical certain Code requirements. Where such impracticalities exist, they have been substantiated as exceptions as allowed by the Code. Alternate testing requirements have been proposed when warranted.

4.3.2 PROGRAM IMPLEMENTATION

Surveillance testing is performed to detect equipment malfunction or degradation and to initiate corrective action. Since the safeguards pumps are normally in standby mode, periodic testing of this equipment is especially important. The Surry Power Station Unit 2 Inservice Test Program provides a schedule for testing safety-grade pumps and will be implemented as part of normal periodic surveillance testing.

Reference data will be gathered during initial surveillance test. In most cases, test parameters will be measured with normal plant instrumentation. This approach will simplify the test program and will promote timely completion of periodic surveillance testing. When permanently installed instrumentation is not available, portable instrumentation will be used to record the required parameters.

During subsequent surveillance tests, flow rate will normally be selected as the independent test parameter and will be set up to match the reference flow rate. Other hydraulic and mechanical performance parameters will be measured and evaluated against the appropriate reference values. The results of such evaluations will determine whether or not corrective action is warranted.

Each pump in the Pump Inservice Test Program will be tested according to a detailed test procedure. The procedure will include, as minimum:

- a) References: This section will identify references applicable to Technical Specifications and other necessary material as drawings.
- b) Purpose: This section will identify test objectives.
- c) Initial Conditions: Each procedure should identify those independent actions or procedures which shall be completed and station conditions which shall exist prior to use.
- d) Precautions: Precautions should be established to alert the individual performing the task to those situations in which important measures should be taken early or where extreme care should be used to protect equipment and personnel. Cautionary notes applicable to specific steps in the procedure should be included in the main body of the procedure as appropriate and should be identified as such.
- e) Instructions: The main body of a procedure should contain step by step instructions in the degree of detail necessary for performing a required test. Instructions should reference or include detailed steps to remove a system from service and to return the system to operating status or standby.
- f) Acceptance Criteria: The ranges within which test data will be considered acceptable will be established and included in the test procedure. In the event that data fall outside the acceptable range, operator action will be governed by approved station procedures.

Finally, it is recognized that the Pump Inservice Test Program sets forth minimum testing requirements. Additional testing will be performed, as required, after pump maintenance or as determined necessary by personnel at Surry Power Station.

4.3.3 PROGRAM ADMINISTRATION

The operations and engineering staff at Surry Power Station are responsible for administration and execution of the Pump Inservice Test Program. The Program was officially implemented on May 1, 1983 and will govern pump testing for a 120 month period. Prior to the end of the 120 month period, the Program will be reviewed and upgraded to assure continued compliance with 10 CFR50.55a(g)(4). The Program will be updated a minimum of at least once every 40 months for new systems, relief request, etc.

4.3.4 PUMP REFERENCE LIST

This list gives a brief description of each pump identified in the Pump Test Program. The pump's ASME Code Classifications are specified in "PUMP INSERVICE TEST TABLES."

2-CH-P-1A
2-CH-P-1B
2-CH-P-1C

High Head Safety Injection or Charging Pumps provide high pressure flow for Safety Injection System and during normal operation, maintain pressurizer level and seal water injection to the Reactor Coolant Pumps. See drawing 11548-FM-88B.

2-SI-P-1A
2-SI-P-1B

Low Head Safety Injection Pumps provide low pressure safety injection to the core for long term cooling and as a backup to accumulators. See drawing 11548-FM-89A.

2-CS-P-1A
2-CS-P-1B

Containment Spray Pumps provide a cooled, chemically treated, borated spray to reduce containment pressure following a loss of coolant accident. See drawing 11548-FM-84A.

2-RS-P-2A
2-RS-P-2B

Outside Recirculation Spray Pumps aid the Containment Spray System in reducing containment pressure rapidly following a loss of coolant accident. See drawing 11548-FM-84B.

2-RS-P-1A
2-RS-P-1B

Inside Recirculation Spray Pumps aid the Containment Spray System in reducing containment pressure rapidly following a loss of coolant accident. See drawing 11548-FM-84B.

2-FW-P-3A
2-FW-P-3B
2-FW-P-2

Auxiliary Feedwater Pumps supply the steam generator with feedwater in the event of a complete loss of normal feedwater. See drawing 11548-FM-68A.

2-RH-P-1A
2-RH-P-1B

The function of Residual Heat Removal Pumps is to remove heat energy from the core when the Reactor Coolant System is below 350°F. See drawing 11548-FM-87A.

1-CC-P-1C
1-CC-P-1D

Component Cooling Water Pumps are used to supply water to remove heat from the Residual Heat Removal Systems. See drawings 11448-FM-72D.

1-CH-P-2C
1-CH-P-2D

Boric Acid Transfer Pumps supply boric acid to suction of charging pumps via normal coolant boron concentration and emergency makeup. See drawing 11448-FM-88A.

2-CC-P-2A
2-CC-P-2B

Charging Pumps Cooling Water Pump provide water to transfer heat from the charging pump mechanical seals. See drawing 11548-FM-71B.

2-SW-P-10A
2-SW-P-10B

Charging Pump Service Water Pumps provide cooling water for Charging Pump Cooling Water Systems. See drawing 11548-FM-71B.

1-EE-P-1B
1-EE-P-1C
1-EE-P-1E

Fuel Oil Pumps supply fuel oil to emergency diesel generators wall mounted tank. See drawing 11448-FB-4B.

4.3.5 PUMP INSERVICE TEST TABLES

This tabulation identifies the pumps to be tested, code classes, required test quantities and frequencies. Relief from test requirements is requested in cases where test requirements have been determined to be impractical. Where relief is requested, technical justification is provided along with alternative test methods when applicable.

To aid the reader in interpreting the Pump Inservice Test Table, brief explanations of the table headings and abbreviations are provided below.

- 1) Pump Number - Each pump in the plant has a unique "tag" number which identifies the system to which the pump belongs.
- 2) Code Class - ASME Code Class of each pump as per 10CFR50.55a and Regulatory Guide 1.26.

Note: NC is for non-class pumps

- 3) The required Section XI test quantities of Inlet Pressure, Differential Pressure (Discharge Pressure is not a required test quantity but is listed for clarity), Flow Rate, Vibration, Bearing Temperature, Pump Speed and Lubrication Level/Pressure are given as column headings. The following abbreviations are used to describe the test status:

Q - the test will be performed on a quarterly basis.

CSD - the test will be performed every cold shutdown. A relief request explains the need for deviating from Section XI test frequency requirements

NA - the test is not applicable, see corresponding relief request.

PUMP INSERVICE TEST TABLE

Pump Identification	ASME Class	Inlet Pressure	Discharge Pressure	Differential Pressure	Flow Rate	Vibration	Bearing Temperature	Pump Speed	Lubrication Level/Pressure	Relief Request
2-CH-P-1A	2	NA	Q	NA	NA	Q	NA	NA	Q	0,1,2
2-CH-P-1B	2	NA	Q	NA	NA	Q	NA	NA	Q	0,1,2
2-CH-P-1C	2	NA	Q	NA	NA	Q	NA	NA	Q	0,1,2
2-SI-P-1A	2	NA	Q	NA	Q	Q	NA	NA	NA	0,1,3,12
2-SI-P-1B	2	NA	Q	NA	Q	Q	NA	NA	NA	0,1,3,12
2-CS-P-1A	2	Q	Q	Q	Q	Q	NA	NA	Q	0,1
2-CS-P-1B	2	Q	Q	Q	Q	Q	NA	NA	Q	0,1
2-RS-P-2A	2	NA	Q	NA	Q	Q	NA	NA	NA	0,1,4,12
2-RS-P-2B	2	NA	Q	NA	Q	Q	NA	NA	NA	0,1,4,12
2-RS-P-1A	2	NA	NA	NA	NA	NA	NA	NA	NA	0,1,5
2-RS-P-1B	2	NA	NA	NA	NA	NA	NA	NA	NA	0,1,5
2-FW-P-3A	3	Q	Q	Q	NA	Q	NA	NA	Q	0,1,6
2-FW-P-3B	3	Q	Q	Q	NA	Q	NA	NA	Q	0,1,6
2-FW-P-2	3	Q	Q	Q	NA	Q	NA	Q	Q	1,6
2-RH-P-1A	2	CSD	CSD	CSD	CSD	CSD	NA	NA	NA	0,1,7,12
2-RH-P-1B	2	CSD	CSD	CSD	CSD	CSD	NA	NA	NA	0,1,7,12

PUMP INSERVICE TEST TABLE

Pump Identification	ASME Class	Inlet Pressure	Discharge Pressure	Differential Pressure	Flow Rate	Vibration	Bearing Temperature	Pump Speed	Lubrication Level/Pressure	Relief Request
1-CC-P-1C	3	Q	Q	Q	NA	Q	NA	NA	Q	0,1,14
1-CC-P-1D	3	Q	Q	Q	NA	Q	NA	NA	Q	0,1,14
1-CH-P-2C	3	NA	Q	NA	NA	NA	NA	NA	NA	0,1,9,12
1-CH-P-2D	3	NA	Q	NA	NA	NA	NA	NA	NA	0,1,9,12
2-CC-P-2A	3	Q	Q	Q	Q	Q	NA	NA	NA	0,1,13
2-CC-P-2B	3	Q	Q	Q	Q	Q	NA	NA	NA	0,1,13
2-SW-P-10A	3	Q	Q	Q	Q	Q	NA	NA	NA	0,1,13
2-SW-P-10B	3	Q	Q	Q	Q	Q	NA	NA	NA	0,1,13
1-EE-P-1B	NC	NA	NA	NA	NA	NA	NA	NA	Q	0,1,11
1-EE-P-1C	NC	NA	NA	NA	NA	NA	NA	NA	Q	0,1,11
1-EE-P-1E	NC	NA	NA	NA	NA	NA	NA	NA	Q	0,1,11

4.3.6 PUMP TEST PROGRAM RELIEF REQUEST

Relief Requests identify code requirements which are impractical for Surry Unit 2 and provide justification for the requested exception. Where appropriate, alternate testing to be performed in lieu of the code requirements is proposed.

RELIEF REQUEST 0

Systems: Various

Pump(s): IWP Program Pumps except 2-FW-P-2. See PUMP INSERVICE TEST TABLE.

Class :

Section XI Code Requirements
For Which Relief Is Requested

Quarterly measurements of pump speeds.

Basis For Request

IWP-4400 does not require pump speeds measurement if pump is directly coupled to a constant speed motor driver.

Alternate Testing Proposed

None.

RELIEF REQUEST 1

Systems: Various

Pump(s): IWP Program Pumps. See PUMP INSERVICE TEST TABLE

Class :

Section XI Code Requirements For Which Relief Is Requested

Measure pump bearing temperatures and vibration in mils.

Basis For Request

Pump vibration and bearing temperature measurements are used to detect changes in the mechanical characteristics of a pump. Regular testing should detect developing problems, thus repairs can be initiated prior to a pump becoming inoperable. The ASME Section XI minimum standards require measurements of the vibration amplitude displacement in mils every three months and bearing temperatures once per year.

Our proposed program is based on vibration readings in velocity units rather than vibration amplitude in mils displacement. This technique is an industry accepted method which is more sensitive to small changes that are indicative of developing mechanical problems and hence more meaningful. Velocity measurements detect not only high amplitude vibrations that indicate a major mechanical problem but also the equally harmful low amplitude high frequency vibrations due to misalignment in balance, or bearing wear that usually go undetected by simple displacement measurements.

In addition, these readings go far beyond the capabilities of a bearing temperature monitoring program. A bearing will be seriously degraded prior to the detection of increased heat at the bearing housing. Quarterly vibration velocity readings should achieve a much higher probability of detecting developing problems than the once per year reading of bearing temperatures.

Bearing temperature tests present problems which include the following:

1. Certain systems have no recirculation test loops and a limited source of water. An enforced thirty minute run time would deplete the source.
2. The lubricating fluid for some pumps is taken from the process water, which can change temperature depending on ambient conditions. Data trending for these cases is not meaningful.

Therefore, the detection of possible bearing failure by a yearly temperature measurement is extremely unlikely. The small probability of detection of a bearing failure by temperature measurement does not justify the additional pump operating time required to obtain the measurements. In addition, it is impractical to measure bearing temperatures on many pumps.

RELIEF REQUEST 1 (CONT'D)

Alternate Testing Proposed

Pump vibration measurements will be taken in vibration velocity (in/sec). The evaluation of the readings will be per the attached table. For more information, see ASME Publication 78-WA/NE-5 and minutes of November 28, 1979 meeting of the Operating and Maintenance Working Group - Testing of Pumps and Valves in San Jose, California, dated January 9, 1980.

RELIEF REQUEST 1 (CONT'D)
SURRY 2

ALLOWABLE RANGES OF VIBRATION VELOCITY FOR PUMP
TESTING PER SUBSECTION IWP

Test Band No.	Test Quantity (in/sec)	Acceptable Range (in/sec)	Alert Range (in/sec)	Required Action Range (in/sec)
1	V_t When $0 \leq V_{r1} \leq 0.05$	0 to 0.075	0.075 to 0.1	>0.1
2	V_t When $0.05 < V_{r2} \leq 0.1$	0 to 0.15	0.15 to 0.2	>0.2
3	V_t When $0.1 < V_{r3} \leq 0.15$	0 to 0.2	0.2 to 0.25	>0.25
4	V_t When $0.15 < V_{r4} \leq 0.25$	0 to 0.285	0.285 to 0.314	>0.314

Definitions: V_r = Reference velocity measurement (in/sec filtered peak)

V_t = Surveillance test velocity measurement (in/sec filtered peak)

Note: The frequency response range of the vibration measuring transducers and their readout system shall be from one-half minimum pump shaft rotational speed to at least 1,000 Hertz.

RELIEF REQUEST 2

Systems: Chemical and Volume Control

Pump(s): 2-CH-P-1A
2-CH-P-1B
2-CH-P-1C

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Measure inlet pressure, differential pressure and flow

Basis For Request

Instrumentation not installed

Alternate Testing Proposed

Suction pressure instrumentation is not installed nor required, therefore, differential pressure cannot be calculated. These pumps are capable of producing greater than 2400 psig discharge pressure, while the suction pressure is normally 20 psig. Therefore, differential pressure developed by the pump is more than 100 times the suction pressure and a gauge for suction pressure would not provide significant data. Therefore, we propose to observe Volume Control Tank Pressure using control room indication to assure repeated initial conditions for pump testing.

NOTE: A Design Change has been initiated for inlet pressure and flow measurement instrumentation. Installation of the inlet pressure instrumentation will allow for the calculation of differential pressure. The instrumentation is scheduled for installation in accordance with the Nuclear Operations Department Five Year Plan for Surry Power Station.

RELIEF REQUEST 3

Systems: Safety Injection

Pump(s): 2-SI-P-1A
2-SI-P-1B

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Measure inlet pressure and differential pressure.

Basis For Request

Inlet and differential pressure instrumentation not installed.

Alternate Testing Proposed

These pumps take suction from the RWST for performance testing. The tank level has a minimum requirement by Technical Specifications which will insure similar initial conditions for testing.

NOTE: A Design Change has been initiated for inlet pressure instrumentation, which will allow for the calculation of differential pressure. The instrumentation is scheduled for installation in accordance with the Nuclear Operations Department Five Year Plan for Surry Power Station.

RELIEF REQUEST 4

Systems: Recirculation Spray

Pump(s): 2-RS-P-2A
2-RS-P-2B

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Measure inlet pressure and differential pressure.

Basis For Request

Instrumentation is not installed.

Alternate Testing Proposed

Suction pressure instrumentation is not installed, therefore differential pressure cannot be calculated. Suction pressure is the same for each test since suction pressure is only the head of water in the filled pump casing.

NOTE: A Design Change has been initiated for inlet pressure instrumentation, which will allow for the calculation of differential pressure. The instrumentation is scheduled for installation in accordance with the Nuclear Operations Department Five Year Plan for Surry Power Station.

RELIEF REQUEST 5

Systems: Recirculation Spray

Pump(s): 2-RS-P-1A
2-RS-P-1B

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Measure inlet pressure, discharge pressure, differential pressure, flow and vibration, and observe proper lubricant level or pressure.

Basis For Request

Technical Specification 4.5.A.2 requires that the pumps be dry tested. Testing of these pumps would require spraying water on components in containment. Also, dry testing of the pumps will not give meaningful data. The pump and motor are totally enclosed and air cooled; therefore, the observation of lubricant level or pressure is not applicable to these pumps.

Alternate Testing Proposed

Motor current is measured monthly and compared with previous readings. Also, it can be determined that the pump shafts are turning by rotation sensors which indicate in the Main Control Room.

RELIEF REQUEST 6

Systems: Feedwater

Pump(s): 2-FW-P-3A
2-FW-P-3B
2-FW-P-2

Class : 3

Section XI Code Requirements
For Which Relief Is Requested

Measure flow.

Basis For Request

Instrumentation not installed.

Alternate Testing Proposed

Inservice testing data is collected except flow; therefore, there is sufficient data collected for evaluation of pump performance.

NOTE: Engineering Work Request "EWR 86-557" has been initiated for installation.

RELIEF REQUEST 7

Systems: Residual Heat Removal

Pump(s): 2-RH-P-1A
2-RH-P-1B

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Frequency of Pump Test.

Basis For Request

It is considered impractical to make a containment entry on a quarterly basis in order to test these pumps. Operability will be determined each cold shutdown when the system is placed into operation (but not more frequently than every three months).

Alternate Testing Proposed

Pumps will be tested each cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 8

Relief Request Withdrawn

RELIEF REQUEST 9

Systems: Chemical and Volume Control

Pump(s): 1-CH-P-2C
1-CH-P-2D

Class : 3

Section XI Code Requirements For Which Relief Is Requested

Measure inlet pressure, differential pressure, vibration and flow.

Basis For Request

1. No instrumentation installed for inlet pressure, differential pressure and flow.
2. Pumps are totally incased in insulation, therefore, vibration probes cannot be placed in contact with pumps for a reading.

Alternate Testing Method

These pumps take suction from Boric Acid Storage Tanks. Tank level will be observed to establish initial condition of testing, therefore, inlet pressure will not be measured. No flow rate measurement device is currently installed.

NOTE: A Design Change has been initiated for inlet pressure, flow and vibration instrumentation. Installation of inlet pressure instrumentation will allow for the calculation of differential pressure. The instrumentation is scheduled for installation in accordance with the Nuclear Operations Department Five Year Plan for Surry Power Station.

RELIEF REQUEST 10

Relief Request Withdrawn

RELIEF REQUEST 11

Systems: Fuel Oil

Pump(s): 1-EE-P-1B
1-EE-P-1C
1-EE-P-1E

Class : NC

Section XI Code Requirements
For Which Relief Is Requested

Measure inlet pressure, differential pressure, flow rate and vibration.

Basis For Relief

Code interpretations consider these pumps to be outside the scope of ASME Section XI. Attached is copy of specified inquiry and reply on which relief is based.

Alternate Testing Proposed

These pumps will be tested monthly by observing that the pumps perform their intended function (fuel oil is flowing to the day tank when the pumps are running).

NOTE: Instrumentation for performing Section XI tests will be installed in accordance with the Nuclear Power Operations Department Five Year Plan for Surry Power Station.

INQUIRY AND REPLY
AS SENT TO INQUIRER

08/14/81

FILE NUMBER
BC/77/666

INQUIRER COMPANY
WPPSS

REPLY SENT
78/02/17

SUBJECT
SCOPE OF SECTION XI, DIVISION 1
Question:

Is it the intent of Subarticle IWA-1100 that the rules and requirements of Section XI, Division 1 for inservice inspection of Class 1, 2 & 3 pressure retaining components (and their supports) be applied only to water and steam systems in light water cooled nuclear power plants?

Reply:

Systems containing other than steam or water were not originally considered by the committee in formulating the rules in Section XI; they may, however, be included for further consideration and for revisions to future editions of Section XI. The requirements shown in Section XI, Article IWA-1100 on Scope and Responsibility, specifically paragraph IWA-1400, requires the owner of the nuclear plant to determine the appropriate code, class or classes for each component of the nuclear power plant to be examined according to Section XI rules.

RELIEF REQUEST 12

Systems: Safety Injection, Recirculation Spray, Residual Heat Removal, and
Chemical and Volume Control

Pump(s): 2-SI-P-1A 2-RH-P-1A
 2-SI-P-1B 2-RH-P-1B
 2-RS-P-2A 1-CH-P-2C
 2-RS-P-2B 1-CH-P-2D

Class : 2 for 2-SI-P-1A and B
 2-RS-P-1A and B
 2-RH-P-1A and B
 3 for 1-CH-P-2A and B

Section XI Code Requirements
For Which Relief Is Requested

Observe proper lubricant level or pressure.

Basis For Request

These pumps are cooled by fluid through the pump. Therefore, the other
Code required pump parameters will ensure proper level of lubrication.

Alternate Testing Proposed

None.

RELIEF REQUEST 13

Systems: Component Cooling and Service Water

Pump(s): 2-CC-P-2A
2-CC-P-2B
2-SW-P-10A
2-SW-P-10B

Class : 3

Section XI Code Requirements
For Which Relief Is Requested

Observe proper lubricant level or pressure.

Basis For Request

Pump bearings are carried in the drive motor and are greased and lubricated. Therefore, the other Code required parameters will ensure proper level of lubrication.

Alternate Testing Proposed

None.

RELIEF REQUEST 14

Systems: Component Cooling

Pump(s): 1--CC-P-1C
1--CC-P-1D

Class : 3

Section XI Code Requirements
For Which Relief Is Requested

Measure pump flow rate during the quarterly testing.

Basis For Request

Pump total flow is not a measurable parameter during pump quarterly testing, however during the quarterly testing a repeatable flow loop is established.

Alternate Testing Proposed

During the quarterly testing, the flow is measured for the repeatable loop which gives enough data for trending purposes.

NOTE: A Design Change has been initiated for flow instrumentation. The instrumentation is scheduled for installation in accordance with the Nuclear Operations Department Five Year Plan for Surry Power Station.

4.4 VALVE INSERVICE TEST PROGRAM DESCRIPTION

4.4.1 PROGRAM DEVELOPMENT PHILOSOPHY

Surry Power Station Unit 2 is a Pressurized Water Reactor being operated in compliance with the ASME Boiler and Pressure Vessel Code. The Code requires periodic testing of certain safety related valves in order to verify their operability and physical integrity. The Surry Unit 2 Valve Inservice Test Program satisfies these requirements.

The program will detect potentially adverse changes in the mechanical condition of valves within the scope of Section XI, Subsection IWV of the Code. The scope includes all valves "which are required to perform a specific function in shutting down a reactor to a cold shutdown condition or in mitigating the consequences of an accident." It is important to note that the scope of ASME Section XI, and the Surry Inservice Testing Program for its implementation includes many valves which are not required to operate to meet FSAR license condition of hot shutdown nor limiting conditions in the plant Technical Specifications. Therefore corrective action as specified in Subsection IWV will be applied as much as practical but is not interpreted to supercede or append any existing limiting condition of operation.

To generate the Surry Unit 2 Valve Program, ASME Class 1, 2 and 3 valves were analyzed to determine their required type and frequency of testing. The valves to be tested under Section XI, Subsection IWV commitments are listed by system and drawing in the Valve Test Tables.

Surry Unit 2 is committed to meeting the leak rate testing requirements of:

1. 10CFR50, Appendix J for containment isolation valves and
2. Section XI for other valves for which seat leakage is limited to a specific maximum amount (i.e. pressure isolation valves) unless relief is specifically requested from Section XI requirements.

The Code recognizes that certain of its requirements may be impractical for a specific plant and contains provisions for requesting relief from impractical requirements.

The relief requests for the Valve Inservice Test Program identify testing impracticalities, provide technical basis for the request and propose alternate testing where warranted.

The stroke time of solenoid controlled, air operated valves is both extremely rapid and subject to considerable variation. Exception is taken to complying with stroke time criteria defined by Paragraph IWV-3417(a).

Virginia Electric and Power Company is confident that the Surry Unit 2 Valve Inservice Test Program complies with the intent of the applicable codes, regulation, and guidelines and that it will make a positive contribution to the safe operation of the plant.

4.4.2 PROGRAM IMPLEMENTATION

The Valve Inservice Test Program will be executed as part of the normal plant surveillance routine. Three types of test will be conducted as part of the Valve Test Program:

1. Valve Operability Tests
2. Valve Leak Rate Tests
3. Safety Valve Tests

The Operability Tests will verify that: 1) the valve responds to control commands, 2) the valve stroke time is within specified limits and 3) remote position indication accurately reflects the observed valve position. Remote valve position indication will be verified every two years.

Fail-safe valves will be tested by observing the valve operation upon loss of actuating power. In most cases, this can be accomplished using normal control circuits.

The following clarification shall apply to those valves which are scheduled to be exercised during cold shutdown:

"Valve testing shall commence not later than 48 hours after reaching cold shutdown and continue until complete or unit is ready to return to power. Completion of the valve testing is not a prerequisite to return to power. Any testing not completed at one cold shutdown should be performed during the subsequent scheduled cold shutdowns to meet the code specified testing frequency."

Valve Leakage Tests will verify that valves are leak tight in accordance with Appendix J or ASME Section XI. Relief and safety valves are not required to be leak rate tested (IWV-3512) and are not included as valves to be leak tested.

Safety and relief valve setpoints are tested in accordance with ASME PTC-25.3-1976 as directed by IWV-3512. Main Steam safety valves will be tested in accordance with Section 4.091(a)(2). Other safety and relief valves will be tested in accordance with Section 4.091(c)(1).

4.4.3 PROGRAM ADMINISTRATION

The operations and engineering staffs at Surry Power Station are responsible for administration and execution of the Valve

Inservice Test Program. The program was officially implemented on May 1, 1983 and governs valve testing for a 120 month period. Prior to the end of the 120 month period, the program will be reviewed and upgraded to assure continued compliance with 10CFR50.55a(g)(4). The program will be updated a minimum of at least once every 40 months or for a new system, relief request, etc.

4.4.4 VALVE INSERVICE TEST TABLES

The Valve Test Tables are the essence of the Valve Program to meet ASME Section XI, Subsection IWV requirements. The tables reflect the positions taken in support of the relief requests. To aid the reader in the interpretation of the tables, brief explanations of the table headings and abbreviations are provided.

1. Valve Number - Each valve in the plant has a unique "tag" number which identifies the system to which the equipment belongs and type of equipment.
2. Drawing Location - The specific coordinates of each valve are supplied to facilitate location of the valves on the flow diagrams provided.
3. Function - A brief description of the function of the valve.
4. Code Class - ASME Code Class of each valve as per 10CFR50.55a and Regulatory Guide 1.26.

NOTE: - NC is for non-class valves.

5. Category - Categories are defined by ASME Section XI, Subsection IWV. Each Valve has specific testing requirements which are determined by the category to which it belongs. Valves marked with an "E" are passive valves.
6. Size - Nominal diameter of pipe to which valve connects is given in inches.
7. Valve Type - The following abbreviations are used to describe valve type:

CK - Check
RV - Relief
SF - Safety
BA - Ball
GL - Globe

GA - Gate
BF - Butterfly
SCK - Stop Check
PL - Plug
DA - Diaphragm

8. Actuator Type - The following abbreviations are used to describe actuator types. Valves may be actuated in more than one way.

SA - Self Actuating (actuated by a change in system parameters such as flow, or pressure, e.g., check and relief valves).
MO - Motor Operated
PN - Pneumatic (Air Operated)
MAN - Manually Operated
SOV - Electronic Solenoid Operated Valves

9. Normal Position - The following abbreviations are used to describe normal valve positions:

O - Open
C - Closed
OC - Open or Closed
T - Throttled

10. Test Required - Testing requirements identified for the valves are identified here.

ST - Stroke Times shall be measured per Section XI, Subsubarticle IWV-3410 or as modified by specific relief request.

EV - Exercise Valve for operability at least once every 3 months per Section XI, Subsubarticle IWV-3410 or as modified by specific relief request.

LT - Leak Test shall be performed per Section XI, Subsubarticle IWV-3420 or as modified by specific relief request. Valves marked by asterisk(*) will be tested in accordance with Appendix J.

CV - Check Valves shall be exercised at least once every 3 months per Section XI, Subsubarticle IWV-3520 or as modified by specific relief request.

VP - Valve Position Indication Verification shall be verified per Section XI, Subsubarticle IWV-3300 or as modified by specific relief request.

SP - Set points of safety and relief valves shall be tested per Section IX, Subsubarticle IWV-3510 or as modified by specific relief request.

FS - Valves with fail-safe actuators shall be tested by observing the operation of the valves upon loss of actuator power.

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Main Steam

Drawing Number: 11548-FM-64A

Valve Number	Drawing Location	Function	Code Class	Cate-gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SV-MS-201A,B,C	B-3, B-4, B-6	Main Steam Safety Valves	2	C	4	SF	SA	C	SP	1
SV-MS-202A,B,C	C-3, C-4, C-6									
SV-MS-203A,B,C	B-3, B-4, B-6									
SV-MS-204A,B,C	B-3, B-4, B-6									
SV-MS-205A,B,C	C-3, C-4, C-6									
TV-MS-201A,B,C	D-3, D-5, D-7	Main Steam Line Trip Valves	2	B	30	CK	PN	O	EV,ST VP	2
NRV-MS-201A	D-3	Main Steam Non Return Valves	2	C	30	SCK	MOV	O	CV	3
NRV-MS-201B	D-5									
NRV-MS-201C	D-6									
RV-MS-201A	C-2	Main Steam PORV	2	C	4	RV	SA	C	SP	1
RV-MS-201B	B-4									
RV-MS-201C	C-6									
PCV-MS-202A	F-8	Main Steam to Turbine Driven Aux. FW Pump	2	B	3	GA	PN	C	EV,ST VP,FS	None
PCV-MS-202B	G-8									
HCV-MS-204	B-4	Decay Heat Release Control Valve	2	B	4	GA	PN	C	EV,VP	32
TV-MS-209	F-7	Main Steam Drain to Condenser	2	B	3	GA	PN	O	EV,ST VP	None
NRV-MS-202A,B,C	C-3 C-4 C-6	Main Steam Non Return Valves	2	C	3	SCK	Man	O	CV	3

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Main Steam

Drawing No.: 11548-FM-64A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-MS-210	E-7	Main Steam Drain to Blow- down	2	B	2	GA	PN	O	EV, ST VI	34
2-MS-176	E-8	Main Steam to Turbine Driven	2	C	3	CK	SA	C	CV	None
2-MS-178	E-8	Aux FW Check Valves								
2-MS-182	E-8									

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Aux. Steam and Air Removal

Drawing No. 11548-FM-66A

Valve Number	Drawing, Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-SV-202A	A-6	Air Removal Direct to Reactor Containment	2	A	6	GA	PN	C	LT*, EV ST, VP	None
2-VP-12	A-6	Air Removal Direct to Reactor Containment	2	ACE	6	CK	SA	C	LT*	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Feedwater

Drawing No. 11548-FM-68A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-FW-27	C-2	Auxiliary Feedwater Header								
2-FW-58	B-4	Check Valves at Main Feed-	2	C	3	CK	SA	C	CV	4
2-FW-89	B-5	water Header								
2-FW-131	C-6	Auxiliary Feedwater Header								
2-FW-133	C-6	Check Valves at Contain-	2	C	6	CK	SA	C	CV	4
2-FW-136	C-6	ment Penetration								
2-FW-138	C-6									
2-FW-142	D-7	Auxiliary Feedwater Pump	3	C	6	CK	SA	C	CV	4
2-FW-157	E-7	Discharge Check Valves at								
2-FW-172	F-7	Containment Penetration								
MOV-251A,B,C, D,E,F	B-6, B-6, B-6 B-6, C-6, C-6	Auxiliary Feedwater to Steam Generators	2	B	3	GL	MOV	O	EV, ST VP	None
2-FW-144	D-7	Auxiliary Feedwater Pump								
2-FW-159	F-7	Recirculation Check	3	C	1	CK	SA	C	CV	None
2-FW-174	G-7	Valves								
2-FW-10, 12 41, 43 72, 74	C-2, C-2 C-4, C-4 C-5, C-5	Main Feedwater Check Valves at Containment Pene- trations	2	C	14	CK	SA	O	CV	5

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Auliliary Feed Cross Connect

Drawing No. 11448-FM-68B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-FW-260A	J-2	Cross-Connect for Unit 1							ET, SV	
MOV-FW-260B	J-2	Aux. Feed. from Unit 2	3	B	6	GL	MOV	C	VP	None
2 FW-272	J-4	Check Valves at Cont. Penet.								
2-FW-273	I-4	(Cross-Connect for Unit 2 Aux. Feed from Unit 1)	2	C	6	CK	SA	C	CV	4
2-FW-305	I-4	Check Valves at Cont. Penet.								
2-FW-306	I-4	(Cross-Connect for Unit 2 Aux. Feed. from Unit 1)	2	C	6	CK	SA	C	CV	4

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Circulating and Service Water

Drawing No. 11548-FM-71A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-CW-206A	E-4	Condenser Inlet Isolation Valves	3	B	96	BF	MOV	O	EV, ST VP	None
MOV-CW-206B	E-4									
MOV-CW-206C	F-4									
MOV-CW-206D	F-4									
MOV-SW-202A	E-6	Service Water to Component Cooling Water Heat Ex- changers	3	B	10	BF	MOV	O	EV, ST VP	None
MOV-SW-202B	F-6									
MOV-SW-203A	B-6	Service Water to Recircu- lation Spray Heat Ex- changers	3	B	30	EF	MOV	C	EV, ST VP	None
MOV-SW-203B	B-6									
MOV-SW-203C	D-6									
MOV-SW-203D	E-6									
MOV-SW-204A	A-2	Recirculation Spray Heat Exchangers Suction Isola- tion Valves	3	B	24	BF	MOV	O	EV, ST VP	None
MOV-SW-204B	B-2									
MOV-SW-204C	C-2									
MOV-SW-204D	C-2									
MOV-SW-205A	A-2	Recirculation Spray Heat Exchanger Discharge Isola- tion Valves	3	B	24	BF	MOV	O	EV, ST VP	None
MOV-SW-205B	A-2									
MOV-SW-205C	B-2									
MOV-SW-205D	C-2									
MOV-SW-206A	D-4	Recirculation Spray Heat Exchangers Cross-Connect Valves	3	B	36	EF	MOV	O	EV, ST VP	None
MOV-SW-206B	D-4									

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Circulating and Service Water

Drawing No. 11548-FM-71A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-SW-201A	B-7	Bearing Cooling Water	3	B	36	BF	MOV	O	EV, ST	None
MOV-SW-201B	C-7	Heat Exchange isolation Valves							VP	
MOV-CW-200A	E-2	Condenser Discharge Isolation Valves	NC	B	96	BF	MOV	O	EV, ST	None
MOV-CW-200B	E-2								VP	
MOV-CW-200C	F-2								VP	
MOV-CW-200D	F-2								VP	
2-SW-206	A-1	Containment Isolation	3	AE	2	GA	Man	C	LT*	None
2-SW-208	A-1	Valves for Service Water Drains to Heat Exchanger								

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Circulating and Service Water

Drawing No. 11548-FM-71B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-CC-764	D-5	Charging Pump Cooling								
2-CC-329	G-5	Water Pump Discharge Check Valve	3	C	2	CK	SA	OC	CV	None
2-SW-113	E-9	Charging Pump Service								
2-SW-108	H-8	Water Pump Check Valve	3	C	2	CK	SA	OC	CV	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Component Cooling

Drawing No. 11548-FM-72A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-CC-219A	L-2	Component Cooling from RHR	3	C	1 1/2	RV	SA	C	SP	1
RV-CC-219B	L-3	Heat Exchanger Relief Valve								
2-CC-176	A-1	Component Cooling to RHR	3	C	18	CK	SA	OC	CV	7
2-CC-177	A-1	Heat Exchanger Check Valve								
2-CC-1	A-1	Component Cooling to	3	C	6	CK	SA	O	CV	8
2-CC-58	A-2	Reactor Coolant Pumps								
2-CC-59	A-2									
RV-CC-216A	B-3	Component Cooling Reactor	3	C	1 1/2	RV	SA	C	SP	1
RV-CC-216B	B-5	Coolant Pump Relief								
RV-CC-216C	B-8									
RV-CC-224	F-1	Component Cooling Piping Relief Valve	3	C	3/4	RV	SA	C	SP	1
RV-CC-218	G-4	Component Cooling Excess Letdown Heat Exchanger Relief Valve	3	C	3/4	RV	SA	C	SP	1

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Component Cooling Water

Drawing No. 11548-FM-72E

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-CC-242	C-2	Component Cooling to								
2-CC-233	D-2	Reactor Containment Air	3	C	6	CK	SA	0	CV	7
2-CC-224	E-2	Recirculation Coolers								

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Component Cooling Water

Drawing No. 11448-FM-72D

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-CC-569	B-3	Component Cooling Pump								
1-CC-578	B-3	Discharge Check	3	C	18	CK	SA	OC	CV	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Component Cooling

Drawing No. 11448-FM-72F

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-CC-205A TV-CC-205B TV-CC-205C	A-1 B-1 C-1	Component Cooling from Reactor Coolant Pumps	3	B	6	BA	PN	0	EV, VP ST	8,34
TV-CC-207	A-1	Component Cooling from Reactor Coolant Pumps	3	B	2 1/2	GL	PN	0	EV, VP ST	8,34
TV-CC-209A TV-CC-209B	E-4 E-3	Component Cooling from RHR Heat Exchangers.	3	B	18	BF	PN	0	FS, ST EV, VP	34
TV-CC-210A TV-CC-210B TV-CC-210C	E-2 D-2 C-2	Component Cooling from Reactor Containment Air Recirculation Coolers	3	B	6	BF	PN	0	EV, VP ST	None

Surry Power Station Unit No. 2
 Inservice Testing.
 ASME Code Class 1, 2, and 3 Valves

System Name: Compressed Air System

Drawing No. 11548-FM-75C

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-IA-864	H-2	Instrument Air to Contain- ment	2	AC	2	CK	SA	0	CV, LT*	9
2-IA-868	H-2	Instrument Air to Contain- ment	2	AC	2	CK	SA	0	CV, LT*	9

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Compressed Air System

Drawing No. 11548-FM-75E

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-SA-81	D-7	Service Air to Containment	2	AE	2	GL	Man	C	LT*	None
2-SA-82	E-7	Service Air to Containment	2	AE	2	GL	Man	C	LT*	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Containment Instrument Air

Drawing No. 11548-FM-75J

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-IA-201A TV-IA-201B	K-7 J-7	Instrument Air Suction from Containment	2	A	2	GA	PN	0	LT*, EV ST, VP	34
TV-IA-200	K-2	Instrument Air Discharge from Containment	2	A	2	GA	PN	0	LT*, EV ST, VP	34
2-IA-704	J-2	Back up Instrument Air to Containment	2	AE	2	GA	Man	C	LT*	None
1-IA-704	J-1	Back up Instrument Air to Containment from Unit 1	2	AE	2	GA	Man	C	LT*	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Sampling System

Drawing No. 11548-FM-82A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-SS-203A TV-SS-203B	D-1 E-1	Residual Heat Removal System Sample	2	A	3/8	GA	PN	C	LT*, EV ST, VP	34
TV-SS-200A TV-SS-200B	D-1 E-1	Pressurizer Liquid Space Sample	1	A	3/8	GA	PN	C	LT*, EV ST, VP	34
TV-SS-201A TV-SS-201B	D-1 E-1	Pressurizer Vapor Space Sample	1	A	3/8	GA	PN	C	LT*, EV ST, VP	34
TV-SS-206A TV-SS-206B	D-2 E-2	Primary Coolant Hot Leg Samples	1	A	3/8	GA	PN	C	LT*, EV ST, VP	34
TV-SS-202A TV-SS-202B	D-2 E-2	Primary Coolant Cold Leg Sample	1	A	3/8	GA	PN	C	LT*, EV ST, VP	34
TV-SS-204A TV-SS-204B	D-2 E-2	Pressurizer Relief Tank Gas Space Sample	2	A	3/8	GA	PN	C	LT*, EV ST, VP	34

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Vents and Drains

Drawing No. 11548-FM-83A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-DA-200B	I-8	Reactor Containment Sump Pump Discharge Isolation	2	A	2	GA	PN	C	LT*, VP EV, ST	34
TV-DA-203A TV-DA-203B	I-9 I-9	Post Accident Sample Return Line	2	A	2	GA	PN	C	LT*, VP EV, ST	34
2-VA-1	I-5	Primary Vent Pot Vent	2	AE	2	GA	Man	C	LT*	None
TV-DG-208B	I-4	Primary Drain Transfer Pump Discharge Isolation	2	A	2	GA	PN	C	LT*, VP EV, ST	34
TV-VG-209B	I-2	Gas Vent Header Isolation	2	A	2	GA	PN	0	LT*, VP EV, ST	34

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Vents and Drains

Drawing No. 11548-FM-83B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-DA200A	J-8	R. C. Sump Pump Discharge Isolation	2	A	2	GA	PN	OC	LT*, EV ST, VP	34
TV-DG208A	L-4	Pr. Dr. Transfer Pump Disch. Isolation	2	A	2	GA	PN	OC	LT*, EV ST, VP	34
TV-VG209A	L-2	Gas Vent Hdr. Isolation	2	A	1 1/2	GA	PN	O	LT*, EV ST, VP	34
2-VA-9	L-4	Containment Isolation	2	AE	2	GA	MAN	C	LT*	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Containment Spray System

Drawing No. 11548-FM-84A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-CS-201A	H-2	Containment Spray Pump Discharge	2	A	8	GA	MOV	C	LT*, EV ST, VP	None
MOV-CS-201B	H-2									
MOV-CS-201C	H-3									
MOV-CS-201D	H-3									
2-CS-13	I-2	Containment Spray Discharge Check Valves	2	AC	8	CK	SA	C	CV, LT*	10
2-CS-24	I-3									
2-CS-105	K-3	Containment Spray Pump Discharge Check Valve	2	C	8	CK	SA	C	CV	10
2-CS-104	K-1									
MOV-CS-202A	C-6	Chemical Addition Tank to RWST Isolation Valve	2	B	6	GA	MOV	C	EV, ST VP	None
MOV-CS-202B	C-6									
MOV-CS-203A	D-6	Chemical Addition Tank Discharge to Suction Containment Spray Pump	2	B	3	GA	MOV	C	EV, ST VP	None
MOV-CS-203B	D-6									
MOV-CS-203C	D-7									
MOV-CS-203D	D-6									

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Recirculation Spray System

Drawing No. 11548-FM-84B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-RS-255A	D-8	Recirculation Spray Pump	2	A	12	PL	MOV	O	LT*, EV	None
MOV-RS-255B	D-8	Suction from Containment Sump							ST, VP	
MOV-RS-256A	E-4	Recirculation Spray Pump	2	A	10	BF	MOV	O	LT*, EV	None
MOV-RS-256B	E-3	Discharge							ST, VP	
2-RS-11	F-3	Recirculation Spray Pump	2	AC	10	CK	SA	C	CV, LT*	10
2-RS-17	F-4	Discharge Check Valves								

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Containment Vacuum and Leakage Monitoring

Drawing No. 11548-FM-85A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-LM-200A	E-3	Leakage Monitoring System Isolation	2	A	3/8	GA	PN	0	LT*, EV ST, VP	34
TV-LM-200B	E-3									
TV-LM-200C	E-3									
TV-LM-200D	E-3									
TV-LM-200E	E-3									
TV-LM-200F	E-3									
TV-LM-200G	D-3									
TV-LM-200H	E-3									
HCV-CV-200	J-5	Containment Air Ejector Isolation	2	AE	8	GA	PN	C	LT*, VP	None
2-CV-2	I-5	Containment Air Ejector Isolation	2	AE	8	GA	Man	C	LT*	None
TV-CV-250A	H-7	Containment Vacuum Pump Suction Isolation	2	A	2	GA	PN	0	LT*, EV VP, ST	34
TV-CV-250B	H-7									
TV-CV-250C	H-8									
TV-CV-250D	H-8									

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Reactor Coolant System

Drawing No. 11548-FM-86A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
HCV-2556A HCV-2556B HCV-2556C	A-2 A-7 L-2	Loop Fill Boundary	1	AE	2	PL	PN	C	LT,VP	30
SOV-RC-200A-1 SOV-RC-200A-2 SOV-RC-200B-1 SOV-RC-200B-2	G-7 G-7 G-7 G-7	Reactor Vessel Head Vent	2	B	1	GA	SOV	C	EV, ST	31

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Reactor Coolant System

Drawing No. 11548-FM-86B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SV-2551-A SV-2551-B SV-2551-C	F-4 G-4 H-4	Pressurizer Safety Valves	1	AC	6	SF	SA	C	SP, LT	1, 30
TV-2519A	A-6	Primary Grade Water to PZR Relief Tank	2	A	3	GA	PN	C	LT*, EV ST, VP	None
2-RC-20	B-7	Primary Grade Water to PZR Relief Tank	3	AC	3	CK	SA	C	LT*, CV	9
MOV-2535 MOV-2536	I-4 I-5	PORV Block Valve	1	A	3	BF	MOV	O	EV, ST VP, LT	30
PCV-2456 PCV-2455C	J-4 J-5	PORV Pressurizer	1	A	3	PL	PN	C	FS EV, ST VP, LT	30,34,35
SOV-RC-201A-1 SOV-RC-201A-2 SOV-RC-201B-1 SOV-RC-201B-2	J-7 J-7 J-7 J-7	Pressurizer Head Vent	2	A	1	GA	SOV	C	EV, ST	31

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Residual Heat Removal

Drawing No. 11548-FM-87A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-2700 MOV-2701	H-7 G-7	RHR Suction from Reactor Coolant System	1	A	14	GA	MO	C	ST, EV LT, VP	12, 30
MOV-2720A MOV-2720B	K-5 K-5	RHR Discharge to Reactor Coolant System	1	A	10	GA	MO	C	ST, EV LT, VP	13, 30
RV-2721	I-4	RHR System Relief Valve	2	C	3	RV	SA	C	SP	1
2-RH-5 2-RH-11	D-6 C-6	RHR Pump Discharge Check Valve	2	C	10	CK	SA	C	CV	11
MOV-RH-200	K-3	RHR to RWST	2	AE	6	GA	MO	C	LT*, VP	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Chemical and Volume Control

Drawing No. 11448-FM-88A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-CH-109	E-7	Boric Acid Transfer Pump								
1-CH-116	G-7	Discharge Valve	3	C	2	CK	SA	OC	CV	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Chemical and Volume Control

Drawing No. 11548-FM-88B

Valve Number	Drawing Location	Function	Code Class	Category	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-CH-258	D-6	Charging Pump Discharge Check Valve	2	C	3	CK	SA	OC	CV	14
2-CH-267	F-6									
2-CH-276	G-6									
LCV-2115B	C-9	Charging Pump Suction from Refueling Water Storage Tank	2	B	8	GA	MOV	C	EV, ST VP	None
LCV-2115D	C-9									
LCV-2115C	H-3	Charging Pump Suction from Volume Control Tanks	2	B	4	GA	MOV	O	EV, ST VP	15
LCV-2115E	H-3									
MOV-2275A	D-6	Charging Pump Recirculation Flow Path Isolation	2	B	2	GA	MOV	O	EV, ST VP	None
MOV-2275B	F-6									
MOV-2275C	H-6									
MOV-2373	F-5	Charging Pump Recirculation Header Stop Valve	2	B	3	GA	MOV	O	EV, ST VP	16
MOV-2381	A-3	Reactor Coolant Pump Seal Water Return	1	A	3	GA	MOV	O	EV, ST VP, LT*	17
TV-2204	A-3	Reactor Coolant System Let-down Isolation Trip Valve	2	A	2	GA	PN	O	LT*, EV ST, VP	18, 34
RV-2209	F-1	Reactor Coolant System Let-down Relief Valve	2	C	2	RV	SA	C	SP	1
RV-2257	H-1	Volume Control Tank Relief Valve	2	C	3	RV	SA	C	SP	1

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Chemical and Volume Control

Drawing No. 11548-FM-88B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-2289A	B-5	Normal Charging Header Isolation	2	A	3	GA	MOV	0	LT*, EV ST, VP	19
FCV-2160	A-3	RCS Loop Fill Header Isolation	2	AE	2	GA	PN	C	LT*, VP	None
RV-2382B	F-3	Seal Water Return Line to VCT	2	C	2	RV	SA	C	SP	1
MOV-2289B	B-5	Normal Charging Header Isolation	2	B	3	GA	MOV	0	EV, ST VP	19

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Chemical and Volume Control

Drawing No. 11548-FM-88C

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-2203	H-1	Letdown Header Relief	2	C	2	RV	SA	C	SP	1
HCV-2200A HCV-2200B HCV-2200C	H-2 H-2 H-2	Letdown Orifice Isolation	2	A	2	GA	PN	OC	LT*, EV ST, VP	34
RV-2382A	H-4	Seal Water Return to Pressurizer Relief Tank	2	C	2	RV	SA	C	SP	1
2-CH-309	J-3	Normal Charging Isolation Check Valve	2	AC	3	CK	SA	O	CV, LT*	9

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11548-FM-89A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-2860A, B	B-8, E-8	Low Head Safety Injection Pump Suction from Contain- ment Sump	2	A	12	GA	MO	C	LT*,EV ST, VP	None
2-SI-56, 47	C-8, F-8	Low Head Safety Injection Pump Suction from Contain- ment Sump Check	2	C	12	CK	SA	C	CV	20
MOV-2862A, B	G-9, G-8	Low Head Safety Injection Pump Suction from Refueling Water Storage Tank	2	B	12	GA	MO	O	EV,ST VP	None
2-SI-46A, B	G-9, G-8	Low Head Safety Injection Pump Suction from Refueling Water Storage Tank Check	2	C	12	CK	SA	C	CV	21
2-SI-327, 50	D-7, G-7	Low Head Safety Injection Pump Discharge Check	2	C	10	CK	SA	C	CV	21
MOV-2863A, B	E-6, G-6	Low Head Safety Injection Pump Discharge to High Head Safety Injection Pump Suction	2	B	8	GA	MO	C	EV,ST VP	None
MOV-2885A, B C, D	D-7, G-7 G-7, E-7	Low Head Safety Injection Pump Recirculation to Refueling Water Storage Tank	2	B	2	GA	MO	O	EV, ST VP	None
2-SI-61, 53	D-7, G-7	Low Head Safety Injection Pump Recirculation to Refueling Water Storage	2	C	2	CK	SA	C	CV	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11548-FM-89A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-2864A, B	D-6, G-5	Low Head Safety Injection Pump Discharge to Reactor Coolant System Cold Legs	2	B	10	GA	MO	O	EV, ST, VP	None
RV-2845A, B C,	C-6, D-5 C-5	Low Head Safety Injection Flow Path Relief	2	C	1	RV	SA	C	SP	1
MOV-2890 A, B	B-6, B-5	Low Head Safety Injection to Reactor Coolant System Hot Legs	2	AE	10	GA	MO	C	LT*,EV ST, VP	None
MOV-2890C	B-6	Low Head Safety Injection to Reactor Coolant System Cold Legs	2	AE	10	GA	MO	O	LT*,EV ST, VP	22
MOV-2869A, B 2842	A-3, I-3 A-1	High Head Safety Injection to Reactor Coolant System	2	AE	3	GA	MO	C	LT*, EV ST, VP	23
MOV-2867 C, D	B-1, B-2	Boron Injection Tank Outlet Isolation	2	A	3	GA	MO	C	LT*, EV ST, VP	24

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11548-FM-89A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-SI-200	B-4	Nitrogen Accumulators	2	A	1	GA	PN	O	LT*, EV ST, VP	34
2-SI-73	A-5	Accumulators Isolation	2	AE	3/4	GL	Man	C	LT*	None
2-SI-32	A-5	Accumulator Isolation	2	AE	1	GL	Man	C	LT*	None
2-SI-150	C-1	Boron Injection Tank	2	AE	3/4	GL	Man	O	LT*	None
2-SI-174	B-3	High Head Safety Injection to RC System	2	AE	3/4	GL	Man	C	LT*	None

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: R.W.S.T. Cross Tie

Drawing No. 11548-FM-89A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-SI-202A	F-4	Unit No. 1 RWST to Unit							ST, EV	
TV-SI-202B	F-4	No. 2 RWST Cross Tie	2	B	8	GA	PN	C	VP	None
2-SI-25	F-4	Charging Pump Suction from RWST Check Valve	2	C	8	CK	SA	C	CV	28
2-SI-400	H-4	Charging Pump Suction from RWST Check Valve	2	C	10	CK	SA	C	CV	28

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11548-FM-89B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-2858 A, B C	C-4, G-5 C-7	Accumulator Tank Relief	2	C	1	RV	SA	C	SP	1
2-SI-107, 109 128, 130 145, 147	C-5, A-5 G-7, A-7 C-8, A-9	Accumulator Discharge Check	1	AC	12	CK	SA	C	CV, LT	26, 30
MOV-2865 A, B C	C-5, G-6 C-8	Accumulator Discharge	2	B	12	GA	MO	O	EV, ST VP	None
2-SI-88, 91 94, 238 239, 240	A-2, A-2 A-3, B-2 B-2, A-3	Safety Injection to RCS Hot Legs	1	AC	6	CK	SA	C	CV, LT	27, 30
2-SI-235, 236 237	B-1, B-1 B-2	High Head Safety Injection to RCS Cold Legs	1	C	2	CK	SA	C	CV	27
2-SI-241, 242 243	B-1, B-1 B-2	Low Head Safety Injection to RCS Cold Legs	1	AC	6	CK	SA	C	CV, LT	27, 30
2-SI-224, 225	J-1, J-1	High Head Safety Injection Check Valves at Containment Penetrations	2	C	3	CK	SA	C	CV	27
2-SI-228, 229	J-3, J-3	Low Head Safety Injection Check Valves at Containment Penetrations	2	C	6	CK	SA	C	CV	27
2-SI-226, 227	J-2, J-3	High Head Safety Injection Check Valves at Containment Penetrations	1	C	3	CK	SA	C	CV	27

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11548-FM-89B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-SI-79, 82 85	A-1, A-1 A-2	Safety Injection to RCS Cold Legs	1	AC	6	CK	SA	C	CV, LT	27
TV-SI-201A, B	J-5, J-5	Accumulator Nitrogen Relief Line Isolation	2	A	1	GA	PN	O	LT*, EV ST, VP	34
2-SI-234	J-4	Nitrogen Accumulators	2	AC	1	CK	SA	C	CV, LT*	9
RV-2859	I-4	Accumulator Return to RWST Relief	2	C	3/4	RV	SA	C	SP	1

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Gaseous Waste Disposal

Drawing No. 11448-FM-90A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-GW-200 TV-GW-201	G-5 G-5	Suction Line to Hydrogen Analyzer - Unit 1	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	33,34
TV-GW-202 TV-GW-203	G-6 F-6	Discharge Line to Hydrogen Analyzer - Unit 1	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	33,34
TV-GW-204 TV-GW-205	G-3 G-2	Suction Line to Hydrogen Analyzer - Unit 2	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	33,34
TV-GW-206 TV-GW-207	G-4 F-4	Discharge Line to Hydrogen Analyzer - Unit 2	2	A	3/8	GA	SOV	C	EV, VP	LT*, ST 33,34
TV-GW-211A TV-GW-211B	H-2 G-2	Containment Grab Sample	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	34

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Reactor Cavity Purification

Drawing No. 11448-FM-118A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-RL-5, 2-RL-3	H-4, G-4	Reactor Cavity Purifica- tion Return Line	2	AE	3	DA	Man	C	LT*	None
2-RL-13, 2-RL-15	H-6, G-6	Reactor Cavity Purifica- tion Return Line	2	AE	3	DA	Man	C	LT*	None

Surry Power Station Unit No. 2
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Steam Generator Blowdown

Drawing No. 11548-FM-124A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Valve Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-BD-200 A, B	C-2, C-2	Steam Generator Blowdown Isolation	2	B	3	GA	PN	0	EV, ST VP	29,34
C, D	C-4, C-4									
E, F	C-5, C-5									

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Radiation Monitor - Containment Particulate

Drawing No. 11448-SPS-14A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-RM-03	D-8	Isolation on Monitor Return Line	2	AC	3/4	CK	SA	0	LT*, CV	9
TV-RM-200A	F-8	Isolation on Monitor Return Line	2	A	3/4	GA	PN	0	LT*, EV ST, VP	34
TV-RM-200B TV-RM-200C	F-4 E-4	Isolation on Monitor Return Line	2	A	3/4	GA	PN	0	LT*, EV ST, VP	34

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Fuel Oil Lines

Drawing No. 11448-FB-4B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SOV-EE-103	J-5	Diesel Fuel Oil Pump Discharge Valves	NC	B	1	GA	SOV	C	EV	36
SOV-EE-102	J-5									
SOV-EE-104	H-7									

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Containment Purge

Drawing No. 11548-FB-6A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-VS-200A MOV-VS-200B	B-5 B-5	Containment Purge Supply MOV's	2	AE	36	BF	MOV	C	LT*, VP	None
MOV-VS-202	B-5	Containment Vacuum Breaker	2	AE	18	BF	MOV	C	LT*, VP	None
MOV-VS-200C MOV-VS-200D	B-5 B-5	Containment Purge Exhaust MOV's	2	AE	36	BF	MOV	C	LT*, VP	None
MOV-VS-201	B-5	Containment Purge Exhaust Bypass	2	AE	8	BF	MOV	C	LT*	None

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Diesel Air Starting System

Drawing No. 11448-FB-46B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SOV-EG-200A	I-4	Diesel Air Start System								
SOV-EG-200B	K-4	Solenoid Valves	NC	B	1	GA	SOV	C	EV,VP	37

Surry Power Station Unit No. 2
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Containment Fire Protection

Drawing No. 11448-FB-47B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
2-FP-151	H-3	Containment Stand Pipe								
2-FP-152	G-3	Supply	3	AE	4	BA	Man	C	LT*	None

4.3.5 VALVE TEST PROGRAM RELIEF REQUEST

Relief request identify Code requirements which are impractical for Surry Unit 2 and provide justification for the requested exception. Where appropriate, alternate testing to be performed in lieu of Code requirements is proposed.

RELIEF REQUEST 1

Systems : Various

Valve(s): Valves affected by this request are identified by Table A

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Safety and relief valve setpoints are tested in accordance with PTC-25.3-1976 as directed by IWV-3512.

Basis For Request

These valves are adequately tested in Accordance with PTC-25.3-1976 Sections 4.091(a) (2) and 4.091(c) (1).

Alternate Testing Proposed

Main Steam safety valves will be tested in accordance with PTC-25.3-1976 Section 4.091 (a) (2). Other safety and relief valves will be tested in accordance with Section 4.091 (c) (1).

RELIEF REQUEST 1
TABLE A

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
SV-MS-201A, B, C	C	2	Main Steam Safety Valves
SV-MS-202A, B, C			
SV-MS-203A, B, C			
SV-MS-204A, B, C			
SV-MS-205A, B, C			
RV-MS-201A	C	2	Main Steam PORV
RV-MS-201B			
RV-MS-201C			
RV-CC-219A	C	3	Component Cooling from RHR
RV-CC-219B			Heat Exchanger Relief Valve
RV-CC-216A	C	3	Component Cooling Reactor
RV-CC-216B			Coolant Pump
RV-CC-216C			
RV-CC-224	C	3	Component Cooling Piping
			Relief Valve
RV-CC-218	C	3	Component Cooling from Excess
			Letdown Heat Exchanger Relief.
RV-2721	C	2	RHR System Relief Valve

RELIEF REQUEST 1
TABLE A (CONT'D)

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
SV-2551A SV-2551B SV-2551C	AC	1	Pressurizer Safety Valves
RV-2209	C	2	Reactor Coolant System Letdown Relief Valve
RV-2257	C	2	Volume Control Tank Relief Valve
RV-2203	C	2	Letdown Header Relief
RV-2845A, B, C	C	2	Low Head Safety Injection Flow Path Relief
RV-2858A, B, C	C	2	Accumulator Tank Relief Valve
RV-2382B	C	2	Seal Water Return Line to VCT
RV-2382A	C	2	Seal Water Return to Pressurizer Relief Tank
RV-2859	C	2	Accumulator Return to RWST Relief

RELIEF REQUEST 2

System : Main Steam

Valve(s): TV-MS-201A
TV-MS-201B
TV-MS-201C

Category: B

Class : 2

Function: Main Steam Line Trip Valves

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Full stroke or partial stroke exercise of these valves during power operation could result in a turbine and reactor trip.

Alternate Testing Proposed

Full stroke exercise during each cold shutdown or startup in accordance with Technical Specification.

RELIEF REQUEST 3

System : Main Steam

Valve(s): NRV-MS-201A NRV-MS-202A
 NRV-MS-201B NRV-MS-202B
 NRV-MS-201C NRV-MS-202C

Category: C

Class : 2

Function: Main Steam Non-Return Valves

Section XI Code Requirements
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Full stroke or partial stroke exercise of these valves during power operation could result in a turbine and reactor trip.

Alternate Testing Proposed

Full stroke exercise during each cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 4

System : Auxiliary Feedwater

Valve(s): Valves affected by this request are identified by Table B.

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Opening these valves during power operation would introduce cold auxiliary feedwater to the steam generators resulting in thermal stress and possible degradation.

Alternate Testing Proposed

Exercise these valves for operability every cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 4
TABLE B

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
2-FW-27	C	2	Auxiliary Feedwater
2-FW-58			Header Check Valves at
2-FW-89			Main Feedwater Header.
2-FW-131	C	2	Auxiliary Feedwater
2-FW-131			Header Check Valves
2-FW-133			at Containment
2-FW-136			Penetration.
2-FW-138			
2-FW-142	C	3	Auxiliary Feedwater Pump
2-FW-157			Discharge Check Valves.
2-FW-172			
2-FW-272	C	2	Check Valves at
2-FW-273			Containment penetration
			(Cross-Connect for Unit 2
			Aux. Feed. from Unit 1).
2-FW-305	C	2	Check Valves at Con-
2-FW-306			tainment Penetration
			(Cross-Connect for Unit 2
			Aux. Feed. from Unit 1).

RELIEF REQUEST 5

System : Feedwater

Valve(s):	2-FW-10	2-FW-41	2-FW-72
	2-FW-12	2-FW-43	2-FW-74

Category: C

Class : 2

Function: Main Feedwater check valves at Containment Penetrations.

Section XI Code Requirement
For Which Relief Is Requested

Exercise valve every three months.

Basis For Request

Closure of these valves during power operation would require securing feedwater which would result in reactor trip. Cold shutdown testing of valves using flow to verify closure is inconclusive due to the low ΔP across the valve disc.

Alternate Testing Proposed

These check valves will be tested by disassembling and inspecting them every refueling shutdown for full stroke (not more than 24 months).

RELIEF REQUEST 6

Relief Request Withdrawn

RELIEF REQUEST 7

System : Component Cooling

Valve(s): Valves affected by this request are identified by Table C.

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These check valves are located in the containment and may be normally open or closed depending on system lineup. A containment entry and manipulation of other system valves is necessary to test these valves. This is considered impractical during power operation.

Alternate Testing Proposed

Exercise these valves for operability every cold shutdown (but not more frequently than three months).

RELIEF REQUEST 7
TABLE C

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
2-CC-176 2-cc-177	C	3	Component Cooling to RHR Heat Exchangers Check valves
2-CC-242 2-CC-233 2-CC-224	C	3	Component Cooling to Reactor Containment Air Recirculation Coolers

RELIEF REQUEST 8

System : Component Cooling

Valve(s): Valves affected by this request are identified by Table D.

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

To perform operability test, the component cooling lines must be isolated and thereby stopping flow of cooling water to the Reactor Coolant Pump. Loss of cooling water to these pumps can be damaging, even for short periods.

Alternate Testing Proposed

Exercise these valves for operability every cold shutdown (but not more frequently than three months).

RELIEF REQUEST 8
TABLE D

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
2-CC-1 2-CC-58 2-CC-59	C	3	Component Cooling to Reactor Coolant Pumps
TV-CC-205A TV-CC-205B TV-CC-205C	B	3	Component Cooling from Reactor Coolant Pumps
TV-CC-207	B	3	Component Cooling from Reactor Coolant Pumps

RELIEF REQUEST 9

System : Various

Valve(s): Valves affected by this request are identified in Table E.

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These check valves cannot be aligned for a reverse flow test during power operation or cold shutdown. Due to the fact that removing system from operation is required and these systems are required even at cold shutdown, these valves will be tested every refueling shutdown. The only way to verify valve closure is leak rate testing which will be performed at refueling outages when the Appendix J leak rate testing is performed.

Alternate Testing Proposed

These valves will be subject to reverse flow during leakage test which are performed during each refueling.

RELIEF REQUEST 9
TABLE E

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
2-IA-864	AC	2	Instrument Air to Containment
2-IA-868	AC	2	Instrument Air to Containment
2-RM-3	AC	2	Isolation on Monitor Return line.
2-RC-20	AC	3	Primary Grade water to PZR Relief Tank
2-SI-234	AC	2	Nitrogen Accumulators N ₂ supply.
2-CH-309	AC	2	Normal Charging Isolation Check Valve

RELIEF REQUEST 10

System : Containment and Recirculation Spray

Valve(s): 2-RS-11 2-CS-13 2-CS-105
 2-RS-17 2-CS-14 2-CS-104

Category: AC (2-RS-11,17 and 2-CS-13,14) and C (2-CS-105, 104)

Class : 2

Function: Spray Pump Discharge Check Valves

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These valves are located inside the containment and not accessible during power operation. Using flow to exercise these valves would result in spraying the containment, therefore manual exercising of these valves will be done. Because scaffolding and dismantling of valves are required, they will be tested every refueling shutdown.

Alternate Testing Proposed

Full stroke manual testing will be performed each refueling shutdown.

RELIEF REQUEST 11

System : Residual Heat Removal

Valve(s): 2-RH-5
2-RH-11

Category: C

Class : 2

Function: RHR Pump Discharge Check Valve

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves for operability every three months.

Basis For Request

The valves can only be cycled when RHR pumps are started. These valves will be tested with RHR pumps.

Alternate Testing Proposed

Exercise these valves for operability every cold shutdown (but not more frequently than three months).

RELIEF REQUEST 12

System : Residual Heat Removal

Valve(s): MOV-2700
MOV-2701

Category: A

Class : 1

Function: RHR Suction from Reactor Coolant System

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

1. Valves are interlocked with Reactor Coolant System pressure such that valves cannot be opened at elevated Reactor Coolant System pressure.
2. Overpressurization of the suction line may cause a LOCA.
3. Interlocks cannot be bypassed with normal control circuits.

Alternate Testing Proposed

Exercise these valves for operability every cold shutdown (but not more frequently than three months).

RELIEF REQUEST 13

System : Residual Heat Removal

Valve(s): MOV-2720A
MOV-2720B

Category: A

Class : 1

Function: RHR Discharge to Reactor Coolant System

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

1. With the MOV shut and if its respective check valve is leaking, there is no way to determine whether or not an overpressure condition exists before opening the MOV.

If a MOV was opened and an overpressure condition did exist between the MOV and the RCS, the primary pressure of 2235 psig will be released on the Residual Heat Removal System with a relief valve of 700 psig. This would be an unnecessary challenge to the Residual Heat Removal System.

2. Since the MOV is also part of the discharge piping of an accumulator, there is a possibility of discharging an accumulator into the RHR system and disabling it. The accumulators are maintained at pressure above the normal operating or shutdown pressure of the Residual Heat Removal System. Opening of these valves would dump accumulator water into the Residual Heat Removal System. This will dilute the boron concentration of the accumulator as well as lower its level and pressure, which is a violation of Technical Specifications.

Alternate Testing Proposed

Exercise these valves for operability every cold shutdown (but not more frequently than three months).

RELIEF REQUEST 14

System : Chemical and Volume Control

Valve(s): 2-CH-258
2-CH-267
2-CH-276

Category: C

Class : 2

Function: Charging Pump Discharge Check Valve

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

With present plant design, these valves can only be partial stroke exercised during power operation and the charging pumps cannot achieve design accident flow when pumping into the Reactor Coolant System at operating pressure. The only available flow path to test these valves is into the Reactor Coolant System. During cold shutdown, stroke exercising these valves could result in an overpressurization of the Reactor Coolant System and could force a safety system to function.

Alternate Testing Proposed

These valves will be partially stroked every three months and full flow tested each refueling.

RELIEF REQUEST 15

System : Chemical and Volume Control

Valve(s): LCV-2115C
LCV-2115E

Category: B

Class : 2

Function: Charging Pump Suction from Volume Control Tanks

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Exercising these valves during power operation would require the charging pump suction to be aligned with the refueling water storage tank. This would cause a sudden increase in Reactor Coolant System boron inventory, which would cause a plant transient.

Alternate Testing Proposed

These valves will be exercised during each cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 16

System : Chemical and Volume Control

Valve(s): MOV-2373

Category: B

Class : 2

Function: Charging Pump Recirculation Header Stop Valve

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

MOV-2373 is not cycled quarterly because its failure in the closed position would challenge the operation of the Charging Pumps. The individual recirculation valves (MOV-2275 A,B,C) are cycled, but if one of them were to fail in the closed position, the other pumps can be used. Since the three recirculation lines go through MOV-2373, its failure in the closed position would jeopardize the operation of the three charging pumps.

Alternate Testing Proposed

This valve will be exercised each cold shutdown (but not more frequently than three months).

RELIEF REQUEST 17

System : Chemical and Volume Control

Valve(s): MOV-2381

Category: A

Class : 1

Function: Reactor Coolant Pump Seal Water Return

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Closure of this valve with reactor coolant pumps in operation will cause a loss of seal flow resulting in possible pump seal damage.

Alternate Testing Proposed

This valve will be exercised during each cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 18

System : Chemical and Volume Control

Valve(s): TV-2204

Category: A

Class : 2

Function: Reactor Coolant System Letdown Isolation Trip Valve

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Exercising this valve during power operation could result in a loss of reactor coolant inventory control and pressurizer level control.

Alternate Testing Proposed

This valve will be exercised every cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 19

System : Chemical and Volume Control

Valve(s): MOV-2289A
MOV-2289B

Category: A (MOV-2289A) and B (MOV-2289B)

Class : 2

Function: Normal Charging Header Isolation

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Failure of these valves in the closed position during exercising would cause a loss of charging flow and could result in an inability to maintain reactor coolant inventory.

Alternate Testing Proposed

This valve will be exercised every cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 20

System : Safety Injection

Valve(s): 2-SI-56
2-SI-47

Category: C

Class : 2

Function: Low Head Safety Injection Pump Suction from Containment Sump Check Valve

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

This normally closed check valve cannot be exercised without isolating suction to Low Head Safety Injection by installing flanges and draining portions of the system.

Alternate Testing Proposed

These valves will be partial stroked exercised during each refueling.

RELIEF REQUEST 21

System : Safety Injection

Valve(s): Valves affected by this request are identified in Table F.

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These valves cannot be full stroke exercised during plant power operation. The only full flow path is into the Reactor Coolant System and Low Head Safety Injection pumps cannot overcome Reactor Coolant System operating pressure. These valves will be partially stroked every three months through the pump recirculation line. During cold shutdown, the Reactor Coolant System pressure still prevents full flow testing of the check valve. During cold shutdown, the charging flow could cause an overpressurization condition.

Alternate Testing Proposed

These valves will be partially stroked every three months and full stroked every refueling.

RELIEF REQUEST 21
TABLE F

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
2-SI-46A 2-SI-46B	C	2	Low Head Safety Injection Pump Suction from Refueling Water Storage Tank Check
2-SI-327 2-SI-50	C	2	Low Head Safety Injection Pump Discharge Check

RELIEF REQUEST 22

System : Safety Injection

Valve(s): MOV-2890C

Category: A

Class : 2

Function: Low Head Safety Injection to Reactor Coolant System Cold Legs

Section XI Code Requirement
For Which Relief Is Requested

Exercise valve every three months.

Basis For Request

In accordance with Technical Specification 3.3.A.8, during power operation, the A.C. power shall be removed from MOV-2890C with the valve in the open position. If this valve was stroked during power operation and failed in the closed position, the Low Head Safety Injection System would be rendered inoperable.

Alternate Testing Proposed

This valve will be exercised during each cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 23

System : Safety Injection

Valve(s): MOV-2869A
MOV-2869B
MOV-2842

Category: A

Class : 2

Function: High Head Safety Injection to Reactor Coolant System

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These valves cannot be exercised during power operation. Opening these valves would allow charging flow into the Reactor Coolant System causing reactivity transients and possible thermal shock to the High Head Safety Injection system. During cold shutdown, the charging flow could cause an overpressurization of the Reactor Coolant System and could force a safety system to function.

Alternate Testing Proposed

These valves are full stroke exercised during refueling outages.

RELIEF REQUEST 24

System : Safety Injection

Valve(s): MOV-2867C
MOV-2967D

Category: A

Class : 2

Function: Boron Injection Tank Outlet Isolation

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These valves cannot be exercised during power operation. Opening these valves would allow excess charging flow into the Reactor Coolant System causing a reactivity transient.

Alternate Testing Proposed

These valves will be exercised during each cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 25

Relief Request Withdrawn

RELIEF REQUEST 26

System : Safety Injection

Valve(s):	2-SI-107	2-SI-109
	2-SI-128	2-SI-130
	2-SI-145	2-SI-147

Category: A and C

Class : 1

Function: Accumulator Discharge Check

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These check valves are partially stroked at refueling shutdown by varying Reactor Coolant System pressure and observing increases and decreases in accumulator level and pressures. Stroke verification by passing design flow is not practical due to the large volume of water that would be added to the Reactor Coolant System. Calculations have shown that a differential pressure of approximately 25 psi will shear any particles that may attempt to prevent the valve from functioning. Based on this calculation and partial stroke testing presently performed, full stroke testing will not be performed.

Alternate Testing Proposed

These valves will be partially stroked each refueling.

RELIEF REQUEST 27

System : Safety Injection

Valve(s): Valves affected by this request are identified in Table G.

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These valves cannot be exercised during power operation because flow through these valves would thermal shock the injection system and cause unnecessary plant transients. During cold shutdown, the Reactor Coolant System pressure still prevents full design flow. Also, an overpressurization of the Reactor Coolant System could occur and force a safety system to function.

Alternate Testing Proposed

These valves are full stroke exercised during refueling outages when the vessel head is removed.

RELIEF REQUEST 27
TABLE G

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
2-SI-88, 91 2-SI-94, 238 2-SI-239, 240	AC	1	Safety Injection to RCS Hot Legs
2-SI-235 2-SI-236 2-SI-237	AC	1	High Head Safety Injection to RCS Cold Legs
2-SI-241 2-SI-242 2-SI-243	AC	1	Low Head Safety Injection to RCS Cold Legs
2-SI-224, 225 2-SI-226, 227	C C	2 1	High Head Safety Injection Check Valve at Containment Penetrations
2-SI-228, 229	C	2	Low Head Safety Injection Check Valves at Containment Penetrations
2-SI-79, 82, 85	A	1	Safety Injection to RCS Cold Legs

RELIEF REQUEST 28

System : R.W.S.T. Cross Tie

Valve(s): 2-SI-25
2-SI-400

Category: C

Class : 2

Function: Charging Pump Suction From R.W.S.T. Cross Tie

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Exercising these valves during power operation would require the charging pump suctions to be aligned with the refueling water storage tank. This would cause a sudden increase in reactor coolant boron inventory.

Alternate Testing Proposed

Exercise the valves for operability every cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 29

System : Steam Generator Blowdown

Valve(s): TV-BD-200A TV-BD-200D
 TV-BD-200B TV-BD-200E
 TV-BD-200C TV-BD-200F

Category: B

Class : 2

Function: Steam Generator Blowdown Isolation.

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Closing these valves during power operation causes the downstream piping to become empty due to drainage and water flashing to steam. When the valves reopen, a flow surge occurs which automatically isolates the inner valves due to high flow. Then a containment entry is necessary to reset these valves and upon reopening, the process may occur again.

Alternate Testing Proposed

Exercise the valves for operability every cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 30

Systems : Various

Valve(s): Valves affected by this request are identified by Table H.

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Valves shall be leak tested in accordance with IWV-3426 and IWV-3427.

Basis For Request

These valves are adequately leak tested in accordance with Technical Specification Sections 3.1.C and 4.3 and ASME Section XI, Subsection IWB-5000.

Alternate Testing Proposed

The valves in Table H will be leak tested in accordance with Technical Specification Sections 3.1.C and 4.3 and ASME Section XI, Subsection IWB-5000.

RELIEF REQUEST 30
TABLE H

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
HCV-2556A HCV-2556B HCV-2556C	A	1	Loop Fill Boundary
SV-2551A SV-2551B SV-2551C	AC	1	Pressurizer Safety Valves
MOV-2535 MOV-2536	A	1	PORV Block Valves
PCV-2456 PCV-2455C	A	1	PORV
2-SI-107, 109 2-SI-128, 130 2-SI-145, 147	AC	1	Accumulator Discharge Check Valve
2-SI-88, 91 2-SI-94, 238 2-SI-239, 240	AC	1	Safety Injection to RCS Hot Legs
MOV-2700 MOV-2701	A	1	RHR Suction from Reactor Coolant System
MOV-2720A MOV-2720B	A	1	RHR Discharge to Reactor Coolant System
2-SI-241 2-SI-242 2-SI-243	AC	1	Low Head Safety Injection to RCS Cold Legs

RELIEF REQUEST 31

System : Reactor Coolant

Valve(s):	SOV-RC-200A-1	SOV-RC-201A-1
	SOV-RC-200A-2	SOV-RC-201A-2
	SOV-RC-200B-1	SOV-RC-201B-1
	SOV-RC-200B-2	SOV-RC-201B-2

Category: B

Class : 2

Function: Head Vent for Reactor Vessel and Pressurizer

Section XI Code Requirements
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Due to head vent locations on Reactor Coolant System, valve cycling during power operation could put plant in unsafe condition. Also at cold shutdown and at power operation, cycling these valves could cause an airborne contamination problem because they discharge to containment atmosphere.

Alternate Testing Proposed

These valves will be tested each refueling by exercising and verifying flow.

RELIEF REQUEST 32

System : Main Steam

Valve(s): HCV-MS-204

Category: B

Class : 2

Function: Decay Heat Release Control Valve

Section XI Code Requirements
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

Opening of this valve during power would result in added steam load to the reactor. The opening and closing of this valve at power could result in an overpower condition and possible reactor trip as reactor power increases to meet the new steam load.

Alternate Testing Proposed

Exercise these valves for operability every cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 33

System : Gaseous Waste

Valve(s):	TV-GW-200	TV-GW-204
	TV-GW-201	TV-GW-205
	TV-GW-202	TV-GW-206
	TV-GW-203	TV-GW-207

Category: A

Class : 2

Function: Suction line/discharge line to hydrogen analyzer.

Section XI Code Requirement
For Which Relief Is Requested

Valve position indicator verification at least once every 2 years.

Basis For Request

These valves are 3/8" solenoid valves whose valve movement cannot be locally observed.

Alternate Testing Method

Alternatively these valves will be subjected to a leak rate test every refueling (not to exceed 24 months). During this leak rate test, the local valve position and remote valve position indication are verified the same.

RELIEF REQUEST 34

System : Various

Valve(s): Valves affected by this request are identified in Table J.

Category:

Class :

Function:

Section XI Code Requirement
For Which Relief Is Requested

Section XI, IWV-3417(a) "Corrective Action"

Basis For Request

These valves have a normal stroke time of 2 seconds or less, they are rapid acting valves.

Alternate Test Proposed

Whenever the stroke of these valves exceed 2 seconds, IWV-3417(a) will be applied.

RELIEF REQUEST 34
TABLE J

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
TV-MS-210	B	2	Main Steam Drain to Blowdown
TV-CC-205 A,B,C	B	3	Component Cooling from RCP
TV-CC-207	B	3	Component Cooling from RCP
TV-CC-209 A,B	B	3	Component Cooling from RHR Heat Exchanger
TV-IA-201 A,B	A	2	Instrument Air Suction from Containment
TV-IA-200	A	2	Instrument Air Discharge to Containment
TV-SS-203 A,B	A	2	Residual Heat Removal System Sample
TV-SS-200 A,B	A	1	Pressurizer Liquid Space Sample
TV-SS-201 A,B	A	1	Pressurizer Vapor Space Sample
TV-SS-206 A,B	A	1	Primary Coolant Hot Leg Sample
TV-SS-202 A,B	A	1	Primary Coolant Cold Leg Sample
TV-SS-204 A,B	A	2	Pressurizer Relief Tank Gas Space Sample
TV-DA-200 A,B	A	2	Reactor Containment Sump Pump Discharge Isolation
TV-DA-203 A,B	A	2	Post Accident Sample Return Line
TV-DG-208 A,B	A	2	Primary Drain Transfer Pump Discharge Isolation
TV-VG-209 A,B	A	2	Gas Vent Header Isolation
TV-LM-200 A-H	A	2	Leakage Monitoring System Isolation
TV-CV-250 A-D	A	2	Containment Vacuum Pump Suction Isolation
PCV-2456	A	1	Pressurizer Power Operated Relief Valve
PCV-2455C	A	1	Pressurizer Power Operated Relief Valve
TV-2204	A	2	RCS Letdown Isolation Trip Valve
HCV-2200 A,B,C	A	2	Letdown Orifice Isolation
TV-SI-200	A	2	Nitrogen Accumulators
TV-SI-201 A,B	A	2	Accumulator Nitrogen Relief Line Isolation
TV-GW-200-207	A	2	Suction/Discharge Line to Hydrogen Analyzer
TV-GW-211 A,B	A	2	Containment Grab Sample
TV-BD-200 A-F	B	2	Steam Generator Blowdown Isolation
TV-RM-200 A,B,C	A	2	Isolation on Monitor Return Line

RELIEF REQUEST 35

System : RC

Valve(s): PCV-2456
PCV-2455C

Category: A

Class : 1

Function: Pressurizer Power Operated Relief Valves.

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves every three months.

Basis For Request

These pressurizer power operated relief valves have shown a high probability of sticking open and are not needed for overpressure protection at normal operation conditions. Routine exercising during normal power operation is not practical since valves are not required for overpressure protection unless the primary system is under 500 psig.

Alternate Testing Proposed

Exercise these valves for operability every cold shutdown (but not more frequently than three months).

RELIEF REQUEST 36

System : EE

Valves : SOV-EE-102
SOV-EE-104
SOV-EE-103

Category: B

Class : NC

Function: Diesel Fuel Oil pump discharge valves.

Section XI Requirement
For Which Relief Is Requested

Exercise valves for operability every three months.

Basis For Request

These valves have actuation times considerably under a second and there is no visual reference on the solenoid valve to indicate when it has stroked.

Alternate Testing Proposed

These solenoid valves will be stroke tested monthly by observing that the solenoid valves perform their intended function (fuel oil is flowing to the day tank after the solenoid valve has been opened).

RELIEF REQUEST 37

System : EG

Valve(s): SOV-EG-200A
SOV-EG-200B

Category: B

Class : NC

Function: Diesel Air Start System Solenoid Valves.

Section XI Code Requirement
For Which Relief Is Requested

Exercise valves for operability every three months.

Basis For Request

These valves have actuation times considerably under a second and there is no visual reference on the solenoid valve to indicate when it has stroked.

Alternate Testing Proposed

These solenoid valves will be stroke tested monthly by observing that the solenoid valves perform their intended function (signal the diesel to start and if it does, the solenoid valve was stroked successfully).

4.4 REPORTING OF INSERVICE TEST RESULTS

4.4.1 PUMP INSERVICE PROGRAM

Records of Pump Inservice Test Results will be in accordance with the intent of Article IWP-6000. Files will be established for each pump and will include:

1. Pump identification by equipment number, manufacturer and serial number.
2. The record of test shall include:
 - a. date of test
 - b. measured and observed quantities
 - c. identification of instruments used,
 - d. comparison with allowable ranges of test values and analysis of deviations
 - e. requirements for corrective actions
 - f. conducting and analyzing the test
3. Inservice test plans. This may be by surveillance test procedure by which the pump is tested with reference drawing.
4. Summaries of corrective action by maintenance report number, etc.

The Pump Inservice Test Program, associated surveillance test procedures and results will be kept at Surry Power Station. They will be available for audit by the Authorized Nuclear Inservice Inspector and the NRC.

4.4.2 VALVE INSERVICE PROGRAM

Records of Valve Inservice Test Results will be in accordance with the intent of Article IWV-6000, files will be established for each valve and will include:

1. Valve identification by equipment number, manufacturer, size, valve type, actuator type.
2. The record of test shall include:
 - a. date of test
 - b. measured and observed quantities where applicable
 - c. identification of instruments used where applicable
 - d. comparisons with allowable ranges of test values and analysis of deviations.
 - e. maintenance history
 - f. signature of the person or persons responsible for conducting and analyzing the test.
3. Summaries of maintenance histories may be maintenance report numbers, etc.

The Valve Inservice Test Program, associated surveillance test procedures and results will be kept at Surry Power Station. They will be available for audit by the Authorized Nuclear Inservice Inspector and the NRC.

4.5 QUALITY ASSURANCE PROGRAM

The Pump and Valve Inservice Test Program activities will be conducted in accordance with the Nuclear Operation Department Standard Manual and Technical Specifications for Surry Power Station.

Descriptions of changes between Revision 0 and Revision 1 for Surry Unit 2 System Pressure Tests Program are provided below. The page numbers refer to Revision 1.

<u>Page</u>	<u>Description of Change</u>
5-2	The Section has been renumbered and Section 5.4 renamed.
5-3	An introduction was added.
5-4	Surry Unit 2 is currently in the second inspection interval. The verb tense has been changed accordingly.
5-5	Relief Request 21 has been added to Item B4.10.
5-7	Relief Request 4 has been withdrawn from Items B15.51 and B15.71.
5-8	Relief Request 16 has been withdrawn from Items C7.21 and C7.41. Relief Requests 20 and 22 have been added to Items C7.21 and C7.41.
5-10	Relief Request 14 has been withdrawn from Item D2.10.
5-12	Class I, II and III has been replaced by Class 1, 2 and 3. This change occurs throughout the document. The phrase, "but depressurizes at 1000 psig on the primary", has been deleted. For Note 4, the following drawings were added or deleted:

<u>Added</u>	<u>Deleted</u>
11448-FM-68B	11548-FM-72B
11448-FM-72E	11448-FM-72C
11548-FM-84B	11448-FM-72F
11448-FM-90C	11448-FM-90A
11448-FB-47B	11548-FM-106C

For Note 4, the following drawings had the unit suffix (i.e. 11448 for Unit 1, 11548 for Unit 2) changed:

<u>Revision 0</u>	<u>Revision 1</u>
11548-FM-75C	11448-FM-75C
11448-FM-123A	11548-FM-123A
11448-FM-124A	11548-FM-124A
11448-FB-6A	11548-FB-6A

<u>Page</u>	<u>Description of Change</u>										
5-13	Note 5 was rearranged to enhance clarity.										
5-14	Column title VALVE added to Note 7. For Note 8, the following drawings were added or deleted:										
	<table> <tr> <th><u>Added</u></th><th><u>Deleted</u></th></tr> <tr> <td>11448-FM-130A</td><td>11548-FM-84A</td></tr> <tr> <td></td><td>11548-FM-89A</td></tr> </table>	<u>Added</u>	<u>Deleted</u>	11448-FM-130A	11548-FM-84A		11548-FM-89A				
<u>Added</u>	<u>Deleted</u>										
11448-FM-130A	11548-FM-84A										
	11548-FM-89A										
5-15	Section 5.4 was rewritten.										
5-16	The format of the pressure testing Relief Requests was changed to a format similar to the valve Relief Requests. Piping between check valves 1-CH-312 and HCV-2310A, 2-CH-310 was moved to Relief Request 5. Technical detail was added to the Alternate Testing Method.										
5-19	Relief Request 4 was withdrawn.										
5-20	Piping between check valves 1-CH-312 and HCV-2310A, 2-CH-310 was added to Relief Request 5. Alternate testing is proposed.										
5-23	The following changes were made to the column entitled, "Connected Piping":										
	<table> <tr> <th><u>Revision 0</u></th><th><u>Revision 1</u></th></tr> <tr> <td>30"-SHP-101-601 to 2"-GN-123-601</td><td>30"-SHP-101-601 to 6"-SHP-145-601 to 2"-GN-33-601</td></tr> <tr> <td>30"-SHP-122-601 to 30"-SHP-122-601 to 3"-SDHV-101-601 to 4"-SDHB-104-601</td><td>30"-SHP-101-601 to 30"-SHP-122-601 to 3"-SDHV-101-601 to 4"-SDHV-104-601</td></tr> <tr> <td>30"-SHP-101-601</td><td>30"-SHP-101-601 to 4"-SHP-125-601</td></tr> <tr> <td>14"-WFPD-117-601</td><td>14"-WFPD-117-601 to 3/4"-CFPD-103-601</td></tr> </table>	<u>Revision 0</u>	<u>Revision 1</u>	30"-SHP-101-601 to 2"-GN-123-601	30"-SHP-101-601 to 6"-SHP-145-601 to 2"-GN-33-601	30"-SHP-122-601 to 30"-SHP-122-601 to 3"-SDHV-101-601 to 4"-SDHB-104-601	30"-SHP-101-601 to 30"-SHP-122-601 to 3"-SDHV-101-601 to 4"-SDHV-104-601	30"-SHP-101-601	30"-SHP-101-601 to 4"-SHP-125-601	14"-WFPD-117-601	14"-WFPD-117-601 to 3/4"-CFPD-103-601
<u>Revision 0</u>	<u>Revision 1</u>										
30"-SHP-101-601 to 2"-GN-123-601	30"-SHP-101-601 to 6"-SHP-145-601 to 2"-GN-33-601										
30"-SHP-122-601 to 30"-SHP-122-601 to 3"-SDHV-101-601 to 4"-SDHB-104-601	30"-SHP-101-601 to 30"-SHP-122-601 to 3"-SDHV-101-601 to 4"-SDHV-104-601										
30"-SHP-101-601	30"-SHP-101-601 to 4"-SHP-125-601										
14"-WFPD-117-601	14"-WFPD-117-601 to 3/4"-CFPD-103-601										

Page

Description of Change

5-23

The following additions were made to the column entitled, "Connected Piping":

2 1/2"-WGCB-601
1"-WGCB-601
3"-RT-200-601

30"-SHP-101-601
to 1 1/2"-SHPD-106-601

The following changes were made to the column entitled, "Component":

Revision 0

Revision 1

NRV-MS-201A
2-MS-80,81,266,74

NRV-MS-201A
2-MS-83,81,266

2-FW-27
2-FW-10
2-WT-10

2-FW-27
2-FW-10
2-WT-176

The following addition was made to the column entitled, "Component":

2-MS-74

5-24

The following changes were made to the column entitled, "Connected Piping":

Revision 0

Revision 1

30"-SHP-102-601
to 2"-GN-124-601

30"-SHP-102-601
to 6"-SHP-146-601
to 2"-GN-34-601

30"-SHP-102-601

30"-SHP-102-601
to 4"-SHP-126-601

14"-WFPD-113-601

14"-WFPD-113-601
to 3/4"-CFPD-102-601

The following additions were made to the column entitled, "Connected Piping":

2 1/2"-WGCB-601
1"-WGCB-601
3"-RT-210-601

30"-SHP-102-601
to 1 1/2"-SHPD-108-601

Page

Description of Change

5-24

The following changes were made to the column entitled, "Component":

Revision 0

Revision 1

NRV-MS-201B
2-MS-112,268,113,106

NRV-MS-201B
2-MS-115,268,113

2-FW-41,58
2-WT-177

2-FW-41,58
2-WT-179

The following addition was made to the column entitled, "Component":

2-MS-106

5-25

The following changes were made to the column entitled, "Connected Piping":

Revision 0

Revision 1

30"-SHP-103-601
to 2"-GN-125-601

30"-SHP-103-601
to 6"-SHP-147-601
to 2"-GN-35-601

30"-SHP-103-601

30"-SHP-103-601
to 4"-SHP-127-601

14"-WFPD-109-601

14"-WFPD-109-601
to 3/4"-CFPD-101-601

The following additions were made to the column entitled, "Connected Piping":

2 1/2"-WGCB-601
1"-WGCB-601
3"-RT-220-601

30"-SHP-103-601
to 1 1/2"-SHPD-107-601

The following changes were made to column entitled, "Component":

Revision 0

Revision 1

NRV-MS-201C
2-MS-152,149,208
143

NRV-MS-201C
2-MS-152,151,208

2-FW-72
2-FW-89
2-WT-182

2-FW-72
2-FW-89
2-WT-180

<u>Page</u>	<u>Description of Change</u>								
5-25	The following addition was made to the column entitled, "Component": 2-MS-143								
5-29	Editorial Change								
5-30	The following addition was made to the column entitled, "Connected Piping": 3/4"-SI-222-152 The following changes were made to the column entitled, "Component": <table> <tr> <th><u>Revision 0</u></th><th><u>Revision 1</u></th></tr> <tr> <td>2-SI-229</td><td>2-SI-238</td></tr> <tr> <td>2"-SI-281-1502</td><td>2-SI-239</td></tr> <tr> <td>6"-SI-249-1502</td><td>2-SI-240</td></tr> </table>	<u>Revision 0</u>	<u>Revision 1</u>	2-SI-229	2-SI-238	2"-SI-281-1502	2-SI-239	6"-SI-249-1502	2-SI-240
<u>Revision 0</u>	<u>Revision 1</u>								
2-SI-229	2-SI-238								
2"-SI-281-1502	2-SI-239								
6"-SI-249-1502	2-SI-240								
5-31	Schedule For Implementation was changed from "Once each period" to "End of interval, within the last period".								
5-32	The Component Section was rearranged to enhance clarity. Basis For Relief was rewritten to enhance clarity. Reference to Note 3 was deleted in the Alternate Testing Method.								
5-33	Technical detail was added to the Basis For Relief.								
5-34	Relief Request 14 was withdrawn.								
5-36	Relief Request 16 was withdrawn.								
5-39	Drawing 11448-FM-71D was added to the Component Section. The Basis For Relief was rewritten to enhance clarity.								
5-40	Relief Request 20 was added.								
5-41	Relief Request 21 was added.								
5-42	Relief Request 22 was added.								

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
UNIT 2

SYSTEM PRESSURE TESTS

PROGRAM PLAN

SECTION 5
TABLE OF CONTENTS

5.0 SYSTEM PRESSURE TESTS PROGRAM PLAN

5.1 INTRODUCTION

5.2 PROGRAM DESCRIPTION

5.3 SYSTEM PRESSURE TESTS

5.3.1 Class 1 Components

5.3.2 Class 2 Components

5.3.3 Class 3 Components

5.3.4 Notes

5.4 SYSTEM PRESSURE TEST PROGRAM RELIEF REQUESTS

5.0 SYSTEM PRESSURE TESTS PROGRAM PLAN

5.1 INTRODUCTION

This System Pressure Test Program is applicable to the Surry Power Station Unit 2. This program covers the system pressure test requirements for ASME Class 1, 2, and 3 Components. The development, implementation and administration of the program for each class are detailed in subsequent sections.

5.2 PROGRAM DESCRIPTION

- 5.2.1 The Surry Unit 2 System Pressure Test Program is in accordance with the ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition, Winter of 1980 Addendum inclusive. The principles and guidelines established by this Code shall be adopted while conducting system pressure tests, except in cases where relief has been requested and provided within this document. Relief requests will identify the specific deviation from Code requirements and provide an alternative testing arrangement.

Surry Unit 2 is currently in the second inspection interval of Inspection Program B, IWA-2420. This interval started May 1, 1983, and coincides with the planned implementation of the proposed inspection program contained within this document. This proposed program will be effective at Surry Unit 2 for the second inspection interval or as modified by future ASME Code changes which are adopted at this station.

5.3 SYSTEM PRESSURE TESTS

5.3.1 CLASS 1 COMPONENTS (10 YEAR SCHEDULE)

A. EXAMINATION CATEGORY B-E, PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS.

ITEM NO.	PARTS TO BE EXAMINED	EXAM. METHOD	EXAM. REQMT.	ACCEPTANCE CRITERIA	SCHEDULE	NOTES	RELIEF REQUEST
B4.10	PARTIAL PENETRATION WELDS	VT-2	EXTERNAL SURFACE	IWA-5250	CONDUCTED DURING SYSTEM HYDROSTATIC TEST	2,5	21
B4.11	VESSEL NOZZLES	VT-2	EXTERNAL SURFACE	IWA-5250	CONDUCTED DURING SYSTEM HYDROSTATIC TEST	2,5	
B4.12	CONTROL ROD DRIVE NOZZLES	VT-2	EXTERNAL SURFACE	IWA-5250	CONDUCTED DURING SYSTEM HYDROSTATIC TEST	2,5	
B4.13	INSTRUMENTATION NOZZLES	VT-2	EXTERNAL SURFACE	IWA-5250	CONDUCTED DURING SYSTEM HYDROSTATIC TEST	2,5	
B4.20	PRESSURIZER HEATER PENETRATION WELDS	VT-2	EXTERNAL SURFACE	IWA-5250	CONDUCTED DURING SYSTEM HYDROSTATIC TEST	2,5	

B. EXAMINATION CATEGORY B-P, PRESSURE RETAINING COMPONENTS

ITEM NO.	PARTS EXAM.	TEST REQMT.	EXAM. METHOD	ACCEPT. STANDARD	SCHEDULE	NOTES	RELIEF REQUEST
B15.10	REACTOR VESSEL PRESSURE RETAINING BOUNDARY	SYSTEM LEAKAGE TEST, IWB-5221	VISUAL, VT-2	IWA-5250	EACH REFUELING OUTAGE	1,5,9	
B15.11	REACTOR VESSEL PRESSURE RETAINING BOUNDARY	SYSTEM HYDRO-STATIC TEST, IWB-5222	VISUAL, VT-2	IWA-5250	ONE TEST	1,2,5,9	
B15.20	PRESSUR-IZER PRESSURE RETAINING BOUNDARY	SYSTEM LEAKAGE TEST, IWB-5221	VISUAL, VT-2	IWA-5250	EACH REFUELING OUTAGE	1,5,9	
B15.21	PRESSUR-IZER PRESSURE RETAINING BOUNDARY	SYSTEM HYDRO-STATIC TEST, IWB-5222	VISUAL, VT-2	IWA-5250	ONE TEST	1,2,5,9	
B15.30	STEAM GENERATORS PRESSURE RETAINING BOUNDARY	SYSTEM LEAKAGE TEST, IWB-5221	VISUAL, VT-2	IWA-5250	EACH REFUELING OUTAGE	1,5,9	17
B15.31	STEAM GENERATORS PRESSURE RETAINING BOUNDARY	SYSTEM HYDRO-STATIC TEST, IWB-5222	VISUAL, VT-2	IWA-5250	ONE TEST	1,2,5,9	17
B15.40	HEAT EXCHANGES PRESSURE RETAINING BOUNDARY	SYSTEM LEAKAGE TEST, IWB-5221	VISUAL, VT-2	IWA-5250	EACH REFUELING OUTAGE	1,5,6,9	

B. EXAMINATION CATEGORY B-P, PRESSURE RETAINING COMPONENTS

ITEM NO.	PARTS EXAM.	TEST REQRMT.	EXAM. METHOD	ACCEPT. STANDARD	SCHEDULE	NOTES	RELIEF REQUEST
B15.41	HEAT EXCHANGERS PRESSURE RETAINING BOUNDARY	SYSTEM HYDRO-STATIC TEST, IWB-5222	VISUAL, VT-2	IWA-5250	ONE TEST	1,2,5,6,9	
B15.50	PIPING PRESSURE RETAINING BOUNDARY	SYSTEM LEAKAGE TEST, IWB-5221	VISUAL, VT-2	IWA-5250	EACH REFUELING OUTAGE	1,3,5,9	7
B15.51	PIPING PRESSURE RETAINING BOUNDARY	SYSTEM HYDRO-STATIC TEST, IWB-5222	VISUAL, VT-2	IWA-5250	ONE TEST	1,2,5,9	1,3,5,6
B15.60	PUMPS PRESSURE RETAINING BOUNDARY	SYSTEM LEAKAGE TEST, IWB-5221	VISUAL, VT-2	IWA-5250	EACH REFUELING OUTAGE	1,5,9	
B15.61	PUMPS PRESSURE RETAINING BOUNDARY	SYSTEM HYDRO-STATIC TEST, IWB-5222	VISUAL, VT-2	IWA-5250	ONE TEST	1,2,5,9	3
B15.70	VALVES PRESSURE RETAINING BOUNDARY	SYSTEM LEAKAGE TEST, IWB-5221	VISUAL, VT-2	IWA-5250	EACH REFUELING OUTAGE	1,3,5,9	7
B15.71	VALVES PRESSURE RETAINING BOUNDARY	SYSTEM HYDRO-STATIC TEST, IWB-5222	VISUAL, VT-2	IWA-5250	ONE TEST	1,2,5,9	1,5,6

5.3.2 CLASS 2 COMPONENTS (10 YEAR SCHEDULE)

A. EXAMINATION CATEGORY C-H. PRESSURE RETAINING COMPONENTS

ITEM NO.	PARTS EXAMINED	TEST REQRMT.	EXAM. METHOD	ACCEPT. STANDARD	SCHEDULE	NOTES	RELIEF REQUEST
C7.10	PRESSURE VESSELS PRESSURE RETAINING COMPONENTS	SYSTEM FUNCTIONAL TEST, IWC-5221	VISUAL, VT-2	IWA-5250	ONCE PER INSPECTION PERIOD	4,5,6,9	
C7.11	PRESSURE VESSELS PRESSURE RETAINING COMPONENTS	SYSTEM HYDRO-STATIC TEST, IWC-5222	VISUAL, VT-2	IWA-5250	ONE TEST	2,4,5, 6,9	8
C7.20	PIPING PRESSURE RETAINING COMPONENTS	SYSTEM FUNCTIONAL TEST, IWC-5221	VISUAL, VT-2	IWA-5250	ONCE PER INSPECTION PERIOD	4,5,9	11
C7.21	PIPING PRESSURE RETAINING COMPONENTS	SYSTEM HYDROSTATIC TEST, IWC-5222	VISUAL, VT-2	IWA-5250	ONE TEST	2,4,5, 7,9	8,9,10,11, 12,13,20,22
C7.30	PUMPS PRESSURE RETAINING COMPONENTS	SYSTEM FUNCTIONAL TEST, IWC-5221	VISUAL, VT-2	IWA-5250	ONCE PER INSPECTION PERIOD	4,5,9	
C7.31	PUMPS PRESSURE RETAINING COMPONENTS	SYSTEM HYDROSTATIC TEST, IWC-5222	VISUAL, VT-2	IWA-5250	ONE TEST	2,4,5,9	
C7.40	VALVES PRESSURE RETAINING COMPONENTS	SYSTEM FUNCTIONAL TEST, IWC-5221	VISUAL, VT-2	IWA-5250	ONCE PER INSPECTION PERIOD	4,5,9	
C7.41	VALVES PRESSURE RETAINING COMPONENTS	SYSTEM HYDRO-STATIC TEST, IWC-5222	VISUAL, VT-2	IWA-5250	ONE TEST	2,4,5, 7,9	8,9,10,11, 12,13,20,22

5.3.3 CLASS 3 COMPONENTS (10 YEAR SCHEDULE)

A. EXAMINATION CATEGORY D-A, SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION.

ITEM NO.	PARTS EXAMINED	TEST REQMT.	EXAM. METHOD	ACCEPT. STANDARD	SCHEDULE	NOTES	RELIEF REQUEST
D1.10	PRESSURE RETAINING COMPONENTS	SYSTEM INSERVICE TEST, IWD-5221	VISUAL, VT-2	NO LEAKAGE	ONCE PER INSPECTION PERIOD	5,6,8,9	
D1.10	PRESSURE RETAINING COMPONENTS	SYSTEM HYDRO- STATIC TEST, IWD-5223	VISUAL, VT-2	NO LEAKAGE	ONE	2,5,6, 8,9	18, 19

B. EXAMINATION CATEGORY D-B, SYSTEMS IN SUPPORT OF EMERGENCY CORE COOLING, CONTAINMENT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RESIDUAL HEAT REMOVAL.

ITEM NO.	PARTS EXAMINED	TEST REQMT.	EXAM. METHOD	ACCEPT. STANDARD	SCHEDULE	NOTES	RELIEF REQUEST
D2.10	PRESSURE RETAINING COMPONENTS	SYSTEM INSERVICE TEST, IWD-5221	VISUAL, VT-2	NO LEAKAGE	ONCE PER INSPECTION PERIOD	5,6,8 9	
D2.10	PRESSURE RETAINING COMPONENTS	SYSTEM HYDRO- STATIC TEST, IWD-5223	VISUAL, VT-2	NO LEAKAGE	ONE TEST	2,5,6 8,9	15,18 19

C. EXAMINATION CATEGORY D-C, SYSTEMS IN SUPPORT OF RESIDUAL HEAT
REMOVAL FROM SPENT FUEL STORAGE POOL

ITEM NO.	PARTS EXAMINED	TEST REQMT.	EXAM. METHOD	ACCEPT. STANDARD	SCHEDULE	NOTES	RELIEF REQUEST
D3.10	PRESSURE RETAINING COMPONENTS	SYSTEM INSERVICE TEST, IWD-5221	VISUAL, VT-2	IWA-5250	ONCE PER INSPECTION PERIOD	5,6 8,9	
D3.10	PRESSURE RETAINING COMPONENTS	SYSTEM HYDRO- STATIC TEST, IWD-5223	VISUAL, VT-2	IWA-5250	ONE TEST	2,5,6 8,9	18

5.3.4 NOTES

Note 1 Class 1 Systems are drawn on the following station prints:

11548-FM-64A
11548-FM-68A
11548-FM-72A
11548-FM-82A
11548-FM-86A
11548-FM-86B
11548-FM-87A
11548-FM-88C
11548-FM-88B
11548-FM-89B

These systems are designated by a bracketed A on the station prints.

Note 2 Class 1, 2 and 3 System hydrostatic tests shall be conducted near the end of the second interval within the last period. This coincides with the inspection conducted in the first interval.

Note 3 The piping between the following valves will be tested prior to departing hot shutdown conditions when exiting a refueling shutdown. The piping is normally pressurized to 660 psig.

2-SI-109 AND 2-SI-107, HCV-2850B
2-SI-130 AND 2-SI-128, HCV-2850D, MOV-2720A
2-SI-147 AND 2-SI-145, HCV-2850F, MOV-2720B

Note 4 Class 2 Systems are drawn on the following station prints:

11548-FM-64A	11548-FM-82A	11548-FM-89B
11548-FM-64B	11548-FM-83A	11448-FM-90C
11548-FM-66A	11548-FM-83B	11448-FM-118A
11548-FM-68A	11548-FM-84A	11548-FM-123A
11448-FM-68B	11548-FM-84B	11548-FM-124A
11548-FM-71A	11548-FM-85A	11548-FM-138A
11548-FM-72A	11548-FM-86A	11448-SPS-14A
11448-FM-72E	11548-FM-86B	11548-FB-6A
11448-FM-75C	11548-FM-87A	11448-FB-47B
11548-FM-75E	11548-FM-88A	
11548-FM-75J	11548-FM-88B	
	11548-FM-88C	
	11548-FM-89A	

Class 2 systems or components will be designated by a bracketed B on the station prints.

Note 5 This station will use the following guidance for determining the completion of scheduled system pressure tests (i.e. Category B-D, B-P, C-H, D-A, D-B, D-C):

- a) The tests which meet the pressure, temperature, hold time and VT-2 examination requirements as stipulated in the Code will be treated as complete for scheduled inspection purposes.
- b) Any discrepancies will be treated in accordance with IWA-5250 and the station's Repair/Replacement Program.
- c) Weld leaks and excessive mechanical leaks will be addressed through a station engineering evaluation to determine continued operability. Note that this does not apply to repair/replacements which must exhibit no leakage at the area of examination determined in the repair/replacement.

Note 6 Visual Examination of Heat Exchangers will be conducted using the following methods:

- a) When pressurizing the tube side of a heat exchanger, the tube integrity will be checked by the following methods. Fill and vent the shell side of the heat exchanger prior to the test and monitor an open vent path on the shell side during pressurization for overflow. Any overflow will be an indication of leakage. A drain method can be used by draining the shell side and observing leakage out the open drain path on the shell side.
- b) When pressurizing the shell side of a heat exchanger, the tube integrity can be checked by the following method. Fill and vent the tube side of the heat exchanger prior to pressurization. Monitor an open vent path on the tube side for overflow. Any overflow will be an indication of leakage.

The required visual examination of a heat exchanger will be considered complete using either method above. Any discrepancies will be referred to the station's Repair/Replacement Program.

Note 7 For identification purposes, piping extending beyond the valves listed below on station print 11548-FM-85A will be considered open ended and in accordance with the requirements of IWC-5222(d) for test purposes.

VALVE	PIPING
2-LM-28	3/8"-LM-111-N7
2-LM-29	3/8"-LM-112-N7
2-LM-30	3/8"-LM-113-N7
2-LM-31	3/8"-LM-116-N7

Note 8 Class 3 Systems are on the following station prints:

11548-FM-64A	11548-FM-72C
11548-FM-68A	11548-FM-87A
11548-FM-68B	11548-FM-88B
11548-FM-71A	11548-FM-88C
11548-FM-71B	11448-FM-130A
11548-FM-72A	
11548-FM-72B	

These systems will be enclosed in brackets and designated by a bracketed C on the station prints.

Note 9 Pressure tests required by repairs or replacements will be conducted in accordance with the station's Repair/Replacement Program as documented at the station.

5.4. SYSTEM PRESSURE TEST RELIEF REQUESTS

Relief Requests identify code requirements which are impractical for Surry Unit 2 and provide justification for the requested exception. Where appropriate, alternate testing to performed in lieu of the code requirements is proposed.

RELIEF REQUEST 1

Component(s): Piping between following check valves located on station prints:

11548-FM-89B

11548-FM-88C

2-SI-79 AND 2-SI-235, 2-SI-241

2-SI-82 AND 2-SI-236, 2-SI-242

2-SI-85 AND 2-SI-237, 2-SI-243

2-SI-88 AND 2-SI-226, 2-SI-227 and 2-SI-238

2-SI-91 AND 2-SI-226, 2-SI-227 and 2-SI-239

2-SI-94 AND 2-SI-226, 2-SI-227 and 2-SI-240

Function : Safety Injection System
Chemical Volume and Control

Class : 1

Section XI Code Requirements For Which Relief Is Requested

Class 1 System Hydrostatic Test, IWB-5222

Basis For Request

The double check valve combination prevents pressurization of the area in between the check valves when conducting IWB-5222 on the primary system.

Alternate Testing Method

The alternative test proposed is to pressurize the primary system to 2335 psig while the reactor is in a shutdown condition. The reactor will be borated to equal to or greater than cold shutdown boron concentration. The pressurized primary system will act as a boundary for the test forcing closed the first check valve in the pressure boundary.

A hydrostatic test pump will provide pressure up to 2235 psig creating a differential pressure of 100 psid, thus keeping the first check valve closed and providing a pressure boundary for the test. A normal VT-2 examination will then be conducted. Chemistry samples will be taken every 30 minutes to prevent accidental dilution of the primary system.

Schedule For Implementation

This test will be conducted toward the end of the second interval within the third inspection period.

RELIEF REQUEST 2

Relief Request Withdrawn

RELIEF REQUEST 3

Component(s): Pumps located on station drawing 11548-FM-88C as listed:

2-RC-P-1A

2-RC-P-1B

2-RC-P-1C

Piping associated from the flange to the pump

Function : Chemical and Volume Control System

Class : 1

Section XI Code Requirements
For Which Relief Is Requested

Class 1 System Hydrostatic Test, IWB-5222

Basis For Request

The number one seal return is the pressure boundary for the reactor coolant pumps. The nature of the design of this system precludes the use of an external pressure source for this test as excessive pressure could damage the seal.

Alternate Testing Method

The normal system leakage tests and VT-2 examination of the piping from the flanges to the pumps will be adequate, and an alternative test is not necessary.

RELIEF REQUEST 4

Relief Request Withdrawn

RELIEF REQUEST 5

Component(s): Piping and valves as listed located on station print
11548-FM-88C:

HCV-2311 and 2-CH-313
2-CH-312 and HCV-2310A, 2-CH-310

Function : Chemical and Volume Control System

Class : 1

Section XI Code Requirements
For Which Relief IS Requested:

Class 1 System Hydrostatic Test, IWB-5222.

Basis For Request

The one-way check valve placement prevents pressurization of the area in between the valves when conducting IWB-5222 on the primary system.

Alternate Testing Method

The alternate test proposed is to pressurize the primary system to 2335 psig while the reactor is in a shutdown condition. The reactor will be borated to equal to or greater than cold shutdown boration. The pressurized primary will act as a boundary for the test forcing closed the first check valve in the pressure boundary.

A hydrostatic test pump will provide pressure up to 2235 psig creating a differential pressure of 100 psid, thus keeping the first check valve closed and providing a pressure boundary for the test. A normal VT-2 examination will then be conducted. Chemistry samples will be taken every 30 minutes to prevent accidental dilution of the primary.

Schedule For Implementation

End of interval, within last period.

RELIEF REQUEST 6

Component(s): Piping and Valves located on station print 11548-FM-87A:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
MOV-2701	14"-RH-101-1502	MOV-2700

Function : Residual Heat Removal

Class : 1

Section XI Code Requirements
For Which Relief Is Requested

Class 1 System Hydrostatic Test, IWB-5222

Basis For Relief

During a normal hydrostatic test of the primary, MOV-2700 is closed in addition to MOV-2701. This prevents pressurization of MOV-2701 and the piping between the two MOVs. Both valves are closed to prevent possible overpressurization of the Residual Heat Removal System.

Alternate Testing Method

As an alternative, MOV-2701 and the piping between MOV-2701 and MOV-2700 will be tested in accordance with the Class 2 hydrostatic test to be administered to 14"-RH-118-602 on the suction side of the Residual Heat Removal pumps. This piping is protected from overpressure by RV-2721 which is set at 600 psig. Class 2 test pressure will be 750 psig. A VT-2 examination at this test pressure will identify any leakage and eliminate the overpressurization risk the Class 1 hydrostatic test presented.

Schedule For Implementation

End of interval, within the last period.

RELIEF REQUEST 7

Component(s): Piping and Valves located on station print 11548-FM-87A:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
MOV-2701	14"-RH-101-1502	MOV-2700

Function : Residual Heat Removal

Class : 1

Section XI Code Requirements
For Which Relief Is Requested

Class 1 System Leakage Test, IWB-5221

Basis For Request

The system leakage test conducted on the primary system is done with both MOV-2700 and MOV-2701 closed for reasons expounded upon in Relief Request 6. This prevents pressurization of MOV-2701 and piping between the two MOVs.

Alternate Testing Method

As an alternative, during the conduct of the Class 2 functional test on 14"-RH-118-602, MOV-2701 will be open as well as MOV-2700. This piping will be examined to the normal VT-2 requirements at the functional test conditions.

Schedule For Implementation

Once per inspection period.

RELIEF REQUEST 8

Component(s): Steam generators and piping located on station prints:

11548-FM-64A
 11548-FM-64B
 11548-FM-68A
 11548-FM-124A
 11548-FM-138A
 11548-FM-123A

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
2-RC-E-1A	30"-SHP-101-601 to 30"-SHP-122-601 to 4"-SHP-137-601	SV-MS-201A SV-MS-202A SV-MS-203A SV-MS-204A SV-MS-205A RV-MS-201A
2-RC-E-1A	30"-SHP-101-601 to 6"-SHP-145-601 to 2"-GN-33-601	2-GN-1
2-RC-E-1A	30"-SHP-101-601 to 6"-SHP-145-601	NRV-MS-201A 2-MS-83,81,266
2-RC-E-1A	30"-SHP-101-601 to 30"-SHP-122-601 to 3"-SDHV-101-601 to 4"-SDHV-104-601	HCV-MS-204
2-RC-E-1A	30"-SHP-101-601 to 4"-SHP-125-601	2-MS-379 2-MS-87
2-RC-E-1A	14"-WFPD-117-601 to 3/4"-CFPD-103-601	2-FW-27 2-FW-10 2-WT-176
2-RC-E-1A	2 1/2"-WGCB-601 1"-WGCB-601 3"-RT-200-601	2-BD-1 2-BD-2 2-BD-4 2-RT-1
1-RC-E-1A	30"-SHP-1-601 to 1 1/2"-SHPD-106-601	2-MS-74

RELIEF REQUEST 8 (CONT'D)

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
2-RC-E-1B	30"-SHP-102-601 to 30"-SHP-123-601 to 4"-SHP-138-601	SV-MS-201B SV-MS-202B SV-MS-203B SV-MS-204B SV-MS-205B RV-MS-201B
2-RC-E-1B	30"-SHP-102-601 to 6"-SHP-146-601 to 2"-GN-34-601	2-GN-2
2-RC-E-1B	30"-SHP-102-601 to 6"-SHP-146-601	NRV-MS-201B 2-MS-115,268,113
2-RC-E-1B	30"-SHP-102-601 to 30"-SHP-123-601 to 3"-SDHV-102-601 to 4"-SDHV-104-601	HCV-MS-204
2-RC-E-1B	30"-SHP-102-601 to 4"-SHP-126-601	2-MS-120,2-MS-378
2-RC-E-1B	14"-WFPD-113-601 to 3/4"-CFPD-102-601	2-FW-41,58 2-WT-179
2-RC-E-1B	2 1/2"-WGCB-601 1"-WGCB-601 3"-RT-210-601	2-BD-11 2-BD-12 2-BD-14 2-RT-20
2-RC-E-1B	30"-SHP-102-601 to 1 1/2"-SHPD-108-601	2-MS-106

RELIEF REQUEST 8 (CONT'D)

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
2-RC-E-1C	30"-SHP-103-601 to 30"-SHP-124-601 to 4"-SHP-139-601	SV-MS-201C SV-MS-202C SV-MS-203C SV-MS-204C SV-MS-205C RV-MS-201C
2-RC-E-1C	30"-SHP-103-601 to 6"-SHP-147-601 to 2"-GN-35-601	2-GN-3
2-RC-E-1C	30"-SHP-103-601 to 6"-SHP-147-601	NRV-MS-201C 2-MS-152, 151, 208
2-RC-E-1C	30"-SHP-103-601 to 30"-SHP-124-601 to 3"-SDHV-103-601 to 4"-SDHV-104-601	HCV-MS-204
2-RC-E-1C	30"-SHP-103-601 to 4"-SHP-127-601	2-MS-158 2-MS-377
2-RC-E-1C	14"-WFPD-109-601 to 3/4"-CFPD-101-601	2-FW-72 2-FW-89 2-WT-180
2-RC-E-1C	2 1/2"-WGCB-601 1"-WGCB-601 3"-RT-220-601	2-BD-21 2-BD-22 2-BD-24 2-RT-39
2-RC-E-1C	30"-SHP-103-601 to 1 1/2"-SHPD-107-601	2-MS-143

RELIEF REQUEST 8 (CONT'D)

Function : Main Steam
Feedwater
Steam Generator Nitrogen Connection
Chemical Feed
Steam Generator Blowdown
Steam Generator Recirculation and Transfer

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

IWA 5213(d) System Hydrostatic Tests - 4 hr. holding time required after attaining test pressure and temperature conditions for insulated systems.

Basis For Relief

Westinghouse requires specific testing requirements in order to maintain integrity and warranty of the steam generators. These requirements are found in the Westinghouse Technical Manual Steam Generator Vepco Surry Power Station Units 1 & 2 Volume 1, March 1979, Section 3.10.2, "Secondary Side Hydrostatic Test."

Alternate Testing Method

The requirements of 3.10.2 of the Westinghouse Technical Manual require the following: "The secondary side hydrostatic test shall be conducted in accordance with the ASME Code Section XI for Class 2 Components. The secondary side pressure is to be raised to 1356 psig, held for 30 minutes and then reduced to 1085 psig for a time sufficient to permit proper examination of welds, closures and surfaces for leakage or weeping.

Schedule For Implementation

End of interval, within last period.

RELIEF REQUEST 9

Component(s): Valves and piping on the following station drawings
11548-FM-68A:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
2-FW-12	14"-WFPD-117-601	2-FW-10
2-FW-43	14"-WFPD-113-601	2-FW-41
2-FW-74	14"-WFPD-109-601	2-FW-72
2-FW-31	3"-WAPD-110-601 to 3"-WAPD-109-601	2-FW-27
2-FW-30	3"-WAPD-109-601	2-FW-27
2-FW-62	3"-WAPD-112-601 to 3"-WAPD-111-601	2-FW-58
2-FW-61	3"-WAPD-111-601	2-FW-58
2-FW-93	3"-WAPD-114-601 to 3"-WAPD-113-601	2-FW-89
2-FW-92	3"-WAPD-113-601	2-FW-89

Function : Feedwater and Auxilliary Feedwater Connections.

Class : 2

Section XI Code Requirements For Which Relief Is Requested

IWA-5213(d) System Hydrostatic Tests - 4 hr. holding time required after attaining test pressure and temperature conditions for insulated systems.

Basis For Request

The check valves associated with the piping as listed open to the steam generators. Hydrostatic test pressure would therefore pressurize the steam generator area and would subject them to the conditions discussed in Relief Request 8.

Alternate Testing Method

As an alternative, these areas will be tested to the pressure and conditions discussed in Relief Request 8. As the individual steam generators are tested the piping and valves attached in this request will be tested.

RELIEF REQUEST 9 (CONT'D)

Schedule For Implementation

End of inspection interval, within last period.

RELIEF REQUEST 10

Component(s): Piping and valves as listed located on station print
11548-FM-88C:

<u>Component</u>	<u>Piping Connected</u>	<u>Component</u>
2-CH-310	3/4"-CH-540-1502	2-CH-311

Function : Chemical and Volume Control System

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Class 2 System Hydrostatic Test, IWC-5222

Basis For Request

The one-way check valve placement of 2-CH-310 makes it impossible to isolate the primary Class 1 system from the Class 2 pressure test required. Since no safety or relief valve exists for this hydrostatic test boundary, design pressure of the pipe (PD) must be used as a substitute for PSV (IWC-5222a). The PD for this pipe is 2735 psig, therefore the required test pressure would be 1.25 times PD or 3419 psig. Since the primary cannot be isolated this test pressure would overpressurize the primary system which is limited to the Class 1 hydrostatic test condition described in IWB-5222.

Alternate Testing Method

As an alternative, the piping and components covered by this request will receive a VT-2 examination during the test described in Relief Request 5.

Schedule For Implementation

End of interval, within the last period.

RELIEF REQUEST 11

Component(s): Piping and valves located on station prints 11548-FM-89A and 11548-FM-89B:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
MOV-2890C	10"-SI-352-1502 to 6"-SI-353-1502 to 6"-SI-345-1502 to 6"-SI-344-1502	2-SI-243 2-SI-241 2-SI-242
MOV-2890A	6"-SI-249-1502/	2-SI-238
MOV-2890B	6"-SI-248-1502 to 6"-SI-343-1502 to 6"-SI-249-1502 to 6"-SI-250-1502	2-SI-239 2-SI-240
2-SI-174 and MOV-2869A	3"-SI-272-1503	2-SI-227
MOV-2869B	3"-SI-347-1503	2-SI-226
2-SI-150	3"-SI-270-1503	2-SI-237
MOV-2867C	to 2"-SI-270-1503/	2-SI-250
MOV-2867D	2"-SI-275-1502 3"-SI-290-1503/ 3"-SI-270-1503 2"-SI-276-1503/ 2"-SI-285-1502 3/4"-SI-222-152	2-SI-236 2-SI-248
MOV-2842	3"-SI-346-1503 to 2"-SI-271-1503/ 2"-SI-274-1502	2-SI-235 2-SI-245

Function : Safety Injection System

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Class 2 System Hydrostatic Test, IWC-5222

Basis For Relief

Check valve boundaries between Class 2 and Class 1 systems make it impractical to establish hydrostatic test boundaries so that the primary system is not included. Design pressure for this piping is 2800 psig (PD), therefore normal test pressure would be 3080 psig ($T \leq 200^\circ\text{F}$). This pressure would overpressurize the primary system since it cannot be isolated.

RELIEF REQUEST 11 (CONT'D)

Alternate Testing Method

As an alternative, these systems will be tested in conjunction with the Class 1 hydrostatic test at a pressure of 2335 psig. A VT-2 examination will be performed on the componenets and piping listed above.

Schedule For Implementation

End of interval, within the last period.

RELIEF REQUEST 12

Component(s): Piping and valves located on station print 11548-FM-89B:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
MOV-2865A	12"-SI-245-1502	2-SI-107
2-SI-105	3/4"-SI-233-1502	
MOV-2865B	12"-SI-246-1502	2-SI-128
2-SI-126	3/4"-SI-234-1502	
MOV-2865C	12"-SI-247-1502	2-SI-145
2-SI-143	3/4"-SI-235-1502	

Function : Safety Injection System

Class : 2

Section XI Code Requirements For Which Relief Is Requested

Class 2 System Hydrostatic Test, IWC-5222

Basis For Request

The check valve boundary prevents isolation of the adjoining Class 1 system from the Class 2 system mentioned. The lack of overpressure protection within the boundary requires a test pressure equal to 1.1 (multiplier for $T \leq 200^\circ\text{F}$) times the design pressure (PD) of 2485 psig. This test pressure is 2733.5 psig for the Class 2 system. The nominal operating pressure (PO) for the adjoining Class 1 system is 660 psig which at 100°F requires a test pressure of 726 psig. As is evident, since isolation is not practical, the Class 2 test pressure will be far in excess of the test pressure for the Class 1 system.

Alternate Testing Method

As an alternative, it is requested that the Class 2 components and piping mentioned above be examined (VT-2) to the conditions required for the adjacent Class 1 piping (PO = 660 psig).

Schedule For Implementation

End of interval, within the last period.

RELIEF REQUEST 13

Component(s): Piping and valves located on station print 11548-FM-84A.

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
2-CS-48	6"-CS-115-152	2-CS-47
	6"-CS-114-152	2-CS-46
	2"-CS-119-152	2-CS-45

Function : Containment and Recirculation Spray System

Class : 2

Section XI Code Requirements For Which Relief Is Requested

Class 2 System Hydrostatic Test, IWC-5222(a)

Basis For Request:

Tank 2-CS-TK-1 (RWST) and piping up to 2-CS-48 will be tested to system hydrostatic test criteria of IWC-5222(b,c). The piping and components above attach to the system and are included only due to the requirements of Reg. Guide 1.26 (Feb. 1976) to include piping up to the first valve that is either normally closed or capable of automatic closure. Since the requirements of IWC-5222(b,c) can only be applied from the RWST to 2-CS-48, the piping mentioned above must be tested in accordance with IWC-5222(a). Boundary valves necessary to isolate IWC-5222(a) include piping (3"-FP-38-152 w/design pressure=100 psig) which cannot be isolated from the test zone. Design pressure for the piping described above is 150 psig. The lower design pressure would limit the pressure test required by IWC-5222(a). This test would be excessive since the piping would only see pressure associated with the RWST when performing its safety function.

Alternate Testing Method

As an alternative, it is requested that the piping and components mentioned above be tested to the requirements of IWC-5222(b,c) associated with 2-CS-TK-1 (RWST).

Schedule For Implementation

End of interval, within the last period.

RELIEF REQUEST 14

Relief Request Withdrawn

RELIEF REQUEST 15

Component(s): Open ended intake piping before the first shut-off valve in non-closed systems located on 11548-FM-71A.

Function : Circulating and Service Water System

Class : 3

Section XI Code Requirements For Which Relief Is Requested

System Hydrostatic Test, IWD-5223

Basis For Relief

The Code addresses the problem of performing hydrostatic tests on open ended portions of discharge lines beyond the last shut-off valve in non-closed systems in IWD-5223(d). A similar problem exists for the intake piping at Surry Unit 2 as it is non-isolatable for the increased pressure requirements of a hydrostatic test.

Alternate Testing Method

As an alternative, the requirements applied to open ended portions of discharge lines (IWD-5223(d)) will be applied in this case; that is, confirmation of adequate flow during system operation shall be acceptable in lieu of system hydrostatic test.

Schedule For Implementation

End of interval, within the last period.

RELIEF REQUEST 16

Relief Request Withdrawn

RELIEF REQUEST 17

Component(s): Steam Generators located on station print 11548-FM-86A.

2-RC-E-1A

2-RC-E-1B

2-RC-E-1C

Function : Reactor Coolant System

Class : 1

Section XI Code Requirements
For Which Relief Is Requested

System Leakage Test, IWB-5221; System Hydrostatic Test, IWB-5222; Visual Examination, IWA-5240

Basis For Request

Primary to secondary leakage detection using Code described visual detection techniques would be limited in usefulness and hazardous to conduct.

Alternate Testing Method

The normal primary to secondary leakage surveillance requirements of Surry's Technical Specifications provide the necessary intended Code examination requirements for leakage identification.

Schedule For Implementation

In accordance with Technical Specifications at Surry.

RELIEF REQUEST 18

Component(s): Piping and components located on the following prints:

11548-FM-72A
11548-FM-72B
11548-FM-72C

Function : Component Cooling

Class : 3

Section XI Code Requirements For Which Relief Is Requested

System Hydrostatic Test, IWD-5223

Basis For Request

Component Cooling is utilized for cooling important safety related components associated with the nuclear core. This system cannot be isolated in most instances without removing fuel totally from the core. This action would be time consuming and delay unnecessarily the refueling process.

Alternate Testing Method

As an alternative, systems which can be isolated from the main flow path and which do not place the station in violation of its Technical Specifications, while the core is loaded, will be hydrostatically tested in accordance with IWD-5223. Systems which cannot be isolated will be tested in accordance with IWD-5221, which will be normally conducted, and will be more than sufficient. Determination of testing will be done with emphasis on practicality, and in conducting IWD-5223 System Hydrostatic Test whenever possible. It should be noted that this is an upgrade of testing requirements over the first 10 year interval.

Schedule For Implementation

End of the interval within the last period.

RELIEF REQUEST 19

Component(s): Piping and components located on the following print:

11548-FM-71B

11448-FM-71D

Function : Service Water System

Class : 3

Section XI Code Requirements For Which Relief Is Requested

System Hydrostatic Test - IWD-5223

Basis For Request

The service water system as seen on the above mentioned drawing is used for cooling component cooling water for the charging pumps and lube oil for the charging pumps. The system was designed without the use of a safety or relief valve due to the low pressure output of the charging pump service water pumps which is 29 psig (max). The maximum possible pressure source for the system would occur if an extensive heat exchanger leak occurred at either 2-SW-E-1A or 1B between component cooling and service water. This pressure could be no more than 50 psig the maximum discharge pressure of 2-CC-P-2A or 2B. It is felt that having to use a design pressure (PD) of 100 psig would be excessive for this system as the maximum pressure potential is 50 psig.

Alternate Testing Method

As an alternative, it is requested that 50 psig be used as this systems PD until a safety or relief valve is placed within the system to make use of PSV.

Schedule For Implementation

End of interval, within the last period.

RELIEF REQUEST 20

Component(s): Piping and valves located on the following prints:
11548-FM-89A:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
2-SI-195	3/4"-SI-360-153	2-SI-196

Function : Safety Injection

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

System Hydrostatic Test, IWC-5222

Basis For Request

The one way check valve, 2-SI-196, provides a pressure retaining boundary for two system hydrostatic tests (IWC-5222(a) and IWC-5222(b,c)). The Class 2 component is adequate as a pressure boundary when performing IWC-5222 (b,c) on the adjacent Class 2 system. However when performing system hydrostatic test, IWC-5222(a), on 2-SI-P-1A, the one way check valve does not retain pressure for that flow direction.

Alternate Testing Method

As an alternative, the upstream isolation valve 2-SI-195 will be closed in order to provide a pressure boundary to perform the system hydrostatic test, IWC-5222(a), on 2-SI-P-1A. This enables the above mentioned piping to be hydrostatic tested up to the isolation valve, 2-SI-195. The remaining piping and components mentioned above will be tested to the requirements of IWC-5221(a,b), functional test.

Schedule For Implementation

End of interval, within the last period.

RELIEF REQUEST 21

Component(s): Penetrations located in the lower head of the Reactor Vessel.

Function : Reactor Coolant System

Class : 1

Section XI Code Requirements
For Which Relief Is Requested

Class 1 System Hydrostatic Test, IWB-5222

Class 1 System Leakage Test, IWB-5221

Visual Examination, IWA-5240

Basis For Request

Primary leakage detection using Code described visual detection techniques would be limited in usefulness and hazardous to conduct. During the time the primary system is at test pressure, environmental and subatmospheric conditions restrict the area required to be accessed for visual inspection.

Alternate Testing Method

The normal primary leakage surveillance requirements of the plant's Technical Specifications provide the necessary intended Code examination requirements for leakage identification.

Schedule For Implementation

In accordance with Technical Specifications at Surry

RELIEF REQUEST 22

Component(s): Piping and valves, as listed, located on station prints:
11548-FM-88B,C:

<u>Component</u>	<u>Piping Connected</u>	<u>Component</u>
HCV-2310A,HCV-2311	3"-CH-301-1502	2-CH-304, 2-CH-305
2-CH-311	2"-CH-368-1502	
	3/4"-CH-540-1502	
	3"-CH-379-1503	

Function : Chemical and Volume Control System

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Class 2 System Hydrostatic Test, IWC-5222

Basis For Relief

The valve design of HCV-2310A prevents pressurization of the area listed above when conducting IWC-5222. The valve is required to be closed for IWC-5222 but when the required test pressure (3419 psig) is applied, the valve lifts off its seat. In previous tests, a mechanical jack has been installed to prevent the valve seat from lifting. The hydrostatic test would be completed but valve damage was incurred (bending stem, disc, seat, etc.)

Alternate Testing Method

As an alternative, the piping and components covered by this request will receive a VT-2 examination during the test described in Relief Request 5.

Schedule For Implementation

End of interval, within the last period.