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SUBJECT: Requests relief from certain requirements of ASME Secton XI associated w/partial exams conducted during 1995 plant refueling outage ISI.

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PRIORITY 1 DOCUMENT

MAcf

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

April 28, 1995

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Serial No. 95-176
NO/ETS
Docket Nos. 50-281
License Nos. DPR-37

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNIT 2
INSERVICE INSPECTION PROGRAM RELIEF REQUESTS

During the recent refueling outage, Surry Unit 2 completed its second ten-year interval inservice inspections. Examinations during this interval were conducted to the requirements of the 1980 Edition and Winter 1980 Addenda of ASME Section XI.

Pursuant to 10 CFR 50.55a (g) 5, relief is requested from certain requirements of ASME Section XI associated with partial examinations conducted during the 1995 Surry Unit 2 refueling outage. Relief requests, SR-22 through SR-26, are attached and provide the basis of this request.

These relief requests have been reviewed and approved by the Station Nuclear Safety and Operating Committee.

Should you have any additional questions or require additional information, please contact us.

Very truly yours,

RF Saunders for.

James P. O'Hanlon
Senior Vice President - Nuclear

Attachment

cc: U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N. W.
Suite 2900
Atlanta, Georgia 30323

Mr. M. W. Branch
NRC Senior Resident Inspector
Surry Power Station

A047

Attachment 1

Surry Power Station Unit 2

ISI Examination Relief

RELIEF REQUEST SR-22

I. IDENTIFICATION OF COMPONENT

Mark/Weld#	Line#	Drawing#	Class
H-006	12"-SI-247-1502	11548-WMKS-122A1	1
H-007	12"-SI-245-1502	11548-WMKS-122L1	1

II. IMPRACTICABLE CODE REQUIREMENTS

The 1980 edition, Winter 1980 Addenda (inclusive) of ASME Section XI Table IWB-2500-1, examination category B-K-1, item number B10.10 does not allow any limitations to the required volumetric or surface examinations. Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds, allows a reduction in coverage, if it is less than 10%.

III. BASIS FOR RELIEF

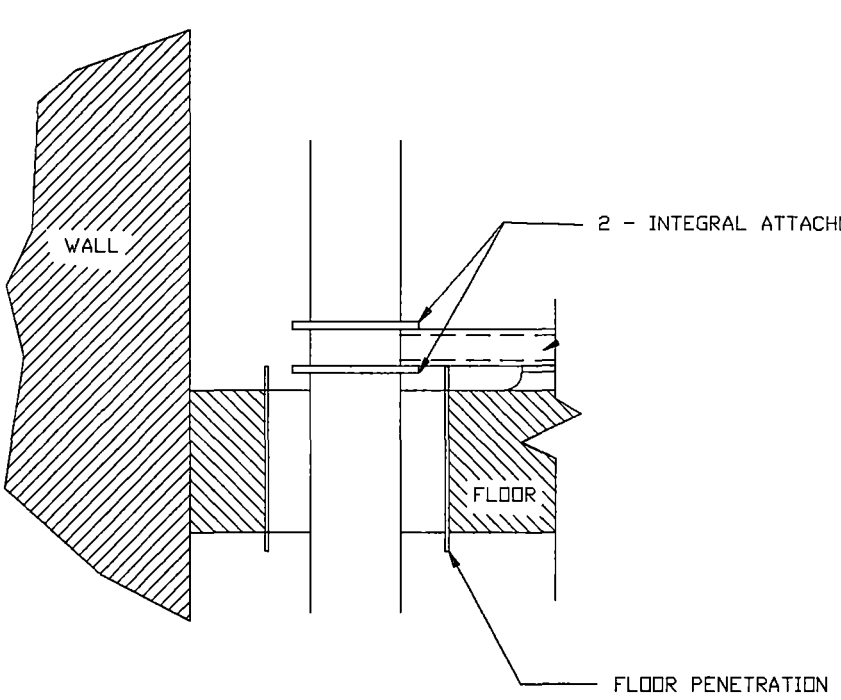
The components listed above has been examined to the extent practical as required by the Code. Due to interferences from pipe support structures and the location of the supports at the point where the pipe passes through the floor, a reduction in coverage of the surface examinations of 50% was necessary. Figure SR-22-1 is provided detailing the limitations experienced. The figure is similar for both support structures. Alternative components could not be substituted for examination due to the mandatory selection requirements of the Code.

IV. ALTERNATE PROVISIONS

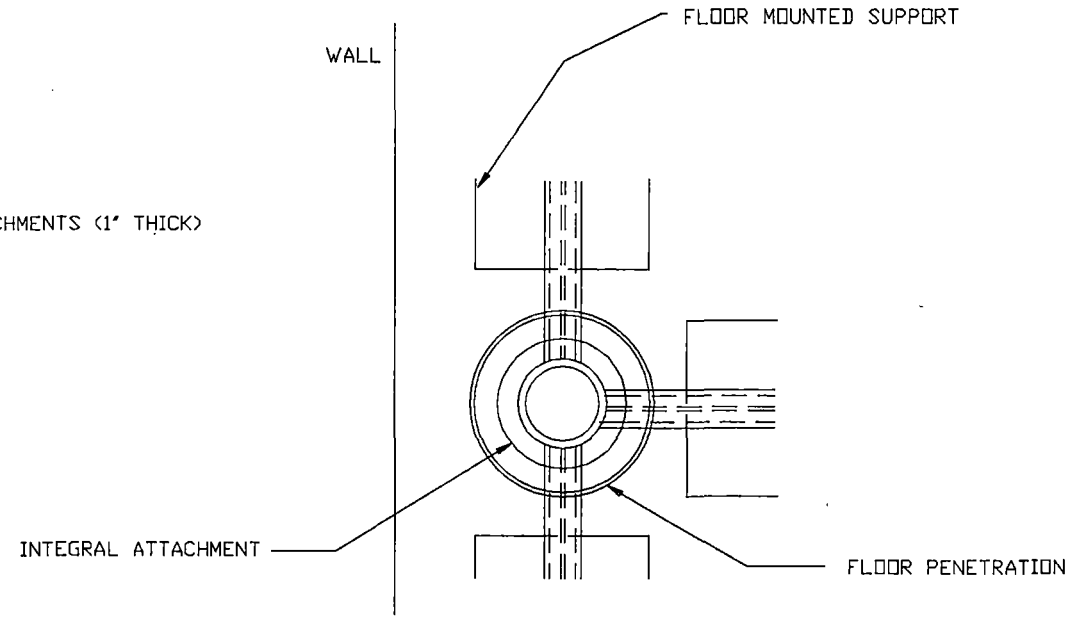
It is proposed that the examination already completed at the reduced coverage be counted as meeting the Code requirements.

V. STATUS

Pending

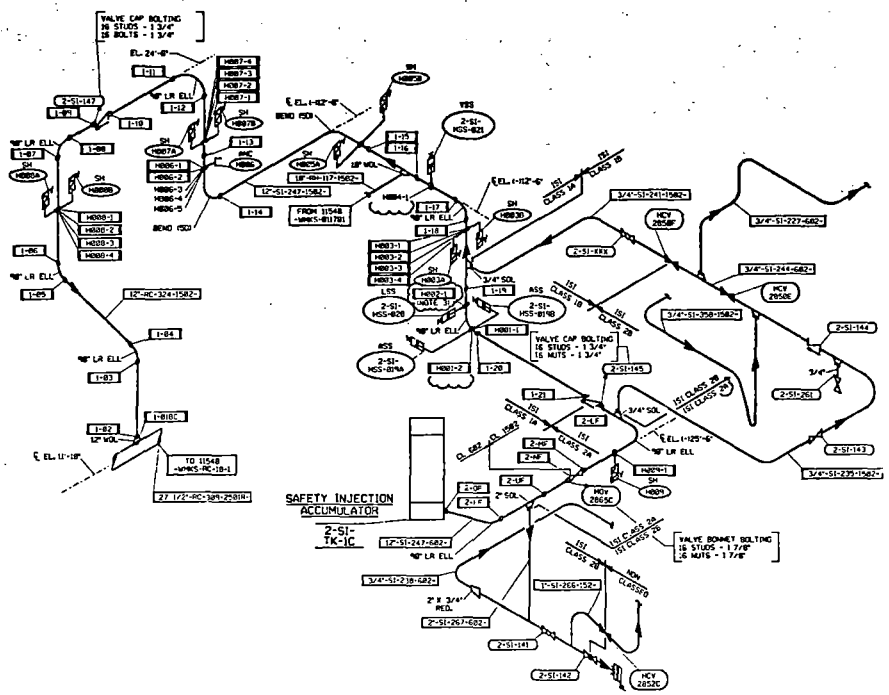


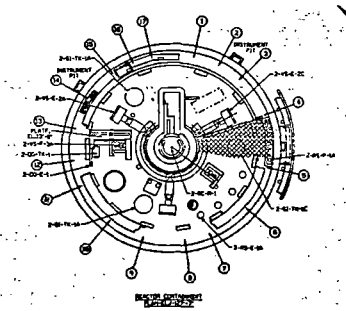
SIDE VIEW



TOP VIEW

Figure SR-22-1





KEY PLAN

NOTES:

1. WELD/ITEM NUMBERS ARE INDICATED AS FOLLOWS: [DRAWING REFERENCE NO.(SEE REF DWG) — INDIVIDUAL WELD/ITEM NUMBER]
2. ALL SWEEPERS EXAMINED PER TECHNICAL SPECIFICATION 3.28 AND 4.37.
3. NEED MATERIAL THICKNESS OF INTEGRAL ATTACHMENTS.
4. PIPING IS 1ST CLASS 1, 2, AND NON CLASSED.

REFERENCE DRAWINGS:

VTR-1-4381	WESTINGHOUSE ISOMETRIC
12846.34-WKS-2122A1	WELD MECHANICAL SKETCH
11548-CBM-086A SHEET 3	1ST CLASSIFICATION BOUNDARY DRAWING
11548-CBM-089G SHEET 3	1ST CLASSIFICATION BOUNDARY DRAWING
11548-WKS-1224A1	PIPE STRESS SKETCH
11548-FP-11A	PIPING DRAWING
11548-FP-11B	PIPING DRAWING
11548-FP-12A	PIPING DRAWING

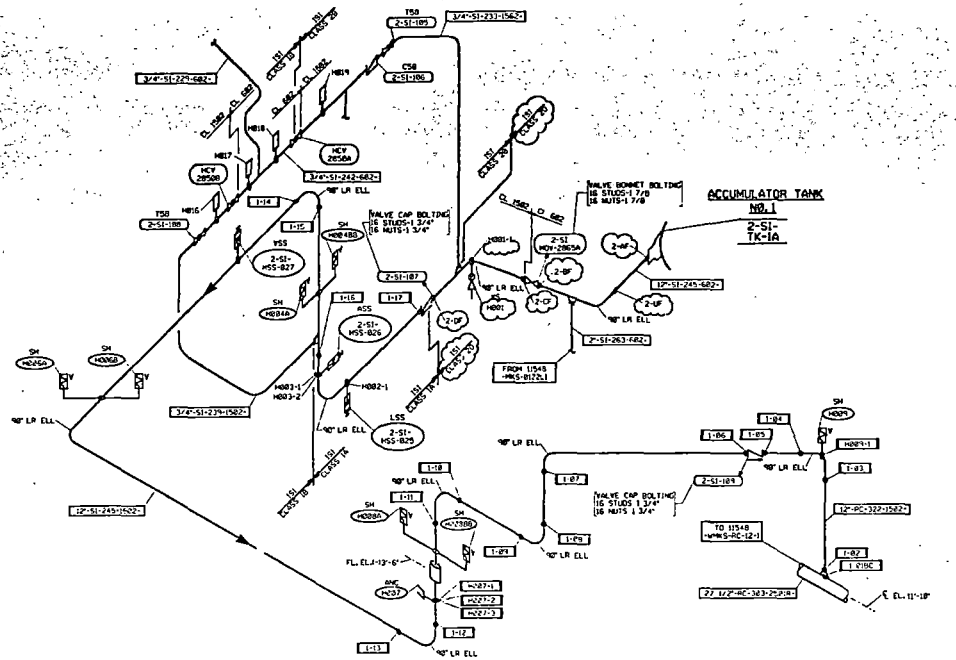
VIRGINIA POWER
NORTH CAROLINA POWER
NUCLEAR ENGINEERING SERVICES
RICHMOND, VIRGINIA

INSERVICE INSPECTION ISOMETRIC
SI SYS: LOW HEAD SAFETY INJ. LOOP 3
SURRY POWER STATION UNIT 2
VIRGINIA POWER

DSGN		DSGN SUPV	CAD NO.
DRWN	WSS	ENGR SUPV	DRAWING NO. 11548-WMKS-812241
CHKD			REV. 1

REDRAWN TO SUIT SINGLE SHEET FORMAT AND REVISED PER ISI REVIEW

UNLESS OTHERWISE NOTED



NOTES:

1. PIPING IS ISI CLASS 1 AND 2.

REFERENCE DRAWINGS:

WM-1-4182	WESTINGHOUSE ISOMETRIC
11548-WMS-2122L	WELD MECHANICAL SKETCH
11548-CBM-088A SHEET 1	ISI CLASSIFICATION BOUNDARY DRAWING
11548-CBM-088B SHEET 1	ISI CLASSIFICATION NONLUGARY DRAWING
11548-WMS-122L1	PIPE STRESS SKETCH
11548-FP-1B	PIPING DRAWING
11548-FP-11A	PIPING DRAWING
11548-FP-11B	PIPING DRAWING
11548-FP-2824L	PIPING DRAWING
11548-FP-2824J	PIPING DRAWING
11548-FP-2826E	PIPING DRAWING
11548-FP-2828	PIPING DRAWING
11548-FP-3824	PIPING DRAWING

VIRGINIA POWER
NORTH CAROLINA POWER
NUCLEAR ENGINEERING SERVICES
RICHMOND, VIRGINIA

INSERVICE INSPECTION ISOMETRIC
SI SYS: SAFETY INJECTION LOOP 1
SURRY POWER STATION UNIT 2
VIRGINIA POWER

DSGN	DSGN SUPV	CAD NO.	
DRWN	ENGR SUPV	DRAWING NO.	11548-WMKS-0122L1
CHKD			REV. 2
SCALE		UNLESS OTHERWISE NOTED	

RELIEF REQUEST SR-23

I. IDENTIFICATION OF COMPONENT

Mark/Weld#	Drawing#	Class
1-11	11548-WMKS-CH-E-3	1

II. IMPRACTICABLE CODE REQUIREMENTS

The 1980 edition, Winter 1980 Addenda (inclusive) of ASME Section XI Table IWB-2500-1, examination category B-D, item number B3.150 does not allow any limitations to the required volumetric or surface examinations. Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds, allows a reduction in coverage, if it is less than 10%.

III. BASIS FOR RELIEF

The component listed above has been examined to the extent practical as required by relief request SR-018 of the Inservice Inspection Program for Unit 2 Second Interval. Due to interferences from a support clamp the reduction in coverage of the surface examination was 14.6%. Figure SR-23-1 is provided detailing the limitations experienced. Alternative components could not be substituted for examination due to the mandatory selection requirements of the Code.

IV. ALTERNATE PROVISIONS

It is proposed that the examination already completed at the reduced coverage be counted as meeting the Code requirements.

V. STATUS

Pending

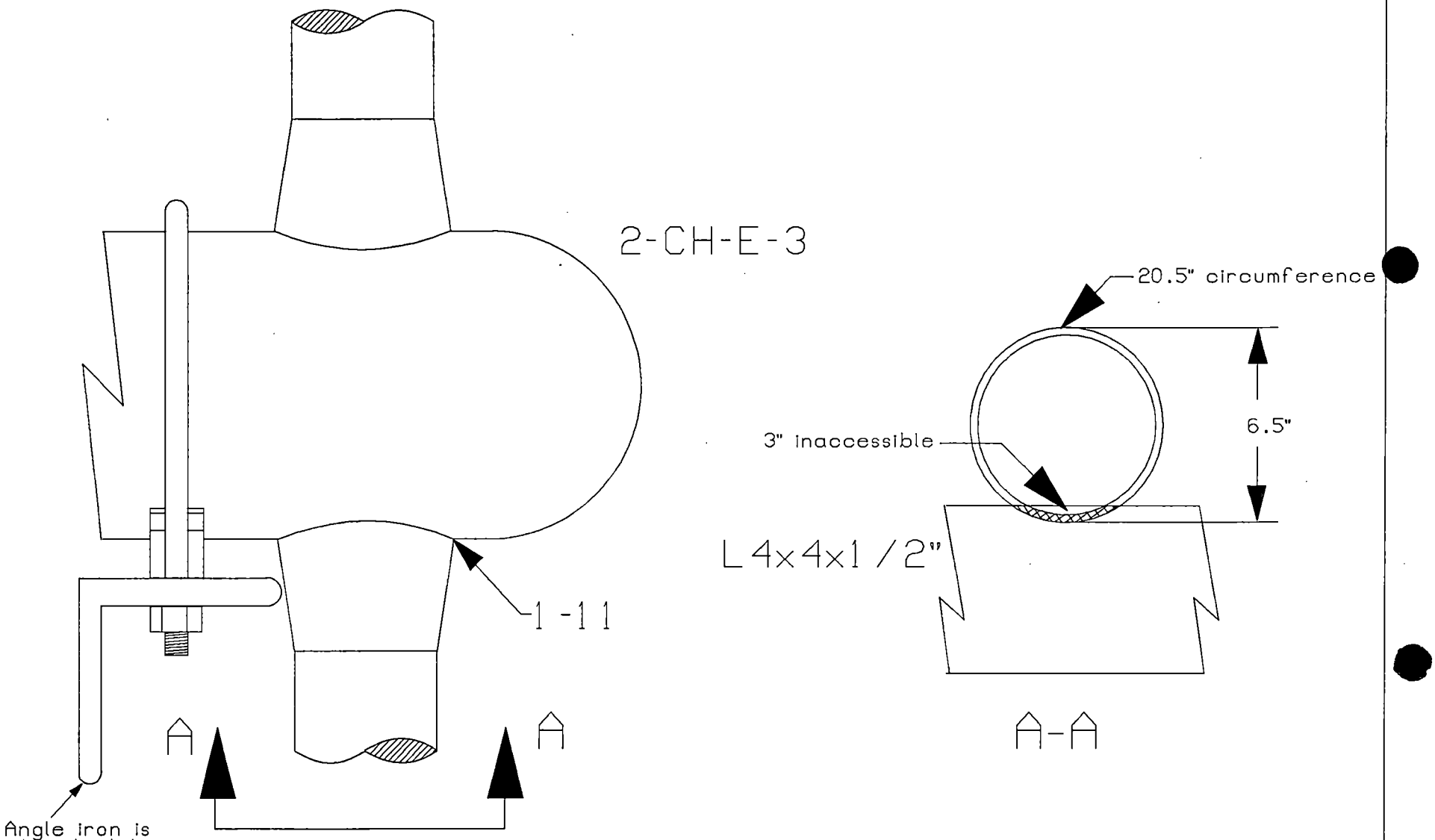
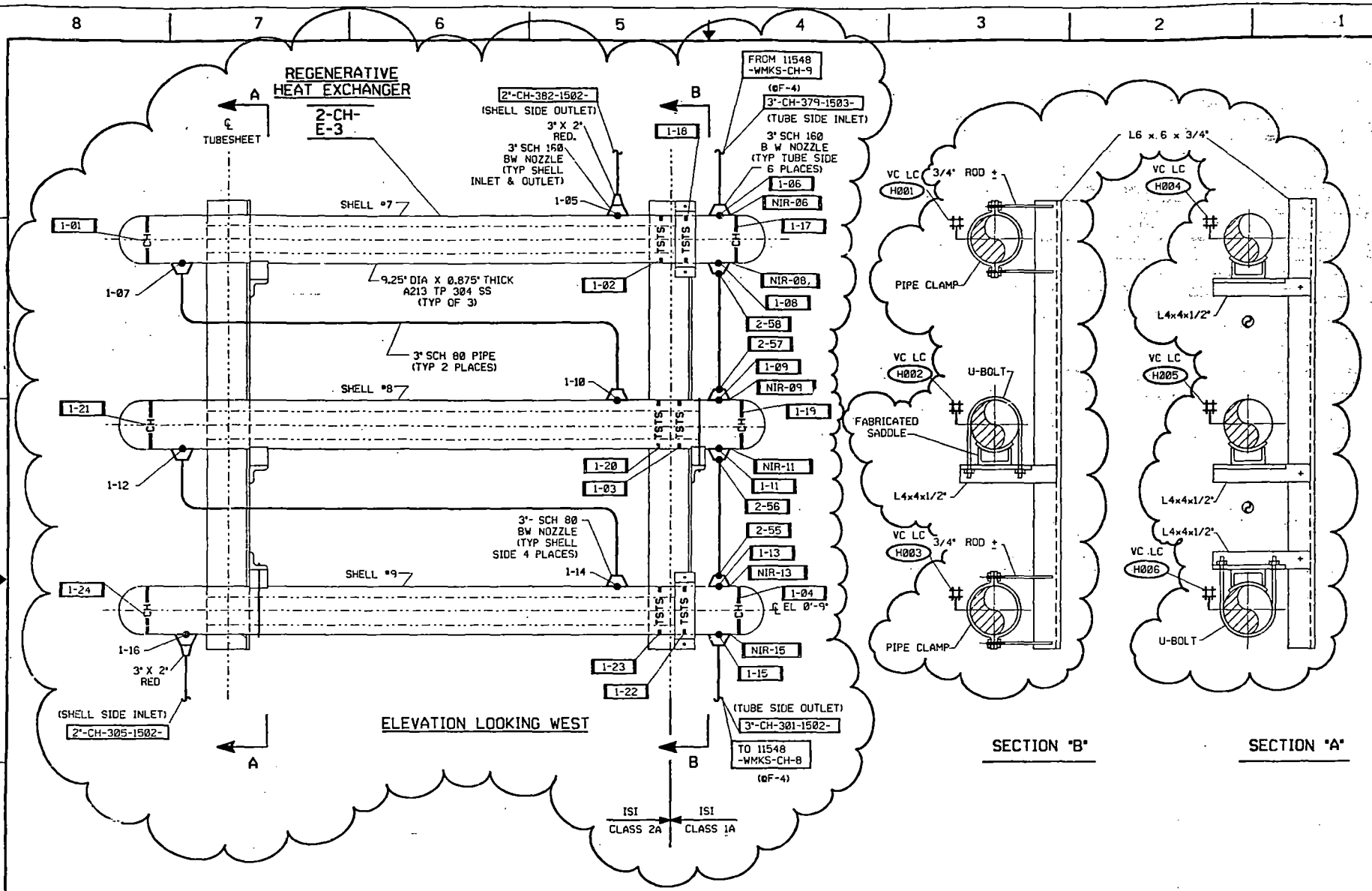


Figure SR-24-1



REV	DATE	DESCRIPTION
1		REVISED PER WALKDOWN AND ISI REVIEW
0		INITIAL ISSUE

VIRGINIA POWER
NORTH CAROLINA POWER
NUCLEAR ENGINEERING SERVICES
RICHMOND, VIRGINIA

INSERVICE INSPECTION DETAIL DRAWING REGENERATIVE HEAT EXCHANGER:2-CH-E-3 SURRY POWER STATION UNIT 2 VIRGINIA POWER

DSGN		DSGN SUPV ARF	CAD NO. CHE000003
DRWN MBL		DISPL ENGR WFM	DRAWING NO. 11548-WMKS-CH-E-3 REV. 1
CHKD MBL		LEAD ENGR	
DATE 3/27/90		SCALE NONE	UNLESS OTHERWISE NOTED SH 1 OF 2

22-JUN-1992 09:56
ZG5:[355.0021CHE000003.DGN

RELIEF REQUEST SR-24

I. IDENTIFICATION OF COMPONENT

Mark/Weld#	Drawing#	Class
1-01	11548-WMKS-CH-FL-4A/B	2

II. IMPRACTICABLE CODE REQUIREMENTS

The 1980 edition, Winter 1980 Addenda (inclusive) of ASME Section XI Table IWC-2500-1, examination category C-A, item number C1.20 does not allow any limitations to the required volumetric or surface examinations. Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds, allows a reduction in coverage, if it is less than 10%.

III. BASIS FOR RELIEF

The component listed above has been examined to the extent practical as required by the Code. Due to interferences from three permanent support legs the reduction in coverage of the ultrasonic examination was 35% (12" out of 34"). Figure SR-24-1 is provided detailing the limitations experienced. Alternative components could not be substituted for examination due to the mandatory selection requirements of the Code.

IV. ALTERNATE PROVISIONS

It is proposed that the examination already completed at the reduced coverage be counted as meeting the Code requirements.

V. STATUS

Pending

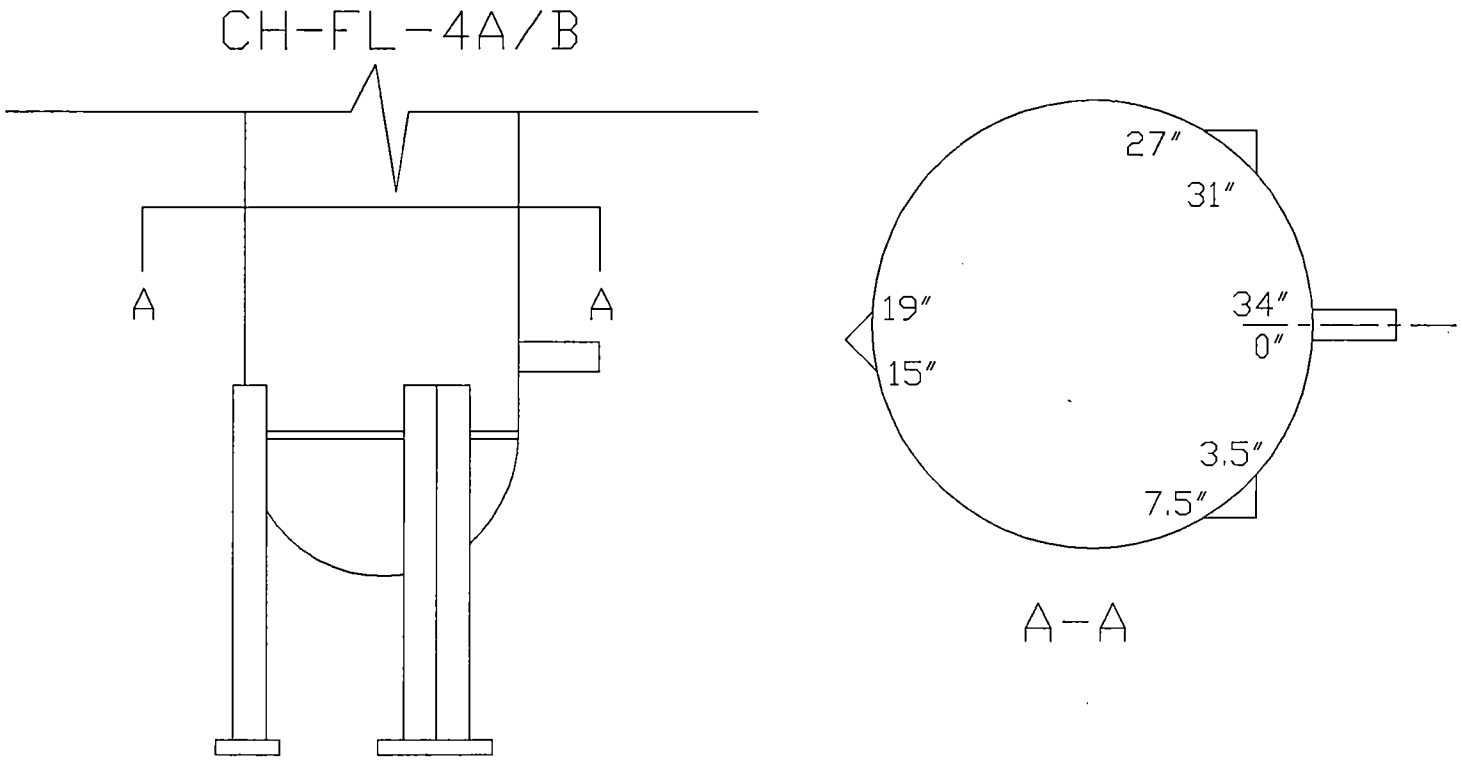
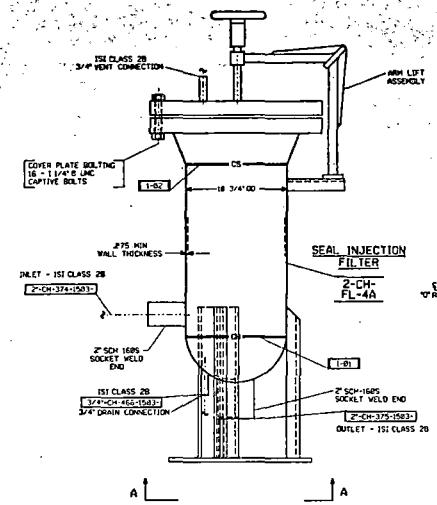
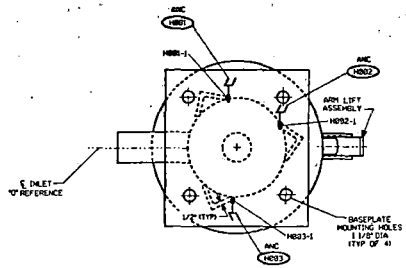


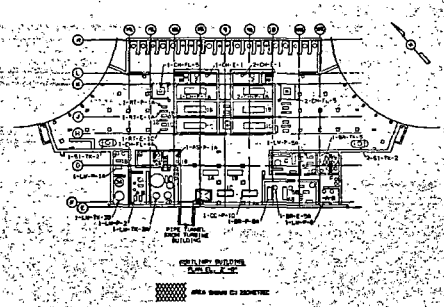
Figure SR-24-1



GENERAL ELEVATION



SECTION A-A
SUPPPORT DETAILS



KEY PLAN

NOTES:

1. WELD/ITEM NUMBERS ARE INDICATED AS FOLLOWS: 1-6
   DRAWING REFERENCE NO. (SEE REF DWG)
   INDIVIDUAL WELD/ITEM NUMBER

REFERENCE DRAWINGS:

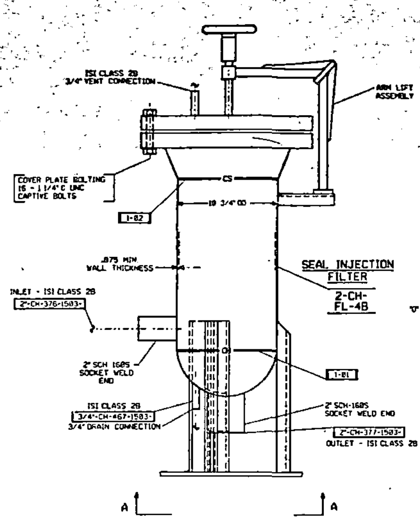
VIR-2-1328	WESTINGHOUSE ISOMETRIC
11548-CBM-088C SHEET 2	ISI CLASSIFICATION BOUNDARY DRAWING
D-9444-2003	COMMERCIAL FILTERS C.I.P.
11448-L85-17A	COMMERCIAL FILTERS CORP (MFG DRG NO D-9444-2026)

VIRGINIA POWER
NORTH CAROLINA POWER
NUCLEAR ENGINEERING SERVICES
RICHMOND, VIRGINIA

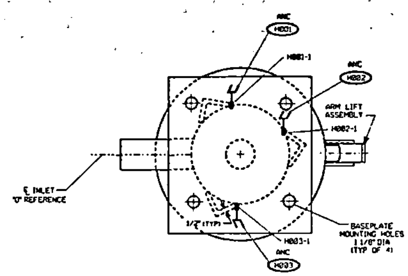
INSERVICE INSPECTION DETAIL DRAWING
SEAL INJECTION FILTER: 2-CH-FL-4A
SURRY POWER STATION UNIT 2
VIRGINIA POWER

DSGN	DSGN SUPV	CAD NO.	REV.
DRWN	ENGR SUPV	DRAWING NO. 11548-WMKS-CH-FL-4A	1
CHKD			
SCALE	DATE	UNLESS OTHERWISE NOTED	

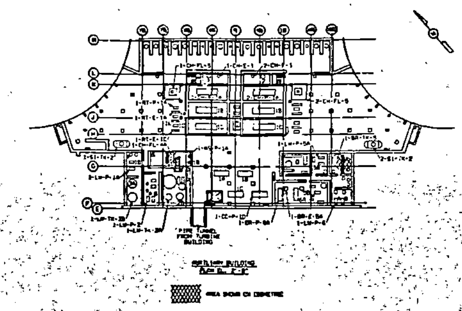
REDRAWN TO SUIT SINGLE SHEET FORMAT



GENERAL ELEVATION



SECTION A-A
SUPPPORT DETAILS



KEY PLAN

NOTES:

1. WELD/ITEM NUMBERS ARE INDICATED AS FOLLOWS: #-#
   DRAWING REFERENCE NO. (SEE REF DWG)
   INDIVIDUAL WELD/ITEM NUMBER

REFERENCE DRAWINGS:

VIR-2-1300	WESTINGHOUSE ISOMETRIC
11548-CBM-088C SHEET 2	ISI CLASSIFICATION BOUNDARY DRAWING
0-9444-2003	COMMERCIAL FILTERS CORP.
11448-LBS-17A	COMMERCIAL FILTERS CORP (MFG DRG NO 0-9444-2006)

VIRGINIA POWER
NORTH CAROLINA POWER

NUCLEAR ENGINEERING SERVICES
RICHMOND, VIRGINIA

INSERVICE INSPECTION DETAIL DRAWING
SEAL INJECTION FILTER: 2-CH-FL-4B
SURRY POWER STATION UNIT 2
VIRGINIA POWER

REDRAWN TO SUIT SINGLE SHEET FORMAT

DRAWING NO. 11548-WMKS-CH-FL-4B REV. 1

SCALE NONE UNLESS OTHERWISE NOTED SH 1 OF 1

RELIEF REQUEST SR-25

I. IDENTIFICATION OF COMPONENT

Mark/Weld#	Line#	Drawing#	Class
1-09	31"-RC-308-2501R	11548-WMKS-RC-10-1	1

II. IMPRACTICABLE CODE REQUIREMENTS

The 1980 edition, Winter 1980 Addenda (inclusive) of ASME Section XI Table IWB-2500-1, examination category B-J, item number B9.11 does not allow any limitations to the required volumetric or surface examinations. Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds, allows a reduction in coverage, if it is less than 10%.

III. BASIS FOR RELIEF

The component listed above has been examined to the extent practical as required by the Code. Due to the geometry of the weld crown the reduction in coverage of the volumetric examinations are detailed in Table SR-25-1. Figure SR-25-1 is provided detailing the limitations experienced. Substituting with another weld of the same size would not necessarily improve the examination coverage since similar geometric conditions are expected.

IV. ALTERNATE PROVISIONS

It is proposed that the examination already completed at the reduced coverage be counted as meeting the Code requirements.

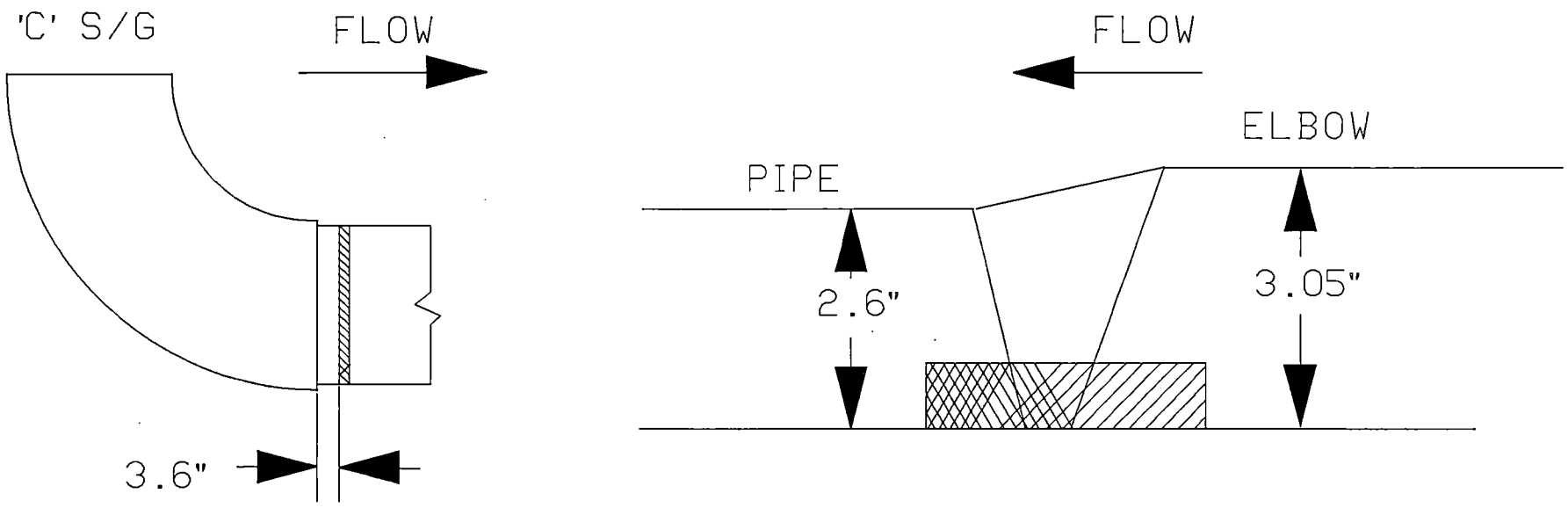
V. STATUS

Pending

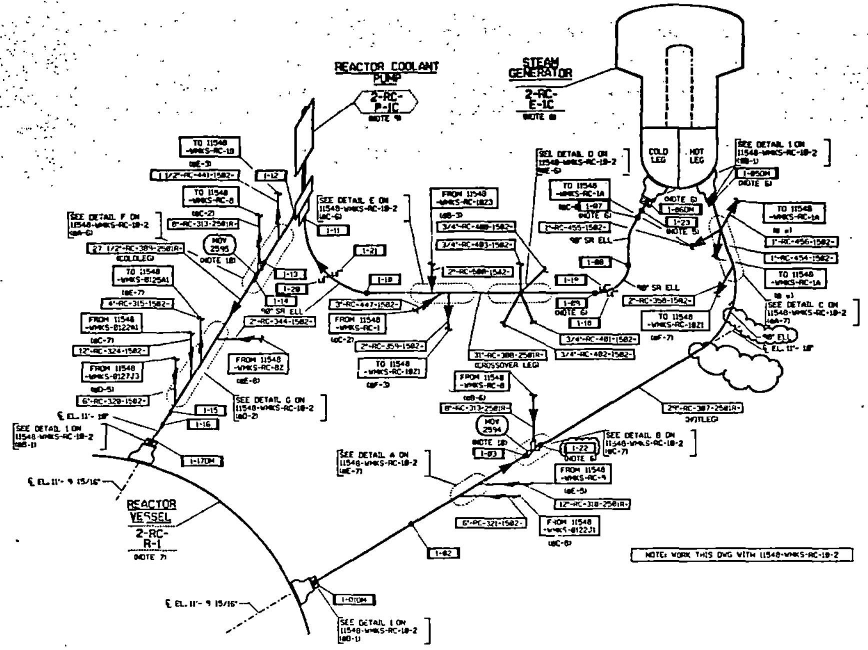
Table SR-25-1
Surry Unit 2
Examination Coverage Estimates
11548-WMKS-RC-10-1
Category B-J, Item B9.11

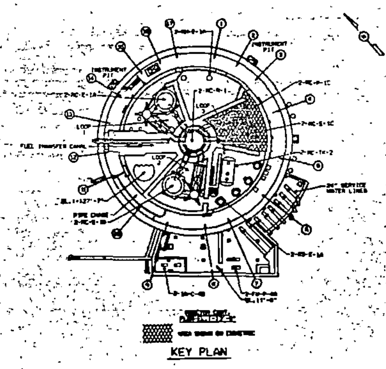
Mark/Weld#	UT Scan Coverage % 2	5	7	8	Surface Examination Coverage %	Reason For Partial
1-09	50	83	72	72	100	The geometry of the weld crown limits the coverage in the area of pipe to weld and weld to elbow. Material type, ASTM A-351 austentic steel casting, limits the use of an extended V-path examination.

UT Scan Direction Definitions
2 - Axial scan, 180 degrees from isometric flow direction.
5 - Axial scan, the same direction as the isometric flow.
7 - Circumferential scan, clockwise rotation when viewing in the direction of isometric flow.
8 - Circumferential scan, counterclockwise rotation when viewing in the direction of isometric flow.



31"-RC-308-2501R WELD 1-09
FIGURE SR-25-1





NOTES:

1. WELD/ITEM NUMBERS ARE INDICATED AS FOLLOWS: *-*
   DRAWING REFERENCE NO. (SEE REF DWG)
   INDIVIDUAL WELD/ITEM NUMBER
2. ALL PIPING IS ISI CLASS 1A
3. THERE IS NO CORRESPONDING MKS DRAWING FOR THIS ISOMETRIC.
4. WELDS 1-18 THRU 1-21 ARE LONGITUDINAL ELECTROSLAG WELDS.
5. WELDS 1-22 & 1-23 INSTALLED 1979
6. WELDS 1-04, 1-05OM, 1-06OM, 1-07 & 1-09 REPLACED 1979.
7. FOR DETAILS OF THE REACTOR VESSEL, SEE 11548-WMKS-2-RC-R-1
8. FOR DETAILS OF THE STEAM GENERATOR, SEE 11548-WMKS-2-RC-E-1C
9. FOR DETAILS OF THE REACTOR COOLANT PUMP, SEE 11548-WMKS-2-RC-P-1C
10. FOR DETAILS OF THE LOOP STOP VALVES (MOV-2594 & MOV-2595), SEE 11548-WMKS-MOV-2594 AND MOV-2595 RESPECTIVELY.

REFERENCE DRAWINGS:

VIR-1-4300	WESTINGHOUSE ISOMETRIC
11548-CBM-086A SHEET 3	ISI CLASSIFICATION BOUNDARY DRAWING
11548-MSK-102A	PIPE FLEXIBILITY ANALYSIS SHEET
11548-FP-8A	PIPING DRAWING
11548-FP-8B	PIPING DRAWING

VIRGINIA POWER
NORTH CAROLINA POWER

NUCLEAR ENGINEERING SERVICES
RICHMOND, VIRGINIA

INSERVICE INSPECTION ISOMETRIC
RC SYS: LOOP C REACTOR COOLANT PIPE
SURRY POWER STATION UNIT 2
VIRGINIA POWER

1 REDRAWN TO SUIT SINGLE SHEET FORMAT AND REVISED PER ISI REVIEW.

DSGN — | DSGN SUPV — | CAD NO. [illegible]
DRWN MES | ENGR SUPV — | DRAWING NO. 11548-WMKS-RC-10-1 | REV. 1
CHKD VEM
DISPL ENGR | SCALE NONE | UNLESS OTHERWISE NOTED SH 1 OF 1

RELIEF REQUEST SR-26

I. IDENTIFICATION OF COMPONENT

Mark/Weld#	Drawing#	Class
2-05	11548-WMKS-RS-P-2A	2

II. IMPRACTICABLE CODE REQUIREMENTS

The 1980 edition, Winter 1980 Addenda (inclusive) of ASME Section XI Table IWC-2500-1, examination category C-G, item number C6.10 does not allow any limitations to the required volumetric or surface examinations. Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds, allows a reduction in coverage, if it is less than 10%.

III. BASIS FOR RELIEF

The component listed above has been examined to the extent practical as required by the Code. Due to interferences from a pump casing support the reduction in coverage of the surface examination was 25%. Figure SR-26-1 is provided detailing the limitations experienced. No other alternative is available for substitution since the "B" pump has the same limitation.

IV. ALTERNATE PROVISIONS

It is proposed that the examination already completed at the reduced coverage be counted as meeting the Code requirements.

V. STATUS

Pending

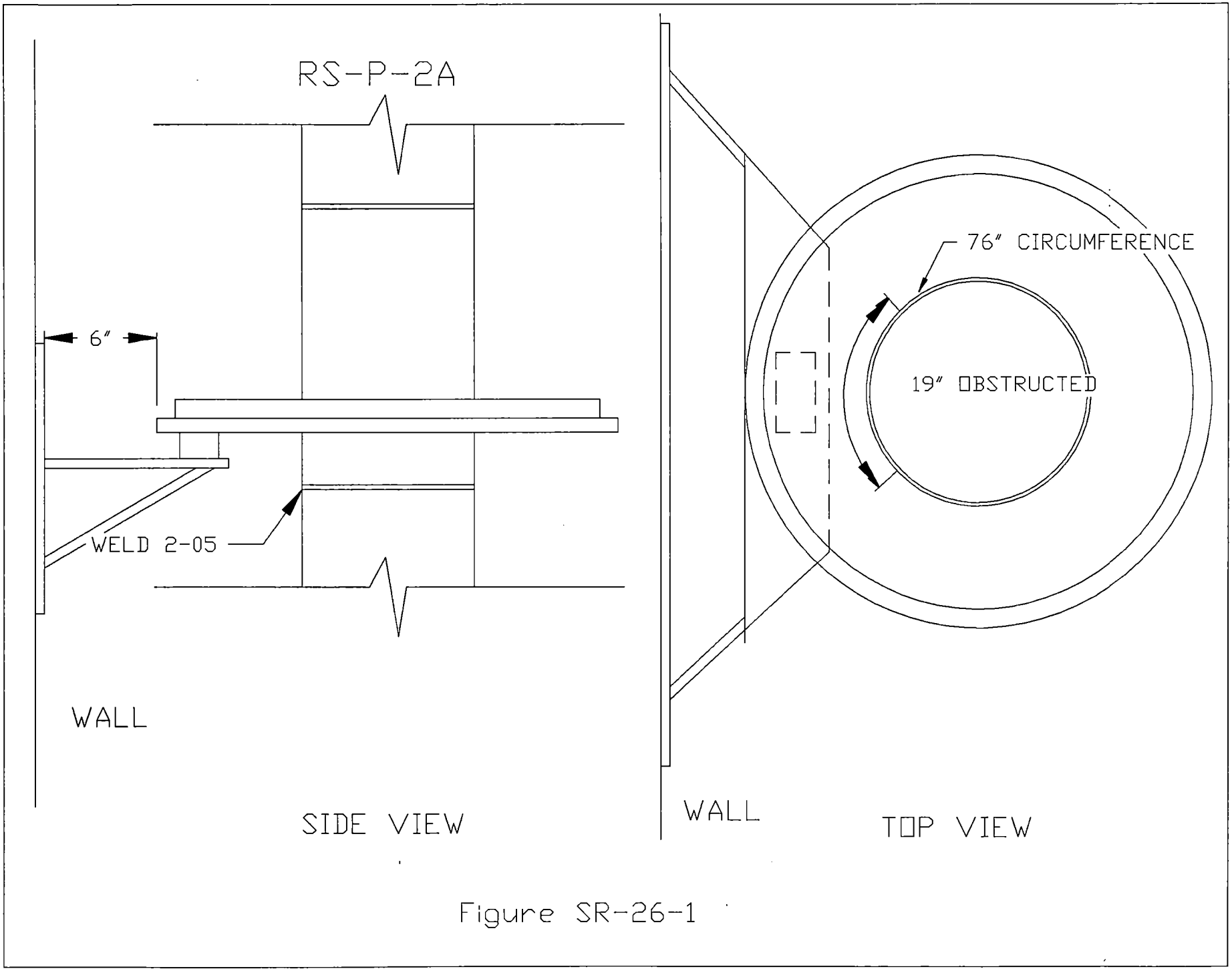
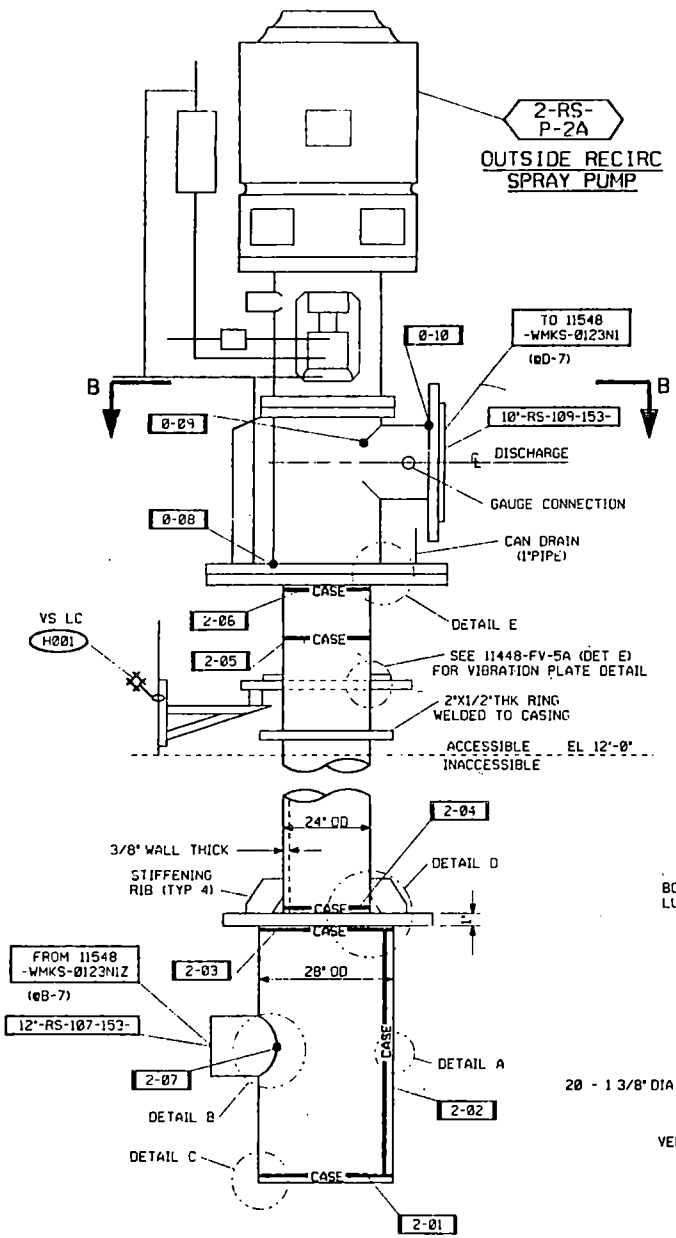
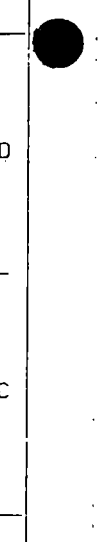
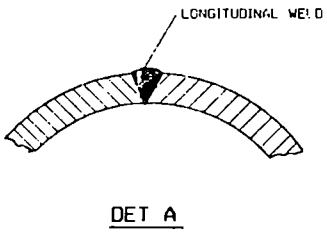


Figure SR-26-1

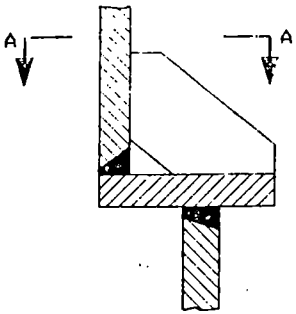


SECT A-A

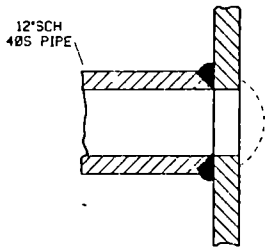




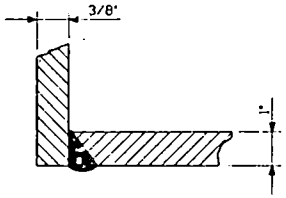
DET A



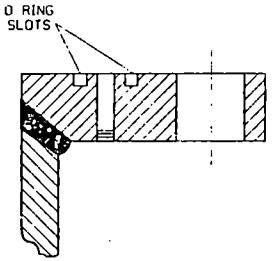
DET D



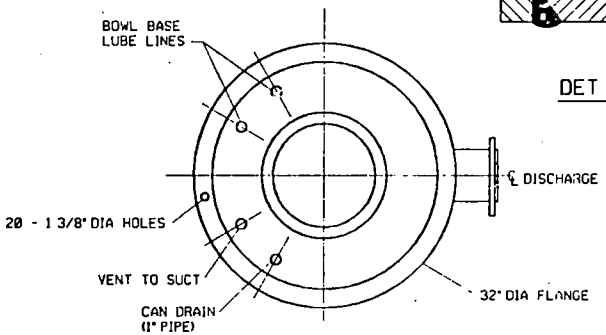
DET B



DET C



DET E



SECT B-B

REV	DATE	DESCRIPTION
0		INITIAL ISSUE

VIRGINIA POWER
NORTH CAROLINA POWER
POWER ENGINEERING SERVICES
RICHMOND, VIRGINIA

INSERVICE INSPECTION DETAIL DRAWING OUTSIDE RECIRC SPRAY PUMP:2-RS-P-2A SURRY POWER STATION UNIT 2 VIRGINIA POWER

DSGN		OSCN SUPV	CAD NO. RSP0002A1
DRWN MBL		DISPL ENGR	DRAWING NO. 11548-WMKS-RS-P-2A
CHKD		LEAD ENGR	REV. 0
DATE 03-05-90		SCALE NONE	UNLESS OTHERWISE NOTED SH 1 OF 2

6-MAR-1990 12:49
DSA3:[355,002]RSP0002A1.DGN