

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION UNIT 1

INSERVICE INSPECTION PROGRAM

INTERVAL 2

DECEMBER 22, 1982 - DECEMBER 22, 1992

REVISION 3

8704220232 870416
PDR ADDCK 05000280
Q PDR

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNIT 1
INSERVICE INSPECTION PROGRAM
INTERVAL 2
DECEMBER 22, 1982 - DECEMBER 22, 1992
REVISION 3

DISTRIBUTION RECORD

<u>DISTRIBUTION NO.</u>	<u>DATE ENTERED</u>	<u>INITIAL</u>	<u>DISTRIBUTION NO.</u>	<u>DATE ENTERED</u>	<u>INITIAL</u>
1	_____	_____	21	_____	_____
2	_____	_____	22	_____	_____
3	_____	_____	23	_____	_____
4	_____	_____	24	_____	_____
5	_____	_____	25	_____	_____
6	_____	_____	26	_____	_____
7	_____	_____	27	_____	_____
8	_____	_____	28	_____	_____
9	_____	_____	29	_____	_____
10	_____	_____	30	_____	_____
11	_____	_____	31	_____	_____
12	_____	_____	32	_____	_____
13	_____	_____	33	_____	_____
14	_____	_____	34	_____	_____
15	_____	_____	35	_____	_____
16	_____	_____	36	_____	_____
17	_____	_____	37	_____	_____
18	_____	_____	38	_____	_____
19	_____	_____	39	_____	_____
20	_____	_____	40	_____	_____

Future distributions to this report will be accompanied by two copies of the distribution memo, one of which is to be returned per instructions thereon, and the other one is to be filed sequentially behind this page giving you a record of the contents of each distribution.

ABSTRACT
VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNIT 1
INTERVAL 2
DECEMBER 22, 1982 TO DECEMBER 22, 1992

In accordance with 10CFR50.55a, the Surry Unit 1 Inservice Inspection and Testing Program was updated to meet the requirements of 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 December 22, 1982, and will end on December 22, 1992.

The Inservice Inspection 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 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 Subsections 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>
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 1

FB DRAWINGS

11448-FB-4B	Fuel Oil Lines
11448-FB-6A	Air Cooling and Purging
11448-FB-46A	'A' Diesel Generator Air Starting System
11448-FB-46B	'B' Diesel Generator Air Starting System
11448-FB-46C	'C' Diesel Generator Air Starting System
11448-FB-47B	Fire Protection

UNIT 1

FM DRAWINGS

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

LIST OF DRAWINGS CONT.

UNIT 1

FM DRAWINGS

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

LIST OF DRAWINGS (CONT.)

UNIT 1

SPS DRAWINGS

11448-SPS-14A

Containment Particulate

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

UNIT 1

INSERVICE INSPECTION
AND
INSERVICE TESTING PROGRAM

1.0 INTRODUCTION

1.1 GENERAL INFORMATION

Surry Power Station Unit 1 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 Station Unit 1 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, Component Supports, Pumps, and Valves are applicable for the ten year interval beginning December 22, 1982 and ending December 22, 1992. The present ten year interval is the second inspection interval for Surry Unit 1.

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 pressure vessels. Piping, pumps, and valves were built primarily to the rules of USAS B31.1. Essentially, Surry Power Station was designed and constructed prior to the origination of the ASME Code classifications named Class 1, 2, and 3. Therefore 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 1 and Revision 3 for the Surry Unit 1 Inservice Inspection Program for Components are provided below. The page numbers refer to the Revision 3.

<u>Page</u>	<u>Description of Change</u>
1	Item descriptions were changed to better reflect the descriptions given by the ASME Code. These changes occur throughout the document.
1	The flow diagram reference number (11715) was changed to read (11448). This change occurs throughout the document.
1	The vessel number in the column entitled "LINE NUMBER" was changed from RPRV to 1RCR1. This change was applied to all occurrences of RPRV.
1	Also note that the unit designator "1" was added to the vessel number. The unit designator "1" was added to every vessel and pump number which did not have a unit designator in Revision 1.
3	Item Number B1.21 was changed to B1.21T for "Top Head" weld.
6	The vessel number in the column entitled "LINE NUMBER" was changed from PRZR to 1RCE2. This change occurs throughout the document.
6	Relief Request SR-005 was added.
6	Also note that the relief request number was changed to a 3 digit number (i.e. 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-008 was added.
18	Relief Request SR-008 was added.
27	Relief Request SR-011 was added.
36	Line Number CH8-1502 was deleted from the program.
36	System/Component was corrected. This change occurs throughout this document.

Page

Description of Change

40	Flow Diagrams and Coordinates were changed to reflect the proper FM. This change has occurred throughout the document.
41	Line Number RH18-1502 was changed to RH18-602.
41	Line Number RH23-1502 was changed to RH23-602.
43	Item Number B8.10 "Reactor Vessel Integrally Welded Attachments" was moved from Item Number B8.20.
45 & 46	The following Line Numbers were added to Item Number B9.11. CH122-152 CH14-1502 CH15-1502 CH16-1502 CH214-152 CH215-152 CH216-152 CH99-152
53	Relief Request SR-009 was added.
55	Line Number SI85-1502 was changed from Item Number B9.11 to B9.21. Line Number RC15-1502 was deleted from Item Number 9.21.
66	Line Number SI75-1502 was added to Item Number B9.40.
67, 68, 69 & 70	The following Line Numbers were added to Item Number B10.10. CH1-1502 CH216-152 RC146-1502 RC20-1502 RC22-1502 RC36-602 RC62-602 RH17-1502 RH18-602 SI145-1502
87 & 106	Line Number CH93-1503 was changed to CH93-1502.
87 & 106	Line Number CH95-1503 was changed to CH95-1502

PageDescription of Change

87 & 106 Line Number CH97-1503 was changed to CH97-1502

102 & 121 Line Number SI4-1502 was changed to SI41-1502.

Line Numbers CHE3 and CHTK2 have been deleted from Item Number C1.10.

125 & 127 Relief Request SR-012 was added to Line Number 1CHFL3.

127 & 128 The following Line Numbers were added to Item Number C1.20.

1CHTK2
1CHE3
1RCE1A
1RCE1B

Item Numbers C2.10 and C2.20 have been deleted from the program.

130 Relief Request SR-007 was added.

130, 131 & 132 Item Numbers C2.21 and C2.22 have been added to the program.

134 thru 146 The following Line Numbers were added to Item Number C3.40.

WAPD1-601	CH81-1503	SDHV4-121
WAPD10-601	CH89-1503	SHPD16-601
WAPD11-601	CH90-1503	SHPD5-601
WAPD12-601	CH91-1503	SHPD6-601
WAPD13-601	CH99-152	SHPD7-601
WAPD14-601	DG26-152	SHPD8-601
WAPD2-601	CH68-1502	SHP29-601
WAPD9-601	CH1-1502	SHP30-601
WAPD50-601	CH79-1503	SHP31-601
WAPD51-601	CS1-153	SHP57-601
WGCB1-601	CS14-152	RH10-602
WGCB105-601	CS2-153	RH12-602
WGCB2-601	CS22-153	RH15-152
WGCB3-601	CS27-153	RH18-602
WGCB6-601	CS3-153	RH2-602
CC101-151	CS33-153	RH20-152
CC16-121	CS34-153	RH4-602
CC262-151	CS36-153	RH5-602
CC93-151	CS4-153	RH7-602
CC78-151	CS8-153	RH8-602
CC80-151	CS80-153	RH9-602
CH25-152	CS85-153	RL6-152
CH11-1503	CS88-153	RS1-153
CH113-1503	CS91-153	RS10-153

PageDescription of Change

134 thru 146

CH12-1503	CS94-153	RS11-153
CH120-152	CS95-153	RS12-153
CH13-1503	CS98-153	RS13-153
CH17-152	CV8-151	RS14-153
CH2-1503	WFPD9-601	RS2-153
CH23-152	SAE1-121	RS20-153
CH3-1503	SAE2-121	RS21-153
CH7-602	SAE3-121	RS22-153
CH79-1503	SAE37-121	RS23-153
CH8-1503	SAE38-121	RS3-153
CH80-1503	SAE39-121	RS4-153

147 thru 152

The following Line Numbers were added to Item Number C3.40.

RS9-153	SI17-152	SI146-1503
RT100-601	SI170-152	SI147-1503
RT101-153	SI48-1502	SI45-1502
RT110-601	SI5-153	SI46-1502
RT111-153	SI57-1503	SI47-1502
RT120-601	SI58-1503	SI70-1503
RT121-153	SI6-153	SI72-1503
SI102-152	SI70-1503	SI74-1502
SI106-153	SI72-1503	SI75-1502
SI130-152	SI83-152	SI76-1503
SI14-153	SI84-152	SI79-1502
SI147-1503	SI92-153	SI80-1502
SI150-153	SI105-152	SI81-1502
		SI85-1502

154 thru 162

The following Line Numbers were added to Item Number C5.11. These changes occur throughout this document.

CH17-152	RC20-602	SI149-153
CH18-152	RC40-602	SI150-153
CH19-152	RC41-602	SI151-153
CH201-152	RC42-602	SI17-152
CH202-152	RC62-602	SI170-152
CH203-152	SI46-1502	SI18-152
CH204-152	RH20-152	SI19-152
CH205-152	RS24-153	SI2-153
CH206-152	RS7-153	SI5-152
CH72-152	RS8-153	SI5-153
CS1-153	SI1-153	SI6-153
CS14-152	SI102-152	SI7-152
CS15-152	SI106-153	SI78-152
CS2-152	SI107-153	SI83-152
CS5-152	SI108-153	SI84-152
CS87-153	SI13-153	SI3-153
CS88-153	SI14-153	SI45-1502
CS89-153	SI148-153	SI47-1502

<u>Page</u>	<u>Description of Change</u>
154 thru 162	Line Number RH12-604 was deleted from Item Number C5.11.
174 & 210	Line Number CH-125 was changed to CH125-602.
187 & 188	The following Line Numbers had the piping specifications changed from 152 to 153. These changes occur throughout this document. CS74-153 CS75-153 CS8-153
190 thru 192	The following Line Numbers had the piping specifications changed from 601 to 121. These changes occur throughout this document. SSV1-121 SSV10-121 SSV11-121 SSV12-121 SSV13-121 SSV14-121 SSV15-121 SSV2-121 SSV3-121 SSV4-121 SSV5-121 SSV6-121 SSV7-121 SSV8-121 SSV9-121
245	Line Numbers 1RHPlA and 1RHPlB have been changed from Item Number C7.20 to C7.30.
246	Line Numbers 1RHPlA and 1RHPlB have been changed from Item Number C7.21 to C7.31.
253 thru 306	Item Number D1.10 was replaced by Item Numbers D1.10H and D1.10S.
256 & 283	Line Number CC16-181 was changed to CC16-121.
266 & 293	Line Number CC234-121 was changed to CC234-151.
270 & 297	Line Number CH160-152 was changed to CH180-152.
307 thru 320	Item Number D2.10 was replaced by Item Numbers D2.10H and D2.10S.

<u>Page</u>	<u>Description of Change</u>
312 & 319	The following Line Numbers had the piping specifications changed from 21B to 21X. WS74-21X WS75-21X WS81-21X WS82-21X
321 thru 335	The following Item Numbers have been added to the program. D2.20 D2.30 D2.40
312 & 319	The following Line Numbers had the piping specifications changed from 21B to 21X. WS74-21X WS75-21X WS81-21X WS82-21X
321 thru 335	The following Item Numbers have been added to the program. D2.20 D2.30 D2.40
2-11 Thru 2-14	Reference drawing were added to SR-005.
2-15	Relief Request SR-006 was added to the program submittal.
2-16 & 2-17	Relief Request SR-007 was added to the program submittal.
2-18	Relief Request SR-008 was added to the program submittal.
2-19	Relief Request SR-009 was added to the program submittal.
2-20	Relief Request SR-010 was added to the program submittal.
2-21	Relief Request SR-011 was added to the program submittal.

<u>Page</u>	<u>Description of Change</u>
2-22	Relief Request SR-012 was added to the program submittal.
2-23	Relief Request SR-013 was added to the program submittal.
2-24	Relief Request SR-014 was added to the program submittal.

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

UNIT 1

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 Program 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 is in accordance with 10CFR50 utilizing the selection criteria of ASME Section XI; 1974 Edition through the Summer 1975 Addendum. The ASME Section XI 1980 Edition through the Winter 1980 Addendum selection criteria will be applicable when stress calculations to support that inspection program are available. Vessel weld selection and hanger and support selection is in accordance with 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 Addendum. Use of the blocks will supercede 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 Tables 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. All 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 code allowed 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 Control Rod Drive 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. and smaller.

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 systems 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.

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      1 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-A    PRESSURE RETAINING WELDS IN REACTOR VESSEL
*
*****

```

ITEM NUMBER : B1.11

ITEM DESCRIPTION : RV CIRCUMFERENTIAL SHELL WELDS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      2 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-A      PRESSURE RETAINING WELDS IN REACTOR VESSEL
*
*****

```

ITEM NUMBER : B1.12

ITEM DESCRIPTION : RV LONGITUDINAL SHELL WELDS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      3 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-A      PRESSURE RETAINING WELDS IN REACTOR VESSEL
*
*****

```

ITEM NUMBER : B1.21T

ITEM DESCRIPTION : RV CIRCUMFERENTIAL TOP HEAD WELDS

	FLOW	FLOW					
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD		RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====		=====	=====
RC	FM-86A	F-5	1RCR1				

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      4 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY B-A      PRESSURE RETAINING WELDS IN REACTOR VESSEL
*
*****

```

```

ITEM NUMBER      : B1.30
ITEM DESCRIPTION : RV SHELL-TO-FLANGE WELD

```

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          5 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-A      PRESSURE RETAINING WELDS IN REACTOR VESSEL
*
*****

```

```

ITEM NUMBER      : B1.40
ITEM DESCRIPTION : RV HEAD-TO-FLANGE WELD

```

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	IRCR1	SUR VOL		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 6
* REVISION 0003
* DATE 86/10/20
*****
* CATEGORY B-B PRESSURE RETAINING WELDS IN VESSELS OTHER THAN THE RV
*
*****

```

ITEM NUMBER : B2.11

ITEM DESCRIPTION : PZR CIRCUMFERENTIAL SHELL-TO-HEAD WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	6-6	IRCE2	VOL	SR-005	

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      7 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-B      PRESSURE RETAINING WELDS IN VESSELS OTHER THAN THE RV
*
*****

```

ITEM NUMBER : B2.12

ITEM DESCRIPTION : PZR LONGITUDINAL SHELL-TO-HEAD WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-6	1RCE2	VOL	SR-005	


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      8 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-B      PRESSURE RETAINING WELDS IN VESSELS OTHER THAN THE RV
*
*****

```

ITEM NUMBER : B2.40

ITEM DESCRIPTION : SG PRIMARY TUBESHEET-TO-HEAD WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-1	1RCE1A	VOL		
RC	FM-86A	C-6	1RCE1B	VOL		
RC	FM-86A	J-1	1RCE1C	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          9 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-D      FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
*
*****

```

ITEM NUMBER : B3. 90

ITEM DESCRIPTION : RV NOZZLE-TO-VESSEL WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	IRCRI	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          10 *
*                               * REVISION 0003 *
*                               * 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

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      11 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-D      FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
*
*****

```

ITEM NUMBER : 83.120

ITEM DESCRIPTION : PZR NOZZLE INSIDE RADIUS SECTION

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-6	IRCE2	VIS	SR-007	

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          12 *
*                               * REVISION    0003 *
*                               * 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 (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-1	1RCE1A	VIS	SR-007	
RC	FM-86A	C-6	1RCE1B	VIS	SR-007	
RC	FM-86A	J-1	1RCE1C	VIS	SR-007	

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      13 *
*                               * REVISION  0003 *
*                               * 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

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	IRCRI	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      14 *
*                               * REVISION  0003 *
*                               * 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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          15 *
*                               * REVISION    0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-E      PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS
*
*****

```

ITEM NUMBER : 84.20

ITEM DESCRIPTION : PRESSURIZER HEATER PENETRATION WELDS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	6-6	1RCE2	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      16 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-F      PRESSURE RETAINING DISSIMILAR METAL WELDS
*
*****

```

ITEM NUMBER : B5.10

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-2	RC1-2501R	VOL	SR-006	
RC	FM-86A	C-4	RC3-2501R	VOL	SR-006	
RC	FM-86A	F-5	RC4-2501R	VOL	SR-006	
RC	FM-86A	C-8	RC6-2501R	VOL	SR-006	
RC	FM-86A	H-2	RC7-2501R	VOL	SR-006	
RC	FM-86A	K-4	RC9-2501R	VOL	SR-006	

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      17 *
*                               * REVISION  0003 *
*                               * 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 (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	G-8	RC10-2501R	SUR VOL		
RC	FM-86B	F-5	RC15-1502	SUR VOL		
RC	FM-86B	H-5	RC34-1502	SUR VOL		
RC	FM-86B	H-5	RC37-1502	SUR VOL		
RC	FM-86B	G-5	RC38-1502	SUR VOL		
RC	FM-86B	G-5	RC39-1502	SUR VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      18 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-F    PRESSURE RETAINING DISSIMILAR METAL WELDS
*
*****

```

ITEM NUMBER : B5.30

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-2	RC1-2501R	SUR VOL	SR-008	
RC	FM-86A	B-2	RC2-2501R	SUR VOL	SR-008	
RC	FM-86A	F-5	RC4-2501R	SUR VOL	SR-008	
RC	FM-86A	B-6	RC5-2501R	SUR VOL	SR-008	
RC	FM-86A	H-2	RC7-2501R	SUR VOL	SR-008	
RC	FM-86A	K-2	RC8-2501R	SUR VOL	SR-008	

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      19 *
*                               * REVISION 0003 *
*                               * 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 (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	SUR		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      20 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6. 20

ITEM DESCRIPTION : RV CLOSURE STUDS, IN PLACE

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      21 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6. 30

ITEM DESCRIPTION : RV CLOSURE STUDS,WHEN REMOVED

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	1RCR1	SUR VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          22 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6. 40

ITEM DESCRIPTION : RV THREADS IN FLANGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	1RCR1	VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      23 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6. 50

ITEM DESCRIPTION : RV CLOSURE WASHERS,BUSHINGS

	FLOW	FLOW				
SYSTEM/	DIAGRAM	DIAGRAM	LINE	EXAM	RELIEF	PROGRAM
COMPONENT	(11448)	COORD	NUMBER	METHOD	REQUEST	NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VIS		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 24 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY B-6-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6.180

ITEM DESCRIPTION : PUMP BOLTS AND STUDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	1RCP1A	VOL		
RC	FM-86A	A-6	1RCP1B	VOL		
RC	FM-86A	L-1	1RCP1C	VOL		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 25
* REVISION 0003
* DATE 86/10/20
*****
* CATEGORY B-6-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6.190

ITEM DESCRIPTION : PUMP FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-1	1RCPIA	VIS		
RC	FM-86A	A-6	1RCPIB	VIS		
RC	FM-86A	L-1	1RCPIC	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      26 *
*               * REVISION 0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY B-6-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6.200

ITEM DESCRIPTION : PUMP NUTS,BUSHINGS, AND WASHERS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	1RCP1A	VIS		
RC	FM-86A	A-6	1RCP1B	VIS		
RC	FM-86A	L-1	1RCP1C	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      27 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY B-G-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6.210

ITEM DESCRIPTION : VALVE BOLTS AND STUDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	E-2	RC1-2501R	VIS	SR-011	
RC	FM-86A	C-4	RC3-2501R	VIS	SR-011	
RC	FM-86A	F-5	RC4-2501R	VIS	SR-011	
RC	FM-86A	C-8	RC6-2501R	VIS	SR-011	
RC	FM-86A	H-2	RC7-2501R	VIS	SR-011	
RC	FM-86A	K-4	RC9-2501R	VIS	SR-011	

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      28 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-G-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6.220

ITEM DESCRIPTION : VALVE FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-2	RC1-2501R	VIS		
RC	FM-86A	C-4	RC3-2501R	VIS		
RC	FM-86A	F-5	RC4-2501R	VIS		
RC	FM-86A	C-8	RC6-2501R	VIS		
RC	FM-86A	H-2	RC7-2501R	VIS		
RC	FM-86A	K-4	RC9-2501R	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      29 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-G-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : B6.230

ITEM DESCRIPTION : VALVE NUTS,BUSHINGS, AND WASHERS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	E-2	RC1-2501R	VIS		
RC	FM-86A	C-4	RC3-2501R	VIS		
RC	FM-86A	F-5	RC4-2501R	VIS		
RC	FM-86A	C-8	RC6-2501R	VIS		
RC	FM-86A	H-2	RC7-2501R	VIS		
RC	FM-86A	K-4	RC9-2501R	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE          30 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.10

ITEM DESCRIPTION : REACTOR VESSEL BOLTS, STUDS, AND NUTS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      31 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.20

ITEM DESCRIPTION : PRESSURIZER BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	G-6	1RCE2	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      32 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*
*****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.30

ITEM DESCRIPTION : STEAM GENERATOR BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-1	IRCE1A	VIS		
RC	FM-86A	C-6	IRCE1B	VIS		
RC	FM-86A	J-1	IRCE1C	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE          33 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.50

ITEM DESCRIPTION : PIPING BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	G-6	CH93-1502	VIS		
CH	FM-88C	D-6	CH95-1502	VIS		
CH	FM-88C	A-6	CH97-1502	VIS		
RC	FM-86A	I-5	RC105-1502	VIS		
RC	FM-86A	B-8	RC115-1502	VIS		
RC	FM-86A	B-7	RC116-1502	VIS		
RC	FM-86A	C-8	RC117-1502	VIS		
RC	FM-86A	B-3	RC129-1502	VIS		
RC	FM-86A	B-2	RC131-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      34 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.50

ITEM DESCRIPTION : PIPING BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	C-3	RC132-1502	VIS		
RC	FM-86A	K-3	RC146-1502	VIS		
RC	FM-86A	K-2	RC147-1502	VIS		
RC	FM-86A	J-3	RC148-1502	VIS		
RC	FM-86A	I-3	RC44-1502	VIS		
RC	FM-86A	E-3	RC45-1502	VIS		
RC	FM-86A	E-8	RC46-1502	VIS		
RC	FM-86B	H-5	RC37-1502	VIS		
RC	FM-86B	G-5	RC38-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE          35 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.50

ITEM DESCRIPTION : PIPING BOLTS, STUDS, AND NUTS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-5	RC39-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY B-G-2 PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	E-2	CH1-1502	VIS		
CH	FM-88C	H-4	CH10-1503	VIS		
CH	FM-88C	E-2	CH5-1502	VIS		
CH	FM-88C	E-2	CH68-1502	VIS		
CH	FM-88C	B-3	CH8-1503	VIS		
CH	FM-88C	G-6	CH93-1502	VIS		
CH	FM-88C	D-6	CH95-1502	VIS		
CH	FM-88C	A-6	CH97-1502	VIS		
RC	FM-86A	I-5	RC105-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          37 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	D-2	RC11-2501R	VIS		
RC	FM-86A	A-8	RC112-1502	VIS		
RC	FM-86A	B-7	RC116-1502	VIS		
RC	FM-86A	C-8	RC117-1502	VIS		
RC	FM-86A	D-7	RC12-2501R	VIS		
RC	FM-86A	A-2	RC125-1502	VIS		
RC	FM-86A	B-3	RC129-1502	VIS		
RC	FM-86A	I-4	RC13-2501R	VIS		
RC	FM-86A	B-2	RC131-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      38 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	C-3	RC132-1502	VIS		
RC	FM-86A	C-2	RC139-1502	VIS		
RC	FM-86A	L-2	RC141-1502	VIS		
RC	FM-86A	K-3	RC146-1502	VIS		
RC	FM-86A	K-2	RC147-1502	VIS		
RC	FM-86A	J-3	RC148-1502	VIS		
RC	FM-86A	J-2	RC153-1502	VIS		
RC	FM-86A	A-2	RC198-1502	VIS		
RC	FM-86A	A-6	RC199-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 39
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY B-G-2 PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	L-2	RC200-1502	VIS		
RC	FM-86A	I-3	RC44-1502	VIS		
RC	FM-86A	E-3	RC45-1502	VIS		
RC	FM-86A	E-8	RC46-1502	VIS		
RC	FM-86A	C-2	RC53-1502	VIS		
RC	FM-86A	B-2	RC55-1502	VIS		
RC	FM-86A	B-6	RC56-1502	VIS		
RC	FM-86A	C-5	RC57-1502	VIS		
RC	FM-86A	I-1	RC58-1502	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          40 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	K-4	RC59-1502	VIS		
RC	FM-86A	A-7	RC60-1502	VIS		
RC	FM-86B	F-7	RC14-1502	VIS		
RC	FM-86B	F-5	RC15-1502	VIS		
RC	FM-86B	I-5	RC35-1502	VIS		
RC	FM-86B	H-5	RC37-1502	VIS		
RC	FM-86B	G-5	RC38-1502	VIS		
RC	FM-86B	G-5	RC39-1502	VIS		
RC	FM-86B	H-5	RC61-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      41 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-G-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	L-5	RH16-1502	VIS		
RHR	FM-87A	D-7	RH18-602	VIS		
RHR	FM-87A	J-5	RH23-602	VIS		
SI	FM-89B	B-1	SI144-1502	VIS		
SI	FM-89B	B-5	SI145-1502	VIS		
SI	FM-89B	B-2	SI153-1502	VIS		
SI	FM-89B	B-5	SI45-1502	VIS		
SI	FM-89B	C-7	SI46-1502	VIS		
SI	FM-89B	B-8	SI47-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      42 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-6-2  PRESSURE RETAINING BOLTING, TWO INCHES AND LESS IN DIAMETER
*
*****

```

ITEM NUMBER : B7.70

ITEM DESCRIPTION : VALVE BOLTS, STUDS, AND NUTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-2	SI48-1502	VIS		
SI	FM-89B	B-2	SI49-1502	VIS		
SI	FM-89B	B-3	SI50-1502	VIS		
SI	FM-89B	C-1	SI74-1502	VIS		
SI	FM-89B	D-2	SI75-1502	VIS		
SI	FM-89B	D-1	SI85-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      43 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*
*****
* CATEGORY B-H      INTEGRAL ATTACHMENTS FOR VESSELS
*
*****

```

ITEM NUMBER : B8.10

ITEM DESCRIPTION : RV INTEGRALLY WELDED ATTACHMENTS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          44 *
*                               * REVISION  0003 *
*                               * DATE   86/10/20 *
*
*****
* CATEGORY B-H      INTEGRAL ATTACHMENTS FOR VESSELS
*
*****

```

ITEM NUMBER : B8.20

ITEM DESCRIPTION : PZR INTEGRALLY WELDED ATTACHMENTS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	6-6	1RCE2	VOL		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE          45 *
*                * REVISION    0003 *
*                * DATE    86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	H-5	CH122-152	SUR VOL		
CH	FM-88C	A-6	CH14-1502	SUR VOL		
CH	FM-88C	D-6	CH15-1502	SUR VOL		
CH	FM-88C	E-5	CH16-1502	SUR VOL		
CH	FM-88C	C-4	CH214-152	SUR VOL		
CH	FM-88C	D-5	CH215-152	SUR VOL		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 46 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY B-J PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	6-5	CH216-152	SUR VOL		
CH	FM-88C	6-4	CH99-152	SUR VOL		
RC	FM-86A	E-2	RC1-2501R	SUR VOL		
RC	FM-86A	D-2	RC11-2501R	SUR VOL		
RC	FM-86A	D-7	RC12-2501R	SUR VOL		
RC	FM-86A	I-4	RC13-2501R	SUR VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          47 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-2	RC16-1502	SUR VOL		
RC	FM-86A	E-4	RC17-1502	SUR VOL		
RC	FM-86A	E-6	RC18-1502	SUR VOL		
RC	FM-86A	E-7	RC19-1502	SUR VOL		
RC	FM-86A	B-2	RC2-2501R	SUR VOL		
RC	FM-86A	H-4	RC20-1502	SUR VOL		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY B-J PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.11
ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	H-2	RC21-1502	SUR VOL		
RC	FM-86A	E-5	RC22-1502	SUR VOL		
RC	FM-86A	E-8	RC23-1502	SUR VOL		
RC	FM-86A	H-4	RC24-1502	SUR VOL		
RC	FM-86A	C-4	RC3-2501R	SUR VOL		
RC	FM-86A	F-5	RC4-2501R	SUR VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      49 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-6	RC5-2501R	SUR VOL		
RC	FM-86A	C-8	RC6-2501R	SUR VOL		
RC	FM-86A	H-2	RC7-2501R	SUR VOL		
RC	FM-86A	K-2	RC8-2501R	SUR VOL		
RC	FM-86A	K-4	RC9-2501R	SUR VOL		
RC	FM-86B	G-8	RC10-2501R	SUR VOL		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY B-J PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	F-5	RC15-1502	SUR VOL		
RC	FM-86B	H-5	RC34-1502	SUR VOL		
RC	FM-86B	H-5	RC37-1502	SUR VOL		
RC	FM-86B	G-5	RC38-1502	SUR VOL		
RC	FM-86B	G-5	RC39-1502	SUR VOL		
RHR	FM-87A	I-7	RH1-1502	SUR VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      51 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	L-5	RH16-1502	SUR VOL		
RHR	FM-87A	J-5	RH23-602	SUR VOL		
SI	FM-86A	E-6	SI48-1502	SUR VOL		
SI	FM-89B	B-1	SI144-1502	SUR VOL		
SI	FM-89B	B-5	SI145-1502	SUR VOL		
SI	FM-89B	B-2	SI153-1502	SUR VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      52 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.11

ITEM DESCRIPTION : CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-5	SI45-1502	SUR VOL		
SI	FM-89B	C-7	SI46-1502	SUR VOL		
SI	FM-89B	B-8	SI47-1502	SUR VOL		
SI	FM-89B	B-2	SI49-1502	SUR VOL		
SI	FM-89B	B-3	SI50-1502	SUR VOL		
SI	FM-89B	C-1	SI74-1502	SUR VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      53 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.12

ITEM DESCRIPTION : LONGITUDINAL WELDS IN PIPING

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	B-2	RC2-2501R	SUR VOL	SR-009	
RC	FM-86A	B-6	RC5-2501R	SUR VOL	SR-009	
RC	FM-86A	K-2	RC8-2501R	SUR VOL	SR-009	

Foot
↑

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION UNIT 1

INSERVICE INSPECTION PROGRAM

INTERVAL 2

DECEMBER 22, 1982 - DECEMBER 22, 1992

REVISION 3

John R. Smith

COPY NO: _____

ASSIGNED TO: _____

CONTROLLED: YES NO

DATE: MARCH 1986

Head
↓




```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*
*
*****
* 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 (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	E-2	CH1-1502	SUR		
RC	FM-86A	B-7	RC116-1502	SUR		
RC	FM-86A	B-2	RC131-1502	SUR		
RC	FM-86A	C-3	RC132-1502	SUR		
RC	FM-86A	K-2	RC147-1502	SUR		
RC	FM-86A	J-3	RC148-1502	SUR		
RC	FM-86B	F-7	RC14-1502	SUR		
RC	FM-86B	I-5	RC35-1502	SUR		
RC	FM-86B	H-5	RC61-1502	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      55 *
*               * REVISION 0003 *
*               * 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 (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	C-1	SI74-1502	SUR		
SI	FM-89B	D-2	SI75-1502	SUR		
SI	FM-89B	D-1	SI85-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          56 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : 89.31

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	E-2	CH1-1502	SUR VOL	SR-003	
RC	FM-86A	B-7	RC116-1502	SUR VOL	SR-003	
RC	FM-86A	B-2	RC131-1502	SUR VOL	SR-003	
RC	FM-86A	K-2	RC147-1502	SUR VOL	SR-003	
RC	FM-86A	E-2	RC16-1502	SUR VOL	SR-003	
RC	FM-86A	E-4	RC17-1502	SUR VOL	SR-003	

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      57 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.31

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-6	RC18-1502	SUR VOL	SR-003	
RC	FM-86A	E-7	RC19-1502	SUR VOL	SR-003	
RC	FM-86A	H-4	RC20-1502	SUR VOL	SR-003	
RC	FM-86A	H-2	RC21-1502	SUR VOL	SR-003	
RC	FM-86A	E-5	RC22-1502	SUR VOL	SR-003	
RC	FM-86A	E-8	RC23-1502	SUR VOL	SR-003	

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE          58 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.31

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	H-4	RC24-1502	SUR VOL	SR-003	
RC	FM-86B	G-8	RC10-2501R	SUR VOL	SR-003	
RC	FM-86B	F-7	RC14-1502	SUR VOL	SR-003	
RC	FM-86B	F-5	RC15-1502	SUR VOL	SR-003	
RC	FM-86B	I-5	RC35-1502	SUR VOL	SR-003	
RHR	FM-87A	I-7	RH1-1502	SUR VOL	SR-003	

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      59 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.32

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	E-2	CH5-1502	SUR		
CH	FM-88C	E-2	CH68-1502	SUR		
RC	FM-86A	I-5	RC105-1502	SUR		
RC	FM-86A	B-8	RC115-1502	SUR		
RC	FM-86A	C-8	RC121-1502	SUR		
RC	FM-86A	A-2	RC125-1502	SUR		
RC	FM-86A	B-3	RC129-1502	SUR		
RC	FM-86A	L-2	RC141-1502	SUR		
RC	FM-86A	K-3	RC146-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      60 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.32

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-2	RC198-1502	SUR		
RC	FM-86A	A-6	RC199-1502	SUR		
RC	FM-86A	L-2	RC200-1502	SUR		
RC	FM-86A	I-3	RC44-1502	SUR		
RC	FM-86A	E-3	RC45-1502	SUR		
RC	FM-86A	E-8	RC46-1502	SUR		
RC	FM-86A	C-2	RC53-1502	SUR		
RC	FM-86A	B-2	RC55-1502	SUR		
RC	FM-86A	B-6	RC56-1502	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      61 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.32

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	C-5	RC57-1502	SUR		
RC	FM-86A	I-1	RC58-1502	SUR		
RC	FM-86A	K-4	RC59-1502	SUR		
RC	FM-86A	A-7	RC60-1502	SUR		


```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      62 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	H-4	CH10-1503	SUR		
CH	FM-88C	E-2	CH5-1502	SUR		
CH	FM-88C	E-2	CH68-1502	SUR		
CH	FM-88C	B-3	CH8-1503	SUR		
CH	FM-88C	F-4	CH9-1503	SUR		
CH	FM-88C	G-6	CH93-1502	SUR		
CH	FM-88C	D-6	CH95-1502	SUR		
CH	FM-88C	A-6	CH97-1502	SUR		
RC	FM-86A	I-5	RC105-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          63 *
*                               * REVISION    0003 *
*                               * DATE      86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-8	RC112-1502	SUR		
RC	FM-86A	B-8	RC115-1502	SUR		
RC	FM-86A	C-8	RC121-1502	SUR		
RC	FM-86A	A-2	RC125-1502	SUR		
RC	FM-86A	B-3	RC129-1502	SUR		
RC	FM-86A	C-3	RC132-1502	SUR		
RC	FM-86A	C-2	RC139-1502	SUR		
RC	FM-86A	L-2	RC141-1502	SUR		
RC	FM-86A	K-3	RC146-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          64 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	J-3	RC148-1502	SUR		
RC	FM-86A	J-2	RC153-1502	SUR		
RC	FM-86A	A-2	RC198-1502	SUR		
RC	FM-86A	A-6	RC199-1502	SUR		
RC	FM-86A	L-2	RC200-1502	SUR		
RC	FM-86A	I-3	RC44-1502	SUR		
RC	FM-86A	E-3	RC45-1502	SUR		
RC	FM-86A	E-8	RC46-1502	SUR		
RC	FM-86A	C-2	RC53-1502	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      65 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-J    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-2	RC55-1502	SUR		
RC	FM-86A	B-6	RC56-1502	SUR		
RC	FM-86A	C-5	RC57-1502	SUR		
RC	FM-86A	I-1	RC58-1502	SUR		
RC	FM-86A	K-4	RC59-1502	SUR		
RC	FM-86A	A-7	RC60-1502	SUR		
RC	FM-86B	I-5	RC35-1502	SUR		
RC	FM-86B	H-5	RC61-1502	SUR		
SI	FM-89B	C-1	SI74-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          66 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-J      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : B9.40

ITEM DESCRIPTION : PIPE SOCKET WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	D-2	SI75-1502	SUR		
SI	FM-89B	D-1	SI85-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      67 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : B10.10
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	E-2	CH1-1502	SUR		
CH	FM-88C	H-4	CH10-1503	SUR		
CH	FM-88C	G-4	CH216-152	SUR		
CH	FM-88C	E-2	CH5-1502	SUR		
CH	FM-88C	E-2	CH68-1502	SUR		
CH	FM-88C	B-3	CH8-1503	SUR		
CH	FM-88C	F-4	CH9-1503	SUR		
RC	FM-86A	B-7	RC116-1502	SUR		
RC	FM-86A	B-2	RC131-1502	SUR		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE          68 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : B10.10

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-3	RC132-1502	SUR		
RC	FM-86A	K-3	RC146-1502	SUR		
RC	FM-86A	K-2	RC147-1502	SUR		
RC	FM-86A	H-4	RC20-1502	SUR		
RC	FM-86A	E-5	RC22-1502	SUR		
RC	FM-86A	H-4	RC24-1502	SUR		
RC	FM-86A	C-2	RC53-1502	SUR		
RC	FM-86A	I-1	RC58-1502	SUR		
RC	FM-86A	K-4	RC59-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      69 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : B10.10
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	G-8	RC10-2501R	SUR		
RC	FM-86B	F-7	RC14-1502	SUR		
RC	FM-86B	F-5	RC15-1502	SUR		
RC	FM-86B	H-5	RC34-1502	SUR		
RC	FM-86B	I-5	RC35-1502	SUR		
RC	FM-86B	E-4	RC36-602	SUR		
RC	FM-86B	H-5	RC61-1502	SUR		
RC	FM-86B	J-4	RC62-602	SUR		
RHR	FM-87A	I-7	RH1-1502	SUR		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*
*
*****
* CATEGORY B-K-1 INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : B10.10

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	L-5	RH16-1502	SUR		
RHR	FM-87A	L-5	RH17-1502	SUR		
RHR	FM-87A	D-7	RH18-602	SUR		
RHR	FM-87A	J-5	RH23-602	SUR		
SI	FM-89B	B-5	SI145-1502	SUR		
SI	FM-89B	B-2	SI153-1502	SUR		
SI	FM-89B	B-5	SI45-1502	SUR		
SI	FM-89B	C-7	SI46-1502	SUR		
SI	FM-89B	B-8	SI47-1502	SUR		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* 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 (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	1RCPIA	SUR		
RC	FM-86A	A-6	1RCPIB	SUR		
RC	FM-86A	L-1	1RCPIC	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          72 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-L-2. PUMP CASINGS
*
*****

```

ITEM NUMBER : B12.10

ITEM DESCRIPTION : PUMP CASING WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	1RCPIA	VOL		
RC	FM-86A	A-6	1RCPIB	VOL		
RC	FM-86A	L-1	1RCPIC	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      73 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-L-2  PUMP CASINGS
*
*****

```

```

ITEM NUMBER      : B12.20
ITEM DESCRIPTION : PUMP CASING

```

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	1RCPIA	VIS		
RC	FM-86A	A-6	1RCPIB	VIS		
RC	FM-86A	L-1	1RCPIC	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      74 *
*                               * REVISION 0003 *
*                               * 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 (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	E-2	RC1-2501R	VIS	SR-001	
RC	FM-86A	D-2	RC11-2501R	VIS	SR-001	
RC	FM-86A	D-7	RC12-2501R	VIS	SR-001	
RC	FM-86A	I-4	RC13-2501R	VIS	SR-001	
RC	FM-86A	E-5	RC22-1502	VIS	SR-001	
RC	FM-86A	E-8	RC23-1502	VIS	SR-001	
RC	FM-86A	H-4	RC24-1502	VIS	SR-001	
RC	FM-86A	C-4	RC3-2501R	VIS	SR-001	
RC	FM-86A	F-5	RC4-2501R	VIS	SR-001	

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          75 *
*                               * REVISION 0003 *
*                               * 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 (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-8	RC6-2501R	VIS	SR-001	
RC	FM-86A	H-2	RC7-2501R	VIS	SR-001	
RC	FM-86A	K-4	RC9-2501R	VIS	SR-001	
RC	FM-86B	H-5	RC37-1502	VIS	SR-001	
RC	FM-86B	G-5	RC38-1502	VIS	SR-001	
RC	FM-86B	G-5	RC39-1502	VIS	SR-001	
RHR	FM-87A	I-7	RH1-1502	VIS	SR-001	
RHR	FM-87A	L-5	RH16-1502	VIS	SR-001	
RHR	FM-87A	J-5	RH23-602	VIS	SR-001	

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      76 *
*               * REVISION 0003 *
*               * 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 (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-86A	E-7	RC19-1502	VIS	SR-001	
SI	FM-86A	H-4	RC20-1502	VIS	SR-001	
SI	FM-86A	H-2	RC21-1502	VIS	SR-001	
SI	FM-89B	B-1	SI144-1502	VIS	SR-001	
SI	FM-89B	B-5	SI145-1502	VIS	SR-001	
SI	FM-89B	B-2	SI153-1502	VIS	SR-001	
SI	FM-89B	B-5	SI45-1502	VIS	SR-001	
SI	FM-89B	C-7	SI46-1502	VIS	SR-001	
SI	FM-89B	B-8	SI47-1502	VIS	SR-001	

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      77 *
*               * REVISION 0003 *
*               * 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 (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-2	SI48-1502	VIS	SR-001	
SI	FM-89B	B-2	SI49-1502	VIS	SR-001	
SI	FM-89B	B-3	SI50-1502	VIS	SR-001	


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          78 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY B-N-1  INTERIOR OF REACTOR VESSELS
*
*****

```

ITEM NUMBER : B13.10

ITEM DESCRIPTION : RV VESSEL INTERIOR

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RPV	FM-86A	F-5	1RCR1	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 79
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY B-N-3 REMOVABLE CORE SUPPORT STRUCTURES
*
*****

```

ITEM NUMBER : B13.30

ITEM DESCRIPTION : RV CORE SUPPORT STRUCTURE (PWR)

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RPV	FM-86A	F-5	IRCR1	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      80 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-0    PRESSURE RETAINING WELDS IN CONTROL ROD DRIVE HOUSINGS
*
*****

```

ITEM NUMBER : B14.10

ITEM DESCRIPTION : RV WELDS IN CRD HOUSING

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      81 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.10

ITEM DESCRIPTION : RV PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      82 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.11

ITEM DESCRIPTION : RV PRESSURE RETAINING BOUNDARY-HYDROSTATIC

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	F-5	1RCR1	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      83 *
*                               * REVISION 0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.20

ITEM DESCRIPTION : PZR PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-6	1RCE2	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      84 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.21

ITEM DESCRIPTION : PZR PRESSURE RETAINING BOUNDARY-HYDROSTATIC

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	6-6	1RCE2	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      85 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	E-2	CH1-1502	VIS		
CH	FM-88C	H-4	CH10-1503	VIS		
CH	FM-88C	D-5	CH103-1502	VIS		
CH	FM-88C	C-6	CH105-1502	VIS		
CH	FM-88C	G-6	CH106-1502	VIS		
CH	FM-88C	F-6	CH108-1502	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      86 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	I-6	CH109-1502	VIS		
CH	FM-88C	I-6	CH111-1502	VIS		
CH	FM-88C	D-5	CH15-1502	VIS		
CH	FM-88C	B-7	CH261-1502	VIS		
CH	FM-88C	B-7	CH262-1502	VIS		
CH	FM-88C	E-7	CH263-1502	VIS		
CH	FM-88C	E-7	CH264-1502	VIS		
CH	FM-88C	H-7	CH265-1502	VIS		
CH	FM-88C	H-7	CH266-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      87 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	E-2	CH5-1502	VIS		
CH	FM-88C	B-3	CH8-1503	VIS		
CH	FM-88C	F-4	CH9-1503	VIS		
CH	FM-88C	G-6	CH93-1502	VIS		
CH	FM-88C	D-6	CH95-1502	VIS		
CH	FM-88C	A-6	CH97-1502	VIS		
RC	FM-86A	E-2	RC1-2501R	VIS		
RC	FM-86A	K-1	RC100-1502	VIS		
RC	FM-86A	K-1	RC101-1502	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      88 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	K-1	RC102-1502	VIS		
RC	FM-86A	J-2	RC103-1502	VIS		
RC	FM-86A	I-5	RC105-1502	VIS		
RC	FM-86A	I-5	RC106-1502	VIS		
RC	FM-86A	D-2	RC11-2501R	VIS		
RC	FM-86A	A-8	RC112-1502	VIS		
RC	FM-86A	A-8	RC113-2501R	VIS		
RC	FM-86A	A-8	RC114-1502	VIS		
RC	FM-86A	B-8	RC115-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      89 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	B-7	RC116-1502	VIS		
RC	FM-86A	C-8	RC117-1502	VIS		
RC	FM-86A	C-7	RC118-1502	VIS		
RC	FM-86A	C-8	RC119-2501R	VIS		
RC	FM-86A	D-7	RC12-2501R	VIS		
RC	FM-86A	D-8	RC120-1502	VIS		
RC	FM-86A	C-7	RC121-1502	VIS		
RC	FM-86A	C-7	RC122-1502	VIS		
RC	FM-86A	C-7	RC123-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          90 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-6	RC124-1502	VIS		
RC	FM-86A	A-2	RC125-1502	VIS		
RC	FM-86A	B-4	RC126-1502	VIS		
RC	FM-86A	A-3	RC127-1502	VIS		
RC	FM-86A	B-3	RC128-2501R	VIS		
RC	FM-86A	B-3	RC129-1502	VIS		
RC	FM-86A	I-4	RC13-2501R	VIS		
RC	FM-86A	A-4	RC130-1502	VIS		
RC	FM-86A	B-2	RC131-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 91 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-3	RC132-1502	VIS		
RC	FM-86A	C-4	RC133-2501R	VIS		
RC	FM-86A	C-3	RC134-1502	VIS		
RC	FM-86A	D-3	RC135-1502	VIS		
RC	FM-86A	C-2	RC136-1502	VIS		
RC	FM-86A	C-2	RC137-1502	VIS		
RC	FM-86A	C-2	RC138-1502	VIS		
RC	FM-86A	C-2	RC139-1502	VIS		
RC	FM-86A	A-8	RC140-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          92 *
*                               * REVISION    0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	L-2	RC141-1502	VIS		
RC	FM-86A	K-3	RC142-1502	VIS		
RC	FM-86A	L-3	RC143-1502	VIS		
RC	FM-86A	K-3	RC144-2501R	VIS		
RC	FM-86A	K-3	RC145-1502	VIS		
RC	FM-86A	K-3	RC146-1502	VIS		
RC	FM-86A	K-2	RC147-1502	VIS		
RC	FM-86A	J-3	RC148-1502	VIS		
RC	FM-86A	J-3	RC149-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          93 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	J-3	RC151-2501R	VIS		
RC	FM-86A	J-4	RC152-1502	VIS		
RC	FM-86A	J-2	RC153-1502	VIS		
RC	FM-86A	J-2	RC154-1502	VIS		
RC	FM-86A	J-2	RC155-1502	VIS		
RC	FM-86A	J-2	RC156-1502	VIS		
RC	FM-86A	E-2	RC16-1502	VIS		
RC	FM-86A	J-4	RC161-1502	VIS		
RC	FM-86A	H-3	RC162-1502	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          94 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	I-2	RC163-1502	VIS		
RC	FM-86A	D-2	RC165-1502	VIS		
RC	FM-86A	E-6	RC166-1502	VIS		
RC	FM-86A	E-4	RC17-1502	VIS		
RC	FM-86A	D-6	RC172-1502	VIS		
RC	FM-86A	G-5	RC173-1502	VIS		
RC	FM-86A	E-6	RC18-1502	VIS		
RC	FM-86A	E-7	RC19-1502	VIS		
RC	FM-86A	A-2	RC198-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS
*
*****

```

```

ITEM NUMBER : B15.50
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

```

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-6	RC199-1502	VIS		
RC	FM-86A	B-2	RC2-2501R	VIS		
RC	FM-86A	H-4	RC20-1502	VIS		
RC	FM-86A	L-2	RC200-1502	VIS		
RC	FM-86A	H-2	RC21-1502	VIS		
RC	FM-86A	E-5	RC22-1502	VIS		
RC	FM-86A	E-8	RC23-1502	VIS		
RC	FM-86A	H-4	RC24-1502	VIS		
RC	FM-86A	C-4	RC3-2501R	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      96 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	F-5	RC4-2501R	VIS		
RC	FM-86A	I-3	RC44-1502	VIS		
RC	FM-86A	E-3	RC45-1502	VIS		
RC	FM-86A	E-8	RC46-1502	VIS		
RC	FM-86A	E-2	RC47-1502	VIS		
RC	FM-86A	E-7	RC48-1502	VIS		
RC	FM-86A	H-2	RC49-1502	VIS		
RC	FM-86A	B-6	RC5-2501R	VIS		
RC	FM-86A	C-2	RC53-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      97 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : 815.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-2	RC55-1502	VIS		
RC	FM-86A	B-6	RC56-1502	VIS		
RC	FM-86A	C-5	RC57-1502	VIS		
RC	FM-86A	I-1	RC58-1502	VIS		
RC	FM-86A	K-4	RC59-1502	VIS		
RC	FM-86A	C-8	RC6-2501R	VIS		
RC	FM-86A	A-7	RC60-1502	VIS		
RC	FM-86A	D-3	RC63-1502	VIS		
RC	FM-86A	D-8	RC64-1502	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE          98 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	I-3	RC65-1502	VIS		
RC	FM-86A	H-2	RC7-2501R	VIS		
RC	FM-86A	K-2	RC8-2501R	VIS		
RC	FM-86A	K-4	RC9-2501R	VIS		
RC	FM-86A	B-1	RC92-1502	VIS		
RC	FM-86A	B-1	RC93-1502	VIS		
RC	FM-86A	B-1	RC94-1502	VIS		
RC	FM-86A	C-2	RC95-1502	VIS		
RC	FM-86A	B-6	RC96-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          99 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-6	RC97-1502	VIS		
RC	FM-86A	B-6	RC98-1502	VIS		
RC	FM-86A	C-6	RC99-1502	VIS		
RC	FM-86B	G-8	RC10-2501R	VIS		
RC	FM-86B	F-7	RC14-1502	VIS		
RC	FM-86B	F-5	RC15-1502	VIS		
RC	FM-86B	F-6	RC225-1502	VIS		
RC	FM-86B	F-7	RC226-1502	VIS		
RC	FM-86B	G-6	RC227-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      100 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86B	G-6	RC228-1502	VIS		
RC	FM-86B	H-6	RC229-1502	VIS		
RC	FM-86B	H-6	RC230-1502	VIS		
RC	FM-86B	F-4	RC25-1502	VIS		
RC	FM-86B	G-4	RC26-1502	VIS		
RC	FM-86B	G-4	RC27-1502	VIS		
RC	FM-86B	H-5	RC34-1502	VIS		
RC	FM-86B	H-5	RC37-1502	VIS		
RC	FM-86B	G-5	RC38-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      101 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	G-5	RC39-1502	VIS		
RC	FM-86B	H-6	RC50-1502	VIS		
RC	FM-86B	I-5	RC51-1502	VIS		
RC	FM-86B	H-5	RC61-1502	VIS		
RC	FM-86B	D-5	RC66-1502	VIS		
RC	FM-86B	F-5	RC67-1502	VIS		
RHR	FM-87A	I-7	RH1-1502	VIS		
RHR	FM-87A	L-5	RH16-1502	VIS		
RHR	FM-87A	L-5	RH17-1502	VIS		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* PAGE 102
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-6	SI39-1502	VIS		
SI	FM-89B	E-7	SI40-1502	VIS		
SI	FM-89B	B-8	SI41-1502	VIS		
SS	FM-82B	C-1	SS1-ICN9	VIS		
SS	FM-82B	C-2	SS100-ICN9	VIS		
SS	FM-82B	C-2	SS101-ICN9	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      103 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.50

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SS	FM-82B	C-2	SS102-ICN9	VIS		
SS	FM-82B	C-2	SS103-ICN9	VIS		
SS	FM-82B	C-1	SS2-ICN9	VIS		
SS	FM-82B	C-2	SS3-ICN9	VIS		
SS	FM-82B	C-2	SS4-ICN9	VIS		
SS	FM-82B	C-2	SS5-ICN9	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      104 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	E-2	CH1-1502	VIS		
CH	FM-88C	H-4	CH10-1503	VIS		
CH	FM-88C	D-5	CH103-1502	VIS		
CH	FM-88C	C-6	CH105-1502	VIS		
CH	FM-88C	G-6	CH106-1502	VIS		
CH	FM-88C	F-6	CH108-1502	VIS		
CH	FM-88C	I-6	CH109-1502	VIS		
CH	FM-88C	I-6	CH111-1502	VIS		
CH	FM-88C	D-5	CH15-1502	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      105 *
*                * REVISION  0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	B-7	CH261-1502	VIS		
CH	FM-88C	B-7	CH262-1502	VIS		
CH	FM-88C	E-7	CH263-1502	VIS		
CH	FM-88C	E-7	CH264-1502	VIS		
CH	FM-88C	H-7	CH265-1502	VIS		
CH	FM-88C	H-7	CH266-1502	VIS		
CH	FM-88C	E-2	CH5-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      106 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	B-3	CH8-1503	VIS		
CH	FM-88C	F-4	CH9-1503	VIS		
CH	FM-88C	G-6	CH93-1502	VIS		
CH	FM-88C	D-6	CH95-1502	VIS		
CH	FM-88C	A-6	CH97-1502	VIS		
RC	FM-86A	E-2	RC1-2501R	VIS		
RC	FM-86A	K-1	RC100-1502	VIS		
RC	FM-86A	K-1	RC101-1502	VIS		
RC	FM-86A	K-1	RC102-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      107 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	J-2	RC103-1502	VIS		
RC	FM-86A	I-5	RC105-1502	VIS		
RC	FM-86A	I-5	RC106-1502	VIS		
RC	FM-86A	D-2	RC11-2501R	VIS		
RC	FM-86A	A-8	RC112-1502	VIS		
RC	FM-86A	A-8	RC113-2501R	VIS		
RC	FM-86A	A-8	RC114-1502	VIS		
RC	FM-86A	B-8	RC115-1502	VIS		
RC	FM-86A	B-7	RC116-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      108 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	C-8	RC117-1502	VIS		
RC	FM-86A	C-7	RC118-1502	VIS		
RC	FM-86A	C-8	RC119-2501R	VIS		
RC	FM-86A	D-7	RC12-2501R	VIS		
RC	FM-86A	D-8	RC120-1502	VIS		
RC	FM-86A	C-7	RC121-1502	VIS		
RC	FM-86A	C-7	RC122-1502	VIS		
RC	FM-86A	C-7	RC123-1502	VIS		
RC	FM-86A	C-6	RC124-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-2	RC125-1502	VIS		
RC	FM-86A	B-4	RC126-1502	VIS		
RC	FM-86A	A-3	RC127-1502	VIS		
RC	FM-86A	B-3	RC128-2501R	VIS		
RC	FM-86A	B-3	RC129-1502	VIS		
RC	FM-86A	I-4	RC13-2501R	VIS		
RC	FM-86A	A-4	RC130-1502	VIS		
RC	FM-86A	B-2	RC131-1502	VIS		
RC	FM-86A	C-3	RC132-1502	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      110 *
*                               * REVISION  0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	C-4	RC133-2501R	VIS		
RC	FM-86A	C-3	RC134-1502	VIS		
RC	FM-86A	D-3	RC135-1502	VIS		
RC	FM-86A	C-2	RC136-1502	VIS		
RC	FM-86A	C-2	RC137-1502	VIS		
RC	FM-86A	C-2	RC138-1502	VIS		
RC	FM-86A	C-2	RC139-1502	VIS		
RC	FM-86A	A-8	RC140-1502	VIS		
RC	FM-86A	L-2	RC141-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      111 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	K-3	RC142-1502	VIS		
RC	FM-86A	L-3	RC143-1502	VIS		
RC	FM-86A	K-3	RC144-2501R	VIS		
RC	FM-86A	K-3	RC145-1502	VIS		
RC	FM-86A	K-3	RC146-1502	VIS		
RC	FM-86A	K-2	RC147-1502	VIS		
RC	FM-86A	J-3	RC148-1502	VIS		
RC	FM-86A	J-3	RC149-1502	VIS		
RC	FM-86A	J-3	RC151-2501R	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      112 *
*               * REVISION  0003 *
*               * DATE    86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	J-4	RC152-1502	VIS		
RC	FM-86A	J-2	RC153-1502	VIS		
RC	FM-86A	J-2	RC154-1502	VIS		
RC	FM-86A	J-2	RC155-1502	VIS		
RC	FM-86A	J-2	RC156-1502	VIS		
RC	FM-86A	E-2	RC16-1502	VIS		
RC	FM-86A	J-4	RC161-1502	VIS		
RC	FM-86A	H-3	RC162-1502	VIS		
RC	FM-86A	I-2	RC163-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      113 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	D-2	RC165-1502	VIS		
RC	FM-86A	E-6	RC166-1502	VIS		
RC	FM-86A	E-4	RC17-1502	VIS		
RC	FM-86A	D-6	RC172-1502	VIS		
RC	FM-86A	G-5	RC173-1502	VIS		
RC	FM-86A	E-6	RC18-1502	VIS		
RC	FM-86A	E-7	RC19-1502	VIS		
RC	FM-86A	A-2	RC198-1502	VIS		
RC	FM-86A	A-6	RC199-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      114 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-2	RC2-2501R	VIS		
RC	FM-86A	H-4	RC20-1502	VIS		
RC	FM-86A	L-2	RC200-1502	VIS		
RC	FM-86A	H-2	RC21-1502	VIS		
RC	FM-86A	E-5	RC22-1502	VIS		
RC	FM-86A	E-8	RC23-1502	VIS		
RC	FM-86A	H-4	RC24-1502	VIS		
RC	FM-86A	C-4	RC3-2501R	VIS		
RC	FM-86A	F-5	RC4-2501R	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      115 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*
*****
* CATEGORY B-P   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	I-3	RC44-1502	VIS		
RC	FM-86A	E-3	RC45-1502	VIS		
RC	FM-86A	E-8	RC46-1502	VIS		
RC	FM-86A	E-2	RC47-1502	VIS		
RC	FM-86A	E-7	RC48-1502	VIS		
RC	FM-86A	H-2	RC49-1502	VIS		
RC	FM-86A	B-6	RC5-2501R	VIS		
RC	FM-86A	C-2	RC53-1502	VIS		
RC	FM-86A	B-2	RC55-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      116  *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	B-6	RC56-1502	VIS		
RC	FM-86A	C-5	RC57-1502	VIS		
RC	FM-86A	I-1	RC58-1502	VIS		
RC	FM-86A	K-4	RC59-1502	VIS		
RC	FM-86A	C-8	RC6-2501R	VIS		
RC	FM-86A	A-7	RC60-1502	VIS		
RC	FM-86A	D-3	RC63-1502	VIS		
RC	FM-86A	D-8	RC64-1502	VIS		
RC	FM-86A	I-3	RC65-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80.
*
*                               *****
*                               * PAGE      117 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	H-2	RC7-2501R	VIS		
RC	FM-86A	K-2	RC8-2501R	VIS		
RC	FM-86A	K-4	RC9-2501R	VIS		
RC	FM-86A	B-1	RC92-1502	VIS		
RC	FM-86A	B-1	RC93-1502	VIS		
RC	FM-86A	B-1	RC94-1502	VIS		
RC	FM-86A	C-2	RC95-1502	VIS		
RC	FM-86A	B-6	RC96-1502	VIS		
RC	FM-86A	B-6	RC97-1502	VIS		


```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      118 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	B-6	RC98-1502	VIS		
RC	FM-86A	C-6	RC99-1502	VIS		
RC	FM-86B	G-8	RC10-2501R	VIS		
RC	FM-86B	F-7	RC14-1502	VIS		
RC	FM-86B	F-5	RC15-1502	VIS		
RC	FM-86B	F-6	RC225-1502	VIS		
RC	FM-86B	F-7	RC226-1502	VIS		
RC	FM-86B	G-6	RC227-1502	VIS		
RC	FM-86B	G-6	RC228-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 119
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	H-6	RC229-1502	VIS		
RC	FM-86B	H-6	RC230-1502	VIS		
RC	FM-86B	F-4	RC25-1502	VIS		
RC	FM-86B	G-4	RC26-1502	VIS		
RC	FM-86B	G-4	RC27-1502	VIS		
RC	FM-86B	H-5	RC34-1502	VIS		
RC	FM-86B	H-5	RC37-1502	VIS		
RC	FM-86B	G-5	RC38-1502	VIS		
RC	FM-86B	G-5	RC39-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      120 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86B	H-6	RC50-1502	VIS		
RC	FM-86B	I-5	RC51-1502	VIS		
RC	FM-86B	H-5	RC61-1502	VIS		
RC	FM-86B	D-5	RC66-1502	VIS		
RC	FM-86B	F-5	RC67-1502	VIS		
RHR	FM-87A	I-7	RH1-1502	VIS		
RHR	FM-87A	L-5	RH16-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 121
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY B-P ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	L-5	RH17-1502	VIS		
SI	FM-89B	B-6	SI39-1502	VIS		
SI	FM-89B	E-7	SI40-1502	VIS		
SI	FM-89B	B-8	SI41-1502	VIS		
SS	FM-82B	C-1	SS1-ICN9	VIS		
SS	FM-82B	C-2	SS100-ICN9	VIS		
SS	FM-82B	C-2	SS101-ICN9	VIS		
SS	FM-82B	C-2	SS102-ICN9	VIS		
SS	FM-82B	C-2	SS103-ICN9	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      122 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.51

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SS	FM-82B	C-1	SS2-ICN9	VIS		
SS	FM-82B	C-2	SS3-ICN9	VIS		
SS	FM-82B	C-2	SS4-ICN9	VIS		
SS	FM-82B	C-2	SS5-ICN9	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      123 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY B-P      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.60

ITEM DESCRIPTION : PUMP PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	A-1	IRCPIA	VIS		
RC	FM-86A	A-6	IRCPIB	VIS		
RC	FM-86A	L-1	IRCPIC	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      124 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY B-P    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : B15.61

ITEM DESCRIPTION : PUMP PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RC	FM-86A	A-1	1RCP1A	VIS		
RC	FM-86A	A-6	1RCP1B	VIS		
RC	FM-86A	L-1	1RCP1C	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      125 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-A      PRESSURE RETAINING WELDS IN PRESSURE VESSELS
*
*****

```

ITEM NUMBER : C1.10

ITEM DESCRIPTION : PRESSURE VESSEL SHELL CIRCUMFERENTIAL WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-72A	F-4	1CHE4	VOL		
CH	FM-88B	G-3	1CHE1	VOL		
CH	FM-88B	C-2	1CHE2	VOL		
CH	FM-88B	J-1	1CHFL2	SUR	SR-004	
CH	FM-88B	E-3	1CHFL3	SUR	SR-012	
CH	FM-88B	B-6	1CHFL4A	VOL		
CH	FM-88B	B-7	1CHFL4B	VOL		
MS	FM-64A	A-2	1RCE1A	VOL		
MS	FM-64A	A-4	1RCE1B	VOL		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      126 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-A      PRESSURE RETAINING WELDS IN PRESSURE VESSELS
*
*****

```

ITEM NUMBER : C1.10

ITEM DESCRIPTION : PRESSURE VESSEL SHELL CIRCUMFERENTIAL WELDS

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	A-6	1RCE1C	VOL		
RHR	FM-87A	B-2	1RHE1A	VOL		
RHR	FM-87A	D-2	1RHE1B	VOL		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 127 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY C-A PRESSURE RETAINING WELDS IN PRESSURE VESSELS
*
*****

```

ITEM NUMBER : C1.20

ITEM DESCRIPTION : PRESSURE VESSEL HEAD CIRCUMFERENTIAL WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-72A	F-4	1CHE4	VOL		
CH	FM-88B	G-3	1CHE1	VOL		
CH	FM-88B	C-2	1CHE2	VOL		
CH	FM-88B	J-1	1CHFL2	SUR	SR-004	
CH	FM-88B	E-3	1CHFL3	SUR	SR-012	
CH	FM-88B	B-6	1CHFL4A	VOL		
CH	FM-88B	B-7	1CHFL4B	VOL		
CH	FM-88B	H-2	1CHTK2	VOL		
CH	FM-88C	F-2	1CHE3	VOL		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      128 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-A      PRESSURE RETAINING WELDS IN PRESSURE VESSELS
*
*****

```

ITEM NUMBER : C1.20

ITEM DESCRIPTION : PRESSURE VESSEL HEAD CIRCUMFERENTIAL WELDS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	A-2	1RCE1A	VOL		
MS	FM-64A	A-4	1RCE1B	VOL		
MS	FM-64A	A-6	1RCE1C	VOL		
RHR	FM-87A	B-2	1RHE1A	VOL		
RHR	FM-87A	D-2	1RHE1B	VOL		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      129 *
*                * REVISION  0003 *
*                * DATE  86/10/20 *
*                *****
* CATEGORY C-A    PRESSURE RETAINING WELDS IN PRESSURE VESSELS
*
*****

```

ITEM NUMBER : C1.30

ITEM DESCRIPTION : PRESSURE VESSEL TUBESHEET-TO-SHELL WELD

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88C	F-2	1CHE3	VOL		
MS	FM-64A	A-2	1RCE1A	VOL		
MS	FM-64A	A-4	1RCE1B	VOL		
MS	FM-64A	A-6	1RCE1C	VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      130 *
*               * REVISION  0003 *
*               * 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 (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-64A	A-2	1RCE1A	SUR VOL	SR-007	
FW	FM-64A	A-4	1RCE1B	SUR VOL	SR-007	
FW	FM-64A	A-6	1RCE1C	SUR VOL	SR-007	
MS	FM-64A	A-2	1RCE1A	SUR VOL	SR-007	
MS	FM-64A	A-4	1RCE1B	SUR VOL	SR-007	
MS	FM-64A	A-6	1RCE1C	SUR VOL	SR-007	

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      131 *
*                               * REVISION  0003 *
*                               * 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 (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	B-2	1RHE1A	SUR VIS	SR-002	
RHR	FM-87A	D-2	1RHE1B	SUR VIS	SR-002	

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY      POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      132 *
*                * REVISION  0003 *
*                * DATE  86/10/20 *
*                *****
* CATEGORY C-B      PRESSURE RETAINING NOZZLE WELDS IN VESSELS
*
*****

```

ITEM NUMBER : C2.22

ITEM DESCRIPTION : NOZZLE INSIDE RADIUS SECTIONS IN PRESSURE VESSELS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-64A	A-2	1RCE1A	VOL		
FW	FM-64A	A-4	1RCE1B	VOL		
FW	FM-64A	A-6	1RCE1C	VOL		
MS	FM-64A	A-2	1RCE1A	VOL		
MS	FM-64A	A-4	1RCE1B	VOL		
MS	FM-64A	A-6	1RCE1C	VOL		
RHR	FM-87A	B-2	1RHE1A	VIS	SR-002	
RHR	FM-87A	D-2	1RHE1B	VIS	SR-002	

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 133
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 10

ITEM DESCRIPTION : PRESSURE VESSEL INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	G-3	ICHE1	SUR		
CH	FM-88B	C-2	ICHE2	SUR		
CH	FM-88B	J-1	ICHFL2	SUR		
CH	FM-88B	E-3	ICHFL3	SUR		
CH	FM-88B	B-6	ICHFL4A	SUR		
CH	FM-88B	B-7	ICHFL4B	SUR		
CH	FM-88B	H-2	ICHTK2	SUR		
RHR	FM-87A	B-2	IRHE1A	SUR		
RHR	FM-87A	D-2	IRHE1B	SUR		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      134 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

```

ITEM NUMBER      : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

```

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
AF	FM-68A	E-6	WAPD1-601	SUR		
AF	FM-68A	C-6	WAPD10-601	SUR		
AF	FM-68A	B-5	WAPD11-601	SUR		
AF	FM-68A	B-6	WAPD12-601	SUR		
AF	FM-68A	B-6	WAPD13-601	SUR		
AF	FM-68A	B-6	WAPD14-601	SUR		
AF	FM-68A	E-6	WAPD2-601	SUR		
AF	FM-68A	C-4	WAPD9-601	SUR		
AF	FM-68B	J-6	WAPD50-601	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      135 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
AF	FM-68B	I-7	WAPD51-601	SUR		
BD	FM124A	A-2	WGCBI-601	SUR		
BD	FM124A	D-2	WGCBI05-601	SUR		
BD	FM124A	A-4	WGCBI2-601	SUR		
BD	FM124A	A-5	WGCBI3-601	SUR		
BD	FM124A	A-5	WGCBI6-601	SUR		
CC	FM-72A	E-6	CC101-151	SUR		
CC	FM-72A	L-3	CC16-121	SUR		
CC	FM-72A	G-2	CC262-151	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      136 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-C   INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	D-6	CC93-151	SUR		
CC	FM-72B	D-4	CC78-151	SUR		
CC	FM-72B	G-2	CC80-151	SUR		
CH	FM-88A	C-1	CH25-152	SUR		
CH	FM-88B	A-6	CH11-1503	SUR		
CH	FM-88B	F-6	CH113-1503	SUR		
CH	FM-88B	A-6	CH12-1503	SUR		
CH	FM-88B	H-2	CH120-152	SUR		
CH	FM-88B	A-6	CH13-1503	SUR		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 137
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	G-8	CH17-152	SUR		
CH	FM-88B	F-6	CH2-1503	SUR		
CH	FM-88B	G-2	CH23-152	SUR		
CH	FM-88B	H-6	CH3-1503	SUR		
CH	FM-88B	C-1	CH7-602	SUR		
CH	FM-88B	A-4	CH79-1503	SUR		
CH	FM-88B	B-3	CH8-1503	SUR		
CH	FM-88B	D-5	CH80-1503	SUR		
CH	FM-88B	D-6	CH81-1503	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      138 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	F-6	CH89-1503	SUR		
CH	FM-88B	B-6	CH90-1503	SUR		
CH	FM-88B	A-6	CH91-1503	SUR		
CH	FM-88B	B-3	CH99-152	SUR		
CH	FM-88B	J-2	DG26-152	SUR		
CH	FM-88C	E-2	CH1-1502	SUR		
CH	FM-88C	E-2	CH68-1502	SUR		
CH	FM-88C	G-3	CH79-1503	SUR		
CS	FM-84A	F-5	CS1-153	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      139 *
*               * REVISION  0003 *
*               * DATE    86/10/20 *
*               *****
* CATEGORY C-C    INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	C-3	CS14-152	SUR		
CS	FM-84A	F-5	CS2-153	SUR		
CS	FM-84A	J-2	CS22-153	SUR		
CS	FM-84A	B-3	CS27-153	SUR		
CS	FM-84A	J-2	CS3-153	SUR		
CS	FM-84A	G-4	CS33-153	SUR		
CS	FM-84A	H-5	CS34-153	SUR		
CS	FM-84A	G-4	CS36-153	SUR		
CS	FM-84A	J-3	CS4-153	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               * PAGE      140  *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*
*****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CS	FM-84A	G-4	CS8-153	SUR		
CS	FM-84A	E-7	CS80-153	SUR		
CS	FM-84A	D-6	CS85-153	SUR		
CS	FM-84A	K-2	CS88-153	SUR		
CS	FM-84A	D-6	CS91-153	SUR		
CS	FM-84A	I-4	CS94-153	SUR		
CS	FM-84A	J-4	CS95-153	SUR		
CS	FM-84A	C-6	CS98-153	SUR		
CV	FM-85A	G-5	CV8-151	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      141 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	D-3	WFPD13-601	SUR		
FW	FM-68A	D-2	WFPD17-601	SUR		
FW	FM-68A	D-5	WFPD9-601	SUR		
MS	FM-64A	C-2	SAE1-121	SUR		
MS	FM-64A	B-4	SAE2-121	SUR		
MS	FM-64A	C-5	SAE3-121	SUR		
MS	FM-64A	D-4	SAE37-121	SUR		
MS	FM-64A	D-4	SAE38-121	SUR		
MS	FM-64A	D-4	SAE39-121	SUR		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      142 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
*****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-4	SDHV4-121	SUR		
MS	FM-64A	E-4	SHPD16-601	SUR		
MS	FM-64A	G-7	SHPD5-601	SUR		
MS	FM-64A	E-3	SHPD6-601	SUR		
MS	FM-64A	F-3	SHPD7-601	SUR		
MS	FM-64A	F-4	SHPD8-601	SUR		
MS	FM-64A	E-3	SHP1-601	SUR		
MS	FM-64A	E-5	SHP2-601	SUR		
MS	FM-64A	B-3	SHP22-601	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      143 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-C    INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-5	SHP23-601	SUR		
MS	FM-64A	B-6	SHP24-601	SUR		
MS	FM-64A	C-8	SHP29-601	SUR		
MS	FM-64A	E-6	SHP3-601	SUR		
MS	FM-64A	C-8	SHP30-601	SUR		
MS	FM-64A	F-8	SHP31-601	SUR		
MS	FM-64A	D-2	SHP45-601	SUR		
MS	FM-64A	D-4	SHP46-601	SUR		
MS	FM-64A	D-6	SHP47-601	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      144 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-C    INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	G-8	SHP57-601	SUR		
RHR	FM-87A	D-3	RH10-602	SUR		
RHR	FM-87A	E-5	RH12-602	SUR		
RHR	FM-87A	J-4	RH15-152	SUR		
RHR	FM-87A	D-7	RH18-602	SUR		
RHR	FM-87A	E-4	RH19-602	SUR		
RHR	FM-87A	E-7	RH2-602	SUR		
RHR	FM-87A	J-3	RH20-152	SUR		
RHR	FM-87A	B-6	RH4-602	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      145 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	D-6	RH5-602	SUR		
RHR	FM-87A	C-4	RH7-602	SUR		
RHR	FM-87A	A-3	RH8-602	SUR		
RHR	FM-87A	B-3	RH9-602	SUR		
RL	FM118A	D-1	RL6-152	SUR		
RS	FM-84B	J-4	RS1-153	SUR		
RS	FM-84B	C-3	RS10-153	SUR		
RS	FM-84B	H-2	RS11-153	SUR		
RS	FM-84B	F-2	RS12-153	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      146 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	C-4	RS13-153	SUR		
RS	FM-84B	D-6	RS14-153	SUR		
RS	FM-84B	H-4	RS2-153	SUR		
RS	FM-84B	J-1	RS20-153	SUR		
RS	FM-84B	J-1	RS21-153	SUR		
RS	FM-84B	G-1	RS22-153	SUR		
RS	FM-84B	G-1	RS23-153	SUR		
RS	FM-84B	K-2	RS3-153	SUR		
RS	FM-84B	I-2	RS4-153	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      147 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-C    INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	D-4	RS9-153	SUR		
RT	FM138A	A-1	RT100-601	SUR		
RT	FM138A	E-1	RT101-153	SUR		
RT	FM138A	A-4	RT110-601	SUR		
RT	FM138A	E-4	RT111-153	SUR		
RT	FM138A	A-6	RT120-601	SUR		
RT	FM138A	D-6	RT121-153	SUR		
SI	FM-89A	F-4	SI102-152	SUR		
SI	FM-89A	E-8	SI106-153	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      148 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40
ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	I-6	SI130-152	SUR		
SI	FM-89A	G-6	SI14-153	SUR		
SI	FM-89A	B-2	SI147-1503	SUR		
SI	FM-89A	C-6	SI150-153	SUR		
SI	FM-89A	B-4	SI152-1502	SUR		
SI	FM-89A	D-6	SI17-152	SUR		
SI	FM-89A	E-4	SI170-153	SUR		
SI	FM-89A	B-3	SI48-1502	SUR		
SI	FM-89A	I-6	SI5-153	SUR		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*
*
*****
* CATEGORY C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	J-2	SI57-1503	SUR		
SI	FM-89A	H-2	SI58-1503	SUR		
SI	FM-89A	I-4	SI6-153	SUR		
SI	FM-89A	A-1	SI70-1503	SUR		
SI	FM-89A	A-3	SI72-1503	SUR		
SI	FM-89A	G-7	SI83-152	SUR		
SI	FM-89A	D-7	SI84-152	SUR		
SI	FM-89A	D-6	SI92-153	SUR		
SI	FM-89B	H-5	SI105-152	SUR		


```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      150 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-C    INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-1	SI144-1502	SUR		
SI	FM-89B	B-5	SI145-1502	SUR		
SI	FM-89B	I-1	SI146-1503	SUR		
SI	FM-89B	I-2	SI147-1503	SUR		
SI	FM-89B	B-2	SI153-1502	SUR		
SI	FM-89B	B-5	SI45-1502	SUR		
SI	FM-89B	C-7	SI46-1502	SUR		
SI	FM-89B	B-8	SI47-1502	SUR		
SI	FM-89B	B-2	SI48-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      151 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-C      INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-2	SI49-1502	SUR		
SI	FM-89B	B-3	SI50-1502	SUR		
SI	FM-89B	F-1	SI70-1503	SUR		
SI	FM-89B	A-3	SI72-1503	SUR		
SI	FM-89B	C-1	SI74-1502	SUR		
SI	FM-89B	D-2	SI75-1502	SUR		
SI	FM-89B	F-1	SI76-1503	SUR		
SI	FM-89B	D-3	SI79-1502	SUR		
SI	FM-89B	D-2	SI80-1502	SUR		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 152 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
*
*****

```

ITEM NUMBER : C3. 40

ITEM DESCRIPTION : PIPING INTEGRALLY WELDED ATTACHMENTS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	D-2	SI81-1502	SUR		
SI	FM-89B	D-1	SI85-1502	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      153 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-D    PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
*
*****

```

ITEM NUMBER : C4.30

ITEM DESCRIPTION : PUMP BOLTS AND STUDS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	D-7	1CHP1A	VOL		
CH	FM-88B	E-7	1CHP1B	VOL		
CH	FM-88B	G-7	1CHP1C	VOL		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      154 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	G-8	CH17-152	SUR		
CH	FM-88B	F-7	CH18-152	SUR		
CH	FM-88B	G-7	CH19-152	SUR		
CH	FM-88B	G-7	CH201-152	SUR		
CH	FM-88B	F-7	CH202-152	SUR		
CH	FM-88B	E-7	CH203-152	SUR		
CH	FM-88B	B-8	CH204-152	SUR		
CH	FM-88B	C-8	CH205-152	SUR		
CH	FM-88B	C-8	CH206-152	SUR		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      155 *
*                * REVISION  0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	D-7	CH72-152	SUR		
CS	FM-84A	F-5	CS1-153	SUR		
CS	FM-84A	C-3	CS14-152	SUR		
CS	FM-84A	B-2	CS15-152	SUR		
CS	FM-84A	F-5	CS2-153	SUR		
CS	FM-84A	F-2	CS5-152	SUR		
CS	FM-84A	K-2	CS87-153	SUR		
CS	FM-84A	K-2	CS88-153	SUR		
CS	FM-84A	K-2	CS89-153	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      156 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-F      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	C-4	SDHV4-601	SUR		
MS	FM-64A	B-3	SHP22-601	SUR		
MS	FM-64A	C-5	SHP23-601	SUR		
MS	FM-64A	B-6	SHP24-601	SUR		
MS	FM-64A	C-3	SHP37-601	SUR		
MS	FM-64A	B-4	SHP38-601	SUR		
MS	FM-64A	C-6	SHP39-601	SUR		
MS	FM-64A	D-2	SHP45-601	SUR		
MS	FM-64A	D-4	SHP46-601	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      157 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD $\leq 1/2$ T NOMINAL WALL THICKNESS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	D-6	SHP47-601	SUR		
RC	FM-86B	H-4	RC20-602	SUR		
RC	FM-86B	G-4	RC40-602	SUR		
RC	FM-86B	G-4	RC41-602	SUR		
RC	FM-86B	F-4	RC42-602	SUR		
RC	FM-86B	J-4	RC62-602	SUR		
RC	FM-89B	F-6	SI46-1502	SUR		
RHR	FM-87A	D-3	RH10-602	SUR		
RHR	FM-87A	E-5	RH12-602	SUR		


```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      158 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD $\leq 1/2$ T NOMINAL WALL THICKNESS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	I-5	RH14-602	SUR		
RHR	FM-87A	D-7	RH18-602	SUR		
RHR	FM-87A	E-4	RH19-602	SUR		
RHR	FM-87A	E-7	RH2-602	SUR		
RHR	FM-87A	I-4	RH20-152	SUR		
RHR	FM-87A	J-5	RH23-602	SUR		
RHR	FM-87A	B-6	RH4-602	SUR		
RHR	FM-87A	D-6	RH5-602	SUR		
RHR	FM-87A	A-5	RH6-602	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      159 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD $\leq 1/2$ T NOMINAL WALL THICKNESS

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	C-4	RH7-602	SUR		
RHR	FM-87A	A-3	RH8-602	SUR		
RHR	FM-87A	B-3	RH9-602	SUR		
RS	FM-84B	J-4	RS1-153	SUR		
RS	FM-84B	C-3	RS10-153	SUR		
RS	FM-84B	H-4	RS2-153	SUR		
RS	FM-84B	E-8	RS24-153	SUR		
RS	FM-84B	E-7	RS7-153	SUR		
RS	FM-84B	E-8	RS8-153	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      160 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-F      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	D-4	RS9-153	SUR		
SI	FM-89A	A-8	SI1-153	SUR		
SI	FM-89A	F-4	SI102-152	SUR		
SI	FM-89A	F-8	SI106-153	SUR		
SI	FM-89A	F-8	SI107-153	SUR		
SI	FM-89A	G-8	SI108-153	SUR		
SI	FM-89A	G-5	SI13-153	SUR		
SI	FM-89A	G-6	SI14-153	SUR		
SI	FM-89A	C-5	SI148-153	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      161 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89A	F-5	SI149-153	SUR		
SI	FM-89A	C-5	SI150-153	SUR		
SI	FM-89A	C-6	SI151-153	SUR		
SI	FM-89A	D-6	SI17-152	SUR		
SI	FM-89A	E-4	SI170-152	SUR		
SI	FM-89A	D-6	SI18-152	SUR		
SI	FM-89A	E-6	SI19-152	SUR		
SI	FM-89A	A-8	SI2-153	SUR		
SI	FM-89A	I-3	SI5-152	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      162 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-F      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD $\leq 1/2$ T NOMINAL WALL THICKNESS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89A	I-6	SI5-153	SUR		
SI	FM-89A	H-4	SI6-153	SUR		
SI	FM-89A	G-4	SI7-152	SUR		
SI	FM-89A	E-6	SI78-152	SUR		
SI	FM-89A	G-7	SI83-152	SUR		
SI	FM-89A	D-7	SI84-152	SUR		
SI	FM-89B	H-8	SI3-153	SUR		
SI	FM-89B	B-5	SI45-1502	SUR		
SI	FM-89B	B-8	SI47-1502	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      163 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*
*****
* CATEGORY C-F      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.11

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD $\leq 1/2$ T NOMINAL WALL THICKNESS

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	B-2	SI48-1502	SUR		
SI	FM-89B	B-2	SI49-1502	SUR		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      164 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-F   PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.21

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	D-3	WFPD13-601	SUR VOL		
FW	FM-68A	D-2	WFPD17-601	SUR VOL		
FW	FM-68A	D-5	WFPD9-601	SUR VOL		
MS	FM-64A	A-2	SHP1-601	SUR VOL		
MS	FM-64A	A-5	SHP2-601	SUR VOL		
MS	FM-64A	B-3	SHP22-601	SUR VOL		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.21

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-5	SHP23-601	SUR VOL		
MS	FM-64A	B-6	SHP24-601	SUR VOL		
MS	FM-64A	A-6	SHP3-601	SUR VOL		
SI	FM-89A	B-4	SI152-1502	SUR VOL		
SI	FM-89B	B-1	SI144-1502	SUR VOL		
SI	FM-89B	B-5	SI145-1502	SUR VOL		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      166 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-F      PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.21

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-2	SI153-1502	SUR VOL		
SI	FM-89B	B-2	SI48-1502	SUR VOL		
SI	FM-89B	B-2	SI49-1502	SUR VOL		
SI	FM-89B	B-3	SI50-1502	SUR VOL		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      167 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.22

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	A-2	SHP1-601	SUR VOL		
MS	FM-64A	A-5	SHP2-601	SUR VOL		
MS	FM-64A	B-3	SHP22-601	SUR VOL		
MS	FM-64A	C-5	SHP23-601	SUR VOL		
MS	FM-64A	B-6	SHP24-601	SUR VOL		
MS	FM-64A	A-6	SHP3-601	SUR VOL		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY      POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      168 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-F    PRESSURE RETAINING WELDS IN PIPING
*
*****

```

ITEM NUMBER : C5.31

ITEM DESCRIPTION : PIPING CIRCUMFERENTIAL WELD, PIPE BRANCH CONNECTION

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	B-3	SHP22-601	SUR		
MS	FM-64A	C-5	SHP23-601	SUR		
MS	FM-64A	B-6	SHP24-601	SUR		
MS	FM-64A	C-3	SHP37-601	SUR		
MS	FM-64A	B-4	SHP38-601	SUR		
MS	FM-64A	C-6	SHP39-601	SUR		
MS	FM-64A	D-2	SHP45-601	SUR		
MS	FM-64A	D-4	SHP46-601	SUR		
MS	FM-64A	D-6	SHP47-601	SUR		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      169 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.10

ITEM DESCRIPTION : PRESSURE VESSEL PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-72A	F-4	1CHE4	VIS		
CH	FM-88B	G-3	1CHE1	VIS		
CH	FM-88B	C-2	1CHE2	VIS		
CH	FM-88B	J-1	1CHFL2	VIS		
CH	FM-88B	E-3	1CHFL3	VIS		
CH	FM-88B	B-6	1CHFL4A	VIS		
CH	FM-88B	B-7	1CHFL4B	VIS		
CH	FM-88B	H-2	1CHTK2	VIS		
MS	FM-64A	A-2	1RCE1A	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      170  *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.10

ITEM DESCRIPTION : PRESSURE VESSEL PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

	FLOW	FLOW				
SYSTEM/ COMPONENT	DIAGRAM (11448)	DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	A-4	1RCE1B	VIS		
MS	FM-64A	A-6	1RCE1C	VIS		
RHR	FM-87A	B-2	1RHE1A	VIS		
RHR	FM-87A	D-2	1RHE1B	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      171 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.11

ITEM DESCRIPTION : PRESSURE VESSEL PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-72A	F-4	1CHE4	VIS		
CH	FM-88B	G-3	1CHE1	VIS		
CH	FM-88B	C-2	1CHE2	VIS		
CH	FM-88B	J-1	1CHFL2	VIS		
CH	FM-88B	E-3	1CHFL3	VIS		
CH	FM-88B	B-6	1CHFL4A	VIS		
CH	FM-88B	B-7	1CHFL4B	VIS		
CH	FM-88B	H-2	1CHTK2	VIS		
MS	FM-64A	A-2	1RCE1A	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      172 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.11

ITEM DESCRIPTION : PRESSURE VESSEL PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	A-4	1RCE1B	VIS		
MS	FM-64A	A-6	1RCE1C	VIS		
RHR	FM-87A	B-2	1RHE1A	VIS		
RHR	FM-87A	D-2	1RHE1B	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      173 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
BD	FM124A	B-5	WGCB-601	VIS		
BD	FM124A	A-2	WGCB1-601	VIS		
BD	FM124A	A-4	WGCB2-601	VIS		
BD	FM124A	A-5	WGCB3-601	VIS		
CH	FM-88A	C-1	CH25-152	VIS		
CH	FM-88A	E-2	CH29-152	VIS		
CH	FM-88A	B-2	CH32-152	VIS		
CH	FM-88B	F-3	CH100-152	VIS		
CH	FM-88B	A-6	CH11-1503	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      174 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	H-3	CH112-152	VIS		
CH	FM-88B	E-5	CH113-1503	VIS		
CH	FM-88B	F-3	CH117-152	VIS		
CH	FM-88B	F-3	CH118-152	VIS		
CH	FM-88B	I-2	CH119-152	VIS		
CH	FM-88B	A-6	CH12-1503	VIS		
CH	FM-88B	H-2	CH120-152	VIS		
CH	FM-88B	I-1	CH121-152	VIS		
CH	FM-88B	C-1	CH125-602	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      175 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	A-7	CH13-1503	VIS		
CH	FM-88B	H-2	CH163-152	VIS		
CH	FM-88B	I-3	CH164-152	VIS		
CH	FM-88B	G-3	CH165-152	VIS		
CH	FM-88B	B-7	CH167-1503	VIS		
CH	FM-88B	B-8	CH17-152	VIS		
CH	FM-88B	F-7	CH18-152	VIS		
CH	FM-88B	D-7	CH187-1503	VIS		
CH	FM-88B	F-7	CH188-1503	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      176 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	G-7	CH189-1503	VIS		
CH	FM-88B	H-7	CH19-152	VIS		
CH	FM-88B	H-2	CH190-152	VIS		
CH	FM-88B	F-4	CH191-152	VIS		
CH	FM-88B	D-3	CH192-152	VIS		
CH	FM-88B	K-1	CH193-152	VIS		
CH	FM-88B	H-6	CH196-152	VIS		
CH	FM-88B	F-2	CH199-152	VIS		
CH	FM-88B	F-6	CH2-1503	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      177 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	D-6	CH20-1503	VIS		
CH	FM-88B	H-7	CH201-152	VIS		
CH	FM-88B	F-7	CH202-152	VIS		
CH	FM-88B	E-7	CH203-152	VIS		
CH	FM-88B	B-8	CH204-152	VIS		
CH	FM-88B	C-8	CH205-152	VIS		
CH	FM-88B	C-8	CH206-152	VIS		
CH	FM-88B	D-8	CH207-1503	VIS		
CH	FM-88B	F-8	CH208-1503	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      178 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	H-8	CH209-1503	VIS		
CH	FM-88B	J-4	CH211-152	VIS		
CH	FM-88B	J-4	CH212-152	VIS		
CH	FM-88B	H-6	CH22-1503	VIS		
CH	FM-88B	D-8	CH224-1503	VIS		
CH	FM-88B	E-8	CH225-1503	VIS		
CH	FM-88B	G-8	CH226-1503	VIS		
CH	FM-88B	F-2	CH23-152	VIS		
CH	FM-88B	B-4	CH231-1503	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      179 *
*                               * REVISION  0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	F-1	CH234-152	VIS		
CH	FM-88B	F-2	CH236-152	VIS		
CH	FM-88B	H-2	CH237-152	VIS		
CH	FM-88B	G-3	CH238-152	VIS		
CH	FM-88B	E-2	CH239-152	VIS		
CH	FM-88B	H-2	CH24-152	VIS		
CH	FM-88B	A-6	CH276-1503	VIS		
CH	FM-88B	H-6	CH3-1503	VIS		
CH	FM-88B	I-3	CH58-152	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	I-3	CH59-152	VIS		
CH	FM-88B	H-2	CH67-152	VIS		
CH	FM-88B	D-5	CH69-1503	VIS		
CH	FM-88B	C-2	CH7-602	VIS		
CH	FM-88B	E-6	CH70-1503	VIS		
CH	FM-88B	G-6	CH71-1503	VIS		
CH	FM-88B	E-7	CH72-152	VIS		
CH	FM-88B	H-3	CH73-152	VIS		
CH	FM-88B	B-6	CH74-1503	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      181 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	B-6	CH76-1503	VIS		
CH	FM-88B	B-7	CH77-1503	VIS		
CH	FM-88B	F-2	CH78-152	VIS		
CH	FM-88B	D-6	CH80-1503	VIS		
CH	FM-88B	D-6	CH81-1503	VIS		
CH	FM-88B	E-1	CH87-152	VIS		
CH	FM-88B	E-5	CH89-1503	VIS		
CH	FM-88B	B-6	CH90-1503	VIS		
CH	FM-88B	A-6	CH91-1503	VIS		


```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      182 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	B-3	CH99-152	VIS		
CH	FM-88C	E-2	CH1-1502	VIS		
CH	FM-88C	E-5	CH101-1502	VIS		
CH	FM-88C	H-5	CH102-1502	VIS		
CH	FM-88C	D-5	CH103-1502	VIS		
CH	FM-88C	G-6	CH106-1502	VIS		
CH	FM-88C	I-6	CH109-1502	VIS		
CH	FM-88C	H-5	CH122-152	VIS		
CH	FM-88C	B-3	CH123-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      183 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*
*****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	E-4	CH124-152	VIS		
CH	FM-88C	A-5	CH14-1502	VIS		
CH	FM-88C	F-2	CH1502	VIS		
CH	FM-88C	E-5	CH16-1502	VIS		
CH	FM-88C	B-4	CH214-152	VIS		
CH	FM-88C	D-5	CH215-152	VIS		
CH	FM-88C	G-4	CH216-152	VIS		
CH	FM-88C	C-5	CH217-152	VIS		
CH	FM-88C	F-5	CH218-152	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	I-4	CH219-152	VIS		
CH	FM-88C	B-3	CH223-1502	VIS		
CH	FM-88C	H-2	CH232-602	VIS		
CH	FM-88C	I-3	CH233-602	VIS		
CH	FM-88C	E-3	CH240-1502	VIS		
CH	FM-88C	E-2	CH5-1502	VIS		
CH	FM-88C	I-2	CH6-602	VIS		
CH	FM-88C	E-2	CH68-1502	VIS		
CH	FM-88C	G-3	CH79-1503	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      185 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
*****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	B-3	CH8-1503	VIS		
CH	FM-88C	F-2	CH82-1502	VIS		
CH	FM-88C	G-3	CH83-1502	VIS		
CH	FM-88C	H-2	CH85-602	VIS		
CH	FM-88C	H-2	CH86-602	VIS		
CH	FM-88C	H-7	CH92-1503	VIS		
CH	FM-88C	E-7	CH94-1503	VIS		
CH	FM-88C	B-7	CH96-1503	VIS		
CH	FM-88C	B-5	CH98-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      186 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*
*****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	F-5	CS1-153	VIS		
CS	FM-84A	C-3	CS14-153	VIS		
CS	FM-84A	A-2	CS19-152	VIS		
CS	FM-84A	F-5	CS2-153	VIS		
CS	FM-84A	J-2	CS22-153	VIS		
CS	FM-84A	J-2	CS23-153	VIS		
CS	FM-84A	K-2	CS26-153	VIS		
CS	FM-84A	J-3	CS28-153	VIS		
CS	FM-84A	J-3	CS29-153	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      187 *
*                * REVISION  0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	C-2	CS3-153	VIS		
CS	FM-84A	E-2	CS33-153	VIS		
CS	FM-84A	H-4	CS34-153	VIS		
CS	FM-84A	G-3	CS35-153	VIS		
CS	FM-84A	H-3	CS36-152	VIS		
CS	FM-84A	J-3	CS4-153	VIS		
CS	FM-84A	F-2	CS5-152	VIS		
CS	FM-84A	G-4	CS6-152	VIS		
CS	FM-84A	H-3	CS74-153	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      188 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	G-2	CS75-153	VIS		
CS	FM-84A	G-3	CS76-152	VIS		
CS	FM-84A	G-2	CS77-152	VIS		
CS	FM-84A	G-3	CS8-153	VIS		
FW	FM-68A	D-3	WFPD13-601	VIS		
FW	FM-68A	D-2	WFPD17-601	VIS		
FW	FM-68A	D-5	WFPD9-601	VIS		
MS	FM-64A	C-4	SDHV1-601	VIS		
MS	FM-64A	C-5	SDHV2-601	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY      POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      189 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-6	SDHV3-601	VIS		
MS	FM-64A	C-4	SDHV4-601	VIS		
MS	FM-64A	D-4	SHPD6-601	VIS		
MS	FM-64A	F-3	SHPD7-601	VIS		
MS	FM-64A	F-4	SHPD8-601	VIS		
MS	FM-64A	A-2	SHP1-601	VIS		
MS	FM-64A	A-5	SHP2-601	VIS		
MS	FM-64A	B-3	SHP22-601	VIS		
MS	FM-64A	C-5	SHP23-601	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      190 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	B-6	SHP24-601	VIS		
MS	FM-64A	A-6	SHP3-601	VIS		
MS	FM-64A	C-3	SHP37-601	VIS		
MS	FM-64A	B-4	SHP38-601	VIS		
MS	FM-64A	C-6	SHP39-601	VIS		
MS	FM-64A	D-2	SHP45-601	VIS		
MS	FM-64A	D-4	SHP46-601	VIS		
MS	FM-64A	D-6	SHP47-601	VIS		
MS	FM-64A	B-2	SSV1-121	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      191 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PTPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	C-4	SSV10-121	VIS		
MS	FM-64A	B-6	SSV11-121	VIS		
MS	FM-64A	B-6	SSV12-121	VIS		
MS	FM-64A	C-6	SSV13-121	VIS		
MS	FM-64A	C-6	SSV14-121	VIS		
MS	FM-64A	C-6	SSV15-121	VIS		
MS	FM-64A	B-2	SSV2-121	VIS		
MS	FM-64A	C-2	SSV3-121	VIS		
MS	FM-64A	C-2	SSV4-121	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      192 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	C-2	SSV5-121	VIS		
MS	FM-64A	B-4	SSV6-121	VIS		
MS	FM-64A	B-4	SSV7-121	VIS		
MS	FM-64A	C-4	SSV8-121	VIS		
MS	FM-64A	C-4	SSV9-121	VIS		
RHR	FM-87A	D-3	RH10-602	VIS		
RHR	FM-87A	G-6	RH11-602	VIS		
RHR	FM-87A	E-5	RH12-602	VIS		
RHR	FM-87A	I-4	RH13-602	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      193 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	I-5	RH14-602	VIS		
RHR	FM-87A	D-7	RH18-602	VIS		
RHR	FM-87A	E-4	RH19-602	VIS		
RHR	FM-87A	E-7	RH2-602	VIS		
RHR	FM-87A	C-5	RH21-602	VIS		
RHR	FM-87A	I-5	RH22-602	VIS		
RHR	FM-87A	J-5	RH23-602	VIS		
RHR	FM-87A	C-7	RH24-602	VIS		
RHR	FM-87A	C-7	RH25-602	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      194 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	G-3	RH3-602	VIS		
RHR	FM-87A	B-6	RH4-602	VIS		
RHR	FM-87A	D-6	RH5-602	VIS		
RHR	FM-87A	B-7	RH51-602	VIS		
RHR	FM-87A	D-7	RH52-602	VIS		
RHR	FM-87A	A-5	RH6-602	VIS		
RHR	FM-87A	C-4	RH7-602	VIS		
RHR	FM-87A	A-3	RH8-602	VIS		
RHR	FM-87A	B-3	RH9-602	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      195 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RS	FM-84B	J-4	RS1-153	VIS		
RS	FM-84B	C-3	RS10-153	VIS		
RS	FM-84B	H-2	RS11-153	VIS		
RS	FM-84B	F-2	RS12-153	VIS		
RS	FM-84B	C-4	RS13-153	VIS		
RS	FM-84B	D-6	RS14-153	VIS		
RS	FM-84B	A-6	RS15-153	VIS		
RS	FM-84B	H-4	RS2-153	VIS		
RS	FM-84B	J-1	RS20-153	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	J-1	RS21-153	VIS		
RS	FM-84B	G-1	RS22-153	VIS		
RS	FM-84B	G-1	RS23-153	VIS		
RS	FM-84B	K-2	RS3-153	VIS		
RS	FM-84B	I-2	RS4-153	VIS		
RS	FM-84B	E-7	RS7-153	VIS		
RS	FM-84B	E-8	RS8-153	VIS		
RS	FM-84B	D-4	RS9-153	VIS		
SI	FM-89A	E-8	CL153	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      197 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

```

ITEM NUMBER      : C7.20
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

```

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	A-8	SI1-153	VIS		
SI	FM-89A	F-4	SI102-152	VIS		
SI	FM-89A	G-8	SI106-153	VIS		
SI	FM-89A	F-8	SI107-153	VIS		
SI	FM-89A	G-8	SI108-153	VIS		
SI	FM-89A	G-5	SI13-153	VIS		
SI	FM-89A	I-6	SI130-152	VIS		
SI	FM-89A	J-4	SI131-152	VIS		
SI	FM-89A	B-7	SI132-153	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      198 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

```

ITEM NUMBER      : C7.20
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

```

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	C-8	SI133-ICN9	VIS		
SI	FM-89A	E-7	SI134-ICN9	VIS		
SI	FM-89A	D-8	SI135-ICN9	VIS		
SI	FM-89A	E-7	SI136-ICN9	VIS		
SI	FM-89A	F-7	SI137-153	VIS		
SI	FM-89A	E-8	SI138-ICN9	VIS		
SI	FM-89A	H-7	SI139-ICN9	VIS		
SI	FM-89A	G-8	SI140-ICN9	VIS		
SI	FM-89A	H-7	SI141-ICN9	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      199 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	F-5	SI148-153	VIS		
SI	FM-89A	F-5	SI149-153	VIS		
SI	FM-89A	D-5	SI150-153	VIS		
SI	FM-89A	D-6	SI151-153	VIS		
SI	FM-89A	B-4	SI152-1502	VIS		
SI	FM-89A	C-6	SI16-153	VIS		
SI	FM-89A	E-6	SI160-153	VIS		
SI	FM-89A	D-6	SI17-152	VIS		
SI	FM-89A	E-6	SI18-152	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      200 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	E-6	SI19-152	VIS		
SI	FM-89A	A-8	SI2-153	VIS		
SI	FM-89A	G-1	SI20-1503	VIS		
SI	FM-89A	G-7	SI23-152	VIS		
SI	FM-89A	G-6	SI24-153	VIS		
SI	FM-89A	E-7	SI25-152	VIS		
SI	FM-89A	F-5	SI30-152	VIS		
SI	FM-89A	I-3	SI5-153	VIS		
SI	FM-89A	E-6	SI55-153	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	F-7	SI56-153	VIS		
SI	FM-89A	J-2	SI57-1503	VIS		
SI	FM-89A	H-1	SI59-1503	VIS		
SI	FM-89A	I-4	SI6-153	VIS		
SI	FM-89A	G-2	SI60-1503	VIS		
SI	FM-89A	C-1	SI68-1503	VIS		
SI	FM-89A	A-3	SI72-1503	VIS		
SI	FM-89A	E-6	SI78-153	VIS		
SI	FM-89A	G-7	SI83-152	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      202 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	D-7	SI84-152	VIS		
SI	FM-89A	I-1	SI87-1503	VIS		
SI	FM-89A	B-2	SI90-1503	VIS		
SI	FM-89A	C-6	SI92-153	VIS		
SI	FM-89A	F-1	SI93-1503	VIS		
SI	FM-89B	C-4	SI100-602	VIS		
SI	FM-89B	E-4	SI11-602	VIS		
SI	FM-89B	H-6	SI12-602	VIS		
SI	FM-89B	I-3	SI143-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-1	SI144-1502	VIS		
SI	FM-89B	B-5	SI145-1502	VIS		
SI	FM-89B	I-1	SI146-1503	VIS		
SI	FM-89B	I-2	SI147-1503	VIS		
SI	FM-89B	B-2	SI153-1502	VIS		
SI	FM-89B	B-5	SI154-1502	VIS		
SI	FM-89B	B-3	SI155-1502	VIS		
SI	FM-89B	F-6	SI156-1502	VIS		
SI	FM-89B	B-2	SI157-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      204 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	D-8	SI158-1502	VIS		
SI	FM-89B	B-3	SI159-1502	VIS		
SI	FM-89B	H-8	SI3-153	VIS		
SI	FM-89B	C-6	SI33-1502	VIS		
SI	FM-89B	G-7	SI34-1502	VIS		
SI	FM-89B	C-8	SI35-1502	VIS		
SI	FM-89B	D-5	SI36-602	VIS		
SI	FM-89B	G-6	SI37-602	VIS		
SI	FM-89B	D-8	SI38-602	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 205 *
* ASME SECTION XI EDITION 80WB0 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-5	SI45-1502	VIS		
SI	FM-89B	F-6	SI46-1502	VIS		
SI	FM-89B	B-8	SI47-1502	VIS		
SI	FM-89B	B-2	SI48-1502	VIS		
SI	FM-89B	B-2	SI49-1502	VIS		
SI	FM-89B	B-3	SI50-1502	VIS		
SI	FM-89B	D-7	SI61-602	VIS		
SI	FM-89B	D-5	SI62-152	VIS		
SI	FM-89B	C-5	SI63-602	VIS		


```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      207 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	F-1	SI76-1503	VIS		
SI	FM-89B	F-2	SI77-1503	VIS		
SI	FM-89B	D-3	SI79-1502	VIS		
SI	FM-89B	D-2	SI80-1502	VIS		
SI	FM-89B	D-2	SI81-1502	VIS		
SI	FM-89B	D-1	SI85-1502	VIS		
SI	FM-89B	G-5	SI97-602	VIS		
SI	FM-89B	D-7	SI99-602	VIS		
SI	FM106C	C-3	SI170-153	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      206 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	G-6	SI64-152	VIS		
SI	FM-89B	G-6	SI65-602	VIS		
SI	FM-89B	D-8	SI66-152	VIS		
SI	FM-89B	C-8	SI67-602	VIS		
SI	FM-89B	I-1	SI70-1503	VIS		
SI	FM-89B	F-1	SI71-1503	VIS		
SI	FM-89B	F-2	SI73-1503	VIS		
SI	FM-89B	C-1	SI74-1502	VIS		
SI	FM-89B	D-2	SI75-1502	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 208
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.20

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM106C	C-3	SI171-153	VIS		
SI	FM106C	A-3	SI5-153	VIS		
SI	FM106C	D-3	SI172-153	VIS		
SS	FM-82B	C-1	SS6-ICN9	VIS		
SS	FM-82B	C-1	SS7-ICN9	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      209 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
BD	FM124A	B-5	WGCB-601	VIS		
BD	FM124A	A-2	WGCB1-601	VIS		
BD	FM124A	A-4	WGCB2-601	VIS		
BD	FM124A	A-5	WGCB3-601	VIS		
CH	FM-88A	C-1	CH25-152	VIS		
CH	FM-88A	E-2	CH29-152	VIS		
CH	FM-88A	B-2	CH32-152	VIS		
CH	FM-88B	F-3	CH100-152	VIS		
CH	FM-88B	A-6	CH11-1503	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      210 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	H-3	CH112-152	VIS		
CH	FM-88B	E-5	CH113-1503	VIS		
CH	FM-88B	F-3	CH117-152	VIS		
CH	FM-88B	F-3	CH118-152	VIS		
CH	FM-88B	I-2	CH119-152	VIS		
CH	FM-88B	A-6	CH12-1503	VIS		
CH	FM-88B	H-2	CH120-152	VIS		
CH	FM-88B	I-1	CH121-152	VIS		
CH	FM-88B	C-1	CH125-602	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      211 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	A-7	CH13-1503	VIS		
CH	FM-88B	H-2	CH163-152	VIS		
CH	FM-88B	I-3	CH164-152	VIS		
CH	FM-88B	G-3	CH165-152	VIS		
CH	FM-88B	B-7	CH167-1503	VIS		
CH	FM-88B	B-8	CH17-152	VIS		
CH	FM-88B	F-7	CH18-152	VIS		
CH	FM-88B	D-7	CH187-1503	VIS		
CH	FM-88B	F-7	CH188-1503	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      212 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD. =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	G-7	CH189-1503	VIS		
CH	FM-88B	H-7	CH19-152	VIS		
CH	FM-88B	H-2	CH190-152	VIS		
CH	FM-88B	F-4	CH191-152	VIS		
CH	FM-88B	D-3	CH192-152	VIS		
CH	FM-88B	K-1	CH193-152	VIS		
CH	FM-88B	H-6	CH196-152	VIS		
CH	FM-88B	F-2	CH199-152	VIS		
CH	FM-88B	F-6	CH2-1503	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      213 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	D-6	CH20-1503	VIS		
CH	FM-88B	H-7	CH201-152	VIS		
CH	FM-88B	F-7	CH202-152	VIS		
CH	FM-88B	E-7	CH203-152	VIS		
CH	FM-88B	B-8	CH204-152	VIS		
CH	FM-88B	C-8	CH205-152	VIS		
CH	FM-88B	C-8	CH206-152	VIS		
CH	FM-88B	D-8	CH207-1503	VIS		
CH	FM-88B	F-8	CH208-1503	VIS		


```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      214 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	H-8	CH209-1503	VIS		
CH	FM-88B	J-4	CH211-152	VIS		
CH	FM-88B	J-4	CH212-152	VIS		
CH	FM-88B	H-6	CH22-1503	VIS		
CH	FM-88B	D-8	CH224-1503	VIS		
CH	FM-88B	E-8	CH225-1503	VIS		
CH	FM-88B	G-8	CH226-1503	VIS		
CH	FM-88B	F-2	CH23-152	VIS		
CH	FM-88B	B-4	CH231-1503	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 215
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	F-1	CH234-152	VIS		
CH	FM-88B	F-2	CH236-152	VIS		
CH	FM-88B	H-2	CH237-152	VIS		
CH	FM-88B	G-3	CH238-152	VIS		
CH	FM-88B	E-2	CH239-152	VIS		
CH	FM-88B	H-2	CH24-152	VIS		
CH	FM-88B	A-6	CH276-1503	VIS		
CH	FM-88B	H-6	CH3-1503	VIS		
CH	FM-88B	I-3	CH58-152	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      216 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	I-3	CH59-152	VIS		
CH	FM-88B	H-2	CH67-152	VIS		
CH	FM-88B	D-5	CH69-1503	VIS		
CH	FM-88B	C-2	CH7-602	VIS		
CH	FM-88B	E-6	CH70-1503	VIS		
CH	FM-88B	G-6	CH71-1503	VIS		
CH	FM-88B	E-7	CH72-152	VIS		
CH	FM-88B	H-3	CH73-152	VIS		
CH	FM-88B	B-6	CH74-1503	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      217 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	B-6	CH76-1503	VIS		
CH	FM-88B	B-7	CH77-1503	VIS		
CH	FM-88B	F-2	CH78-152	VIS		
CH	FM-88B	D-6	CH80-1503	VIS		
CH	FM-88B	D-6	CH81-1503	VIS		
CH	FM-88B	E-1	CH87-152	VIS		
CH	FM-88B	E-5	CH89-1503	VIS		
CH	FM-88B	B-6	CH90-1503	VIS		
CH	FM-88B	A-6	CH91-1503	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      218 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	B-3	CH99-152	VIS		
CH	FM-88C	E-2	CH1-1502	VIS		
CH	FM-88C	E-5	CH101-1502	VIS		
CH	FM-88C	H-5	CH102-1502	VIS		
CH	FM-88C	D-5	CH103-1502	VIS		
CH	FM-88C	G-6	CH106-1502	VIS		
CH	FM-88C	I-6	CH109-1502	VIS		
CH	FM-88C	H-5	CH122-152	VIS		
CH	FM-88C	B-3	CH123-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      219 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	E-4	CH124-152	VIS		
CH	FM-88C	A-5	CH14-1502	VIS		
CH	FM-88C	F-2	CH1502	VIS		
CH	FM-88C	E-5	CH16-1502	VIS		
CH	FM-88C	B-4	CH214-152	VIS		
CH	FM-88C	D-5	CH215-152	VIS		
CH	FM-88C	G-4	CH216-152	VIS		
CH	FM-88C	C-5	CH217-152	VIS		
CH	FM-88C	F-5	CH218-152	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      220 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	I-4	CH219-152	VIS		
CH	FM-88C	B-3	CH223-1502	VIS		
CH	FM-88C	H-2	CH232-602	VIS		
CH	FM-88C	I-3	CH233-602	VIS		
CH	FM-88C	E-3	CH240-1502	VIS		
CH	FM-88C	E-2	CH5-1502	VIS		
CH	FM-88C	I-2	CH6-602	VIS		
CH	FM-88C	E-2	CH68-1502	VIS		
CH	FM-88C	G-3	CH79-1503	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      221 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88C	B-3	CH8-1503	VIS		
CH	FM-88C	F-2	CH82-1502	VIS		
CH	FM-88C	G-3	CH83-1502	VIS		
CH	FM-88C	H-2	CH85-602	VIS		
CH	FM-88C	H-2	CH86-602	VIS		
CH	FM-88C	H-7	CH92-1503	VIS		
CH	FM-88C	E-7	CH94-1503	VIS		
CH	FM-88C	B-7	CH96-1503	VIS		
CH	FM-88C	B-5	CH98-1502	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      222 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	F-5	CS1-153	VIS		
CS	FM-84A	C-3	CS14-153	VIS		
CS	FM-84A	A-2	CS19-152	VIS		
CS	FM-84A	F-5	CS2-153	VIS		
CS	FM-84A	J-2	CS22-153	VIS		
CS	FM-84A	J-2	CS23-153	VIS		
CS	FM-84A	K-2	CS26-153	VIS		
CS	FM-84A	J-3	CS28-153	VIS		
CS	FM-84A	J-3	CS29-153	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      223 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CS	FM-84A	C-2	CS3-153	VIS		
CS	FM-84A	E-2	CS33-153	VIS		
CS	FM-84A	H-4	CS34-153	VIS		
CS	FM-84A	G-3	CS35-153	VIS		
CS	FM-84A	H-3	CS36-152	VIS		
CS	FM-84A	J-3	CS4-153	VIS		
CS	FM-84A	F-2	CS5-152	VIS		
CS	FM-84A	G-4	CS6-152	VIS		
CS	FM-84A	H-3	CS74-153	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      224 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*
*****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CS	FM-84A	G-2	CS75-153	VIS		
CS	FM-84A	G-3	CS76-152	VIS		
CS	FM-84A	G-2	CS77-152	VIS		
CS	FM-84A	G-3	CS8-153	VIS		
FW	FM-68A	D-3	WFPD13-601	VIS		
FW	FM-68A	D-2	WFPD17-601	VIS		
FW	FM-68A	D-5	WFPD9-601	VIS		
MS	FM-64A	C-4	SDHV1-601	VIS		
MS	FM-64A	C-5	SDHV2-601	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      225 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-6	SDHV3-601	VIS		
MS	FM-64A	C-4	SDHV4-601	VIS		
MS	FM-64A	D-4	SHPD6-601	VIS		
MS	FM-64A	F-3	SHPD7-601	VIS		
MS	FM-64A	F-4	SHPD8-601	VIS		
MS	FM-64A	A-2	SHP1-601	VIS		
MS	FM-64A	A-5	SHP2-601	VIS		
MS	FM-64A	B-3	SHP22-601	VIS		
MS	FM-64A	C-5	SHP23-601	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	B-6	SHP24-601	VIS		
MS	FM-64A	A-6	SHP3-601	VIS		
MS	FM-64A	C-3	SHP37-601	VIS		
MS	FM-64A	B-4	SHP38-601	VIS		
MS	FM-64A	C-6	SHP39-601	VIS		
MS	FM-64A	D-2	SHP45-601	VIS		
MS	FM-64A	D-4	SHP46-601	VIS		
MS	FM-64A	D-6	SHP47-601	VIS		
MS	FM-64A	B-2	SSV1-121	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-4	SSV10-121	VIS		
MS	FM-64A	B-6	SSV11-121	VIS		
MS	FM-64A	B-6	SSV12-121	VIS		
MS	FM-64A	C-6	SSV13-121	VIS		
MS	FM-64A	C-6	SSV14-121	VIS		
MS	FM-64A	C-6	SSV15-121	VIS		
MS	FM-64A	B-2	SSV2-121	VIS		
MS	FM-64A	C-2	SSV3-121	VIS		
MS	FM-64A	C-2	SSV4-121	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      228 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
MS	FM-64A	C-2	SSV5-121	VIS		
MS	FM-64A	B-4	SSV6-121	VIS		
MS	FM-64A	B-4	SSV7-121	VIS		
MS	FM-64A	C-4	SSV8-121	VIS		
MS	FM-64A	C-4	SSV9-121	VIS		
RHR	FM-87A	D-3	RH10-602	VIS		
RHR	FM-87A	G-6	RH11-602	VIS		
RHR	FM-87A	E-5	RH12-602	VIS		
RHR	FM-87A	I-4	RH13-602	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 229
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	I-5	RH14-602	VIS		
RHR	FM-87A	D-7	RH18-602	VIS		
RHR	FM-87A	E-4	RH19-602	VIS		
RHR	FM-87A	E-7	RH2-602	VIS		
RHR	FM-87A	C-5	RH21-602	VIS		
RHR	FM-87A	I-5	RH22-602	VIS		
RHR	FM-87A	J-5	RH23-602	VIS		
RHR	FM-87A	C-7	RH24-602	VIS		
RHR	FM-87A	C-7	RH25-602	VIS		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	G-3	RH3-602	VIS		
RHR	FM-87A	B-6	RH4-602	VIS		
RHR	FM-87A	D-6	RH5-602	VIS		
RHR	FM-87A	B-7	RH51-602	VIS		
RHR	FM-87A	D-7	RH52-602	VIS		
RHR	FM-87A	A-5	RH6-602	VIS		
RHR	FM-87A	C-4	RH7-602	VIS		
RHR	FM-87A	A-3	RH8-602	VIS		
RHR	FM-87A	B-3	RH9-602	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	J-4	RS1-153	VIS		
RS	FM-84B	C-3	RS10-153	VIS		
RS	FM-84B	H-2	RS11-153	VIS		
RS	FM-84B	F-2	RS12-153	VIS		
RS	FM-84B	C-4	RS13-153	VIS		
RS	FM-84B	D-6	RS14-153	VIS		
RS	FM-84B	A-6	RS15-153	VIS		
RS	FM-84B	H-4	RS2-153	VIS		
RS	FM-84B	J-1	RS20-153	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      232 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RS	FM-84B	J-1	RS21-153	VIS		
RS	FM-84B	G-1	RS22-153	VIS		
RS	FM-84B	G-1	RS23-153	VIS		
RS	FM-84B	K-2	RS3-153	VIS		
RS	FM-84B	I-2	RS4-153	VIS		
RS	FM-84B	E-7	RS7-153	VIS		
RS	FM-84B	E-8	RS8-153	VIS		
RS	FM-84B	D-4	RS9-153	VIS		
SI	FM-89A	E-8	CL153	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	A-8	SI1-153	VIS		
SI	FM-89A	F-4	SI102-152	VIS		
SI	FM-89A	G-8	SI106-153	VIS		
SI	FM-89A	F-8	SI107-153	VIS		
SI	FM-89A	G-8	SI108-153	VIS		
SI	FM-89A	G-5	SI13-153	VIS		
SI	FM-89A	I-6	SI130-152	VIS		
SI	FM-89A	J-4	SI131-152	VIS		
SI	FM-89A	B-7	SI132-153	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 234 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	C-8	SI133-ICN9	VIS		
SI	FM-89A	E-7	SI134-ICN9	VIS		
SI	FM-89A	D-8	SI135-ICN9	VIS		
SI	FM-89A	E-7	SI136-ICN9	VIS		
SI	FM-89A	F-7	SI137-153	VIS		
SI	FM-89A	E-8	SI138-ICN9	VIS		
SI	FM-89A	H-7	SI139-ICN9	VIS		
SI	FM-89A	G-8	SI140-ICN9	VIS		
SI	FM-89A	H-7	SI141-ICN9	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      235 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	F-5	SI148-153	VIS		
SI	FM-89A	F-5	SI149-153	VIS		
SI	FM-89A	D-5	SI150-153	VIS		
SI	FM-89A	D-6	SI151-153	VIS		
SI	FM-89A	B-4	SI152-1502	VIS		
SI	FM-89A	C-6	SI16-153	VIS		
SI	FM-89A	E-6	SI160-153	VIS		
SI	FM-89A	D-6	SI17-152	VIS		
SI	FM-89A	E-6	SI18-152	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 236 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	E-6	SI19-152	VIS		
SI	FM-89A	A-8	SI2-153	VIS		
SI	FM-89A	G-1	SI20-1503	VIS		
SI	FM-89A	G-7	SI23-152	VIS		
SI	FM-89A	G-6	SI24-153	VIS		
SI	FM-89A	E-7	SI25-152	VIS		
SI	FM-89A	F-5	SI30-152	VIS		
SI	FM-89A	I-3	SI5-153	VIS		
SI	FM-89A	E-6	SI55-153	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      237 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89A	F-7	SI56-153	VIS		
SI	FM-89A	J-2	SI57-1503	VIS		
SI	FM-89A	H-1	SI59-1503	VIS		
SI	FM-89A	I-4	SI6-153	VIS		
SI	FM-89A	G-2	SI60-1503	VIS		
SI	FM-89A	C-1	SI68-1503	VIS		
SI	FM-89A	A-3	SI72-1503	VIS		
SI	FM-89A	E-6	SI78-153	VIS		
SI	FM-89A	G-7	SI83-152	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      238 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89A	D-7	SI84-152	VIS		
SI	FM-89A	I-1	SI87-1503	VIS		
SI	FM-89A	B-2	SI90-1503	VIS		
SI	FM-89A	C-6	SI92-153	VIS		
SI	FM-89A	F-1	SI93-1503	VIS		
SI	FM-89B	C-4	SI100-602	VIS		
SI	FM-89B	E-4	SI11-602	VIS		
SI	FM-89B	H-6	SI12-602	VIS		
SI	FM-89B	I-3	SI143-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      239 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-1	SI144-1502	VIS		
SI	FM-89B	B-5	SI145-1502	VIS		
SI	FM-89B	I-1	SI146-1503	VIS		
SI	FM-89B	I-2	SI147-1503	VIS		
SI	FM-89B	B-2	SI153-1502	VIS		
SI	FM-89B	B-5	SI154-1502	VIS		
SI	FM-89B	B-3	SI155-1502	VIS		
SI	FM-89B	F-6	SI156-1502	VIS		
SI	FM-89B	B-2	SI157-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      240 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	D-8	SI158-1502	VIS		
SI	FM-89B	B-3	SI159-1502	VIS		
SI	FM-89B	H-8	SI3-153	VIS		
SI	FM-89B	C-6	SI33-1502	VIS		
SI	FM-89B	G-7	SI34-1502	VIS		
SI	FM-89B	C-8	SI35-1502	VIS		
SI	FM-89B	D-5	SI36-602	VIS		
SI	FM-89B	G-6	SI37-602	VIS		
SI	FM-89B	D-8	SI38-602	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      241 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY C-H   ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	B-5	SI45-1502	VIS		
SI	FM-89B	F-6	SI46-1502	VIS		
SI	FM-89B	B-8	SI47-1502	VIS		
SI	FM-89B	B-2	SI48-1502	VIS		
SI	FM-89B	B-2	SI49-1502	VIS		
SI	FM-89B	B-3	SI50-1502	VIS		
SI	FM-89B	D-7	SI61-602	VIS		
SI	FM-89B	D-5	SI62-152	VIS		
SI	FM-89B	C-5	SI63-602	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      242 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SI	FM-89B	G-6	SI64-152	VIS		
SI	FM-89B	G-6	SI65-602	VIS		
SI	FM-89B	D-8	SI66-152	VIS		
SI	FM-89B	C-8	SI67-602	VIS		
SI	FM-89B	I-1	SI70-1503	VIS		
SI	FM-89B	F-1	SI71-1503	VIS		
SI	FM-89B	F-2	SI73-1503	VIS		
SI	FM-89B	C-1	SI74-1502	VIS		
SI	FM-89B	D-2	SI75-1502	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      243 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21
ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM-89B	F-1	SI76-1503	VIS		
SI	FM-89B	F-2	SI77-1503	VIS		
SI	FM-89B	D-3	SI79-1502	VIS		
SI	FM-89B	D-2	SI80-1502	VIS		
SI	FM-89B	D-2	SI81-1502	VIS		
SI	FM-89B	D-1	SI85-1502	VIS		
SI	FM-89B	G-5	SI97-602	VIS		
SI	FM-89B	D-7	SI99-602	VIS		
SI	FM106C	C-3	SI170-153	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      244 *
*               * REVISION  0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.21

ITEM DESCRIPTION : PIPING PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
SI	FM106C	C-3	SI171-153	VIS		
SI	FM106C	A-3	SI5-153	VIS		
SI	FM106C	D-3	SI172-153	VIS		
SS	FM-82B	C-1	SS6-ICN9	VIS		
SS	FM-82B	C-1	SS7-ICN9	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.30

ITEM DESCRIPTION : PUMPS PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88B	D-7	1CHPIA	VIS		
CH	FM-88B	E-7	1CHPIB	VIS		
CH	FM-88B	G-7	1CHPIC	VIS		
RC	FM-86A	A-1	1RCPIA	VIS		
RC	FM-86A	A-6	1RCPIB	VIS		
RC	FM-86A	L-1	1RCPIC	VIS		
RHR	FM-87A	C-6	1RHP1A	VIS		
RHR	FM-87A	D-6	1RHP1B	VIS		


```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      246 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.31

ITEM DESCRIPTION : PUMPS PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88B	D-7	1CHP1A	VIS		
CH	FM-88B	E-7	1CHP1B	VIS		
CH	FM-88B	G-7	1CHP1C	VIS		
RC	FM-86A	A-1	1RCP1A	VIS		
RC	FM-86A	A-6	1RCP1B	VIS		
RC	FM-86A	L-1	1RCP1C	VIS		
RHR	FM-87A	C-6	1RHP1A	VIS		
RHR	FM-87A	D-6	1RHP1B	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      247 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.40

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	D-3	WFPD13-601	VIS		
FW	FM-68A	D-2	WFPD17-601	VIS		
FW	FM-68A	D-5	WFPD9-601	VIS		
MS	FM-64A	A-2	SHP1-601	VIS		
MS	FM-64A	A-5	SHP2-601	VIS		
MS	FM-64A	B-3	SHP22-601	VIS		
MS	FM-64A	C-5	SHP23-601	VIS		
MS	FM-64A	B-6	SHP24-601	VIS		
MS	FM-64A	A-6	SHP3-601	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      248 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.40

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	D-2	SHP45-601	VIS		
MS	FM-64A	D-4	SHP46-601	VIS		
MS	FM-64A	D-6	SHP47-601	VIS		
RHR	FM-87A	D-3	RH10-602	VIS		
RHR	FM-87A	E-5	RH12-602	VIS		
RHR	FM-87A	I-5	RH14-602	VIS		
RHR	FM-87A	D-7	RH18-602	VIS		
RHR	FM-87A	E-4	RH19-602	VIS		
RHR	FM-87A	E-7	RH2-602	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      249 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.40
ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RHR	FM-87A	B-6	RH4-602	VIS		
RHR	FM-87A	D-6	RH5-602	VIS		
RHR	FM-87A	C-4	RH7-602	VIS		
RHR	FM-87A	A-3	RH8-602	VIS		
RHR	FM-87A	B-3	RH9-602	VIS		
SI	FM-89A	B-4	SI152-1502	VIS		
SI	FM-89B	B-2	SI48-1502	VIS		
SI	FM-89B	B-2	SI49-1502	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      250 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY C-H    ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.41

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	D-3	WFPD13-601	VIS		
FW	FM-68A	D-2	WFPD17-601	VIS		
FW	FM-68A	D-5	WFPD9-601	VIS		
MS	FM-64A	A-2	SHP1-601	VIS		
MS	FM-64A	A-5	SHP2-601	VIS		
MS	FM-64A	B-3	SHP22-601	VIS		
MS	FM-64A	C-5	SHP23-601	VIS		
MS	FM-64A	B-6	SHP24-601	VIS		
MS	FM-64A	A-6	SHP3-601	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      251 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY C-H      ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.41

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	D-2	SHP45-601	VIS		
MS	FM-64A	D-4	SHP46-601	VIS		
MS	FM-64A	D-6	SHP47-601	VIS		
RHR	FM-87A	D-3	RH10-602	VIS		
RHR	FM-87A	E-5	RH12-602	VIS		
RHR	FM-87A	I-5	RH14-602	VIS		
RHR	FM-87A	D-7	RH18-602	VIS		
RHR	FM-87A	E-4	RH19-602	VIS		
RHR	FM-87A	E-7	RH2-602	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* PAGE 252
* REVISION 0003
* DATE 86/10/20
*****
* CATEGORY C-H ALL PRESSURE RETAINING COMPONENTS
*
*****

```

ITEM NUMBER : C7.41

ITEM DESCRIPTION : VALVES PRESSURE RETAINING BOUNDARY-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
RHR	FM-87A	B-6	RH4-602	VIS		
RHR	FM-87A	D-6	RH5-602	VIS		
RHR	FM-87A	C-4	RH7-602	VIS		
RHR	FM-87A	A-3	RH8-602	VIS		
RHR	FM-87A	B-3	RH9-602	VIS		
SI	FM-89A	B-4	SI152-1502	VIS		
SI	FM-89B	B-2	SI48-1502	VIS		
SI	FM-89B	B-2	SI49-1502	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY      POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      253 *
*                * REVISION  0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : 01.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-71B	D-7	CC335-151	VIS		
CC	FM-71B	G-6	CC336-151	VIS		
CC	FM-71B	F-7	CC337-151	VIS		
CC	FM-71B	F-6	CC338-151	VIS		
CC	FM-71B	G-6	CC339-151	VIS		
CC	FM-71B	D-5	CC340-151	VIS		
CC	FM-71B	G-5	CC341-151	VIS		
CC	FM-71B	E-5	CC342-151	VIS		
CC	FM-71B	D-4	CC343-151	VIS		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : DI.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-71B	I-4	CC344-151	VIS		
CC	FM-71B	G-4	CC345-151	VIS		
CC	FM-71B	H-4	CC346-151	VIS		
CC	FM-71B	E-4	CC347-151	VIS		
CC	FM-71B	B-4	CC348-151	VIS		
CC	FM-71B	G-4	CC349-151	VIS		
CC	FM-71B	H-6	CC350-151	VIS		
CC	FM-71B	E-6	CC351-151	VIS		
CC	FM-72A	A-3	CC100-151	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	E-6	CC101-151	VIS		
CC	FM-72A	D-3	CC102-151	VIS		
CC	FM-72A	D-3	CC103-151	VIS		
CC	FM-72A	D-4	CC104-151	VIS		
CC	FM-72A	E-7	CC105-151	VIS		
CC	FM-72A	F-4	CC107-151	VIS		
CC	FM-72A	F-5	CC108-151	VIS		
CC	FM-72A	E-6	CC109-151	VIS		
CC	FM-72A	H-7	CC110-151	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      256 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	H-4	CC112-151	VIS		
CC	FM-72A	H-5	CC113-151	VIS		
CC	FM-72A	H-6	CC114-151	VIS		
CC	FM-72A	L-3	CC16-121	VIS		
CC	FM-72A	J-4	CC17-121	VIS		
CC	FM-72A	A-2	CC200-151	VIS		
CC	FM-72A	D-2	CC201-151	VIS		
CC	FM-72A	A-4	CC202-151	VIS		
CC	FM-72A	D-4	CC203-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      257 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-6	CC204-151	VIS		
CC	FM-72A	D-6	CC205-151	VIS		
CC	FM-72A	E-2	CC206-151	VIS		
CC	FM-72A	H-5	CC207-151	VIS		
CC	FM-72A	E-2	CC246-151	VIS		
CC	FM-72A	H-8	CC247-151	VIS		
CC	FM-72A	F-6	CC305-151	VIS		
CC	FM-72A	H-6	CC306-151	VIS		
CC	FM-72A	F-7	CC307-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      258 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72A	G-7	CC308-151	VIS		
CC	FM-72A	F-1	CC8-121	VIS		
CC	FM-72A	A-6	CC82-151	VIS		
CC	FM-72A	A-7	CC83-151	VIS		
CC	FM-72A	A-7	CC84-151	VIS		
CC	FM-72A	D-7	CC85-151	VIS		
CC	FM-72A	D-7	CC86-151	VIS		
CC	FM-72A	C-7	CC87-151	VIS		
CC	FM-72A	E-7	CC88-151	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      259 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-5	CC89-151	VIS		
CC	FM-72A	A-4	CC90-151	VIS		
CC	FM-72A	A-5	CC91-151	VIS		
CC	FM-72A	A-5	CC92-151	VIS		
CC	FM-72A	D-6	CC93-151	VIS		
CC	FM-72A	D-5	CC94-151	VIS		
CC	FM-72A	C-5	CC95-151	VIS		
CC	FM-72A	D-6	CC96-151	VIS		
CC	FM-72A	A-3	CC97-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      260 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-2	CC98-151	VIS		
CC	FM-72A	A-3	CC99-151	VIS		
CC	FM-72B	A-1	CC10-121	VIS		
CC	FM-72B	A-1	CC115-151	VIS		
CC	FM-72B	E-3	CC120-151	VIS		
CC	FM-72B	I-4	CC75-151	VIS		
CC	FM-72B	F-3	CC76-151	VIS		
CC	FM-72B	E-4	CC77-151	VIS		
CC	FM-72B	E-1	CC78-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      261 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72B	F-4	CC79-151	VIS		
CC	FM-72B	G-2	CC80-151	VIS		
CC	FM-72B	I-2	CC81-151	VIS		
CC	FM-72B	I-1	CC89-121	VIS		
CC	FM-72C	G-8	CC14-121	VIS		
CC	FM-72C	J-2	CC143-121	VIS		
CC	FM-72C	G-8	CC15-121	VIS		
CC	FM-72C	K-1	CC151-151	VIS		
CC	FM-72C	G-3	CC153-151	VIS		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 262
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72C	F-2	CC154-151	VIS		
CC	FM-72C	E-3	CC155-151	VIS		
CC	FM-72C	G-1	CC161-121	VIS		
CC	FM-72C	H-2	CC169-121	VIS		
CC	FM-72C	H-2	CC177-151	VIS		
CC	FM-72C	L-4	CC301-151	VIS		
CC	FM-72C	K-4	CC302-151	VIS		
CC	FM-72C	L-4	CC303-151	VIS		
CC	FM-72C	L-5	CC304-151	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      263 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : 01.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72C	J-5	CC364-151	VIS		
CC	FM-72C	K-4	CC383-121	VIS		
CC	FM-72C	K-5	CC385-151	VIS		
CC	FM-72C	H-3	CC473-151	VIS		
CC	FM-72C	J-5	CC474-151	VIS		
CC	FM-72C	I-7	CC61-151	VIS		
CC	FM-72C	I-6	CC62-151	VIS		
CC	FM-72C	I-3	CC65-121	VIS		
CC	FM-72C	J-6	CC66-151	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      264 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY D-A    SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72C	H-4	CC67-151	VIS		
CC	FM-72C	I-3	CC69-151	VIS		
CC	FM-72C	J-7	CC70-121	VIS		
CC	FM-72C	J-3	CC70-151	VIS		
CC	FM-72C	J-4	CC71-151	VIS		
CC	FM-72C	K-2	CC72-121	VIS		
CC	FM-72C	I-1	CC81-121	VIS		
CC	FM-72D	C-2	CC1-121	VIS		
CC	FM-72D	B-2	CC19-121	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      265 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72D	C-2	CC2-121	VIS		
CC	FM-72D	A-2	CC20-151	VIS		
CC	FM-72D	A-3	CC21-151	VIS		
CC	FM-72D	A-2	CC22-151	VIS		
CC	FM-72D	D-2	CC220-121	VIS		
CC	FM-72D	A-3	CC222-151	VIS		
CC	FM-72D	D-3	CC224-121	VIS		
CC	FM-72D	F-2	CC225-121	VIS		
CC	FM-72D	J-1	CC226-121	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      266 *
*                * REVISION  0003 *
*                * DATE    86/10/20 *
*
*****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72D	D-2	CC227-121	VIS		
CC	FM-72D	D-2	CC228-121	VIS		
CC	FM-72D	D-3	CC229-121	VIS		
CC	FM-72D	D-1	CC230-121	VIS		
CC	FM-72D	E-1	CC231-121	VIS		
CC	FM-72D	E-2	CC232-121	VIS		
CC	FM-72D	E-3	CC233-121	VIS		
CC	FM-72D	E-4	CC234-151	VIS		
CC	FM-72D	G-1	CC235-121	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72D	F-1	CC236-121	VIS		
CC	FM-72D	F-1	CC237-121	VIS		
CC	FM-72D	L-2	CC27-121	VIS		
CC	FM-72D	C-3	CC3-121	VIS		
CC	FM-72D	F-8	CC314-151	VIS		
CC	FM-72D	D-3	CC319-151	VIS		
CC	FM-72D	B-1	CC320-151	VIS		
CC	FM-72D	C-3	CC4-121	VIS		
CC	FM-72D	D-2	CC5-121	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY        POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      268 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY D-A    SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72D	D-3	CC6-121	VIS		
CC	FM-72D	L-1	CC7-121	VIS		
CC	FM-72D	K-1	CC9-121	VIS		
CH	FM-88A	D-4	CH139-152	VIS		
CH	FM-88A	F-4	CH140-152	VIS		
CH	FM-88A	H-8	CH141-152	VIS		
CH	FM-88A	F-6	CH142-152	VIS		
CH	FM-88A	G-7	CH143-152	VIS		
CH	FM-88A	F-6	CH144-152	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      269 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	D-5	CH145-152	VIS		
CH	FM-88A	D-5	CH146-152	VIS		
CH	FM-88A	F-5	CH147-152	VIS		
CH	FM-88A	C-7	CH148-152	VIS		
CH	FM-88A	D-6	CH149-152	VIS		
CH	FM-88A	D-6	CH150-152	VIS		
CH	FM-88A	C-4	CH152-152	VIS		
CH	FM-88A	D-4	CH153-152	VIS		
CH	FM-88A	G-4	CH154-152	VIS		


```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      270 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CH	FM-88A	H-7	CH155-152	VIS		
CH	FM-88A	E-7	CH156-152	VIS		
CH	FM-88A	E-6	CH158-152	VIS		
CH	FM-88A	H-5	CH179-152	VIS		
CH	FM-88A	E-5	CH180-152	VIS		
CH	FM-88A	B-5	CH181-152	VIS		
CH	FM-88A	A-6	CH229-152	VIS		
CH	FM-88A	J-7	CH230-152	VIS		
CH	FM-88A	E-7	CH241-152	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      271 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	D-5	CH243-152	VIS		
CH	FM-88A	D-4	CH245-152	VIS		
CH	FM-88A	F-4	CH246-152	VIS		
CH	FM-88A	C-8	CH34-152	VIS		
CH	FM-88A	I-7	CH342-152	VIS		
CH	FM-88A	C-8	CH35-152	VIS		
CH	FM-88A	E-8	CH36-152	VIS		
CH	FM-88A	F-8	CH37-152	VIS		
CH	FM-88A	C-5	CH38-152	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY      POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      272 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY D-A    SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	E-6	CH39-152	VIS		
CH	FM-88A	E-7	CH40-152	VIS		
CH	FM-88A	G-5	CH41-152	VIS		
CH	FM-88A	A-8	CH42-152	VIS		
CH	FM-88A	B-6	CH43-152	VIS		
CH	FM-88A	E-8	CH52-152	VIS		
CH	FM-88A	F-8	CH53-152	VIS		
CH	FM-88A	F-7	CH61-152	VIS		
CH	FM-88A	D-7	CH62-152	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          273 *
*                               * REVISION    0003 *
*                               * DATE      86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H
ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	H-6	CH64-152	VIS		
CH	FM-88B	J-3	CH195-152	VIS		
CH	FM-88B	K-4	CH56-152	VIS		
CH	FM-88B	J-6	CH57-152	VIS		
CH	FM-88B	J-3	CH58-152	VIS		
FW	FM-68A	F-8	WAPD-151	VIS		
FW	FM-68A	E-6	WAPD1-601	VIS		
FW	FM-68A	C-6	WAPD10-601	VIS		
FW	FM-68A	B-5	WAPD11-601	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      274 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	B-6	WAPD12-601	VIS		
FW	FM-68A	B-6	WAPD13-601	VIS		
FW	FM-68A	B-6	WAPD14-601	VIS		
FW	FM-68A	D-7	WAPD15-601	VIS		
FW	FM-68A	K-2	WAPD152-601	VIS		
FW	FM-68A	D-6	WAPD16-151	VIS		
FW	FM-68A	E-7	WAPD17-601	VIS		
FW	FM-68A	F-6	WAPD18-151	VIS		
FW	FM-68A	F-6	WAPD19-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      275 *
*                               * REVISION  0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	E-6	WAPD2-601	VIS		
FW	FM-68A	G-7	WAPD20-601	VIS		
FW	FM-68A	G-6	WAPD21-151	VIS		
FW	FM-68A	D-7	WAPD3-601	VIS		
FW	FM-68A	D-6	WAPD4-601	VIS		
FW	FM-68A	E-6	WAPD5-601	VIS		
FW	FM-68A	F-6	WAPD6-601	VIS		
FW	FM-68A	F-6	WAPD7-601	VIS		
FW	FM-68A	G-6	WAPD8-601	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      276 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	C-4	WAPD9-601	VIS		
FW	FM-68A	E-8	WCMU10-151	VIS		
FW	FM-68A	D-8	WCMU11-151	VIS		
FW	FM-68A	G-8	WCMU151	VIS		
FW	FM-68A	H-8	WCMU4-151	VIS		
FW	FM-68A	H-8	WCMU5-151	VIS		
FW	FM-68A	E-8	WCMU54-151	VIS		
FW	FM-68A	G-8	WCMU56-151	VIS		
FW	FM-68A	H-8	WCMU6-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      277 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*
*****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H
ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	H-8	WCMU7-151	VIS		
FW	FM-68A	F-8	WCMU8-151	VIS		
FW	FM-68A	G-8	WCMU9-151	VIS		
FW	FM-68B	K-4	WAPD150-601	VIS		
FW	FM-68B	I-3	WAPD151-601	VIS		
FW	FM-68B	J-6	WAPD50-601	VIS		
FW	FM-68B	I-7	WAPD51-601	VIS		
FW	FM-68B	K-6	WAPD52-601	VIS		
FW	FM-68B	E-5	WCMU111-151	VIS		


```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      278 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68B	E-6	WCMU153-151	VIS		
FW	FM-68B	E-7	WCMU154-151	VIS		
FW	FM-68B	E-8	WCMU156-151	VIS		
FW	FM-68B	E-2	WCMU53-151	VIS		
MS	FM-64A	B-5	SHP25-601	VIS		
MS	FM-64A	B-6	SHP26-601	VIS		
MS	FM-64A	C-7	SHP27-601	VIS		
MS	FM-64A	C-8	SHP28-601	VIS		
MS	FM-64A	C-7	SHP29-601	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 279
* REVISION 0003
* DATE 86/10/20
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10H

ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-HYDROSTATIC

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-7	SHP30-601	VIS		
MS	FM-64A	F-8	SHP31-601	VIS		
MS	FM-64A	B-7	SHP32-601	VIS		
MS	FM-64A	G-8	SHP57-601	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY,
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      280 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.105

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-71B	D-7	CC335-151	VIS		
CC	FM-71B	G-6	CC336-151	VIS		
CC	FM-71B	F-7	CC337-151	VIS		
CC	FM-71B	F-6	CC338-151	VIS		
CC	FM-71B	G-6	CC339-151	VIS		
CC	FM-71B	D-5	CC340-151	VIS		
CC	FM-71B	G-5	CC341-151	VIS		
CC	FM-71B	E-5	CC342-151	VIS		
CC	FM-71B	D-4	CC343-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      281 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-71B	I-4	CC344-151	VIS		
CC	FM-71B	G-4	CC345-151	VIS		
CC	FM-71B	H-4	CC346-151	VIS		
CC	FM-71B	E-4	CC347-151	VIS		
CC	FM-71B	B-4	CC348-151	VIS		
CC	FM-71B	G-4	CC349-151	VIS		
CC	FM-71B	H-6	CC350-151	VIS		
CC	FM-71B	E-6	CC351-151	VIS		
CC	FM-72A	A-3	CC100-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      282 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	E-6	CC101-151	VIS		
CC	FM-72A	D-3	CC102-151	VIS		
CC	FM-72A	D-3	CC103-151	VIS		
CC	FM-72A	D-4	CC104-151	VIS		
CC	FM-72A	E-7	CC105-151	VIS		
CC	FM-72A	F-4	CC107-151	VIS		
CC	FM-72A	F-5	CC108-151	VIS		
CC	FM-72A	E-6	CC109-151	VIS		
CC	FM-72A	H-7	CC110-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      283 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	H-4	CC112-151	VIS		
CC	FM-72A	H-5	CC113-151	VIS		
CC	FM-72A	H-6	CC114-151	VIS		
CC	FM-72A	L-3	CC16-121	VIS		
CC	FM-72A	J-4	CC17-121	VIS		
CC	FM-72A	A-2	CC200-151	VIS		
CC	FM-72A	D-2	CC201-151	VIS		
CC	FM-72A	A-4	CC202-151	VIS		
CC	FM-72A	D-4	CC203-151	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      284 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-6	CC204-151	VIS		
CC	FM-72A	D-6	CC205-151	VIS		
CC	FM-72A	E-2	CC206-151	VIS		
CC	FM-72A	H-5	CC207-151	VIS		
CC	FM-72A	E-2	CC246-151	VIS		
CC	FM-72A	H-8	CC247-151	VIS		
CC	FM-72A	F-6	CC305-151	VIS		
CC	FM-72A	H-6	CC306-151	VIS		
CC	FM-72A	F-7	CC307-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      285 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	G-7	CC308-151	VIS		
CC	FM-72A	F-1	CC8-121	VIS		
CC	FM-72A	A-6	CC82-151	VIS		
CC	FM-72A	A-7	CC83-151	VIS		
CC	FM-72A	A-7	CC84-151	VIS		
CC	FM-72A	D-7	CC85-151	VIS		
CC	FM-72A	D-7	CC86-151	VIS		
CC	FM-72A	C-7	CC87-151	VIS		
CC	FM-72A	E-7	CC88-151	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      286 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : DI.105

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-5	CC89-151	VIS		
CC	FM-72A	A-4	CC90-151	VIS		
CC	FM-72A	A-5	CC91-151	VIS		
CC	FM-72A	A-5	CC92-151	VIS		
CC	FM-72A	D-6	CC93-151	VIS		
CC	FM-72A	D-5	CC94-151	VIS		
CC	FM-72A	C-5	CC95-151	VIS		
CC	FM-72A	D-6	CC96-151	VIS		
CC	FM-72A	A-3	CC97-151	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      287 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72A	A-2	CC98-151	VIS		
CC	FM-72A	A-3	CC99-151	VIS		
CC	FM-72B	A-1	CC10-121	VIS		
CC	FM-72B	A-1	CC115-151	VIS		
CC	FM-72B	E-3	CC120-151	VIS		
CC	FM-72B	I-4	CC75-151	VIS		
CC	FM-72B	F-3	CC76-151	VIS		
CC	FM-72B	E-4	CC77-151	VIS		
CC	FM-72B	E-1	CC78-151	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      288 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72B	F-4	CC79-151	VIS		
CC	FM-72B	G-2	CC80-151	VIS		
CC	FM-72B	I-2	CC81-151	VIS		
CC	FM-72B	I-1	CC89-121	VIS		
CC	FM-72C	G-8	CC14-121	VIS		
CC	FM-72C	J-2	CC143-121	VIS		
CC	FM-72C	G-8	CC15-121	VIS		
CC	FM-72C	K-1	CC151-151	VIS		
CC	FM-72C	G-3	CC153-151	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 289
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72C	F-2	CC154-151	VIS		
CC	FM-72C	E-3	CC155-151	VIS		
CC	FM-72C	G-1	CC161-121	VIS		
CC	FM-72C	H-2	CC169-121	VIS		
CC	FM-72C	H-2	CC177-151	VIS		
CC	FM-72C	L-4	CC301-151	VIS		
CC	FM-72C	K-4	CC302-151	VIS		
CC	FM-72C	L-4	CC303-151	VIS		
CC	FM-72C	L-5	CC304-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      290 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72C	J-5	CC364-151	VIS		
CC	FM-72C	K-4	CC383-121	VIS		
CC	FM-72C	K-5	CC385-151	VIS		
CC	FM-72C	H-3	CC473-151	VIS		
CC	FM-72C	J-5	CC474-151	VIS		
CC	FM-72C	I-7	CC61-151	VIS		
CC	FM-72C	I-6	CC62-151	VIS		
CC	FM-72C	I-3	CC65-121	VIS		
CC	FM-72C	J-6	CC66-151	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : 01.10S

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72C	H-4	CC67-151	VIS		
CC	FM-72C	I-3	CC69-151	VIS		
CC	FM-72C	J-7	CC70-121	VIS		
CC	FM-72C	J-3	CC70-151	VIS		
CC	FM-72C	J-4	CC71-151	VIS		
CC	FM-72C	K-2	CC72-121	VIS		
CC	FM-72C	I-1	CC81-121	VIS		
CC	FM-72D	C-2	CC1-121	VIS		
CC	FM-72D	B-2	CC19-121	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 292
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72D	C-2	CC2-121	VIS		
CC	FM-72D	A-2	CC20-151	VIS		
CC	FM-72D	A-3	CC21-151	VIS		
CC	FM-72D	A-2	CC22-151	VIS		
CC	FM-72D	D-2	CC220-121	VIS		
CC	FM-72D	A-3	CC222-151	VIS		
CC	FM-72D	D-3	CC224-121	VIS		
CC	FM-72D	F-2	CC225-121	VIS		
CC	FM-72D	J-1	CC226-121	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      293 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.105

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72D	D-2	CC227-121	VIS		
CC	FM-72D	D-2	CC228-121	VIS		
CC	FM-72D	D-3	CC229-121	VIS		
CC	FM-72D	D-1	CC230-121	VIS		
CC	FM-72D	E-1	CC231-121	VIS		
CC	FM-72D	E-2	CC232-121	VIS		
CC	FM-72D	E-3	CC233-121	VIS		
CC	FM-72D	E-4	CC234-151	VIS		
CC	FM-72D	G-1	CC235-121	VIS		


```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      294 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72D	F-1	CC236-121	VIS		
CC	FM-72D	F-1	CC237-121	VIS		
CC	FM-72D	L-2	CC27-121	VIS		
CC	FM-72D	C-3	CC3-121	VIS		
CC	FM-72D	F-8	CC314-151	VIS		
CC	FM-72D	D-3	CC319-151	VIS		
CC	FM-72D	B-1	CC320-151	VIS		
CC	FM-72D	C-3	CC4-121	VIS		
CC	FM-72D	D-2	CC5-121	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      295 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*
*****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72D	D-3	CC6-121	VIS		
CC	FM-72D	L-1	CC7-121	VIS		
CC	FM-72D	K-1	CC9-121	VIS		
CH	FM-88A	D-4	CH139-152	VIS		
CH	FM-88A	F-4	CH140-152	VIS		
CH	FM-88A	H-8	CH141-152	VIS		
CH	FM-88A	F-6	CH142-152	VIS		
CH	FM-88A	G-7	CH143-152	VIS		
CH	FM-88A	F-6	CH144-152	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      296  *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.105

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	D-5	CH145-152	VIS		
CH	FM-88A	D-5	CH146-152	VIS		
CH	FM-88A	F-5	CH147-152	VIS		
CH	FM-88A	C-7	CH148-152	VIS		
CH	FM-88A	D-6	CH149-152	VIS		
CH	FM-88A	D-6	CH150-152	VIS		
CH	FM-88A	C-4	CH152-152	VIS		
CH	FM-88A	D-4	CH153-152	VIS		
CH	FM-88A	G-4	CH154-152	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      297 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	H-7	CH155-152	VIS		
CH	FM-88A	E-7	CH156-152	VIS		
CH	FM-88A	E-6	CH158-152	VIS		
CH	FM-88A	H-5	CH179-152	VIS		
CH	FM-88A	E-5	CH180-152	VIS		
CH	FM-88A	B-5	CH181-152	VIS		
CH	FM-88A	A-6	CH229-152	VIS		
CH	FM-88A	J-7	CH230-152	VIS		
CH	FM-88A	E-7	CH241-152	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	D-5	CH243-152	VIS		
CH	FM-88A	D-4	CH245-152	VIS		
CH	FM-88A	F-4	CH246-152	VIS		
CH	FM-88A	C-8	CH34-152	VIS		
CH	FM-88A	I-7	CH342-152	VIS		
CH	FM-88A	C-8	CH35-152	VIS		
CH	FM-88A	E-8	CH36-152	VIS		
CH	FM-88A	F-8	CH37-152	VIS		
CH	FM-88A	C-5	CH38-152	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      299 *
*                               * REVISION 0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	E-6	CH39-152	VIS		
CH	FM-88A	E-7	CH40-152	VIS		
CH	FM-88A	G-5	CH41-152	VIS		
CH	FM-88A	A-8	CH42-152	VIS		
CH	FM-88A	B-6	CH43-152	VIS		
CH	FM-88A	E-8	CH52-152	VIS		
CH	FM-88A	F-8	CH53-152	VIS		
CH	FM-88A	F-7	CH61-152	VIS		
CH	FM-88A	D-7	CH62-152	VIS		

```

*****
*
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*
*
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

```

ITEM NUMBER      : D1.10S
ITEM DESCRIPTION : COMPONENTS IN SUPPORT OF RX SHUTDOWN-SYSTEM LEAKAGE

```

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CH	FM-88A	H-6	CH64-152	VIS		
CH	FM-88B	J-3	CH195-152	VIS		
CH	FM-88B	K-4	CH56-152	VIS		
CH	FM-88B	J-6	CH57-152	VIS		
CH	FM-88B	J-3	CH58-152	VIS		
FW	FM-68A	F-8	WAPD-151	VIS		
FW	FM-68A	E-6	WAPD1-601	VIS		
FW	FM-68A	C-6	WAPD10-601	VIS		
FW	FM-68A	B-5	WAPD11-601	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      301 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	B-6	WAPD12-601	VIS		
FW	FM-68A	B-6	WAPD13-601	VIS		
FW	FM-68A	B-6	WAPD14-601	VIS		
FW	FM-68A	D-7	WAPD15-601	VIS		
FW	FM-68A	K-2	WAPD152-601	VIS		
FW	FM-68A	D-6	WAPD16-151	VIS		
FW	FM-68A	E-7	WAPD17-601	VIS		
FW	FM-68A	F-6	WAPD18-151	VIS		
FW	FM-68A	F-6	WAPD19-151	VIS		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	E-6	WAPD2-601	VIS		
FW	FM-68A	G-7	WAPD20-601	VIS		
FW	FM-68A	G-6	WAPD21-151	VIS		
FW	FM-68A	D-7	WAPD3-601	VIS		
FW	FM-68A	D-6	WAPD4-601	VIS		
FW	FM-68A	E-6	WAPD5-601	VIS		
FW	FM-68A	F-6	WAPD6-601	VIS		
FW	FM-68A	F-6	WAPD7-601	VIS		
FW	FM-68A	G-6	WAPD8-601	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*
*****
* CATEGORY D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68A	C-4	WAPD9-601	VIS		
FW	FM-68A	E-8	WCMU10-151	VIS		
FW	FM-68A	D-8	WCMU11-151	VIS		
FW	FM-68A	G-8	WCMU151	VIS		
FW	FM-68A	H-8	WCMU4-151	VIS		
FW	FM-68A	H-8	WCMU5-151	VIS		
FW	FM-68A	E-8	WCMU54-151	VIS		
FW	FM-68A	G-8	WCMU56-151	VIS		
FW	FM-68A	H-8	WCMU6-151	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      304 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-A   SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
FW	FM-68A	H-8	WCMU7-151	VIS		
FW	FM-68A	F-8	WCMU8-151	VIS		
FW	FM-68A	G-8	WCMU9-151	VIS		
FW	FM-68B	K-4	WAPD150-601	VIS		
FW	FM-68B	I-3	WAPD151-601	VIS		
FW	FM-68B	J-6	WAPD50-601	VIS		
FW	FM-68B	I-7	WAPD51-601	VIS		
FW	FM-68B	K-6	WAPD52-601	VIS		
FW	FM-68B	E-5	WCMU111-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      305 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.105

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
FW	FM-68B	E-6	WCMU153-151	VIS		
FW	FM-68B	E-7	WCMU154-151	VIS		
FW	FM-68B	E-8	WCMU156-151	VIS		
FW	FM-68B	E-2	WCMU53-151	VIS		
MS	FM-64A	B-5	SHP25-601	VIS		
MS	FM-64A	B-6	SHP26-601	VIS		
MS	FM-64A	C-7	SHP27-601	VIS		
MS	FM-64A	C-8	SHP28-601	VIS		
MS	FM-64A	C-7	SHP29-601	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      306 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
*
*****

```

ITEM NUMBER : D1.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
MS	FM-64A	C-7	SHP30-601	VIS		
MS	FM-64A	F-8	SHP31-601	VIS		
MS	FM-64A	B-7	SHP32-601	VIS		
MS	FM-64A	G-8	SHP57-601	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          307 *
*                               * REVISION    0003 *
*                               * DATE    86/10/20 *
*
*****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10H

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	E-6	WC1-10	VIS		
SW	FM-71A	E-6	WC2-10	VIS		
SW	FM-71A	F-6	WC3-10	VIS		
SW	FM-71A	F-6	WC4-10	VIS		
SW	FM-71A	C-7	WS1-10	VIS		
SW	FM-71A	G-6	WS12-10	VIS		
SW	FM-71A	G-6	WS13-10	VIS		
SW	FM-71A	H-4	WS14-10	VIS		
SW	FM-71A	H-5	WS15-10	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10H

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	H-5	WS16-10	VIS		
SW	FM-71A	G-3	WS17-10	VIS		
SW	FM-71A	G-4	WS18-10	VIS		
SW	FM-71A	G-5	WS19-10	VIS		
SW	FM-71A	C-7	WS2-10	VIS		
SW	FM-71A	D-5	WS21-10	VIS		
SW	FM-71A	D-7	WS22-10	VIS		
SW	FM-71A	A-6	WS23-10	VIS		
SW	FM-71A	B-7	WS24-10	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 309 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10H

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	A-3	WS26-10	VIS		
SW	FM-71A	B-3	WS28-10	VIS		
SW	FM-71A	C-3	WS30-10	VIS		
SW	FM-71A	C-3	WS32-10	VIS		
SW	FM-71A	A-3	WS33-10	VIS		
SW	FM-71A	B-3	WS34-10	VIS		
SW	FM-71A	B-3	WS35-10	VIS		
SW	FM-71A	C-3	WS36-10	VIS		
SW	FM-71A	D-3	WS37-10	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      310 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10H

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	D-3	WS38-10	VIS		
SW	FM-71A	I-6	WS39-10	VIS		
SW	FM-71A	C-7	WS4-10	VIS		
SW	FM-71A	H-6	WS40-10	VIS		
SW	FM-71A	G-6	WS41-10	VIS		
SW	FM-71A	F-6	WS42-136	VIS		
SW	FM-71A	I-8	WS51-10	VIS		
SW	FM-71A	I-8	WS52-10	VIS		
SW	FM-71A	I-8	WS53-136	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 311
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10H

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	J-7	WS55-136	VIS		
SW	FM-71A	J-7	WS56-136	VIS		
SW	FM-71A	J-7	WS57-136	VIS		
SW	FM-71A	K-7	WS58-136	VIS		
SW	FM-71B	B-7	WS178-136	VIS		
SW	FM-71B	D-8	WS70-136	VIS		
SW	FM-71B	D-8	WS71-136	VIS		
SW	FM-71B	G-8	WS72-136	VIS		
SW	FM-71B	G-8	WS73-136	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      312 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10H

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71B	D-7	WS74-21X	VIS		
SW	FM-71B	G-7	WS75-21X	VIS		
SW	FM-71B	F-8	WS76-21B	VIS		
SW	FM-71B	C-8	WS77-21B	VIS		
SW	FM-71B	B-6	WS78-136	VIS		
SW	FM-71B	C-1	WS79-21B	VIS		
SW	FM-71B	H-1	WS80-21B	VIS		
SW	FM-71B	D-1	WS81-21X	VIS		
SW	FM-71B	H-1	WS82-21X	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      313 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10H

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71B	E-1	WS83-21B	VIS		
SW	FM-71B	E-1	WS84-21B	VIS		
SW	FM-71B	A-1	WS85-21B	VIS		
SW	FM-71B	E-1	WS86-21B	VIS		
SW	FM-71B	H-2	WS87-21B	VIS		
SW	FM-71B	D-2	WS88-21B	VIS		
SW	FM-71B	A-6	WS89-136	VIS		
SW	FM-71B	E-7	WS90-136	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	E-6	WC1-10	VIS		
SW	FM-71A	E-6	WC2-10	VIS		
SW	FM-71A	F-6	WC3-10	VIS		
SW	FM-71A	F-6	WC4-10	VIS		
SW	FM-71A	C-7	WS1-10	VIS		
SW	FM-71A	G-6	WS12-10	VIS		
SW	FM-71A	G-6	WS13-10	VIS		
SW	FM-71A	H-4	WS14-10	VIS		
SW	FM-71A	H-5	WS15-10	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      315 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-B   ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	H-5	WS16-10	VIS		
SW	FM-71A	G-3	WS17-10	VIS		
SW	FM-71A	G-4	WS18-10	VIS		
SW	FM-71A	G-5	WS19-10	VIS		
SW	FM-71A	C-7	WS2-10	VIS		
SW	FM-71A	D-5	WS21-10	VIS		
SW	FM-71A	D-7	WS22-10	VIS		
SW	FM-71A	A-6	WS23-10	VIS		
SW	FM-71A	B-7	WS24-10	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      316 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.105

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	A-3	WS26-10	VIS		
SW	FM-71A	B-3	WS28-10	VIS		
SW	FM-71A	C-3	WS30-10	VIS		
SW	FM-71A	C-3	WS32-10	VIS		
SW	FM-71A	A-3	WS33-10	VIS		
SW	FM-71A	B-3	WS34-10	VIS		
SW	FM-71A	B-3	WS35-10	VIS		
SW	FM-71A	C-3	WS36-10	VIS		
SW	FM-71A	D-3	WS37-10	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY *****
* INTERVAL 2, 12/22/82 TO 12/22/92 * PAGE 317 *
* ASME SECTION XI EDITION 80W80 * REVISION 0003 *
* * DATE 86/10/20 *
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	D-3	WS38-10	VIS		
SW	FM-71A	I-6	WS39-10	VIS		
SW	FM-71A	C-7	WS4-10	VIS		
SW	FM-71A	H-6	WS40-10	VIS		
SW	FM-71A	G-6	WS41-10	VIS		
SW	FM-71A	F-6	WS42-136	VIS		
SW	FM-71A	I-8	WS51-10	VIS		
SW	FM-71A	I-8	WS52-10	VIS		
SW	FM-71A	I-8	WS53-136	VIS		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.105

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	J-7	WS55-136	VIS		
SW	FM-71A	J-7	WS56-136	VIS		
SW	FM-71A	J-7	WS57-136	VIS		
SW	FM-71A	K-7	WS58-136	VIS		
SW	FM-71B	B-7	WS178-136	VIS		
SW	FM-71B	D-8	WS70-136	VIS		
SW	FM-71B	D-8	WS71-136	VIS		
SW	FM-71B	G-8	WS72-136	VIS		
SW	FM-71B	G-8	WS73-136	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      319 *
*               * REVISION  0003 *
*               * DATE  86/10/20 *
*               *****
* CATEGORY D-B   ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.10S

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71B	D-7	WS74-21X	VIS		
SW	FM-71B	G-7	WS75-21X	VIS		
SW	FM-71B	F-8	WS76-21B	VIS		
SW	FM-71B	C-8	WS77-21B	VIS		
SW	FM-71B	B-6	WS78-136	VIS		
SW	FM-71B	C-1	WS79-21B	VIS		
SW	FM-71B	H-1	WS80-21B	VIS		
SW	FM-71B	D-1	WS81-21X	VIS		
SW	FM-71B	H-1	WS82-21X	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      320 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.105

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71B	E-1	WS83-21B	VIS		
SW	FM-71B	E-1	WS84-21B	VIS		
SW	FM-71B	A-1	WS85-21B	VIS		
SW	FM-71B	E-1	WS86-21B	VIS		
SW	FM-71B	H-2	WS87-21B	VIS		
SW	FM-71B	D-2	WS88-21B	VIS		
SW	FM-71B	A-6	WS89-136	VIS		
SW	FM-71B	E-7	WS90-136	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      321 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
AF	FM-68A	E-6	WAPD1-601	VIS		
AF	FM-68A	D-7	WAPD15-601	VIS		
AF	FM-68A	D-7	WAPD150-601	VIS		
AF	FM-68A	H-8	WCMU5-151	VIS		
AF	FM-68A	H-8	WCMU6-151	VIS		
AF	FM-68A	H-8	WCMU7-151	VIS		
AF	FM-68A	F-8	WCMU8-151	VIS		
AF	FM-68B	J-6	WAPD50-601	VIS		
AF	FM-68B	D-2	WCMU52-151	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* *****
* PAGE 322
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
AF	FM-68B	E-2	WCMU53-151	VIS		
AF	FM-68B	D-3	WCMU55-151	VIS		
AF	FM-72D	A-1	WCMU14-301	VIS		
CC	FM-72A	E-7	CC101-151	VIS		
CC	FM-72A	D-7	CC104-151	VIS		
CC	FM-72A	H-4	CC112-151	VIS		
CC	FM-72A	L-3	CC16-121	VIS		
CC	FM-72A	J-4	CC17-121	VIS		
CC	FM-72A	D-7	CC205-151	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	G-2	CC262-151	VIS		
CC	FM-72A	G-2	CC296-151	VIS		
CC	FM-72A	F-1	CC8-121	VIS		
CC	FM-72A	A-6	CC82-151	VIS		
CC	FM-72A	D-7	CC85-151	VIS		
CC	FM-72A	E-7	CC98-151	VIS		
CC	FM-72A	A-5	CC89-151	VIS		
CC	FM-72A	A-4	CC90-151	VIS		
CC	FM-72A	D-6	CC93-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      324 *
*                               * REVISION  0003 *
*                               * DATE   86/10/20 *
*
*****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	A-3	CC97-151	VIS		
CC	FM-72B	A-1	CC10-121	VIS		
CC	FM-72B	A-1	CC115-151	VIS		
CC	FM-72B	I-4	CC75-151	VIS		
CC	FM-72B	F-3	CC76-151	VIS		
CC	FM-72B	E-3	CC77-151	VIS		
CC	FM-72B	E-1	CC78-151	VIS		
CC	FM-72B	F-4	CC79-151	VIS		
CC	FM-72B	G-2	CC80-151	VIS		

```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72B	I-2	CC81-151	VIS		
CC	FM-72C	G-8	CC14-121	VIS		
CC	FM-72C	J-2	CC143-121	VIS		
CC	FM-72C	G-8	CC15-121	VIS		
CC	FM-72C	K-8	CC152-151	VIS		
CC	FM-72C	G-3	CC153-151	VIS		
CC	FM-72C	F-2	CC158-151	VIS		
CC	FM-72C	J-5	CC364-151	VIS		
CC	FM-72C	H-3	CC473-151	VIS		


```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      326 *
*                               * REVISION  0003 *
*                               * DATE  86/10/20 *
*
*****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72C	J-5	CC474-151	VIS		
CC	FM-72C	J-6	CC66-151	VIS		
CC	FM-72C	H-2	CC67-121	VIS		
CC	FM-72C	H-4	CC67-151	VIS		
CC	FM-72C	H-2	CC7-121	VIS		
CC	FM-72C	J-7	CC70-121	VIS		
CC	FM-72C	J-3	CC70-151	VIS		
CC	FM-72C	K-2	CC72-121	VIS		
CC	FM-72C	I-1	CC81-121	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      327 *
*                * REVISION 0003 *
*                * DATE 86/10/20 *
*                *****
* CATEGORY D-B    ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT	FLOW DIAGRAM (11448)	FLOW DIAGRAM COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM NOTES
=====	=====	=====	=====	=====	=====	=====
CC	FM-72D	C-2	CC1-121	VIS		
CC	FM-72D	B-2	CC19-121	VIS		
CC	FM-72D	C-2	CC2-121	VIS		
CC	FM-72D	A-2	CC20-151	VIS		
CC	FM-72D	F-2	CC225-121	VIS		
CC	FM-72D	J-1	CC226-121	VIS		
CC	FM-72D	D-2	CC227-121	VIS		
CC	FM-72D	D-2	CC228-121	VIS		
CC	FM-72D	D-3	CC229-121	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY          POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      328 *
*               * REVISION  0003 *
*               * DATE    86/10/20 *
*               *****
* CATEGORY D-B    ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72D	G-1	CC235-121	VIS		
CC	FM-72D	F-1	CC236-121	VIS		
CC	FM-72D	F-1	CC237-121	VIS		
CC	FM-72D	L-2	CC27-121	VIS		
CC	FM-72D	F-8	CC287-151	VIS		
CC	FM-72D	C-3	CC3-121	VIS		
CC	FM-72D	C-3	CC4-121	VIS		
CC	FM-72D	L-1	CC7-121	VIS		
CC	FM-72E	H-3	CC146-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE          329 *
*                               * REVISION    0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72E	H-2	CC148-151	VIS		
CC	FM-72F	F-3	CC149-151	VIS		
CC	FM-72F	D-2	CC156-151	VIS		
CC	FM-72F	D-2	CC159-151	VIS		
CC	FM-72F	D-2	CC160-151	VIS		
CC	FM-72F	C-2	CC165-151	VIS		
CC	FM-72F	A-2	CC184-151	VIS		
MS	FM-68A	K-2	WAPD152-601	VIS		
MS	FM-68A	E-6	WAPD2-601	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE          330 *
*                * REVISION    0003 *
*                * DATE      86/10/20 *
*                *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
RC	FM-86A	H-4	RC20-1502	VIS		
RC	FM-86B	E-4	RC36-602	VIS		
RC	FM-86B	H-4	RC40-602	VIS		
RC	FM-86B	F-4	RC41-602	VIS		
RC	FM-86B	J-4	RC62-602	VIS		
RHR	FM-87A	J-4	RH15-152	VIS		
SW	FM-71A	A-3	WS26-10	VIS		
SW	FM-71A	A-3	WS26-136	VIS		
SW	FM-71A	B-3	WS28-10	VIS		

```

*****
*
*                VIRGINIA ELECTRIC AND POWER COMPANY
*                SURRY          POWER STATION UNIT 1
*
*                INSERVICE INSPECTION PLAN SUMMARY
*                INTERVAL 2, 12/22/82 TO 12/22/92
*                ASME SECTION XI EDITION 80W80
*
*                *****
*                * PAGE      331 *
*                * REVISION  0003 *
*                * DATE 86/10/20 *
*
*****
* CATEGORY D-B    ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	B-3	WS28-136	VIS		
SW	FM-71A	C-3	WS30-10	VIS		
SW	FM-71A	C-3	WS30-136	VIS		
SW	FM-71A	C-3	WS32-10	VIS		
SW	FM-71A	C-3	WS32-136	VIS		
SW	FM-71A	B-3	WS33-136	VIS		
SW	FM-71A	B-3	WS34-136	VIS		
SW	FM-71A	B-3	WS35-136	VIS		
SW	FM-71A	B-3	WS36-136	VIS		

```

*****
*
*               VIRGINIA ELECTRIC AND POWER COMPANY
*               SURRY      POWER STATION UNIT 1
*
*               INSERVICE INSPECTION PLAN SUMMARY
*               INTERVAL 2, 12/22/82 TO 12/22/92
*               ASME SECTION XI EDITION 80W80
*
*               *****
*               * PAGE      332 *
*               * REVISION 0003 *
*               * DATE 86/10/20 *
*               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.20

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

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
SW	FM-71A	J-7	WS57-136	VIS		
SW	FM-71A	K-6	WS58-136	VIS		
SW	FM-71D	C-6	WS308-9107	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY      POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      333 *
*                               * REVISION 0003 *
*                               * DATE 86/10/20 *
*                               *****
* CATEGORY D-B   ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.30

ITEM DESCRIPTION : INTEGRAL ATTACHMENT-MECH. | HYD. SNUBBERS FOR ECCS, ETC.

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72C	6-3	CC153-151	VIS		


```

*****
*
* VIRGINIA ELECTRIC AND POWER COMPANY
* SURRY POWER STATION UNIT 1
*
* INSERVICE INSPECTION PLAN SUMMARY
* INTERVAL 2, 12/22/82 TO 12/22/92
* ASME SECTION XI EDITION 80W80
*
* PAGE 334
* REVISION 0003
* DATE 86/10/20
*
*****
* CATEGORY D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.40

ITEM DESCRIPTION : INTEGRAL ATTACHMENT-SPRING TYPE SUPPORTS FOR ECCS, ETC.

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72A	J-4	CC17-121	VIS		
CC	FM-72B	A-1	CC10-121	VIS		
CC	FM-72C	6-8	CC14-121	VIS		
CC	FM-72C	6-8	CC15-121	VIS		
CC	FM-72C	6-3	CC153-151	VIS		
CC	FM-72C	6-1	CC161-121	VIS		
CC	FM-72C	H-2	CC169-121	VIS		
CC	FM-72C	H-2	CC177-151	VIS		
CC	FM-72C	I-3	CC69-151	VIS		

```

*****
*
*                               VIRGINIA ELECTRIC AND POWER COMPANY
*                               SURRY          POWER STATION UNIT 1
*
*                               INSERVICE INSPECTION PLAN SUMMARY
*                               INTERVAL 2, 12/22/82 TO 12/22/92
*                               ASME SECTION XI EDITION 80W80
*
*                               *****
*                               * PAGE      335 *
*                               * REVISION  0003 *
*                               * DATE    86/10/20 *
*                               *****
* CATEGORY D-B      ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
*
*****

```

ITEM NUMBER : D2.40

ITEM DESCRIPTION : INTEGRAL ATTACHMENT-SPRING TYPE SUPPORTS FOR ECCS, ETC.

SYSTEM/ COMPONENT =====	FLOW DIAGRAM (11448) =====	FLOW DIAGRAM COORD =====	LINE NUMBER =====	EXAM METHOD =====	RELIEF REQUEST =====	PROGRAM NOTES =====
CC	FM-72F	D-2	CC159-151	VIS		
CC	FM-72F	C-2	CC165-151	VIS		
CC	FM-72F	B-2	CC173-151	VIS		
CC	FM-72F	A-2	CC181-151	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 Mr. Steven A. Varga dated January 24, 1984.

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 Mr. Steven A. Varga dated January 24, 1984.

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. Steven A. Varga dated January 24, 1984 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 examination will be performed in lieu of the volumetric examination.

Note: This relief request was granted by letter from Mr. Steven A. Varga dated January 24, 1984 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 Unit 1 Pressurizer is not accessible for examination. Additionally, the one foot long 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 an area 6 inches wide just below the weld. Inspection of the intersection of longitudinal weld #15 with weld #7 is prevented by a support column which spans between the two upper insulation support rings. The column covers weld #15 for a length of approximately two feet from the intersection (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 1/24/84 by Steven A. Varga 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. Also, in addition to the problem with weld #7 mentioned in the first request, inaccessibility to weld #15 has also been discussed in this revised relief request.

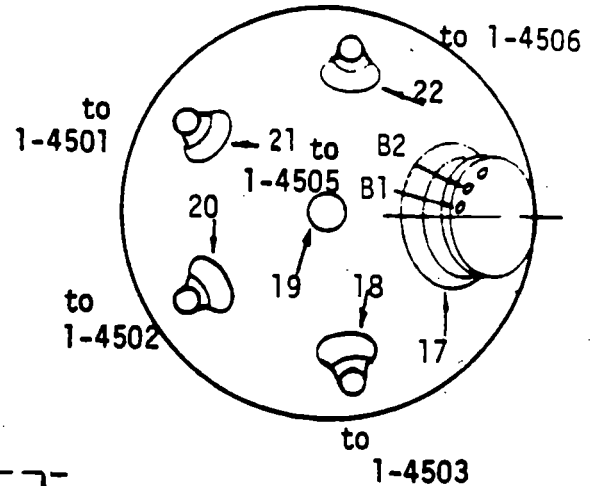
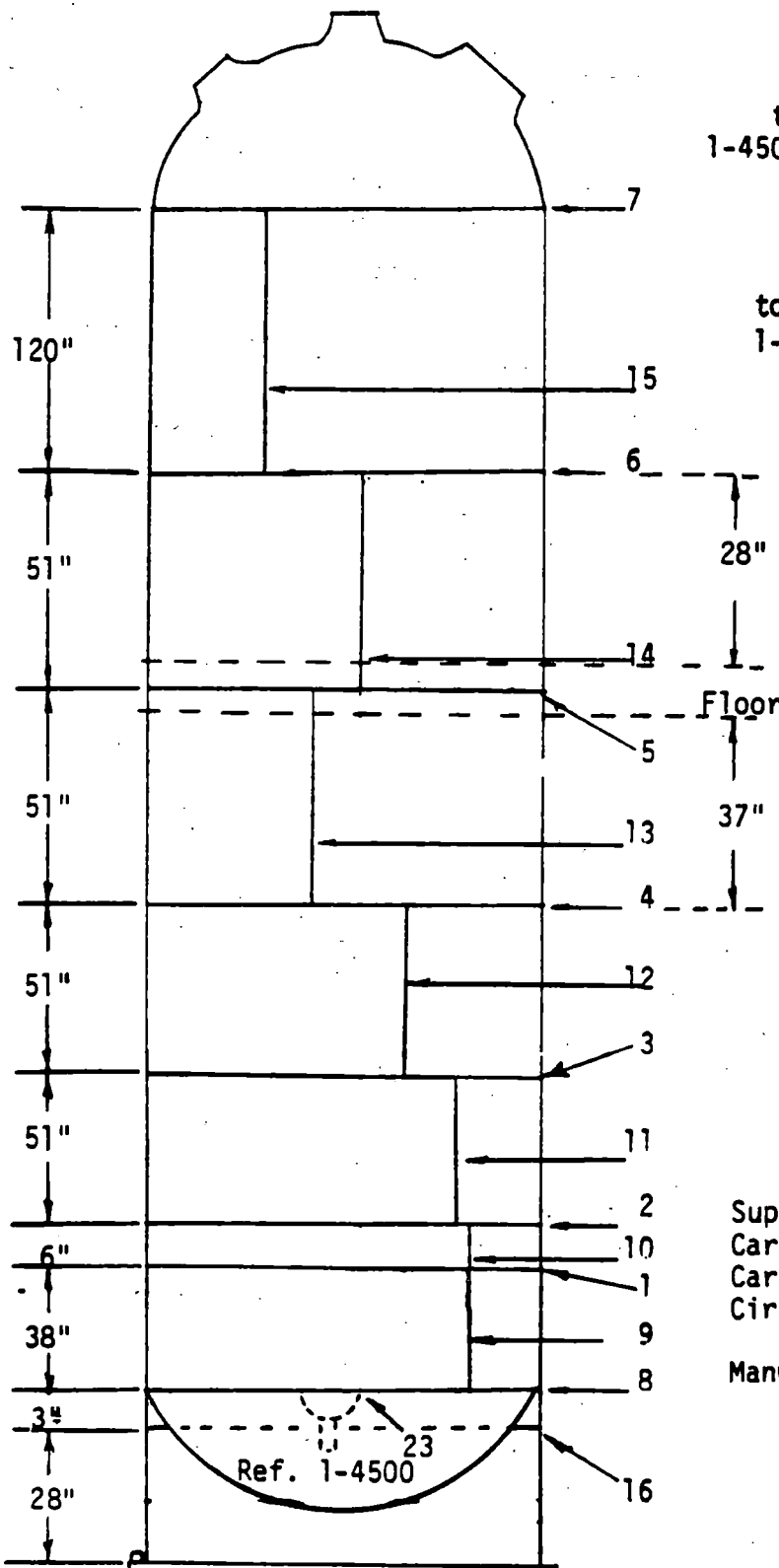
WESTINGHOUSE ELECTRIC CORPORATION

ILLUSTRATIVE ONLY

PRESSURIZER

VPA-1-2100

Rev. 1 6-18-85



CENTERLINE OF MANWAY

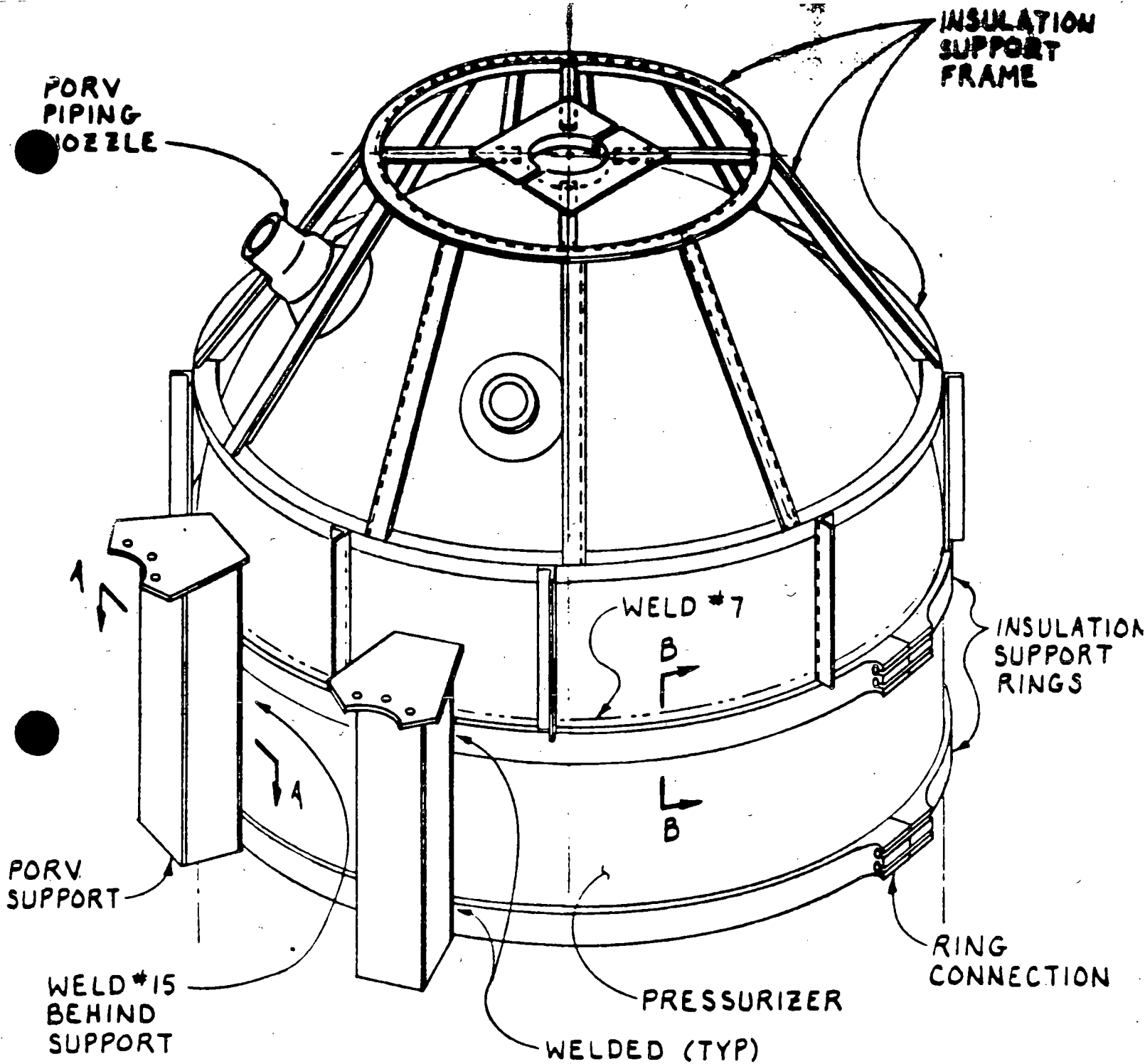
WELD	INCHES
9	8"CCW
10	8"CCW
11	18"CW
12	12"CCW
13	16"CW
14	10"CCW
15	123"CW

Welds 1 thru 15: 4.375" T
SA302 Grade B Carbon Steel
Diameter: 92.375";
Circumference: 290.05"

WELDS 17 THRU 23: Reference
only (welds are cast to
vessel)

Support Skirt Weld 16: 1.5" T
Carbon Steel Plate to SA516 Grade 70
Carbon Steel: Diameter: 92.375";
Circumference: 290"

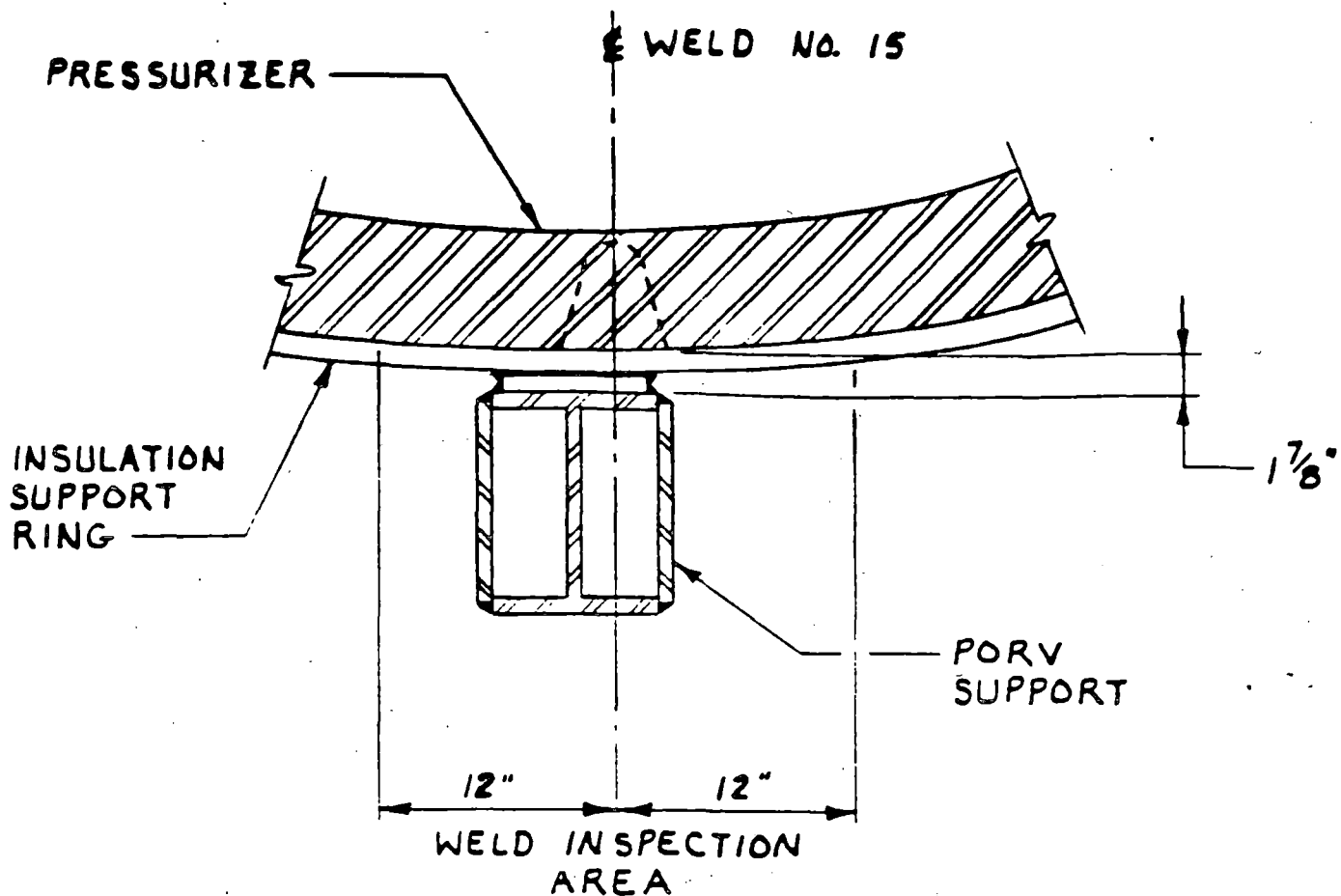
Manway Bolting: 16-1.875" Dia.
8.0" Length



INSULATION SUPPORT ISO
 (FOR STUDY OF INTERFERENCES
 WITH ISI NDE OF PRESSURIZER
 WELDS # 7 & 15)

DRAWN BY:	JWB
ENGINEER:	<i>Ed. P. Miller</i>
DATE:	1/13/86

PRESSURIZER INSULATION SUPPORT



SECTION A-A

N. T. S.

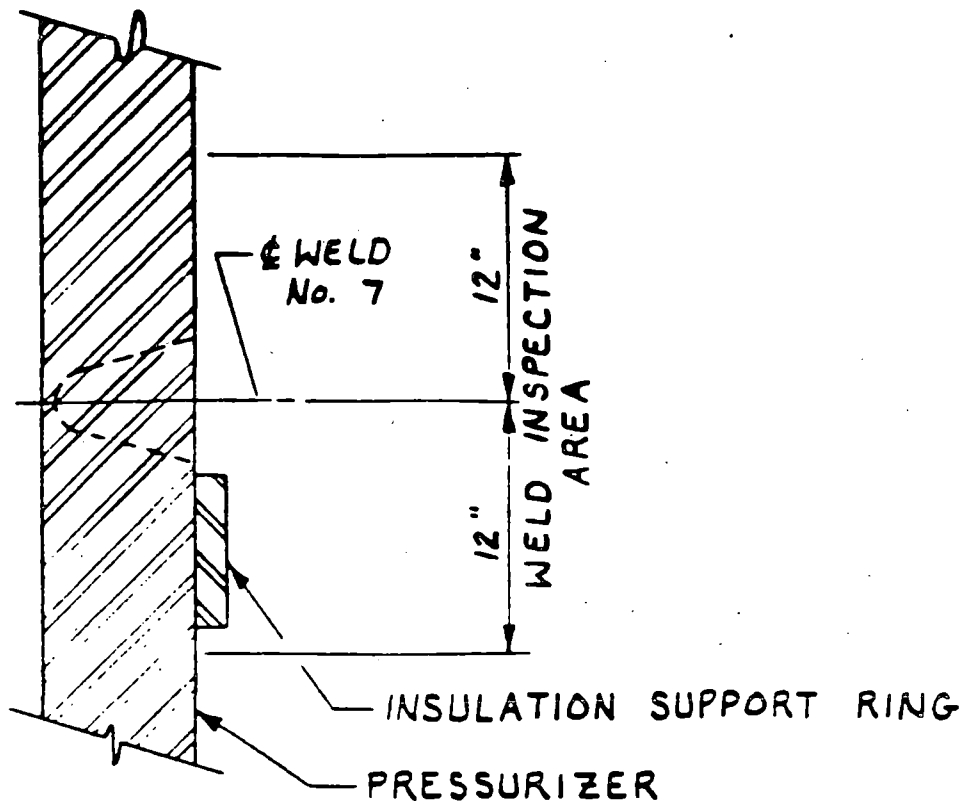
DRAWN BY:
JWB

ENGINEER:

R. L. Miller

DATE:

PRESSURIZER INSULATION
SUPPORT



SECTION B - B
N.T.S.

DRAWN BY: JWB
ENGINEER: <i>Richard C. Miller</i>
DATE: 6-13-86

PRESSURIZER INSULATION SUPPORT

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 Number 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) The five 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.

RELIEF REQUEST NO. SR-008

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. Since the nozzle side is in the rough as-cast condition, ultrasonic examination is limited to the weld and this machined area of the pipe.

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 of the weld.

RELIEF REQUEST NO. SR-009

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 from two halves of 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.

RELIEF REQUEST NO. SR-011

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

The Code requires that 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 for the sole 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 intrados 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 been 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 1 and Revision 3 for the Surry Unit 1 Inservice Inspection Program for Component Supports are provided below. The page numbers refer to Revision 3.

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 1

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 SUPPORT 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 INSPECTION 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 the 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.

The component supports that are within the ASME Section XI piping class boundaries and are within the scope of the Show Cause Order regarding the I & E Bulletin 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 this program.

3.2 SUPPORTS EXEMPT FROM EXAMINATION AND TEST

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

- 3.2.1 Component supports that are outside the scope of the Show Cause Order regarding the I & E Bulletin 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 that 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 SUPPORT 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

The component supports will be inspected over a 10 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>Minimum Examinations Inspection Period</u>	<u>Maximum Examinations Completed</u>	<u>Completed</u>
0-3 years	16%	34%
4-7 years	50%	67%
8-10 years	100%	100%

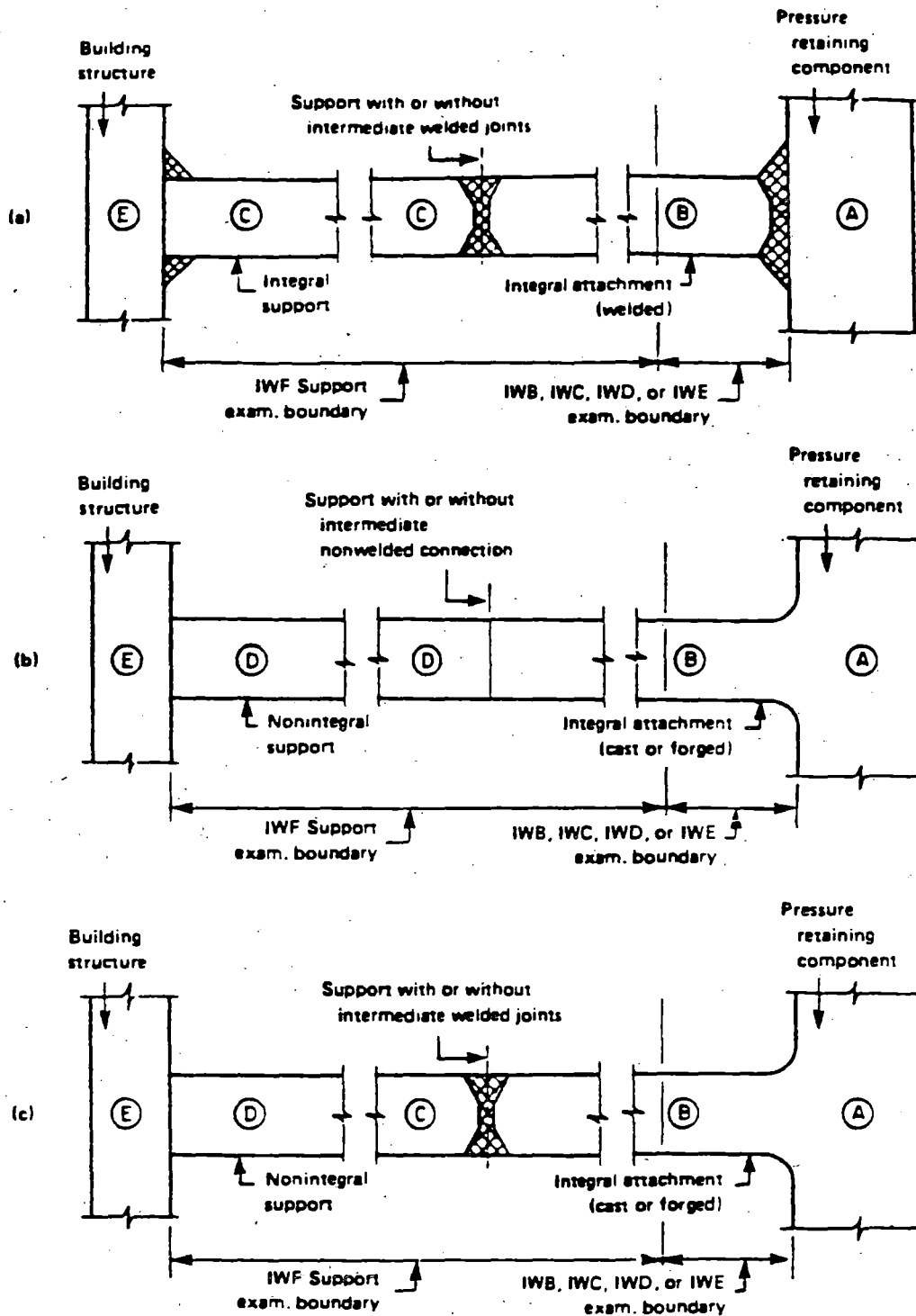
The inspection periods specified above may be decreased or extended by as much as 1 year to enable an inspection to coincide with a plant outage. For units that are out of service continuously for 6 months or more, the inspection interval during which the outage occurred may be extended for a period 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. Corrections to nonrelavent conditions shall not apply.
- (c) If the reexaminations required by (b) above do not require additional corrective measures during next three successive periods on Class 1 or next successive period on Class 2 and 3, the inspection schedule may revert to the requirements of (a) above.

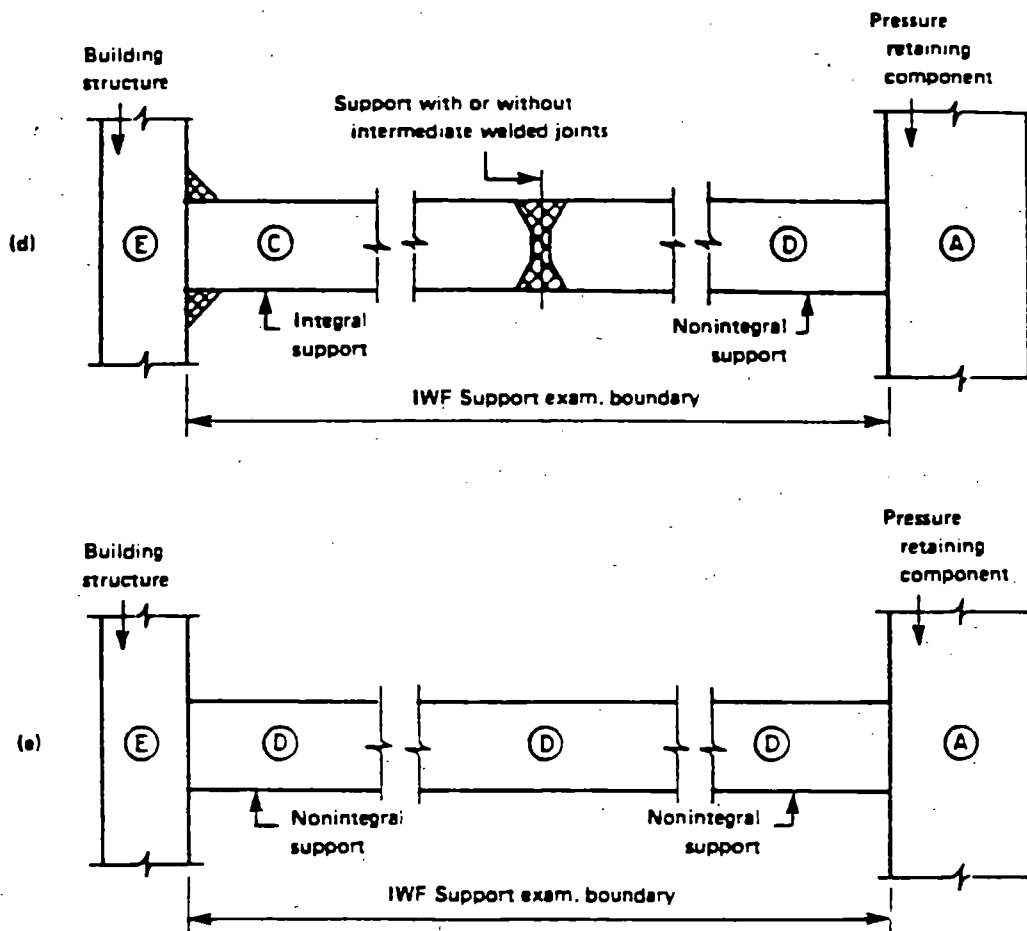
3.4.3 ADDITIONAL EXAMINATIONS

- (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.



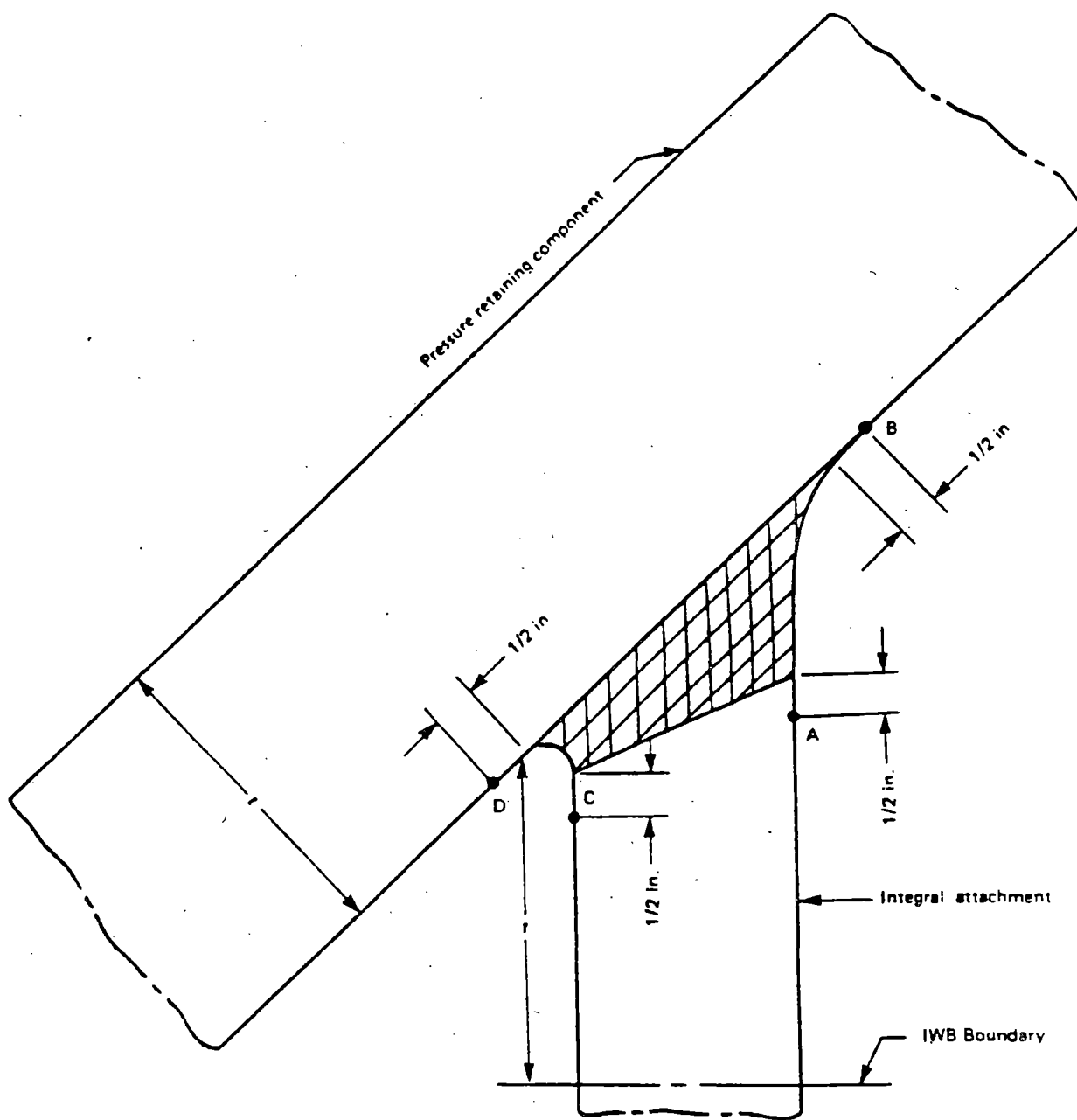
ILLUSTRATIONS OF TYPICAL SUPPORT EXAMINATION BOUNDARIES

Figure 1A



ILLUSTRATIONS OF TYPICAL SUPPORT EXAMINATION BOUNDARIES (CONT'D)

Figure 1B

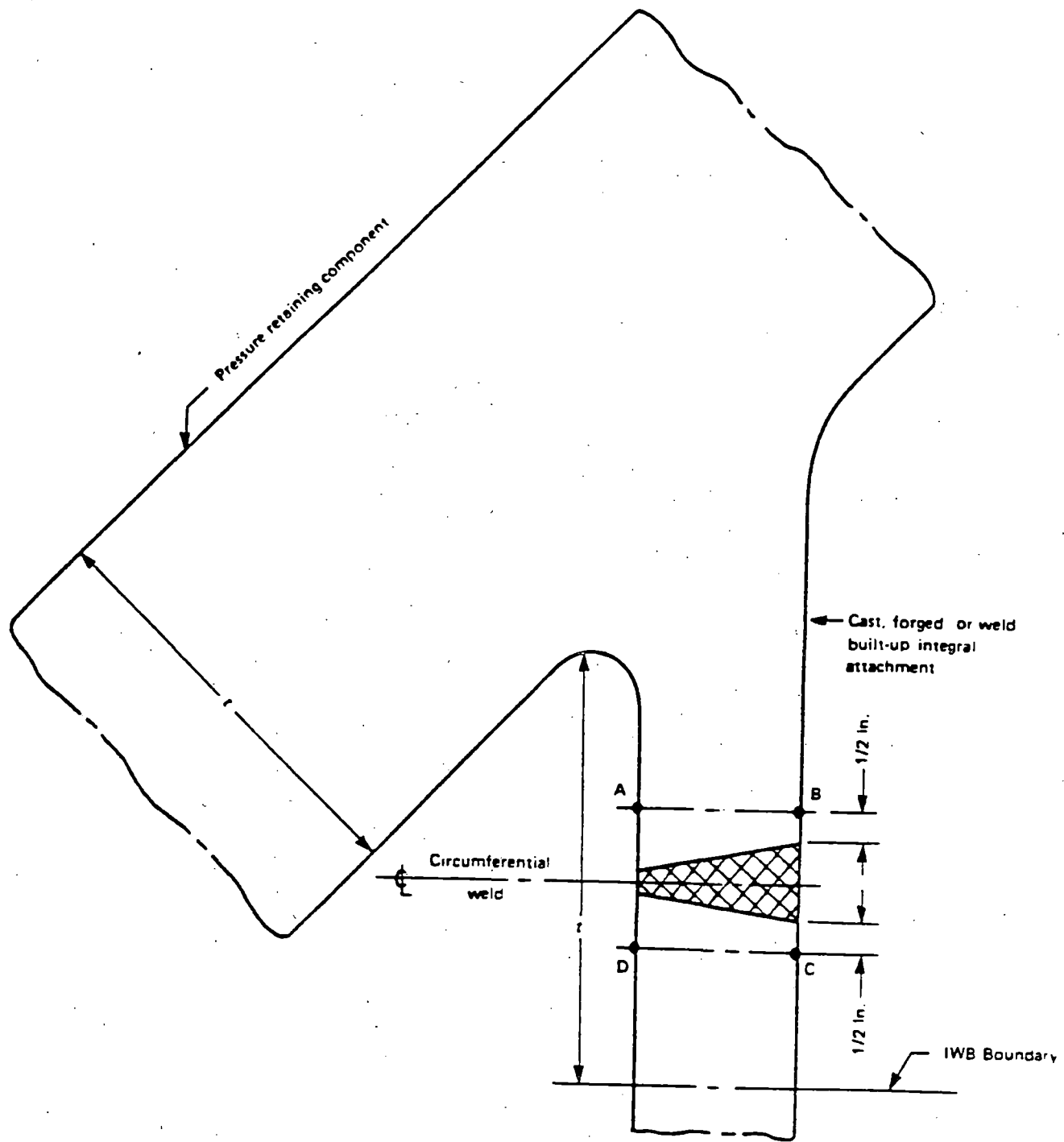


Surf. exam. areas A - B and C - D

INTEGRAL ATTACHMENT WELD

CODE CLASS 1

Figure 2A



GENERAL NOTE:

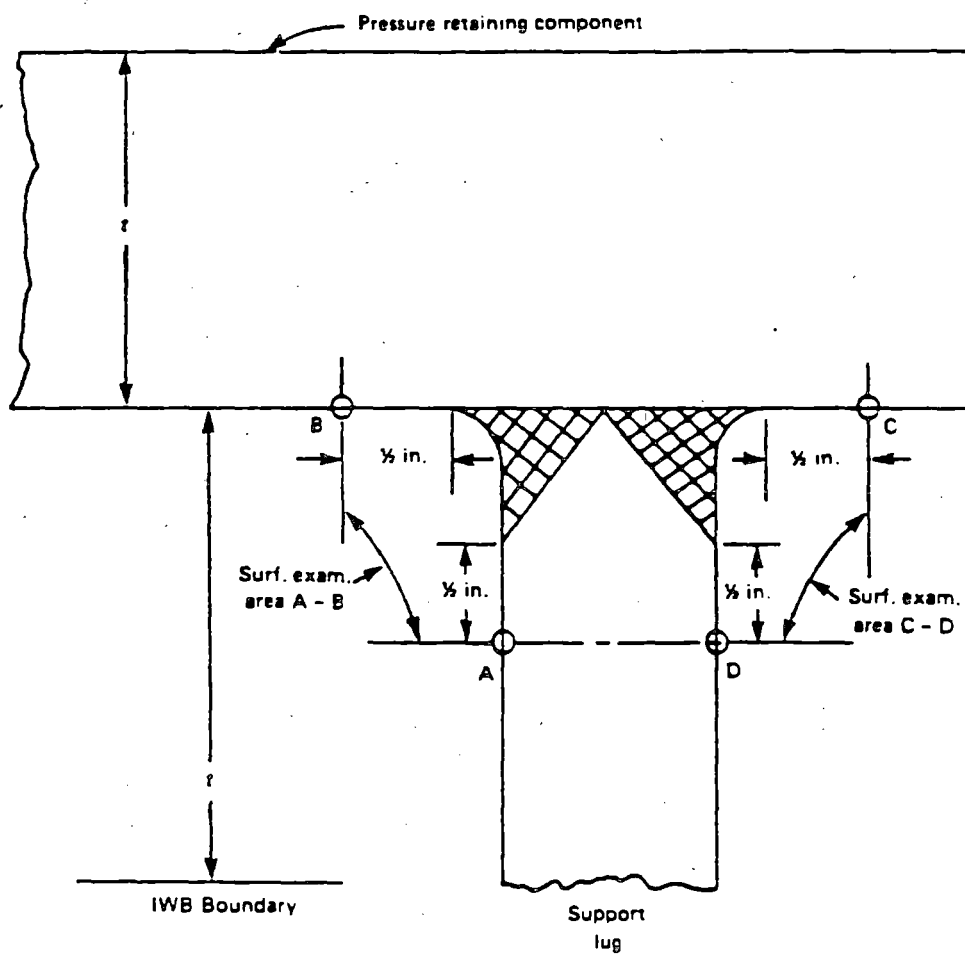
A volumetric examination of volume A - B - C - D from one side (B - C) of the circumferential weld may be performed in lieu of the surface examinations.

SUPPORT CIRCUMFERENTIAL WELD JOINT

CODE CLASS 1

Figure 2B

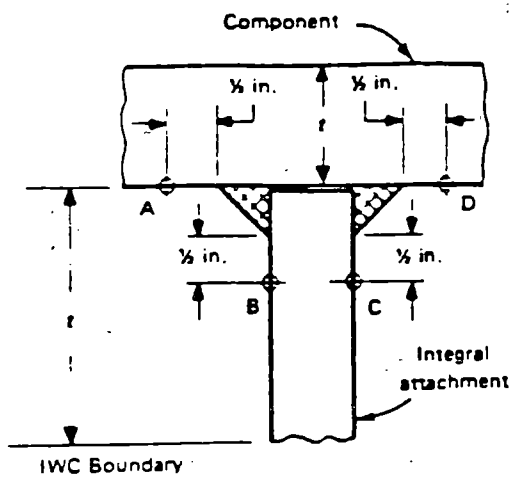
Rev. 3
March 27, 1987



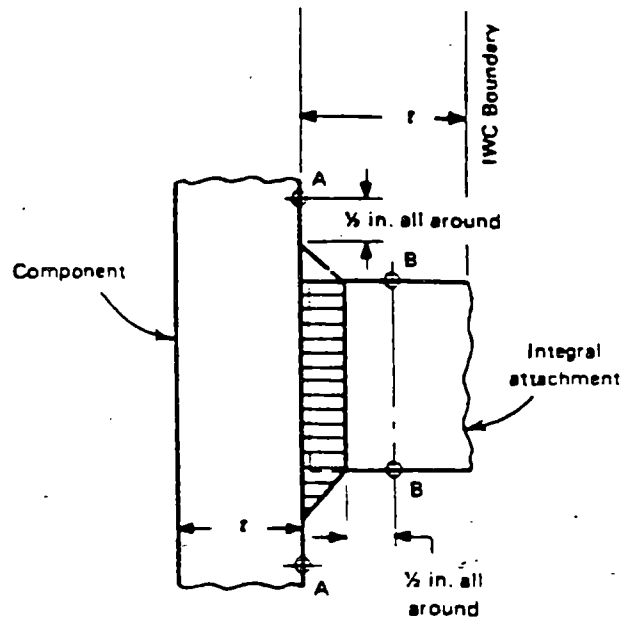
INTEGRAL ATTACHMENT

CODE CLASS 1

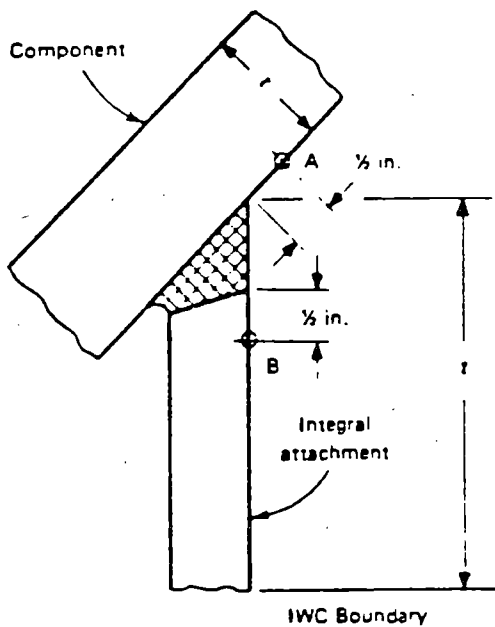
Figure 2C



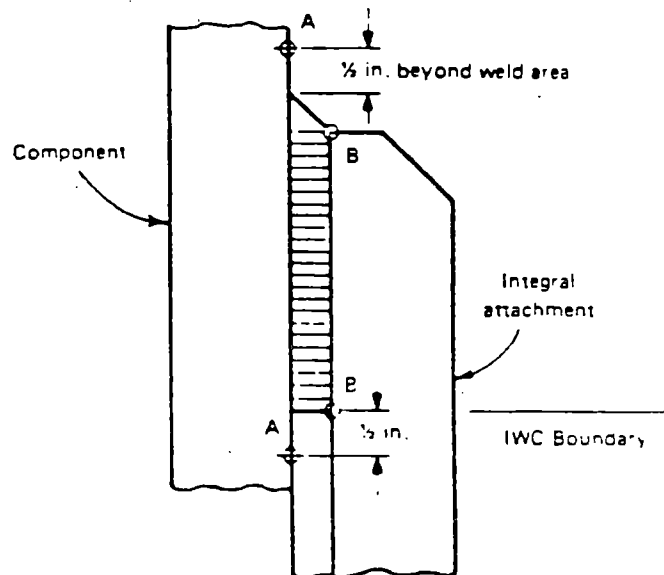
(a) Examination surfaces A - B and C - D



(b) Examination surfaces A - B



(c) Examination surfaces A - B

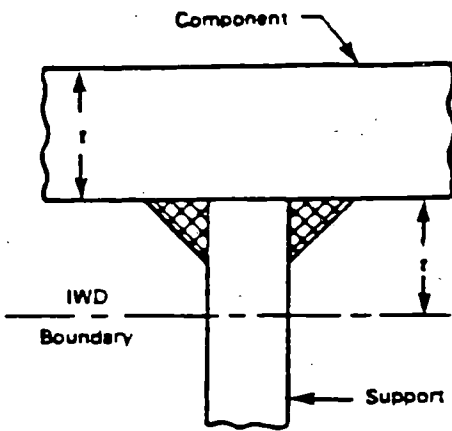


(d) Examination surfaces A - B

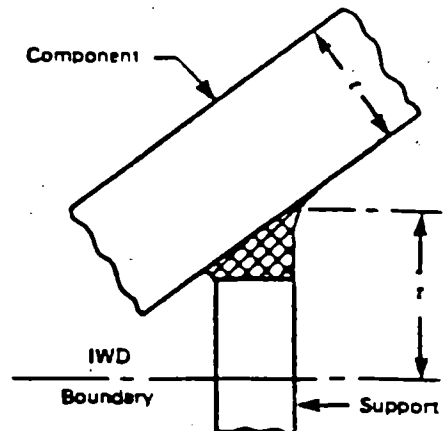
INTEGRALLY WELDED ATTACHMENTS

CODE CLASS 2

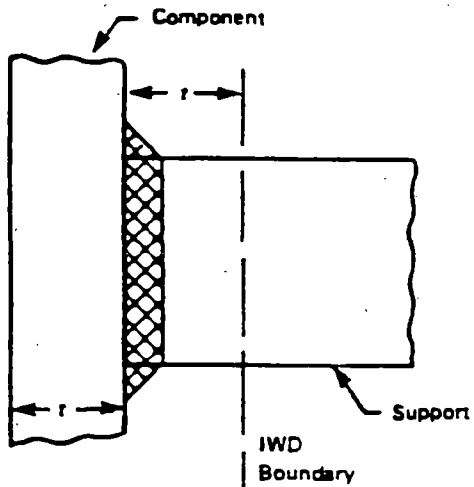
Figure 3



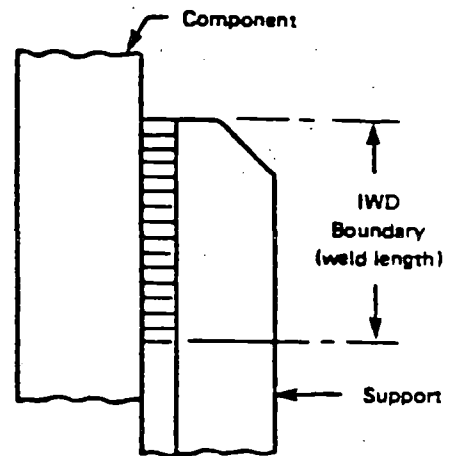
(a)



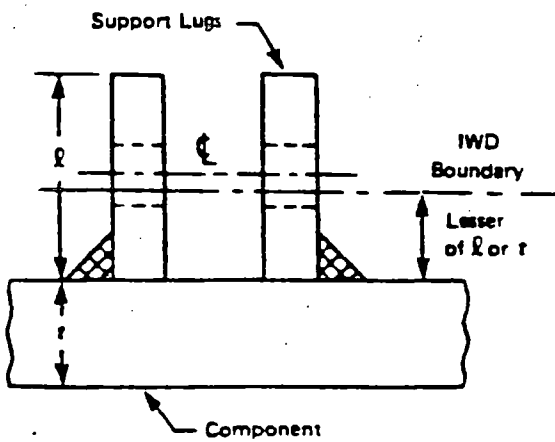
(b)



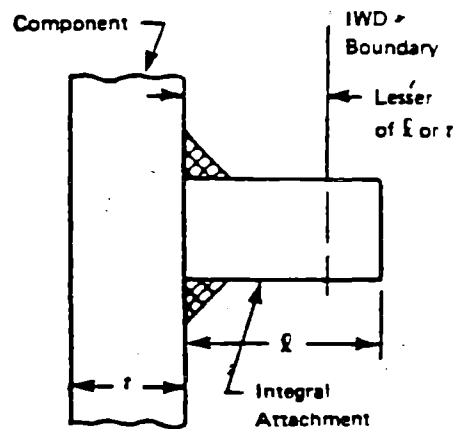
(c)



(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. 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 3.6	Section 3.2 Section 3.3	Each inspection interval
Fl.20	Weld connections to building structure	Fig 1A,B	Visual, VT-3	Section 3.6	Section 3.2 Section 3.3	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 3.6	Section 3.2 Section 3.3	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 3.6	Section 3.2 Section 3.3	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 3.6	Section 3.2 Section 3.3	Each inspection interval
F2.20	Weld connections to building structure	Fig 1A,B	Visual, VT-3	Section 3.6	Section 3.2 Section 3.3	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 3.6	Section 3.2 Section 3.3	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 3.6	Section 3.2 Section 3.3	Each inspection interval

NOTE:

(1) Reference IWA-2210.

TABLE 1
REQUIREMENTS FOR SOMPONENT 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 3.6	Section 3.2 Section 3.3	Each inspection interval
F3.20	Weld connections to building structure	Fig 1A,B	Visual, VT-3	Section 3.6	Section 3.2 Section 3.3	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 3.6	Section 3.2 Section 3.3	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 3.6	Section 3.2 Section 3.3	Each inspection interval
F3.50	Spring type Supports, constant load type supports	Fig 1A,B	Visual, VT-3 ²	Section 3.6	Section 3.2 Section 3.3	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 3.4 shall be evaluated by comparing the results of examinations with the evaluation standards specified in Section 3.6.3.

3.6.1.2 Acceptance

3.6.1.2.1 Acceptance by Examination

Component supports whose examination reveals no unacceptable conditions listed in 3.6.3.1.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 the 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 REEXAMINATION

Repairs and reexaminations shall comply with the requirements of Section 3.7. Reexaminations shall be conducted in accordance with the requirements of Section 3.4 and the recorded results shall demonstrate that the repair meets the acceptance standards of Section 3.6.3.

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 Nuclear Operations Department Standards Manual (NODSM).

3.7.2 WELDER 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 3.6.3 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 the original design, or an evaluation will be performed to ensure that the 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; and
- (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. Records will be maintained for the 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.

I. IDENTIFICATION OF COMPONENTS AND IMPRACTICAL CODE REQUIREMENTS

Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addendum, describes visual examinations in IWA-2210 of the code. Examination VT-3 (IWA-2213) and examination VT-4 (IWA-2214) are utilized for inspection as described in subsection IWF table 2500-2 for category F-C supports.

Relief is requested from the requirement of a VT-4 examination (IWA-2214) due to unnecessary and impractical duplication.

II. BASIS FOR RELIEF

The VT-4 examination is only required for support examinations on category F-C components (spring hanger, snubber etc.), where operability and functional adequacy need to be determined. It was recognized by the Code that these examinations (VT-3, VT-4) were closely related, and generally performed by the same individual qualified to each discipline. Although not endorsed in 10CFR50.55a, the Winter 1984 Addenda of the Code combined the VT-3 and VT-4 examinations to a singular VT-3 examination. Applying this reduction administratively, would reduce qualification documents, examination records, review requirements, and reporting without eliminating the intent of the examination.

III. ALTERNATE PROVISIONS

It is proposed that the definition of a VT-3 examination as written in the Winter 1984 Addenda be substituted for the current VT-4 requirement. This definition follows; Winter 1984 IWA-2213 Visual Examination VT-3.

- a) The VT-3 visual examination shall be conducted to determine the general mechanical and structural condition of components and their supports, such as the verification of clearances, settings, physical displacements, loose or missing parts, debris, corrosion, wear, erosion, or the loss of integrity at bolted or welded connections.
- b) The VT-3 examination shall include examinations for conditions that could affect operability or functional adequacy of snubbers, and constant load and spring type supports.
- c) For component supports and component interiors, the visual examination may be performed remotely with or without optical aids to verify the structural integrity of the component.

Descriptions of changes between Revision 1 and Revision 3 for the Surry Unit 1 Pump and Valve Inservice Test Program are provided below. The page numbers refer to Revision 3.

<u>Page</u>	<u>Description of Change</u>
4-2	The Section has been renumbered. Section 4.2, "Program Description" has been added. Old Section 4.3, "Reports to Regulatory Agencies", has been deleted. Old Section 6.0, "Piping and Diagrams", has been deleted.
4-3	References to Pump and Valve classes and code edition were deleted. This information is given on the following page.
4-5	The phrase "relief request which are" was replaced by "exceptions as".
4-6	The word "shall" was replaced by "should" in Sections 4.3.2 d) and e). The word "administrative" was deleted. Surry Unit 1 is currently in the second inspection interval. The verb tense in Section 4.3.3 has been changed accordingly.
4-7	Drawing 11448-FM-84A was replaced by 11448-FM-84B for Pumps 1-RS-P-1A, 1B, 2A and 2B.
4-8	Pump numbers EE-P-A, D and F were changed to 1-EE-P-A, D and F.
4-8 and 4-9	Section 4.3.5 was expanded to explain the pump table headings and abbreviations.
4-10	NR (not required) was replaced by NA (not applicable) throughout the Pump Inservice Test Table. Relief Request 13 was added to Pumps 1-SI-P-1A and 1B, 1-RS-P-2A and 2B, and 1-RH-P-1A and 2B. Measurment of flow in Relief Request 4 was withdrawn from Pumps 1-RS-P-2A and 2B. Relief Request 0 was deleted from Pump 1-FW-P-2 (pump speed is being measured). The note (*) was deleted from the bottom of the page.

<u>Page</u>	<u>Description of Change</u>
4-11	<p>Relief Request 13 was added to Pumps 1-CH-P-2A and 2B.</p> <p>Relief Request 14 was added to and Relief Request 10 withdrawn from Pumps 1-CC-P-2A and 2B, and 1-SW-P-10A and 10B.</p> <p>In the columns for Inlet Pressure, Differential Pressure and Lubrication, Q (quarterly testing) was replaced by NA for Pumps 1-EE-P-1A, 1D and 1F to accurately reflect the contents of the relief requests.</p> <p>Class 3 was replaced by NC (non-class) for Pumps 1-EE-P-1A, 1D and 1F.</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	The sentence, "These pumps are not engineered safety feature pumps", was deleted.
4-24	The alternate testing method has been rewritten, the proposed installation date for flow instrumentation deleted, and a note was added.
4-25	Relief Request 10 has been withdrawn.
4-26	Discharge pressure was deleted from alternate proposed testing and a note was added.
4-27	<p>References to lubrication level and pressure were 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>
4-27	The alternate testing proposed was changed and a note was added.
4-29	Relief Request 13 has been added.
4-30	Relief Request 14 has been added.
4-31	Relief Request 15 has been added.
4-32	The paragraphs on leak rate testing were rewritten. The paragraph on stroke times of solenoid controlled, air operated valves was rewritten.
4-34	Surry Unit 1 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.
4-35	Fail-safe (FS) Test was added.
4-36	Valve Numbers SOV-MS-102A and B were replaced by PCV-MS-102A and B and FS was added to Test Required.
4-37	Relief Request 34 has been added to Valve Number TV-MS-110. Valves NRV-MS-102A, B and C were added.
4-38	Drawing Locations were changed for valves TS-SV-102A and 1-VP-12. Category for 1-VP-12 was changed from AC to ACE.
4-39	Valve RV-1322 was moved from Drawing No. 11448-FM-88A to 11448-FM-66B. Code Class NC was added.
4-41	Drawing Locations for Valves 1-FW-272, 273, 309 and 310 were changed. The Function description for Valve 1-FW-272, 273, 309 and 310 were rewritten and the Code Class changed from "3" to "2".
4-42	The System Name was changed. Relief Request 6 has been withdrawn from Valves MOV-SW-103A, B, C and D.

<u>Page</u>	<u>Description of Change</u>
4-43	<p>The System Name was changed.</p> <p>The Code Class for Valves MOV-CW-100A, B, C and D was changed from "3" to "NC".</p> <p>The Category for Valves 1-SW-206 and 208 was changed from "A" to "AE".</p>
4-44	The Drawing Locations for Valves 1-SW-113 and 108 were changed.
4-45	<p>The Code Classes for Valves 1-CC-176, 177; 1-CC-1, 58, 59; TV-CC-105A, B, C; TV-CC-107; and TV-CC-109A, B were changed from "2" to "3".</p> <p>The Valve Sizes for RV-CC-116A, B and C were changed from "1" to "1 1/2".</p> <p>The valve Size for RV-CC-118 was changed from "1" to "3/4".</p> <p>Relief Request 34 was added to Valves TV-CC-105A, B, C, D; TV-CC-107; and TV-CC-109A, B. Test FS was added to TV-CC-109A, B.</p>
4-46	The Code Classes for Valves 1-CC-242, 233, 224; and TV-CC-110A, B, C were changed from "2" to "3".
4-47	Thermal Relief Valves RV-CC-110, 109 were deleted from the program. Thermal Relief Valves are not subject to Section XI testing.
4-48	Valve RV-CC-123 was replaced by Valve RV-CC-122.
4-50	The Categories for Valves 1-SA-62 and 60 were changed from "A" to "AE".
4-51	<p>The Drawing Locations for Valves TV-IA-101A, B; TV-IA-100, 1-IA-446 and 2-IA-446 were changed.</p> <p>Relief Request 34 was added to Valves TV-IA-101A, B and TV-IA-100.</p> <p>The Size for Valves TV-IA-101A, B was changed from "2" to "3".</p> <p>The Category for Valves 1-IA-446 and 2-IA-446 was changed from "A" to "AE".</p>

Note that the valves on page 13 of Revision 1 were moved from drawing 11448-FM-75C to 11448-FM-75J and that they now appear on page 4-53 of Revision 3.

<u>Page</u>	<u>Description of Change</u>
4-52	Code Class "NC" was added to Valves SV-BR-100, RV-BR-120 and RV-BR-108.
4-53	Code Class "NC" was added to Valves SV-BR-101A, B and RV-BR-115.
4-54	Relief Request 34 was added to the valves on this page.
4-55	Category and Actuator Type were changed from "A" and "PN" to "AE" and "Man" for Valve 1-VA-1. Relief Request 34 was added to the valves on this page except for 1-VA-1.
4-56	Normal Positions for Valves TV-DA-100A and 108A were changed from "C" to "OC". Category for Valve 1-VA-6 was changed from "A" to "AE". Valve Types for Valves TV-DA-100A and 108A were changed from "GN" to "GA". Relief Request 34 was added to the valves on this page except for 1-VA-6.
4-57	The System Name was changed. Valves MOV-RS-155A, B; MOV-RS-156A, B; and 1-RS-11, 17 were moved to Drawing No. 11448-FM-84B on page 4-60. The Drawing Locations for the valves on this page were changed. The Category for Valves 1-CS-105, 127 was changed from "AC" to "C". The Valve Type and Normal Position for Valves MOV-CS-103A, B, C and D were changed from "BF" and "O" to "GA" and "C".
4-58	The Drawing Locations for the valves on this page were changed. The Valve Type for Valves MOV-RS-156A, B was changed from "GA" to "BF".
4-59	The Normal Position for Valves TV-LM-100A to H was changed from "C" to "O". The Category for Valves HCV-CV-100 and 1-CV-2 was changed from "A" to "AE". Relief Request 34 was added to Valves TV-LM-100A to H and TV-CV-150A to D.

<u>Page</u>	<u>Description of Change</u>
4-60	<p>The Category and Valve Type for Valves HCV-1556A, B, C were changed from "A" and "GA" to "AE" and "PL".</p> <p>The Actuator Type for Valves SOV-RC-100A-1,-2 and SOV-RC-100B-1,-2 was changed from "PN" to "SOV", and "GA" was added to Valve Type.</p>
4-61	<p>Valve Number 1-RC-160 was changed to 1-PG-65.</p> <p>The Valve Type for Valves PCV-1456 and 1455C was changed from "GA" to "PL" and Relief Requests 34 and 35, and Test FS were added.</p> <p>Valve Type "GA" was added to Valves SOV-RC-101A-1,-2 and SOV-RC-101B-1,-2, and Actuator Type was changed from "PN" to "SOV".</p>
4-62	<p>Size for Valves MOV-1700 and 1701 was changed from "4" to "14".</p> <p>Category for Valve MOV-RH-100 was changed from "A" to "AE".</p>
4-64	<p>Code Class for Valve MOV-1381 was changed from "2" to "1".</p> <p>Relief Request 34 was added to Valve TV-1204.</p> <p>Size for Valve RV-1209 was changed from "3" to "2".</p>
4-65	<p>Size for Valves MOV-1289A, B was changed from "4" to "3".</p> <p>Category for Valve MOV-1289B was changed from "A" to "B", and the leak test "LT*" was deleted from Test Required.</p> <p>Category for Valve FCV-1160 was changed from "A" to "AE" and the stroke test "EV" was deleted from Test Required.</p>
4-66	<p>Relief Request 34 was added to Valves HCV-1200A, B, C.</p> <p>Code Class and Category for Valve RV-1382A were changed from "1" and "AC" to "2" and "C", and reference to Relief Request 30 was deleted.</p> <p>Valve 1-CH-309 was added.</p>
4-67	<p>Drawing Locations for Valves MOV-1863A, B; MOV-1885A, B, C, D were changed.</p>

<u>Page</u>	<u>Description of Change</u>
4-68	<p>Category for Valves MOV-1864A, B was changed from "A" to "B" and the test "LT*" was deleted from Test required.</p> <p>Drawing Locations for Valves 1-SI-61, 53 were changed.</p> <p>Valves MOV-1867A, B were deleted and Relief Request 25 was withdrawn.</p>
4-69	<p>Valves TV-1884A, B, C and RV-1857 were deleted.</p> <p>Relief Request 34 was added to Valve TV-SI-100.</p> <p>Category for Valves 1-SI-73, 32, 150 and 174 was changed from "A" to "AE".</p> <p>Size for Valve 1-SI-150 was changed from "1" to "3/4".</p> <p>Valves TV-SI-102A, B; 1-SI-25; and 1-SI-410 were moved from Drawing No. 11448-FM-106C to 11448-FM-89A and their Drawing Locations were changed. Drawing No. 11448-FM-106C was deleted.</p>
4-70	<p>Drawing Location for Valve 1-SI-240 was changed.</p> <p>Relief Request 30 was added to Valves 1-SI-107, 109, 128, 130, 145, 147 and 1-SI-241, 242, and 243 to correctly reflect the contents of the Relief Request.</p> <p>Category for Valves 1-SI-235, 236, 237 was changed from "AC" to "C".</p>
4-71	<p>Relief Request 34 was added to Valves TV-SI-101A, B.</p>
4-72	<p>Valves TV-GW-100 to 107, and TV-GW-111A, B were moved from Drawing No. 11448-FM-90A to 11448-FM-90C.</p> <p>Code Class "NC" was added to Valves RV-GW-100A, B; RV-GW-102A, B; and RV-GW-103.</p>
4-73	<p>Code Class "NC" was added and Size changed from "3/4" to "1" for Valve RV-GW-107.</p>
4-74	<p>Drawing Locations were changed for the valves on this page.</p> <p>Relief Request 33 was added to the valves on this page except for valves TV-GW-111A, B.</p> <p>Relief Request 34 was added to the valves on this page.</p>
4-75	<p>Category was changed from "A" to "AE" for the valves on this page.</p>

<u>Page</u>	<u>Description of Change</u>
4-76	Relief Request 34 was added to the valves on this page.
4-77	Relief Request 34 was added to Valves TV-RM-100A, B and C.
4-78	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.
4-79	Category was changed from "A" to "AE" for the valves on this page. Size for Valve MOV-VS-102 was changed from "8" to "18". Size, Valve Type and Actuator Type for Valve MOV-VS-101 were changed from "4", "GA" and "Man" to "8", "BF" and "MOV".
4-80	Valves 1-FP-151 and 152 were placed on Drawing No. 11448-FB-47B. Drawing Locations and Size were added. Code Class and Category were changed from "2" and "A" to "3" and "AE".
4-81	Valves SOV-EG-100A, B on Drawing No. 11448-FB-46A were added along with Relief Request 37.
4-82	Valves SOV-EG-300A, B on Drawing No. 11448-FB-46C were added along with Relief Request 37.
4-84	Relief Request 1 was reformatted to be consistent with the other Relief Requests.
4-85	Valve RV-1893 was deleted from Relief Request 1.
4-85 and 4-86	Code Class "NC" was added to Valves SV-BR-100, RV-BR-120, RV-BR-108, SV-BR-101A&B, RV-BR-115 and RV-1322.
4-86	Code Class for RV-1382A was changed from "1" to "2". Code Class "NC" was added to Valves RV-GW-100A,B; 102A,B; 103 and 107.
4-88	Valves NRV-MS-102A, B and C were added.
4-89	Editorial change.
4-90	Valve Number 1-FW-59 was changed to 1-FW-89. Code Class for Valves 1-FW-272, 273, 309 and 310 was changed from "3" to "2" and the Function description was rewritten.

<u>Page</u>	<u>Description of Change</u>
4-91	Technical detail was added to the Basis For Relief. The test frequency was changed from every cold shutdown to every reactor refueling.
4-92	Relief Request 6 has been withdrawn.
4-93	Editorial change.
4-94	Code Class for Valves 1-CC-176, 177 changed from "2" to "3".
4-95	Editorial change.
4-96	Code Class changed from "2" to "3" for the valves on this page.
4-97	Editorial change. Technical detail added to the Basis for Request.
4-98	Valve number 1-RC-160 changed to 1-PG-65.
4-102	Technical detail was added to the Basis for Request.
4-104	Editorial change.
4-105	Technical detail was added to the Basis for Request.
4-106	The Code Class was changed from "2" to "1".
4-108	The Category for MOV-1289B was changed from "A" to "B".
4-110	Editorial changes.
4-112	Technical Specification reference changed from 3.3.A.9 to 3.3.A.8. Editorial changes.
4-114	The Basis for Request was changed from reference to flow blockage due to boron crystallization to excess charging flow causing a reactivity transient.
4-115	Relief Request 25 has been withdrawn.
4-116	Category was changed from "C" to "A and C". Editorial change was made to the Basis for Request.
4-117	Editorial changes.
4-121	Relief Request 30 was reformatted to be consistent with the other Relief Requests.

<u>Page</u>	<u>Description of Change</u>
4-122	Valve RV-1382A was deleted. Valves 1-SI-235, 236 and 237 were deleted and Valves 1-SI-241, 242, and 243 were added.
4-125	Relief Request 33 has been added.
4-126 and 127	Relief Request 34 has been added.
4-128	Relief Request 35 has been added.
4-129	Relief Request 36 has been added.
4-130	Relief Request 37 has been added.

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

UNIT 1

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 FOR PUMPS AND VALVES

4.1 INTRODUCTION

This Pump and Valve Inservice Test Program Plan is applicable to the Surry Power Station Unit 1. 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 1 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 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 recognized 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 1 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 tests. 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 staffs at Surry Power Station are responsible for administration and execution of the Pump Inservice Test Program. The Program was officially implemented on December 22, 1982 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 10CFR50.55a(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 Inservice Test Program. The pump's ASME Code Classifications are specified in "PUMP INSERVICE TEST TABLES".

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

High Head Safety Injection or Charging Pumps provide high pressure flow for the Safety Injection System and during normal operation, maintain pressurizer level and seal water injection to the Reactor Coolant Pumps. See drawing 11448-FM-88B.

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

Low Head Safety Injection Pumps provides low pressure safety injection to the core for long term cooling and as a backup to accumulators. See drawing 11448-FM-89A.

1-CS-P-1A
1-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 11448-FM-84A.

1-RS-P-2A
1-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 11448-FM-84B.

1-RS-P-1A
1-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 11448-FM-84B.

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

Auxiliary Feedwater Pumps supply the steam generator with feedwater in the event of a complete loss of normal feedwater. See drawing 11448-FM-68A.

1-RH-P-1A
1-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 11448-FM-87A.

1-CC-P-1A
1-CC-P-1B

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

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

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.

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

Charging Pump Cooling Water Pumps provide water to transfer heat from the charging pump mechanical seals. See drawing 11448-FM-71B.

1-SW-P-10A
1-SW-P-10B

Charging Pump Service Water Pumps provide cooling water for Charging Pump Cooling Water Systems. See drawing 11448-FM-71B.

1-SW-P-1A
1-SW-P-1B
1-SW-P-1C

Emergency Service Water Pumps supply the required service water to the canal to provide for minimum safeguards operation in the unlikely event of a loss of site power coincident with a DBA. See drawing 11448-FM-71A.

1-EE-P-1A
1-EE-P-1D
1-EE-P-1F

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
1-CH-P-1A	2	NA	Q	NA	NA	Q	NA	NA	Q	0,1,2
1-CH-P-1B	2	NA	Q	NA	NA	Q	NA	NA	Q	0,1,2
1-CH-P-1C	2	NA	Q	NA	NA	Q	NA	NA	Q	0,1,2
1-SI-P-1A	2	NA	Q	NA	Q	Q	NA	NA	NA	0,1,3,13
1-SI-P-1B	2	NA	Q	NA	Q	Q	NA	NA	NA	0,1,3,13
1-CS-P-1A	2	Q	Q	Q	Q	Q	NA	NA	Q	0,1
1-CS-P-1B	2	Q	Q	Q	Q	Q	NA	NA	Q	0,1
1-RS-P-2A	2	NA	Q	NA	Q	Q	NA	NA	NA	0,1,4,13
1-RS-P-2B	2	NA	Q	NA	Q	Q	NA	NA	NA	0,1,4,13
1-RS-P-1A	2	NA	NA	NA	NA	NA	NA	NA	NA	0,1,5
1-RS-P-1B	2	NA	NA	NA	NA	NA	NA	NA	NA	0,1,5
1-FW-P-3A	3	Q	Q	Q	NA	Q	NA	NA	Q	0,1,6
1-FW-P-3B	3	Q	Q	Q	NA	Q	NA	NA	Q	0,1,6
1-FW-P-2	3	Q	Q	Q	NA	Q	NA	Q	Q	1,6
1-RH-P-1A	2	CSD	CSD	CSD	CSD	CSD	NA	NA	NA	0,1,7,13
1-RH-P-1B	2	CSD	CSD	CSD	CSD	CSD	NA	NA	NA	0,1,7,13
1-CC-P-1A	3	Q	Q	Q	NA	Q	NA	NA	Q	0,1,15
1-CC-P-1B	3	Q	Q	Q	NA	Q	NA	NA	Q	0,1,15

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 Reques
1-CH-P-2A	3	NA	Q	NA	NA	NA	NA	NA	NA	0,1,9,
1-CH-P-2B	3	NA	Q	NA	NA	NA	NA	NA	NA	0,1,9,
1-CC-P-2A	3	Q	Q	Q	Q	Q	NA	NA	NA	0,1,14
1-CC-P-2B	3	Q	Q	Q	Q	Q	NA	NA	NA	0,1,14
1-SW-P-10A	3	Q	Q	Q	Q	Q	NA	NA	NA	0,1,14
1-SW-P-10B	3	Q	Q	Q	Q	Q	NA	NA	NA	0,1,14
1-SW-P-1A	3	NA	NA	NA	NA	Q	NA	NA	Q	0,1,11
1-SW-P-1B	3	NA	NA	NA	NA	Q	NA	NA	Q	0,1,11
1-SW-P-1C	3	NA	NA	NA	NA	Q	NA	NA	Q	0,1,11
1-EE-P-1A	NC	NA	NA	NA	NA	NA	NA	NA	Q	0,1,12
1-EE-P-1D	NC	NA	NA	NA	NA	NA	NA	NA	Q	0,1,12
1-EE-P-1F	NC	NA	NA	NA	NA	NA	NA	NA	Q	0,1,12

4.3.6 PUMP TEST PROGRAM RELIEF REQUEST

Relief Requests identify code requirements which are impractical for Surry Unit 1 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 1-FW-P-2. See PUMP INSERVICE TEST TABLE.

Class :

Section XI Code Requirements
For Which Relief Is Requested

Quarterly measurements of pump speed.

Basis For Request

IWP-4400 does not require pump speed 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 lubrication 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 1

ALLOWABLE RANGES OF VIBRATION VELOCITY FOR PUMPTESTING PER SUBSECTION IWP

<u>Test Band No.</u>	<u>Test Quantity (in/sec)</u>	<u>Acceptable Range (in/sec)</u>	<u>Alert Range (in/sec)</u>	<u>Required Action Range (in/sec)</u>
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

System : Chemical and Volume Control

Pump(s): 1-CH-P-1A
1-CH-P-1B
1-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 can not 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

System : Safety Injection

Pump(s): 1-SI-P-1A
1-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 Specification which will insure 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

System : Recirculation Spray

Pump(s): 1-RS-P-2A
1-RS-P-2B

Class : 2

Section XI Code Requirements
For Which Relief Is Requested

Measure inlet pressure and differential pressure

Basis For Request

Instrumentation 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 the suction pressure is only the head of water in the filled pump casing.

NOTE: A Design Change has been initiated for inlet 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

System : Recirculation Spray

Pump(s): 1-RS-P-1A
1-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 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

System : Feedwater

Pump(s): 1-FW-P-3A
1-FW-P-3B
1-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 flow measurement installation.

RELIEF REQUEST 7

System : Residual Heat Removal

Pump(s): 1-RH-P-1A
1-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

Pump will be tested each cold shutdown (but not more frequently than every three months).

RELIEF REQUEST 8

Relief Request Withdrawn

RELIEF REQUEST 9

System : Chemical and Volume Control

Pump(s): 1-CH-P-2A
1-CH-P-2B

Class : 3

Section XI Code Requirements
For Which Relief Is Requested

Measure inlet pressure, differential pressure, flow, and vibration.

Basis For Request

1. No instrumentation installed for inlet pressure, differential pressure and flow.
2. Pumps are totally encased in insulation. Therefore, probes for vibration cannot be placed in contact with pumps for a reading.

Alternate Testing Proposed

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

System : Service Water

Pump(s): 1-SW-P-1A
1-SW-P-1B
1-SW-P-1C

Class : 3

Section XI Code Requirements
For Which Relief Is Requested

Measure inlet pressure, differential pressure and flow rate.

Basis For Request

No installed inlet pressure, differential pressure and flow instrumentation exists. Pumps take suction from James River through seismic structure and discharge through a seismic structure. These restrictions makes it impractical to install instrumentation on these pumps.

Alternate Testing Proposed

None, but vibration and lubricant level are monitored which should be adequate indication of pump performance.

NOTE: A Design Change has been initiated for discharge pressure and flow instrumentation. The instrumentation is scheduled for installation in accordance with the Nuclear Operations Department Five Year Plan for Surry Power Station.

RELIEF REQUEST 12

System: Fuel Oil

Pump(s): 1-EE-P-1A
1-EE-P-1D
1-EE-P-1F

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 to perform Section XI tests will be installed in accordance with the Nuclear 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 Sections 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 13

Systems: Safety Injection, Recirculation Spray, Residual Heat Removal and,
Chemical and Volume Control

Pump(s): 1-SI-P-1A 1-RH-P-1A
 1-SI-P-1B 1-RH-P-1B
 1-RS-P-2A 1-CH-P-2A
 1-RS-P-2B 1-CH-P-2B

Class : 2 for 1-SI-P-1A and B
 1-RS-P-2A and B
 1-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

Those 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 14

System : Component Cooling and Service Water

Pump(s): 1-CC-P-2A
1-CC-P-2B
1-SW-P-10A
1-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 15

System : Component Cooling

Pump(s): 1-CC-P-1A
1-CC-P-1B

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 flow loop which gives enough data for trending purposes.

4.4 VALVE INSERVICE TEST PROGRAM DESCRIPTION

4.4.1 PROGRAM DEVELOPMENT PHILOSOPHY

Surry Power Station Unit 1 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 1 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. This includes all valves "which are required to perform a specific function in shutting down a reactor to the 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 1 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 1 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 times of solenoid controlled, air operated valves is both extremely rapid and subject to considerable variation. Exception is taken to complying with stroke time variations defined by Paragraph IWV-3417(a).

Virginia Electric and Power Company is confident that the Surry Unit 1 Valve Inservice Test Program complies with the intent of the applicable codes, regulations 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 tests will be conducted as part of the Valve Test Program:

1. Valve Operability Tests
2. Valve Leakage 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 specific 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 December 22, 1982 and governs valve testing for a 120 month period. Prior the to 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 minumum of at least once every 40 months or for a new system, relief request, etc.

4.4.4 VALVE INSERVICE TEST TABLES

The Valve Inservice 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 10 CFR 50.55a 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 pipe diameter to which valve connects is given in inches.
- 7) Valve Type - The following abbreviations are used to describe valve type:

CK - Check	GA - Gate
RV - Relief	BF - Butterfly
SF - Safety	SCK - Stop Check
BA - Ball	PL - Plug
GL - Globe	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).

MOV- 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 the actuator power.

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Main Steam

Drawing No. 11448-FM-64A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SV-MS-101A,B,C	B-3, B-4, B-6	Main Steam Safety Valves	2	C	4	SF	SA	C	SP	1
SV-MS-102A,B,C	C-3, C-4, C-6	Main Steam Safety Valves	2	C	6	SF	SA	C	SP	1
SV-MS-103A,B,C	B-3, B-4, B-6	Main Steam Safety Valves	2	C	6	SF	SA	C	SP	1
SV-MS-104A,B,C	B-3, B-4, B-6	Main Steam Safety Valves	2	C	6	SF	SA	C	SP	1
SV-MS-105A,B,C	C-3, C-4, C-6	Main Steam Safety Valves	2	C	6	SF	SA	C	SP	1
TV-MS-101A,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-101A	D-3	Main Steam Non Return Valves	2	C	30	SCK	MOV	O	CV	3
NRV-MS-101B	D-5									
NRV-MS-101C	D-6									
RV-MS-101A	C-2	Main Steam PORV	2	C	4	RV	SA	C	SP	1
RV-MS-101B	B-4									
RV-MS-101C	C-6									
PCV-MS-102A	F-8	Main Steam to Turbine Driven Aux. FW Pump	2	B	3	GA	PN	C	EV,ST VP,FS	None
PCV-MS-102B	G-8									
HCV-MS-104	B-4	Decay Heat Release Control Valve	2	B	4	GA	PN	C	EV,VP	32
TV-MS-109	F-7	Main Steam Drain to Condenser	2	B	3	GA	PN	O	EV,ST VP	None

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Main Steam

Drawing No. 11448-FM-64A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-MS-110	E-7	Main Steam Drain to Blow- down	2	B	2	GA	PN	0	EV,ST VP	34
1-MS-176 1-MS-178 1-MS-182	F-8 F-8 F-8	Main Steam to Turbine Driven Auxiliary FW check valves	2	C	3	CK	SA	C	CV	None
NRV-MS-102A NRV-MS-102B NRV-MS-102C	C-3 C-4 C-6	Main Steam Non Return Valves	2	C	3	SCK	MAN	0	CV	3

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Aux. Steam and Air Removal

Drawing No. 11448-FM-66A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-SV-102A	A-5	Air Removal Direct to Reactor Containment	2	A	6	GA	PN	C	LT*, EV ST, VP	None
1-VP-12	A-5	Air Removal Direct to Reactor Containment	2	ACE	6	CK	SA	C	LT*	None

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Auxiliary Steam

Drawing No. 11448-FM-66B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-1322	D-3	Batching Tank Heating Jacket Relief	NC	C	2	RV	SA	C	SP	1

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Feedwater

Drawing No. 11448-FM-68A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-FW-27 1-FW-58 1-FW-89	C-2 B-4 B-5	Auxiliary Feedwater Header Check Valves at Main Feed- Water Header	2	C	3	CK	SA	C	CV	4
1-FW-131 1-FW-133 1-FW-136 1-FW-138	C-6 C-6 C-6 C-6	Auxiliary Feedwater Header Check Valves at Contain- ment Penetration	2	C	6	CK	SA	C	CV	4
1-FW-142 1-FW-157 1-FW-172	D-7 E-7 F-7	Auxiliary Feedwater Pump Discharge Check Valves	3	C	6	CK	SA	C	CV	4
MOV-151A,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
1-FW-144 1-FW-159 1-FW-174	D-7 F-7 G-7	Auxiliary Feedwater Pump Recirculation Check Valves	3	C	1	CK	SA	C	CV	None
1-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. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Auxiliary Feed Cross Connect

Drawing No. 11448-FM-68B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-FW-160A	J-5	Cross-Connect for Unit #1							EV, ST	
MOV-FW-160B	J-6	Aux. Feed. from Unit #2	3	B	6	GL	MOV	C	VP	None
1-FW-272	I-8	Check Valves at Cont. Penet.								
1-FW-273	I-8	(Cross-connect for Unit 1 Aux. Feed. from Unit 2)	2	C	6	CK	SA	C	CV	4
1-FW-309	I-7	Check Valves at Cont. Penet.								
1-FW-310	I-7	(Cross-connect for Unit 1 Aux. Feed. from Unit 2)	2	C	6	CK	SA	C	CV	4

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Circulating and Service Water

Drawing No. 11448-FM-71A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-CW-106A	E-4	Condenser inlet Isolation Valves	3	B	96	BF	MOV	O	EV, ST VP	None
MOV-CW-106B	E-4									
MOV-CW-106C	F-4									
MOV-CW-106D	F-4									
MOV-SW-102A	E-6	Service Water to Component Cooling Water Heat Ex- changers	3	B	42	BF	MOV	O	EV, ST VP	None
MOV-SW-102B	F-6									
MOV-SW-103A	B-6	Service Water to Recircu- lation Spray Heat Ex- changers	3	B	30	BF	MOV	C	EV, ST VP	None
MOV-SW-103B	B-6									
MOV-SW-103C	D-6									
MOV-SW-103D	E-6									
MOV-SW-104A	A-2	Recirculation Spray Heat Exchangers Suction Isola- tion Valves	3	B	24	BF	MOV	O	EV, ST VP	None
MOV-SW-104B	B-2									
MOV-SW-104C	C-2									
MOV-SW-104D	C-2									
MOV-SW-105A	A-2	Recirculation Spray Heat Exchanger Discharge Isola- tion Valves	3	B	24	BF	MOV	O	EV, ST VP	None
MOV-SW-105B	A-2									
MOV-SW-105C	B-2									
MOV-SW-105D	C-2									
MOV-SW-106A	D-4	Recirculation Spray Heat Exchangers Cross-Connect Valves	3	B	36	BF	MOV	O	EV, ST VP	None
MOV-SW-106B	D-4									

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Circulating and Service Water

Drawing No. 11448-FM-71A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-SW-101A	C-7	Bearing Cooling Water							EV, ST	
MOV-SW-101B	C-7	Heat Exchanger Isolation Valves	3	B	36	BF	MOV	O	VP	None
MOV-CW-100A	E-2									
MOV-CW-100B	E-2	Condenser Discharge							EV, ST	
MOV-CW-100C	F-2	Isolation Valves	NC	B	96	BF	MOV	O	VP	None
MOV-CW-100D	F-2									
1-SW-206	A-2	Containment Isolation								
1-SW-208	A-2	Valves for Service Water Drains to Heat Exchanger	2	AE	2	GA	Man	C	LT*	None

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Circulating and Service Water

Drawing No. 11448-FM-71B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-CC-764	D-6	Charging Pump Cooling	3	C	2	CK	SA	OC	CV	None
1-CC-752	G-6	Water Pump Discharge Check Valve								
1-SW-113	E-8	Charging Pump Service	3	C	2	CK	SA	OC	CV	None
1-SW-108	I-8	Water Pump Check Valve								

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Component Cooling

Drawing No. 11448-FM-72A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-CC-119A	L-2	Component Cooling from RHR	3	C	1 1/2	RV	SA	C	SP	1
RV-CC-119B	L-3	Heat Exchanger Relief Valve								
1-CC-176	B-1	Component Cooling to RHR	3	C	18	CK	SA	OC	CV	7
1-CC-177	B-1	Heat Exchanger Check Valve								
1-CC-1	A-2	Component Cooling to	3	C	6	CK	SA	O	CV	8
1-CC-58	A-2	Reactor Coolant Pumps								
1-CC-59	A-2									
TV-CC-105A	D-8	Component Cooling from	3	B	6	BA	PN	O	ST EV, VP	8,34
TV-CC-105B	D-8	Reactor Coolant Pumps								
TV-CC-105C	E-8									
TV-CC-107	D-8	Component Cooling from Reactor Coolant Pumps	3	B	2 1/2	GL	PN	O	ST EV, VP	8,34
TV-CC-109A	F-8	Component Cooling from	3	B	18	BF	PN	O	ST, FS EV, VP	34
TV-CC-109B	F-9	RHR Heat Exchangers								
RV-CC-116A	B-3	Component Cooling Reactor	3	C	1 1/2	RV	SA	C	SP	1
RV-CC-116B	B-5	Coolant Pump								
RV-CC-116C	B-8									
RV-CC-124	F-1	Component Cooling Piping Relief Valve	3	C	3/4	RV	SA	C	SP	1
RV-CC-118	G-4	Component Cooling Excess Letdown Heat Exchanger Relief	3	C	3/4	RV	SA	C	SP	1

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Component Cooling Water

Drawing No. 11448-FM-72B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-CC-242	C-4	Component Cooling to	3	C	6	CK	SA	O	CV	7
1-CC-233	E-4	Reactor Containment Air								
1-CC-224	I-4	Recirculation Coolers								
TV-CC-110A	D-3	Component Cooling from	3	B	6	BF	PN	O	EV, ST VP	NONE
TV-CC-110B	F-3	Reactor Containment Air								
TV-CC-110C	H-3	Recirculation Coolers								

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Component Cooling Water

Drawing No. 11448-FM-72C

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-CC-111A	I-3	Component Cooling to	3	C	3/4	RV	SA	C	SP	1
RV-CC-111B	I-4	Fuel Pit Coolers Relief Valves								

Surry Power Station Unit No. 1
 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-557	C-2	Component Cooling Pump								
1-CC-563	C-2	Discharge Check	3	C	18	CK	SA	OC	CV	None
RV-CC-122	A-1	Component Cooling Surge Tank Relief Valve	3	C		RV	SA	C	SP	1

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Compressed Air

Drawing No. 11448-FM-75E

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-IA-939	G-5	Instrument Air to Contain- ment	2	AC	2	CK	SA	0	CV, LT*	9
1-IA-938	G-5	Instrument Air to Contain- ment	2	AC	2	CK	SA	0	CV, LT*	9

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Compressed Air System

Drawing No. 11448-FM-75G

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-SA-62	D-7	Service Air to Containment	2	AE	2	GL	Man	C	LT*	None
1-SA-60	E-7	Service Air to Containment	2	AE	2	GL	Man	C	LT*	None

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Containment Instrument Air

Drawing No. 11448-FM-75J

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-IA-101A TV-IA-101B	J-7 I-7	Instrument Air Suction from Containment	2	A	3	GA	PN	0	LT*, EV ST, VP	34
TV-IA-100	K-2	Instrument Air Discharge to Containment	2	A	2	GA	PN	0	LT*, EV ST, VP	34
1-IA-446	J-2	Back up Instrument Air to Containment	2	AE	2	GA	Man	C	LT*	None
2-IA-446	J-1	Back up Instrument Air to Containment from Unit 2	2	AE	2	GA	Man	C	LT*	None

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Boron Recovery System

Drawing No. 11448-FM-79A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SV-BR-100	G-5	Gas Stripper Relief	NC	C	2	SF	SA	C	SP	1
RV-BR-120	G-1	Gas Stripper Surge Tank Relief	NC	C	1	RV	SA	C	SP	1
RV-BR-108	A-5	Primary Drain Tank Relief	NC	C	4	RV	SA	C	SP	1

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Boron Recovery System

Drawing No. 11448-FM-79B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SV-BR-101A SV-BR-101B	C-1 H-1	Boron Evaporator and Boron Overhead Condenser Relief	NC	C	10	SF	SA	C	SP	1
RV-BR-115	K-5	Evaporator Bottoms Tank Relief	NC	C	2	SF	SA	C	SP	1

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Sampling System

Drawing No. 11448-FM-82B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-SS-103A TV-SS-103B	D-1 E-1	Residual Heat Removal System Sample	2	A	3/8	GA	SOV	C	LT*, EV ST, VP	34
TV-SS-100A TV-SS-100B	D-1 E-1	Pressurizer Liquid Space Sample	1	A	3/8	GA	SOV	C	LT*, EV ST, VP	34
TV-SS-101A TV-SS-101B	D-1 E-1	Pressurizer Vapor Space Sample	1	A	3/8	GA	SOV	C	LT*, EV ST, VP	34
TV-SS-106A TV-SS-106B	D-2 E-2	Primary Coolant Hot Leg Samples	1	A	3/8	GA	SOV	C	LT*, EV ST, VP	34
TV-SS-102A TV-SS-102B	D-2 E-2	Primary Coolant Cold Leg Sample	1	A	3/8	GA	SOV	C	LT*, EV ST, VP	34
TV-SS-104A TV-SS-104B	D-2 E-2	Pressurizer Relief Tank Gas Space Sample	2	A	3/8	GA	SOV	C	LT*, EV ST, VP	34

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Vents and Drains

Drawing No. 11448-FM-83A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-DA-100B	A-8	Reactor Containment Sump Pump Discharge Isolation	2	A	2	GA	PN	C	LT*, VP EV, ST	34
TV-DA-103A TV-DA-103B	A-6	Post Accident Sample Return Line	2	A	2	GA	PN	C	LT*, VP EV, ST	34
1-VA-1	A-3	Primary Vent Pot Vent	2	AE	2	GA	Man	C	LT*	None
TV-DG-108B	A-3	Primary Drain Transfer Pump Discharge Isolation	2	A	2	GA	PN	C	LT*, VP EV, ST	34
TV-VG-109B	A-1	Gas Vent Header Isolation	2	A	2	GA	PN	C	LT*, VP EV, ST	34

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Vents and Drains

Drawing No. 11448-FM-83B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-DA-100A	H-8	Reactor Containment Sump Pump Discharge Isolation	2	A	2	GA	PN	OC	LT*, EV ST, VP	34
1-VA-6	J-5	Primary Vent Pot Vent	2	AE	2	GA	MAN	C	LT*	None
TV-DG-108A	L-5	Primary Drain Transfer Pump Discharge Isolation	2	A	2	GA	PN	OC	LT*, EV ST, VP	34
TV-VG-109A	L-2	Gas Vent Header Isolation	2	A	2	GA	PN	O	LT*, EV ST, VP	34

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Containment Spray System

Drawing No. 11448-FM-84A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-CS-101A	H-2	Containment Spray Pump Discharge	2	A	8	GA	MOV	C	LT*,EV ST, VP	None
MOV-CS-101B	H-2									
MOV-CS-101C	H-3									
MOV-CS-101D	H-3									
1-CS-13	I-2	Containment Spray Pump Discharge Check Valves	2	AC	8	CK	SA	C	CV, LT*	10
1-CS-24	I-3									
1-CS-105	K-1	Containment Spray Pump Discharge Check Valve	2	C	8	CK	SA	C	CV	10
1-CS-127	K-3									
MOV-CS-102A	C-6	Chemical Addition Tank to RWST Isolation Valve	2	B	6	GA	MOV	C	EV, ST VP	None
MOV-CS-102B	C-6									
MOV-CS-103A	D-6	Chemical Addition Tank Discharge to Suction Containment Spray Pump	2	B	3	GA	MOV	C	EV, ST VP	None
MOV-CS-103B	D-6									
MOV-CS-103C	D-7									
MOV-CS-103D	D-6									

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Recirculation Spray System

Drawing No. 11448-FM-84B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-RS-155A MOV-RS-155B	D-6 D-6	Recirculation Spray Pump Suction from Containment Sump	2	A	12	PL	MOV	0	LT*, EV ST, VP	None
MOV-RS-156A MOV-RS-156B	E-4 E-4	Recirculation Spray Pump Discharge	2	A	10	BF	MOV	0	LT*, EV ST, VP	None
1-RS-11 1-RS-17	F-3 F-4	Recirculation Spray Pump Discharge Check Valves	2	AC	10	CK	SA	C	CV LT*	10

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Containment Vacuum and Leakage Monitoring

Drawing No. 11448-FM-85A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-LM-100A	E-3	Leakage Monitoring System Isolation	2	A	3/8	GA	PN	O	LT*, EV ST, VP	34
TV-LM-100B	E-3									
TV-LM-100C	E-3									
TV-LM-100D	E-3									
TV-LM-100E	E-3									
TV-LM-100F	E-3									
TV-LM-100G	D-3									
TV-LM-100H	E-3									
HCV-CV-100	J-5	Containment Air Ejector Isolation	2	AE	8	GA	PN	C	LT*, VP	None
1-CV-2	I-5	Containment Air Ejector Isolation	2	AE	8	GA	Man	C	LT*	None
TV-CV-150A	H-7	Containment Vacuum Pump Suction Isolation	2	A	2	GA	PN	O	LT*, EV VP, ST	34
TV-CV-150B	H-7									
TV-CV-150C	H-8									
TV-CV-150D	H-8									

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Reactor Coolant System

Drawing No. 11448-FM-86A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
HCV-1556A	A-2	Loop Fill Boundary	1	AE	2	PL	PN	C	LT, VP	30
HCV-1556B	A-7									
HCV-1556C	L-2									
SOV-RC-100A-1	H-7	Reactor Vessel Head Vent	2	B	1	GA	SOV	C	EV, ST	31
SOV-RC-100A-2	H-7									
SOV-RC-100B-1	H-7									
SOV-RC-100B-2	H-7									

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Reactor Coolant

Drawing No. 11448-FM-86B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SV-1551A SV-1551B SV-1551C	F-4 G-4 H-4	Pressurizer Safety Valves	1	AC	6	SF	SA	C	SP, LT	1, 30
TV-1519A	A-6	Primary Grade Water to PZR Relief Tank	2	A	3	GA	PN	C	LT*, EV ST, VP	None
1-PG-65	A-6	Primary Grade Water to PZR Relief Tank	2	AC	3	CK	SA	C	LT*, CV	9
MOV-1535 MOV-1536	I-4 I-5	Power Operated Relief Block Valves	1	A	3	BF	MOV	O	EV, ST LT, VP	30
PCV-1456 PCV-1455C	J-4 J-5	Pressurizer Power Operated Relief Valve	1	A	3	PL	PN	C	EV, ST FS, VP LT	30,34,35
SOV-RC-101A-1 SOV-RC-101A-2 SOV-RC-101B-1 SOV-RC-101B-2	I-6 J-6 I-6 J-6	Pressurizer Head Vent	2	B	1	GA	SOV	C	EV, ST	31

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Residual Heat Removal

Drawing No. 11448-FM-87A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-1700 MOV-1701	H-7 H-7	RHR Suction from Reactor Coolant System	1	A	14	GA	MO	C	ST, EV LT, VP	12, 30
MOV-1720A MOV-1720B	K-5 K-5	RHR Discharge to Reactor Coolant System	1	A	10	GA	MO	C	ST, EV LT, VP	13, 30
RV-1721	I-4	RHR System Relief Valve	2	C	3	RV	SA	C	SP	1
1-RH-5 1-RH-11	D-6 B-6	RHR Pump Discharge Check Valve	2	C	10	CK	SA	C	CV	11
MOV-RH-100	K-3	RHR to RWST	2	AE	6	GA	MO	C	LT*, VP	None

Surry Power Station Unit No. 1
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-76	C-7	Boric Acid Transfer Pump								
1-CH-92	D-7	Discharge Valve	3	C	2	CK	SA	OC	CV	None

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Chemical and Volume Control

Drawing No. 11448-FM-88B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-CH-258	D-6									
1-CH-267	F-6	Charging Pump Discharge	2	C	3	CK	SA	OC	CV	14
1-CH-276	G-6	Check Valve								
LCV-1115B	C-9	Charging Pump Suction from								
LCV-1115D	C-9	Refueling Water Storage Tank	2	B	8	GA	MOV	C	EV, ST VP	None
LCV-1115C	H-3	Charging Pump Suction from								
LCV-1115E	H-3	Volume Control Tanks	2	B	4	GA	MOV	O	EV, ST VP	15
MOV-1275A	D-6									
MOV-1275B	F-6	Charging Pump Recirculation								
MOV-1275C	H-6	Flow Path Isolation	2	B	2	GA	MOV	O	EV, ST VP	None
MOV-1373	F-5	Charging Pump Recirculation Header Stop Valve	2	B	3	GA	MOV	O	EV, ST VP	16
MOV-1381	A-3	Reactor Coolant Pump Seal Water Return	1	A	3	GA	MOV	O	EV, ST VP, LT*	17
TV-1204	A-3	Reactor Coolant System Let-down Isolation Trip Valve	2	A	2	GA	PN	O	LT*, EV ST, VP	18,34
RV-1209	F-1	Reactor Coolant System Let-down Relief Valve	2	C	2	RV	SA	C	SP	1
RV-1257	H-1	Volume Control Tank Relief Valve	2	C	3	RV	SA	C	SP	1

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Chemical and Volume Control

Drawing No. 11448-FM-88B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-1289A	B-5	Normal Charging Header Isolation	2	A	3	GA	MOV	O	LT*, EV ST, VP	19
FCV-1160	A-3	RCS Loop Fill Header Isolation	1	AE	2	GL	PN	C	LT*, VP	None
RV-1382B	F-3	Seal Water Return Line to VCT	2	C	2	RV	SA	C	SP	1
MOV-1289B	B-5	Normal Charging Header Isolation	2	B	3	GA	MOV	O	EV, ST VP	19

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Chemical and Volume Control

Drawing No. 11448-FM-88C

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-1203	H-1	Letdown Header Relief	2	C	2	RV	SA	C	SP	1
HCV-1200A HCV-1200B HVC-1200C	H-2 H-2 H-2	Letdown Orifice Isolation	2	A	2	GA	PN	OC	LT*, EV ST, VP	34
RV-1382A	H-4	Seal Water Return to Pressurizer Relief Tank	2	C	2	RV	SA	C	SP	1
1-CH-309	J-3	Normal Charging Isolation Check Valve	2	AC	3	CK	SA	O	CV, LT*	9

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11448-FM-89A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-1860A, B	B-8, E-8	Low Head Safety Injection Pump Suction from Contain- ment Sump	2	A	12	GA	MOV	C	LT*, EV ST, VP	None
1-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-1862A, B	G-9, G-8	Low Head Safety Injection Pump Suction from Refueling Water Storage Tank	2	B	12	GA	MOV	O	EV, ST VP	None
1-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
1-SI-58, 50	D-7, G-7	Low Head Safety Injection Pump Discharge Check	2	C	10	CK	SA	C	CV	21
MOV-1863A, B	D-6, G-6	Low Head Safety Injection Pump Discharge to High Head Safety Injection Pump Suction	2	B	8	GA	MOV	C	EV, ST VP	None
MOV-1885A, 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	MOV	O	EV, ST VP	None

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11448-FM-89A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-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
MOV-1864A, B	D-6, G-5	Low Head Safety Injection Pump Discharge to Reactor Coolant System Cold legs	2	B	10	GA	MOV	O	EV, ST, VP	None
RV-1845A, B C	C-6, D-5 C-5	Low Head Safety Injection Flow Path Relief	2	C	1	RV	SA	C	SP	1
MOV-1890 A, B	B-6, B-5	Low Head Safety Injection to Reactor Coolant System Hot Legs	2	AE	10	GA	MOV	C	LT*, EV ST, VP	None
MOV-1890C	B-6	Low Head Safety Injection to Reactor Coolant System Cold Legs	2	AE	10	GA	MOV	O	LT*, EV ST, VP	22
MOV-1869A, B 1842	A-3, I-3 A-1	High Head Safety Injection to Reactor Coolant System	2	AE	3	GA	MOV	C	LT*, EV ST, VP	23
MOV-1867 C, D	B-1, B-2	Boron Injection Tank Outlet Isolation	2	A	3	GA	MOV	C	LT*, EV ST, VP	24

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11448-FM-89A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-SI-100	B-4	Nitrogen Accumulators	2	A	1	GA	PN	O	LT*, EV ST, VP	34
1-SI-73	A-5	Accumulator Isolation	2	AE	3/4	GL	Man	C	LT*	None
1-SI-32	A-5	Accumulator Isolation	2	AE	1	GL	Man	C	LT*	None
1-SI-150	B-1	Boron Injection Tank	2	AE	3/4	GL	Man	O	LT*	None
1-SI-174	C-2	High Head Safety Injection to Reactor Coolant System	2	AE	3/4	GL	Man	C	LT*	None
TV-SI-102A TV-SI-102B	F-4 F-4	Unit No. 1 RWST to Unit No. 2 RWST Cross Tie	2	B	8	GA	PN	C	ST, EV VP	None
1-SI-25	F-4	Charging Pump Suction from RWST Check Valve	2	C	8	CK	SA	C	CV	28
1-SI-410	G-4	Charging Pump Suction from RWST Check Valve	2	C	10	CK	SA	C	CV	28

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11448-FM-89B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-1858 A, B C	C-4, G-5 C-7	Accumulator Tank Relief	2	C	1	RV	SA	C	SP	1
1-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-1865 A, B C	C-5, G-6 C-8	Accumulator Discharge	2	B	12	GA	MOV	O	EV, ST VP	None
1-SI-88, 91 94, 238 239, 240	A-2, A-2 A-3, B-2 B-2, B-3	Safety Injection to RCS Hot Legs	1	AC	6	CK	SA	C	CV, LT	27, 30
1-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
1-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
1-SI-224, 225 226, 227	J-1, J-1 J-2, J-3	High Head Safety Injection Check Valves at Containment Penetrations	2	C	3	CK	SA	C	CV	27
1-SI-228, 229	J-3, J-3	Low Head Safety Injection Check Valves at Containment Penetrations	2	C	6	CK	SA	C	CV	27

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Safety Injection

Drawing No. 11448-FM-89B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
1-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-101A, B	J-5, J-5	Accumulator Nitrogen Relief Line Isolation	2	A	1	GA	PN	O	LT*, EV ST, VP	34
1-SI-234	J-4	Nitrogen Accumulators	2	AC	1	CK	SA	C	CV, LT*	9
RV-1859	I-4	Accumulator Return to RWST Relief	2	C	3/4	RV	SA	C	SP	1

Surry Power Station Unit No. 1
 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	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-GW-100A RV-GW-100B	C-6 H-6	Waste Gas Decay Outer Tank Relief	NC	C	1 1/2	RV	SA	C	SP	1
RV-GW-102A RV-GW-102B	C-6 G-6	Waste Gas Decay Inner Tank Relief	NC	C	1 1/2	RV	SA	C	SP	1
RV-GW-103	K-1	Waste Gas Surge Drum Relief	NC	C	1 1/2	RV	SA	C	SP	1

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Gaseous Waste Disposal

Drawing No. 11448-FM-90B

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
RV-GW-107	K-5	Relief Valve on Gases Going to Waste Gas Surge Drain for Storage	NC	C	1	RV	SA	C	SP	1

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Containment Hydrogen Analyzer

Drawing No. 11448-FM-90C

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-GW-100 TV-GW-101	C-6 C-5	Suction Line to Hydrogen Analyzer - Unit 1	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	33,34
TV-GW-102 TV-GW-103	C-7 C-7	Discharge Line to Hydrogen Analyzer - Unit 1	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	33,34
TV-GW-104 TV-GW-105	C-3 C-3	Suction Line to Hydrogen Analyzer - Unit 2	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	33,34
TV-GW-106 TV-GW-107	C-4 C-4	Discharge Line to Hydrogen Analyzer - Unit 2	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	33,34
TV-GW-111A TV-GW-111B	B-2 C-2	Containment Grab Sample	2	A	3/8	GA	SOV	C	LT*, ST EV, VP	34

Surry Power Station Unit No. 1
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
RL-5, RL-3	C-4, D-4	Reactor Cavity Purifica- tion Return Line	2	AE	3	DA	Man	C	LT*	None
RL-13, RL-15	C-6, D-6	Reactor Cavity Purifica- tion Return Line	2	AE	3	DA	Man	C	LT*	None

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Steam Generator Blowdown

Drawing No. 11448-FM-124A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
TV-BD-100 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. 1
 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
1-RM-03	D-8	Isolation on Monitor Return Line	2	AC	3/4	CK	SA	0	LT*, CV	9
TV-RM-100A	F-8	Isolation on Monitor Return Line	2	A	3/4	GA	PN	0	LT*, EV ST, VP	34
TV-RM-100B TV-RM-100C	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. 1
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-100	J-3									
SOV-EE-101	J-3	Disel Fuel Oil Pump								
SOV-EE-105	J-5	Discharge Valves	NC	B	1	GA	SOV	C	EV	36

Surry Power Station Unit No. 1
 Inservice Testing
 ASME Code Class 1, 2, and 3 Valves

System Name: Containment Purge

Drawing No. 11448-FB-6A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
MOV-VS-100A MOV-VS-100B	D-5 D-5	Containment Purge Supply MOV's	2	AE	36	BF	MOV	C	LT*, VP	None
MOV-VS-102	D-5	Containment Vacuum Breaker	2	AE	18	BF	MOV	C	LT*, VP	None
MOV-VS-100C MOV-VS-100D	D-5 D-5	Containment Purge Exhaust MOV's	2	AE	36	BF	MOV	C	LT*, VP	None
MOV-VS-101	D-5	Containment Purge Exhaust Bypass	2	AE	8	BF	MOV	C	LT*	None

Surry Power Station Unit No. 1
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
1-FP-151	D-3	Containment Stand Pipe								
1-FP-152	D-3	Supply	3	AE	4	BA	Man	C	LT*	None

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Diesel Air Starting System

Drawing No. 11448-FB-46A

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SOV-EG-100A	I-4	Diesel Air Start System								
SOV-EG-100B	K-4	Solenoid Valves	NC	B	1	GA	SOV	C	EV,VP	37

Surry Power Station Unit No. 1
Inservice Testing
ASME Code Class 1, 2, and 3 Valves

System Name: Diesel Air Starting System

Drawing No. 11448-FB-46C

Valve Number	Drawing Location	Function	Code Class	Cate- gory	Size	Valve Type	Actuator Type	Normal Position	Test Required	Relief Request
SOV-EG-300A	J-4	Diesel Air Start System	NC	B	1	GA	SOV	C	EV,VP	37
SOV-EG-300B	K-4	Solenoid Valves								

4.4.5 VALVE TEST PROGRAM RELIEF REQUEST

Relief Requests identify code requirements which are impractical for Surry Unit 1 and provide justification for the requested exception. Where appropriate, alternate testing to be performed in lieu of code requirements is proposed.

RELIEF REQUEST 1

System : 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). All 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-101A, B, C SV-MS-102A, B, C SV-MS-103A, B, C SV-MS-104A, B, C SV-MS-105A, B, C	C	2	Main Steam Safety Valves
RV-MS-101A RV-MS-101B RV-MS-101C	C	2	Main Steam PORV
RV-CC-119A RV-CC-119B	C	3	Component Cooling from RHR Heat Exchanger Relief Valve
RV-CC-116A RV-CC-116B RV-CC-116C	C	3	Component Cooling Reactor Coolant Pump
RV-CC-124	C	3	Component Cooling Piping Relief Valve
RV-CC-118	C	3	Component Cooling from Excess Letdown Heat Exchanger Relief.
RV-1721	C	2	RHR System Relief Valve
RV-CC-111A RV-CC-111B	C	3	Component Cooling to Fuel Pit Coolers Relief Valves
RV-CC-123	C	3	Component Cooling to Surge Tank Relief Valve
SV-1551A SV-1551B SV-1551C	AC	1	Pressurizer Safety Valves
RV-1209	C	2	Reactor Coolant System Letdown Relief Valve
RV-1257	C	2	Volume Control Tank Relief Valve
RV-1203	C	2	Letdown Header Relief
RV-1845A, B, C	C	2	Low Head Safety Injection Flow Path Relief
RV-1858A, B, C	C	2	Accumulator Relief Valve
SV-BR-100	C	NC	Gas Stripper Relief

RELIEF REQUEST 1
TABLE A (CONT'D)

<u>Valve</u>	<u>Category</u>	<u>Class</u>	<u>Function</u>
RV-BR-120	C	NC	Gas Stripper Surge Tank Relief
RV-BR-108	C	NC	Primary Drain Tank Relief
SV-BR-101A&B	C	NC	Boron Evaporator and Boron Overhead Condenser Relief
RV-BR-115	C	NC	Evaporator Bottoms Tank Relief
RV-1322	C	NC	Batching Tank Heating Jacket Relief
RV-1382B	C	2	Seal Water Return Line to VCT
RV-1382A	C	2	Seal Water Return to Pressurizer Relief Tank
RV-1859	C	2	Accumulator Return to RWST Relief
RV-GW-100A, B	C	NC	Waste Gas Decay Outer Tank Relief
RV-GW-102A, B	C	NC	Waste Gas Decay Outer Tank Relief
RV-GW-103	C	NC	Waste Gas Decay Inner Tank Relief
RV-GW-107	C	NC	Relief Valve on Gases going to Waste Gas Surge Drum for Storage

RELIEF REQUEST 2

System : Main Steam

Valve(s): TV-MS-101A
TV-MS-101B
TV-MS-101C

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-101A NRV-MS-102A
 NRV-MS-101B NRV-MS-102B
 NRV-MS-101C NRV-MS-102C

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>
1-FW-27	C	2	Auxiliary Feedwater Header Check
1-FW-58			Valves at Main Feedwater Header.
1-FW-89			
1-FW-131	C	2	Auxiliary Feedwater Header
1-FW-133			Check Valves at Containment
1-FW-136			Penetration.
1-FW-138			
1-FW-142	C	3	Auxiliary Feedwater Pump
1-FW-157			Discharge Check Valves
1-FW-172			
1-FW-272	C	2	Check Valves at Containment
1-FW-273			Penetration (Cross-Connect for
			Unit 1 Aux. Feed. from Unit 2)
1-FW-309	C	2	Check Valves at Containment
1-FW-310			Penetration (Cross-Connect for
			Unit 1 Aux. Feed. from Unit 2)

RELIEF REQUEST 5

System : Feedwater

Valve(s):	1-FW-10	1-FW-41	1-FW-72
	1-FW-12	1-FW-43	1-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 to exceed 2 years).

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>
1-CC-176 1-CC-177	C	3	Component Cooling to RHR Heat Exchanger Check valves
1-CC-242 1-CC-233 1-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>
1-CC-1 1-CC-58 1-CC-59	C	3	Component Cooling to Reactor Coolant Pumps
TV-CC-105A TV-CC-105B TV-CC-105C	B	3	Component Cooling from Reactor Coolant Pumps
TV-CC-107	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>
1-IA-939	AC	2	Instrument Air to Containment
1-IA-938	AC	2	Instrument Air to Containment
1-RM-3	AC	2	Isolation on Monitor return line.
1-PG-65	AC	2	Primary Grade water to PRZ Relief Tank
1-SI-234	AC	2	Nitrogen Accumulators N ₂ supply.
1-CH-309	AC	2	Normal Charging Isolation Check Valve

RELIEF REQUEST 10

System : Containment and Recirculation Spray

Valve(s): 1-RS-11 1-CS-13 1-CS-105
 1-RS-17 1-CS-24 1-CS-127

Category: AC (1-RS-11, 17 and 1-CS13, 24) and C (1-CS-105,127)

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 is 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): 1-RH-5
1-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-1700
MOV-1701

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 can not 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-1720A
MOV-1720B

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 MOV was opened an over pressure 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): 1-CH-258
1-CH-267
1-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-1115C
LCV-1115E

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 suctions 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-1373

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-1373 is not cycled quarterly because its failure in the closed position would challenge the operation of the Charging Pumps. The individual recirculation valves (MOV-1275 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-1373, 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-1381

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-1204

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-1289A
MOV-1289B

Category: A (MOV-1289A) and B (MOV-1289B)

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): 1-SI-56
1-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 stroke 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>
1-SI-46A 1-SI-46B	C	2	Low Head Safety Injection Pump Suction from Refueling Water Storage Tank Check
1-SI-58 1-SI-50	C	2	Low Head Safety Injection Pump Discharge Check

RELIEF REQUEST 22

System : Safety Injection

Valve(s): MOV-1890C

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-1890C 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-1869A
MOV-1869B
MOV-1842

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 as a minimum.

RELIEF REQUEST 24

System : Safety Injection

Valve(s): MOV-1867C
MOV-1967D

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): 1-SI-107 1-SI-109
 1-SI-128 1-SI-130
 1-SI-145 1-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>
1-SI-88, 91 1-SI-94, 238 1-SI-239, 240	AC	1	Safety Injection to RCS Hot Legs
1-SI-235 1-SI-236 1-SI-237	AC	1	High Head Safety Injection to RCS Cold Legs
1-SI-241 1-SI-242 1-SI-243	AC	1	Low Head Safety Injection to RCS Cold Legs
1-SI-224, 225 1-SI-226, 227	C	2	Head Head Safety Injection Check Valve at Containment Penetrations
1-SI-228, 229	C	2	Low Head Safety Injection Check Valves at Containment Penetrations
1-SI-79, 82, 85	A	1	Safety Injection to RCS Cold Legs

RELIEF REQUEST 28

System : R.W.S.T. Cross Tie

Valve(s): 1-SI-25
1-SI-410

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-100A TV-BD-100D
TV-BD-100B TV-BD-100E
TV-BD-100C TV-BD-100F

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 reopened, 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

System : 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 Relief

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 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-1556A HCV-1556B HCV-1556C	A	1	Loop Fill Boundary
SV-1551A SV-1551B SV-1551C	AC	1	Pressurizer Safety Valves
MOV-1535 MOV-1536	A	1	PORV Block Valves
PCV-1456 PCV-1455C	A	1	PORV
1-SI-107, 109 1-SI-128, 130 1-SI-145, 147	AC	1	Accumulator Discharge Check Valve
1-SI-88, 91 1-SI-94, 238 1-SI-239, 240	AC	1	Safety Injection to RCS Hot Legs
1-SI-241 1-SI-242 1-SI-243	AC	1	Low Head Safety Injection to RCS Cold Legs
MOV-1700 MOV-1701	A	1	RHR Suction from Reactor Coolant System
MOV-1720A MOV-1720B	A	1	RHR Discharge to Reactor Coolant System

RELIEF REQUEST 31

System : Reactor Coolant

Valve(s):	SOV-RC-100A-1	SOV-RC-101A-1
	SOV-RC-100A-2	SOV-RC-101A-2
	SOV-RC-100B-1	SOV-RC-101B-1
	SOV-RC-100B-2	SOV-RC-101B-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 vents location 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 due to the fact that 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-104

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 a 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-100	TV-GW-104
	TV-GW-101	TV-GW-105
	TV-GW-102	TV-GW-106
	TV-GW-103	TV-GW-107

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 Proposed

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 is 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 Testing Proposed

Whenever the stroke time of these valves exceeds 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-110	B	2	Main Steam Drain to Blowdown
TV-CC-105 A,B,C	B	3	Component Cooling from RCP
TV-CC-107	B	3	Component Cooling from RCP
TV-CC-109 A,B	B	3	Component Cooling from RHR Heat Exchanger
TV-IA-101 A,B	A	2	Instrument Air Suction from Containment
TV-IA-100	A	2	Instrument Air Discharge to Containment
TV-SS-103 A,B	A	2	Residual Heat Removal System Sample
TV-SS-100 A,B	A	1	Pressurizer Liquid Space Sample
TV-SS-101 A,B	A	1	Pressurizer Vapor Space Sample
TV-SS-106 A,B	A	1	Primary Coolant Hot Leg Sample
TV-SS-102 A,B	A	1	Primary Coolant Cold Leg Sample
TV-SS-104 A,B	A	2	Pressurizer Relief Tank Gas Space Sample
TV-DA-100 A,B	A	2	Reactor Containment Sump Pump Discharge Isolation
TV-DA-103 A,B	A	2	Post Accident Sample Return Line
TV-DG-108 A,B	A	2	Primary Drain Transfer Pump Discharge Isolation
TV-VG-109 A,B	A	2	Gas Vent Header Isolation
TV-LM-100 A-H	A	2	Leakage Monitoring System Isolation
TV-CV-150 A-D	A	2	Containment Vacuum Pump Suction Isolation
PCV-1456	A	1	Pressurizer Power Operated Relief Valve
PCV-1455C	A	1	Pressurizer Power Operated Relief Valve
TV-1204	A	2	RCS Letdown Isolation Trip Valve
HCV-1200 A,B,C	A	2	Letdown Orifice Isolation
TV-SI-100	A	2	Nitrogen Accumulators
TV-SI-101 A,B	A	2	Accumulator Nitrogen Relief Line Isolation
TV-GW-100-107	A	2	Suction/Discharge Line to Hydrogen Analyzer
TV-GW-111 A,B	A	2	Containment Grab Sample
TV-BD-100 A-F	B	2	Steam Generator Blowdown Isolation
TV-RM-100 A,B,C	A	2	Isolation on Monitor Return Line

RELIEF REQUEST 35

System : RC

Valve(s): PCV-1456
PCV-1455C

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 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

Valve(s): SOV-EE-100
SOV-EE-101
SOV-EE-105

Category: B

Class : NC

Function: Diesel Fuel Oil Pump Discharge 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 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-100A
SOV-EG-100B
SOV-EG-300A
SOV-EG-300B

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 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).

4.5 REPORTING OF INSERVICE TEST RESULTS

4.5.1 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 valves 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 some 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.

4.5.2 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 observes quantities where applicable
 - c. identification of instruments used where applicable
 - d. comparisons with allowable ranges of test valves 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 history 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.

4.6 QUALITY ASSURANCE PROGRAM

The Pump and Valve Inservice Test Program activities will be conducted in accordance with the Nuclear Operations Department Standards Manual and Technical Specifications for Surry Power Station.

Descriptions of changes between Revision 1 and Revision 3 for the Surry Unit 1 System Pressure Tests Program are provided below. The page numbers refer to Revision 3.

<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 1 is currently in the second inspection interval. The verb tense has been changed accordingly.
5-5	Relief Request 22 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 21 and 23 have been added to Items C7.21 and C7.41.
5-9	Relief Request 18 has been withdrawn from Item D1.10.
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	11448-FM-72B
11448-FM-84B	11448-FM-75C
11448-FM-90C	11448-FM-90A
11448-FB-47B	11448-FM-106C
	11448-FB-38A
	11448-FB-41B

5-13	Note 5 was rearranged to enhance clarity.
5-14	Column title "VALVE" added to Note 7. Drawings 11448-FM-84A, 11448-FM-89A and 11448-FB-4B were deleted from Note 8.
5-15	Section 5.4 was rewritten.

Page

Description of Change

- 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-430 and 1-CH-312 was moved to Relief Request 5.
- Technical detail was added to the Alternate Testing Method.
- 5-19 Relief Request 4 has been withdrawn.
- 5-20 Piping between check valves 1-CH-430 and 1-CH-312 was added to Relief Request 5.
- Technical detail was added to the Alternate Testing Method.
- 5-23 The following changes were made to the column entitled, "Connected Piping":

Revision 1

Revision 3

30"-SHP-1-601
to 2"-GN-23-601

30"-SHP-1-601
to 6"-SHP-45-601
to 2"-GN-23-601

to 4"-SDHB-4-601

to 4"-SDHV-4-601

14"-WFPD-17-601

14"-WFPD-17-601
to 3/4"-CFPD-3-601

30"-SHP-1-601

30"-SHP-1-601
to 4"-SHP-25-601

The following additions were made to the column entitled, "Connected Piping":

2 1/2"-WGCB-601
1"-WGCB-601
3"-RT-100-601

30"-SHP-1-601
to 1 1/2"-SHPD-6-601

The following changes were made to the column entitled, "Component":

Revision 1

Revision 3

NRV-MS-101A
1-MS-83,81,266,74

NRV-MS-101A
1-MS-83,81,266

1-WT-174

1-WT-176

The following addition was made to the column entitled, "Component":

1-MS-74

5-24

The following changes were made to the column entitled, "Connected Piping":

Revision 1

30"-SHP-2-601
to 2"-GN-24-601

14"-WFPD-13-601

3"-SHP-2-601

Revision 3

30"-SHP-2-601
to 6"-SHP-46-601
to 2"-GN-24-601

14"-WFPD-13-601
to 3/4"-CFPD-2-601

30"-SHP-2-601
to 4"-SHP-26-601

The following additions were made to the column entitled, "Connected Piping":

2 1/2"-WGCB-601
1"-WGCB-601
3"-RT-110-601

30"-SHP-2-601
to 1 1/2"-SHPD-8-601

30"-SHP-2-601
to 4"-SHP-26-601

The following change was made to the column entitled, "Component":

Revision 1

NRV-MS-101B
1-MS-115,268,113,106

1-WT-177

Revision 3

NRV-MS-101B
1-MS-115,268,113

1-WT-179

The following additions were made to the column entitled, "Component":

1-MS-120,1-MS-378
1-MS-106

5-25

The following changes were made to the column entitled, "Connected Piping":

Revision 1

30"-SHP-3-601
to 2"-GN-25-601

14"-WFPD-9-601

Revision 3

30"-SHP-3-601
to 6"-SHP-47-601

to 2"-GN-25-601
14"-WFPD-9-601
to 3/4"-CFPD-1-601

Page

Description of Change

5-25

The following additions were made to the column entitled, "Connected Piping":

2 1/2"-WGCB-601
1"-WGCB-601
3"-RT-120-601

30"-SHP-3-601
to 1 1/2"-SHPD-7-601

The following change was made to the column entitled, "Component":

Revision 2

NRV-MS-101C
1-MS-152,151,208,143

1-WT-182

Revision 3

NRV-MS-101C
1-MS-152,151,208

1-WT-180

The following addition was made to the column entitled, "Component":

1-MS-143

5-29

Editorial change

5-30

The following changes were made to the column entitled, "Connected Piping":

Revision 1

6"-SI-49-1502

6"-SI-48-1502

3"-SI-72-1503
to 2"-SI-72-1503/
2"-SI-79-1502
2"-SI-77-1503/
2"-SI-80-1502

3"-SI-147-1503
to 2"-SI-73-1503
to 2"-SI-81-1502

Revision 3

6"-SI-49-1502/
6"-SI-48-1502

3"-SI-72-1503

3"-SI-147-1503

3"-SI-70-1503
to 2"-SI-70-1503/
2"-SI-75-1502
3"-SI-90-1503/
3"-SI-70-1503
2"-SI-76-1503/
2"-SI-85-1502
3/4"-SI-68-1503

PageDescription of Change

5-30 The following changes were made to the column entitled, "Component":

Revision 1Revision 3

1-SI-229

1-SI-238

2"-SI-81-1502

1-SI-239

6"-SI-49-1502

1-SI-240

2"-SI-79-1502

1-SI-240

1-SI-227

1-SI-257

1-SI-239

1-SI-255

1-SI-238

1-SI-226

1-SI-253

5-31 The Schedule For Implementation Section was changed from "Once each period" to "End of interval, within the last period".

5-32 The Component Section was rearranged to enhance clarity.

The Basis for Relief Section 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 has been withdrawn.

5-35 The drawing number was changed from 11448-FM-71B to 11448-FM-71A.

5-36 Relief Request 16 has been withdrawn.

5-38 Relief Request 18 has been withdrawn.

5-39 Drawing number 11448-FM-42C was changed to 11448-FM-72C.

5-40 Drawing 11448-FM-71D was added to the components.

The Basis for Relief was rewritten to enhance clarity.

5-41 Relief Request 21 has been added.

5-42 Relief Request 22 has been added.

5-43 Relief Request 23 has been added.

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

UNIT 1

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 1. 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 is detailed in subsequent sections.

5.2 PROGRAM DESCRIPTION

- 5.2.1 The Surry Unit 1 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 1 is currently in the second inspection interval of Inspection Program B, IWA-2420. This interval started December 22, 1982 and coincides with the planned implementation of the proposed inspection program contained within this document. This proposed program will be effective at Surry Unit 1 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	22
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 REQMT.	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 REQMT.	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	8,9,10,11,12,13,21,23
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	8,9,10,11,12,13,21,23

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 REQRMT.	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	19, 20

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, 19,20

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	19

5.3.4 NOTES

Note 1 Class 1 Systems are drawn on the following station prints:

11448-FM-64A
11448-FM-68A
11448-FM-72A
11448-FM-82B
11448-FM-86A
11448-FM-86B
11448-FM-87A
11448-FM-88C
11448-FM-89B
11448-FM-88B

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.

1-SI-109 AND 1-SI-107, HCV-1850B
1-SI-130 AND 1-SI-128, HCV-1850D, MOV-1720A
1-SI-147 AND 1-SI-145, HCV-1850F, MOV-1720B

Note 4 Class 2 Systems are drawn on the following station prints:

11448-FM-64A	11448-FM-84A	11448-FM-124A
11448-FM-64B	11448-FM-84B	11448-FM-138A
11448-FM-66A	11448-FM-85A	11448-SPS-14A
11448-FM-68A	11448-FM-86A	11448-FB-6A
11448-FM-68B	11448-FM-86B	11448-FB-47B
11448-FM-71A	11448-FM-87A	
11448-FM-72A	11448-FM-88A	
11448-FM-72C	11448-FM-88B	
11448-FM-75E	11448-FM-88C	
11448-FM-75G	11448-FM-89A	
11448-FM-75J	11448-FM-89B	
11448-FM-82B	11448-FM-90C	
11448-FM-83A	11448-FM-118A	
11448-FM-83B	11448-FM-123A	

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-E, 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 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 11448-FM-85A will be considered open ended and in accordance with the requirements of IWC-5222(d) for test purposes.

VALVE	PIPING
1-LM-28	3/8"-LM-11-N7
1-LM-29	3/8"-LM-12-N7
1-LM-30	3/8"-LM-13-N7
1-LM-31	3/8"-LM-16-N7

Note 8 Class 3 Systems are on the following station prints:

11448-FM-64A	11448-FM-72G
11448-FM-68A	11448-FM-87A
11448-FM-68B	11448-FM-88A
11448-FM-71A	11448-FM-88B
11448-FM-71B	11448-FM-88C
11448-FM-72A	11448-FM-71D
11448-FM-72B	11448-FM-130A
11448-FM-72C	
11448-FM-72D	
11448-FM-72E	
11448-FM-72F	

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 1 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:

11448-FM-89B

11448-FM-88C

1-SI-79 AND 1-SI-235, 1-SI-241

1-SI-82 AND 1-SI-236, 1-SI-242

1-SI-85 AND 1-SI-237, 1-SI-243

1-SI-88 AND 1-SI-238

1-SI-91 AND 1-SI-239

1-SI-94 AND 1-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 11448-FM-88C as listed:

1-RC-P-1A

1-RC-P-1B

1-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
11448-FM-88C:

HCV-1311 and 1-CH-313
1-CH-430 and 1-CH-312

Function : Chemical and Volume Control System

Class : 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 11448-FM-87A:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
MOV-1701	14"-RH-1-1502	MOV-1700

Function : Residual Heat Removal

Class : 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-1700 is closed in addition to MOV-1701. This prevents pressurization of MOV-1701 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-1701 and the piping between MOV-1701 and MOV-1700 will be tested in accordance with the Class 2 hydrostatic test to be administered to 14"-RH-18-602 on the suction side of the Residual Heat Removal pumps. This piping is protected from overpressure by RV-1721 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 11448-FM-87A:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
MOV-1701	14"-RH-1-1502	MOV-1700

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-1700 and MOV-1701 closed for reasons expounded upon in Relief Request 6. This prevents pressurization of MOV-1701 and piping between the two MOVs.

Alternate Testing Method

As an alternative, during the conduct of the Class 2 functional test on 14"-RH-18-602, MOV-1701 will be open as well as MOV-1700. 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:

11448-FM-64A
 11448-FM-64B
 11448-FM-68A
 11448-FM-124A
 11448-FM-138A
 11448-FM-123A

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
1-RC-E-1A	30"-SHP-1-601 to 30"-SHP-22-601 to 4"-SHP-37-601	SV-MS-101A SV-MS-102A SV-MS-103A SV-MS-104A SV-MS-105A RV-MS-101A
1-RC-E-1A	30"-SHP-1-601 to 6"-SHP-45-601 to 2"-GN-23-601	1-GN-1
1-RC-E-1A	30"-SHP-1-601 to 6"-SHP-45-601	NRV-MS-101A 1-MS-83,81,266
1-RC-E-1A	30"-SHP-1-601 to 30"-SHP-22-601 to 3"-SDHV-1-601 to 4"-SDHV-4-601	HCV-MS-104
1-RC-E-1A	14"-WFPD-17-601 to 3/4"-CFPD-3-601	1-FW-27 1-FW-10 1-WT-176
1-RC-E-1A	2 1/2"-WGCB-601 1"-WGCB-601 3"-RT-100-601	1-BD-1 1-BD-2 1-BD-4 1-RT-1
1-RC-E-1A	30"-SHP-1-601 to 4"-SHP-25-601	1-MS-379 1-MS-87
1-RC-E-1A	30"-SHP-1-601 to 1 1/2"-SHPD-6-601	1-MS-74

RELIEF REQUEST 8 (CONT'D)

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
1-RC-E-1B	30"-SHP-2-601 to 30"-SHP-23-601 to 4"-SHP-38-601	SV-MS-101B SV-MS-102B SV-MS-103B SV-MS-104B SV-MS-105B RV-MS-101B
1-RC-E-1B	30"-SHP-2-601 to 6"-SHP-46-601 to 2"-GN-24-601	1-GN-2
1-RC-E-1B	30"-SHP-2-601 to 6"-SHP-46-601	NRV-MS-101B 1-MS-115,268,113
1-RC-E-1B	30"-SHP-2-601 to 30"-SHP-23-601 to 3"-SDHV-2-601 to 4"-SDHV-4-601	HCV-MS-104
1-RC-E-1B	14"-WFPD-13-601 to 3/4"-CFPD-2-601	1-FW-41,58 1-WT-179
1-RC-E-1B	2 1/2"-WGCB-601 1"-WGCB-601 3"-RT-110-601	1-BD-11 1-BD-12 1-BD-14 1-RT-20
1-RC-E-1B	30"-SHP-2-601 to 4"-SHP-26-601	1-MS-120,1-MS-378
1-RC-E-1B	30"-SHP-2-601 to 1 1/2"-SHPD-8-601	1-MS-106

RELIEF REQUEST 8 (CONT'D)

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
1-RC-E-1C	30"-SHP-3-601 to 30"-SHP-24-601 to 4"-SHP-39-601	SV-MS-101C SV-MS-102C SV-MS-103C SV-MS-104C SV-MS-105C RV-MS-101C
1-RC-E-1C	30"-SHP-3-601 to 6"-SHP-47-601 to 2"-GN-25-601	1-GN-3
1-RC-E-1C	30"-SHP-3-601 to 6"-SHP-47-601	NRV-MS-101C 1-MS-152,151,208
1-RC-E-1C	30"-SHP-3-601 to 30"-SHP-24-601 to 3"-SDHV-3-601 to 4"-SDHV-4-601	HCV-MS-104
1-RC-E-1C	30"-SHP-3-601	1-MS-158 1-MS-377
1-RC-E-1C	14"-WFPD-9-601 to 3/4"-CFPD-1-601	1-FW-72 1-FW-89 1-WT-180
1-RC-E-1C	2 1/2"-WGCB-601 1"-WGCB-601 3"-RT-120-601	1-BD-21 1-BD-22 1-BD-24 1-RT-39
1-RC-E-1C	30"-SHP-3-601 to 1 1/2"-SHPD-7-601	1-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
11448-FM-68A:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
1-FW-12	14"-WFPD-17-601	1-FW-10
1-FW-43	14"-WFPD-13-601	1-FW-41
1-FW-74	14"-WFPD-9-601	1-FW-72
1-FW-31	3"-WAPD-10-601 to 3"-WAPD-9-601	1-FW-27
1-FW-30	3"-WAPD-9-601	1-FW-27
1-FW-62	3"-WAPD-12-601 to 3"-WAPD-11-601	1-FW-58
1-FW-61	3"-WAPD-11-601	1-FW-58
1-FW-93	3"-WAPD-14-601 to 3"-WAPD-13-601	1-FW-89
1-FW-92	3"-WAPD-13-601	1-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
11448-FM-88C:

<u>Component</u>	<u>Piping Connected</u>	<u>Component</u>
1-CH-311	3/4"-CH-240-1502	1-CH-312
HCV-1310A	3"-CH-1-1502	

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 double one-way check valve placement of 1-CH-430 and 1-CH-312 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 11448-FM-89A and 11448-FM-89B:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
MOV-1890C	10"-SI-152-1502 to 6"-SI-153-1502 to 6"-SI-145-1502 to 6"-SI-144-1502	1-SI-243 1-SI-241 1-SI-242
MOV-1890A	6"-SI-49-1502/	1-SI-238
MOV-1890B	6"-SI-48-1502 to 6"-SI-143-1502 to 6"-SI-49-1502 to 6"-SI-50-1502	1-SI-239 1-SI-240
1-SI-174 and MOV-1869A	3"-SI-72-1503	1-SI-227
MOV-1869B	3"-SI-147-1503	1-SI-226
1-SI-150	3"-SI-70-1503	
MOV-1867D	to 2"-SI-70-1503/	1-SI-237
MOV-1867C	2"-SI-75-1502 3"-SI-90-1503/ 3"-SI-70-1503 2"-SI-76-1503/ 2"-SI-85-1502 3/4"-SI-68-1503	1-SI-250 1-SI-236 1-SI-248
MOV-1842	3"-SI-146-1503 to 2"-SI-71-1503/ 2"-SI-74-1502	1-SI-235 1-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 11448-FM-89B:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
MOV-1865A 1-SI-105	12"-SI-45-1502 3/4"-SI-33-1502	1-SI-107
MOV-1865B 1-SI-126	12"-SI-46-1502 3/4"-SI-34-1502	1-SI-128
MOV-1865C 1-SI-143	12"-SI-47-1502 3/4"-SI-35-1502	1-SI-145

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 11448-FM-84A.

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
1-CS-48	6"-CS-15-152	1-CS-47
	6"-CS-14-152	1-CS-46
	2"-CS-19-152	1-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 1-CS-TK-1 (RWST) and piping up to 1-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 1-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-37-152 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 1-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 11448-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 test 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 1 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 11448-FM-86A.

1-RC-E-1A

1-RC-E-1B

1-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

Relief Request Withdrawn

RELIEF REQUEST 19

Component(s): Piping and Components located on the following prints:

11448-FM-72A
11448-FM-72B
11448-FM-72C
11448-FM-72D
11448-FM-72E
11448-FM-72F
11448-FM-72G

Function : Component Cooling Water System

Class : 3

Section XI Code Requirements
For Which Relief Is Requested

System Hydrostatic Test - IWD-5223

Basis For Relief

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 20

Component(s): Piping and components located on the following print:

11448-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 1-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 1-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 21

Component(s): Piping and valves located on the following prints:
11448-FM-89A:

<u>Component</u>	<u>Connected Piping</u>	<u>Component</u>
1-SI-195	3/4"-SI-160-153	1-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, 1-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 1-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 1-SI-195 will be closed in order to provide a pressure boundary to perform the system hydrostatic test, IWC-5222(a), on 1-SI-P-1A. This enables the above mentioned piping to be hydrostatic tested up to the isolation valve, 1-SI-195. The remaining piping and components mentioned in Section 1a 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 22

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 23

Component(s): Piping and valves, as listed, located on station prints:
11448-FM-88B,C:

<u>Component</u>	<u>Piping Connected</u>	<u>Component</u>
HCV-1310A, HCV-1311	3"-CH-1-1502	1-CH-304, 1-CH-305
1-CH-311	2"-CH-68-1502	
	3/4"-CH-240-1502	
	3"-CH-79-1503	

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-1310A 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.