

INSERVICE INSPECTION
TEN YEAR PLAN

for

BEAVER VALLEY POWER STATION
Unit Number One
SHIPPINGPORT, PA 15077

September 30, 1976
Commercial Service Date

Owned by:

Duquesne Light Company
Ohio Edison Company
Pennsylvania Power Company

Operated by:

Duquesne Light Company
One Oxford Centre
301 Grant Street
Pittsburgh, PA 15279

PREPARED BY	DATE	ISI REVIEW	DATE
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ISI DIRECTOR REVIEW	DATE	ORC REVIEW	DATE
<i>William H. Sikorski</i>	4/18/86	MEETING NO. 155	5/9/86
OSC REVIEW	DATE	APPROVAL, BVPS PLANT MANAGER	DATE
BV-OSC-13-86	4/18/86	<i>Wm S. Lacey</i>	5/14/86

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PROGRAM DESCRIPTION

1.0 PURPOSE

This program describes how Duquesne Light Company (DLC) administers the nondestructive examination (NDE) Inservice Inspection (ISI) Program specified in the ASME Boiler and Pressure Vessel Code, Section XI and Site Administrative Procedure (SAP), Chapter 34.

2.0 SCOPE

- 2.1 This program applies to the nondestructive examinations of piping components, pressure vessels, and supports which is required by ASME Section XI, Subsections IWA, IWB, and IWC.
- 2.2 Nondestructive examinations which are long-term requirements in excess of the ASME Section XI requirements (i.e., RCP flywheel inspection) are incorporated into this program for ease of administration.
- 2.3 The inservice testing (IST) of pumps and valves (ASME XI, subsections IWV and IWP) is administered by the Nuclear Operation Unit per SAP, Chapter 27.
- 2.4 Repair procedures (ASME XI 4000 series subsections) are administered by the Nuclear Engineering and Construction Unit per SAP, Chapter 39.
- 2.5 The examination of Class 3 supports (ASME XI, section IWD) is administered per the ISID Component Support Visual Examination Program.
- 2.6 Leakage examination of components (Classes 1-3) is administered per the ISID Leakage Examination Program, (LEP-1).
- 2.7 Leakage testing of the Recirculation Spray Heat Exchangers (see Licensing Basis Index item 3) is accomplished by the Testing and Plant Performance Group under BVT-1.1-1.13.4.
- 2.8 The Inservice Inspection Department (ISID) procedures that are used to administer this program and to control the work are contained in the DLC Nuclear Group Inservice Inspection Manual.

3.0 DEFINITIONS

- 3.1 Inspection Interval - ten years (120 months).
- 3.2 Inspection Period - one third of an inspection interval (40 months).
- 3.3 ISI - inservice inspection

- 3.4 NDE - nondestructive examination, including visual examination
- 3.5 Ninety Day Report - report submittable to the Nuclear Regulatory Commission (NRC) describing the inspections performed after the preceding outage, if applicable.)
- 3.6 Ten Year Plan - ISI examination plan for one inspection interval.

4.0 BASIS

- 4.1 This ten year plan is an inspection program prepared in accordance with Inservice Inspection Department Procedure A2.4 and Nuclear Group Directive (NGD) 25. For ease of reference, this plan is designated TYPP-1.
- 4.2 ASME Code Class 1 and 2 components will be inspected during their service life in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10CFR50, Section 50.55a (g), except where specific relief has been granted by the NRC pursuant to 10CFR50, Section 50.55a(g)(6)(i).
- 4.3 The starting date for the first inspection interval for BVPS Unit #1 is September 30, 1976, the commercial service date.
- 4.4 The examinations required by Subsections IWB and IWC shall be completed during each ten year interval of service. Because of the extended outage in 1980, the first interval has been extended to September 20, 1987 (see NRC letter of May 21, 1984). [The interval may be extended, in addition, by as much as one year to permit inspections to be concurrent with a plant outage.]
- 4.5 In accordance with the requirements of 10CFR50, Paragraph 55a(g)(2) the applicable code for Beaver Valley Unit One is the 1974 Edition through Summer 1975 Addenda of Section XI of the ASME Boiler and Pressure Vessel Code, inspection schedule B.
- 4.6 Exceptions to the requirements may be taken in accordance with the requirements of 10CFR50.55a and SAP Chapter 34.
- 4.7 Alternatives to the requirements of ASME Section XI may be utilized when authorized in accordance with 10CFR50.55a (a)(3).

5.0 PROGRAM DEVELOPMENT

When Beaver Valley Unit One began operation, Westinghouse developed and administered the Ten Year Plan under contract to DLC. At the fourth refueling outage, DLC began administering the inspection program and began using the DLC controlled 8700-ISI-series isometric drawings to plan examinations. Thus, the fourth outage report is indexed by DLC drawing number. This report has been converted to the Westinghouse nomenclature

within the Ten Year Plan. Revision 3 of the Ten Year Plan is the first revision developed exclusively by DLC and has retained the Westinghouse nomenclature. A subsequent revision is planned in which all reference numbers will be converted to those on the 8700-ISI-series controlled drawings.

6.0 INSPECTION SCHEDULES

- 6.1 The nondestructive examinations scheduled over the ten year interval are listed in the examination schedule tables B1 thru B6 (Class 1) and C1 thru C4 (Class 2).
- 6.2 As defined by article IWB-2411 for Class 1 components, a certain percentage of the examination requirements have to be completed by the expiration of one-third and two-thirds of the 10 year inspection interval (25% and 50%, respectively). The exceptions are those components or areas which are not normally made accessible during normal refueling outages which may be examined during the outage at the end of the 10 year interval.
- 6.3 As defined by article IWC-2411 for Class 2 components, the examinations required by IWC-2520 may be divided among the number of components of the same size and geometry in each of the multiple streams of a system which perform the same functions. This criteria has been utilized in selecting Class 2 system pipe welds for examination. Additionally, the required examinations for each component are to be completed by the end of the postulated service lifetime, with an equal portion being performed in each ten year inspection interval. As a forty year plant operating life has been assumed, the examination requirements as given in the tabulations for the initial ten year interval, have been selected to fulfill one quarter of the total requirements and have been equally distributed in each of the three forty-month periods.
- 6.4 As required by Table IWC-2520 Categories C-F and C-G, piping system circumferential welds selected for examination are only those at geometric discontinuities and includes 100 percent of those in systems recirculating reactor coolant and 50 percent of those systems containing other than reactor coolant.
- 6.5 The examinations accomplished as the plan was implemented are listed in the outage examination lists (1R thru 6R).
- 6.6 The examination schedules, when addressing inspections of bolts and studs, number the items. The reactor vessel studs are stamped with a number. All other items are not imprinted.
- 6.7 The basis for the selection of the multiple streams used for the Class 2 components is recorded in sketches and calculation notes retained by the ISID.

7.0 CONDUCT OF INSPECTIONS

7.1 Outage Preparation

- 7.1.1 Prior to each planned unit outage, the ISID will determine from the Ten Year Plan the examinations which need to be performed during the outage. This outage examination plan shall be based on the DLC 8700-ISI-series of controlled isometric drawings. The ISI Master Drawing Index shall be used to convert the Westinghouse nomenclature to the DLC system.
- 7.1.2 The ISID will inform the Plant Manager and the Director of Planning and Outage Management of the plans for ISI so that affected Station groups may determine their manpower and equipment requirements to support the examinations.
- 7.1.3 The ISID will inform the site Authorized Nuclear Inservice Inspector (ANII) prior to the commencement of examinations.
- 7.1.4 All or part of the ASME Section XI ISI work may be contracted to examination organizations or consultants. The ISID will clearly define the requirements and scope of work through written specifications or contracts. The ISID will review contractor procedures and personnel certification, schedule the work, arrange for required support, monitor the work, and review the results.

7.2 Procedures

- 7.2.1 ISI examinations and tests shall be performed in accordance with approved written procedures. The Inservice Inspection Department (ISID) technical procedures will be utilized by DLC personnel performing examinations. Contracted personnel shall either utilize the ISID procedures or contractor procedures approved according to ISID procedure A3.7, "Review and Approval of Vendor Procedures."
- 7.2.2 The contractor's personnel may perform work in accordance with the requirements of the ISID procedures after receiving training and performing a practical demonstration of the procedures (at the discretion of DLC). The ANII should be notified prior to the demonstration. The contractor's personnel shall be qualified to the appropriate level for the examination to be performed.

7.2.3 Prior to the commencement of work, all initial documentation required of the contractor, as specified on the procurement documentation (i.e. certifications, calibration reports), shall be received and approved by the Supervisor of ISI Services or his designee.

7.3 Deficiency Resolution

7.3.1 Deficiencies shall be reported in accordance with ISID procedure A3.3, "Reporting Examination, Test, and Surveillance Activities".

7.3.2 Prior to the Mode 5 Checklist sign off, all ISI deficiencies affecting plant integrity shall be resolved. The ISID will perform an additional review of deficiency resolution prior to operation in Mode 3.

7.4 Ten Year Plan Update

At the conclusion of the outage and after the submittal of the Ninety Day Report, the ISID shall revise the Ten Year Plan to record the examinations performed since the last update.

8.0 QUALIFICATION OF PERSONNEL

DLC personnel performing NDE shall be trained, qualified, and certified in accordance with ISID procedure A4.2, "Personnel Qualification and Certification in Nondestructive Examination".

9.0 RECORDS AND REPORTS

9.1 All examinations, tests, and surveillances resulting from the implementation of the ISI Ten Year Plan shall be documented and reported in accordance with the ISID procedure A3.3, "Reporting Examination, Test, and Surveillance Activities".

9.2 After the completion of each outage, the ISID shall prepare a Ninety Day Report as specified by ASME Section XI IWA-6000. This will include the results of the examinations performed during the outage and may also describe ISI and preservice activities performed since the submittal of the previous Ninety Day Report.

9.3 The Ninety Day Report shall be prepared by the ISID and transmitted through appropriate channels within DLC to allow the Licensing Group to submit it to the NRC within ninety (90) days after the completion of the Mode 3 leakage examination.

9.4 ISI examinations which discover conditions which exceed the code or engineering established acceptance criteria shall be reported in accordance with ISID procedure A3.3. The Plant Manager is responsible for the resolution of the deficiencies.

9.5 Records and reports for ISI examinations within the scope of this procedure shall be maintained as described in ISID procedure A3.2, "Classification and Control of Quality Records".

10.0 DISTRIBUTION

Controlled copies of the Ten Year Plan shall be distributed in accordance with ISID procedure A3.1, "Distribution of Controlled Documents".

11.0 REFERENCES

- 11.1 10CFR50, Paragraph 55(a)
- 11.2 Technical Specification Section 4.0.5
- 11.3 ASME Boiler and Pressure Vessel Code, Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components.
- 11.4 DLC Quality Assurance Manual Procedure OP-11
- 11.5 Nuclear Group Directives 10 and 25
- 11.6 Site Administrative Procedures, Chapters 13, 27, 34 and 39
- 11.7 ANSI N45.2.6 (1978)

LICENSING BASIS INDEX

The following are the applicable documents which have altered the ASME Section XI Inservice Inspection Program for Beaver Valley Power Station Unit #1 from strict compliance to the 1974 Edition thru Summer 1975 Addenda, other than those exceptions implied within the body of the Code (i.e. IWA-2240, T-110[c] of Section V, IWB-1220, etc.):

1. NRC letter of 12/4/79 transmitting License Amendment 22.
2. NRC letter of 4/7/80 transmitting License Amendment 27.
3. NRC letter of 3/12/81 requiring leak tests of the recirculation spray heat exchangers.
4. NRC letter of 2/25/82 granting relief for 3 items.
5. NRC letter of 3/16/82 transmitting License Amendment 48.
6. NRC letter of 7/1/82 approving the use of IWB-3000, 1977 edition.
7. NRC letter of 12/15/82 granting relief for RHR nozzles.
8. NRC letter of 5/21/84 extending the interval.
9. NRC letter of 8/30/84 granting relief for 16 pipe supports.
10. NRC letter of 11/6/84 approving the use of Code Case N-401.
11. NRC letter of 1/7/86 approving the use of ASME XI 80W81 for pressure tests.
12. Updated Final Safety Analysis Report, Section D.3.2.

The following Regulatory Guides are used as guidance in the program:

- a. Regulatory Guide 1.14, Revision 1.
- b. Regulatory Guide 1.26, Revision 3.
- c. Regulatory Guide 1.83, Revision 1.
- d. Regulatory Guide 1.147, (current revision)
- e. Regulatory Guide 1.150, Revision 1.

DUQUESNE POWER AND LIGHT COMPANY
 BEAVER VALLEY UNIT #1 POWER STATION
 REFUELING OUTAGE CORE I-II
INSERVICE INSPECTION

All items listed below were examined as indicated in accordance with the requirements of the Plant Technical Specification Section 4.4-4 and to the requirements of the 1974 Edition of Section XI of the ASME Boiler and Pressure Vessel Code through the Summer 1975 Addenda to the extent practical with the access provided and the limitations of component geometry.

PROGRAM ITEM	COMPONENT & IWB. REF.	AREA & EXTENT OF EXAM	EXAMINATION PROCEDURE			REF. SKETCH
			U/T	P/T	V/T	
		<u>REACTOR VESSEL</u>				
1	B1.15	Reactor vessel internals. (Ref. this program, Appendix "A".	-	-	88	1-1200
2	B1.2	Closure head peel segments meridional welds, #1 thru #4 from 0" to 1.3". 0" adjacent weld #5.	47	-	8	1-1300
3	B1.3	Closure head to flange weld #5. Examined C.W. from centerline of stud hole #38 to centerline of stud hole #58.	47	-	8	1-1300
4	B1.6	Primary inlet nozzle to safe- end weld 16 DM. Examined from the O.D.	205 ⁽⁶⁾	11 ⁽⁶⁾	8	1-4100 1-4200 1-4300
5	B1.6	Primary outlet nozzle to safe- end weld 1 DM.	-	11 ⁽⁶⁾	8	1-4100 1-4200
6	B1.6	Primary outlet nozzle to safe- end weld 1DM.	205 ⁽⁶⁾	11 ⁽⁶⁾	8	1-4300
7	B1.8	Closure studs & nuts. #1 thru thru #19.	15	70	8	1-1400
8	B1.10	Closure head washers #1 thru #19.	-	-	8	1-1400
9	B1.11	Conoseal bolting. Examined assemblies at locations #47 and #53.	-	-	8	1-1300
10		Item Deleted				

Program No.	Component & IWB Reference	Area and Extent of Examination	Examination Procedure			Sketch Ref.	DLW
			U/T	P/T	V/T		
<u>PRESSURIZER</u>							
11	B2.1	Longitudinal Weld #1 Examine 5" from 0" Ref. (Adjacent weld #5)	47	-	8	1-2100	
12	B2.1	Longitudinal Weld #2. Examine 20" to 25" from 0" Ref. (Adjacent weld #5)	47	-	8	1-2100	
13	B2.1	Longitudinal Weld #3. Examine 5" from 0" Ref. (Adjacent weld #6)	47	-	8	1-2100	
14	B2.1	Circumferential Weld #4. Examine 5" C.W. from 0" Ref. (Adjacent Weld #1).	47	-	8	1-2100	
15	B2.1	Circumferential Weld #5. Examine 5" C.W. from 0" Ref. (Adjacent Weld #1).	47	-	8	1-2100	
16	B2.1	Circumferential Weld #6. Examine 5" C.W. from 0" Ref. (Adjacent Weld #3).	47	-	8	1-2100	
17	B2.1	Circumferential Weld #7. Examine 5" C.W. from 0" Ref. (Adjacent Weld #3).	47	-	8	1-2100	
18	B2.4	14" Pressurizer Surge Safe-End Weld #9 (DM) (See Item #31).	205	11	8	1-4500	
19	B2.4	4" Pressurizer Spray Safe-End Weld #52 (DM) (See Item #32).	205	11	8	1-4504	
20	B2.8	Support Skirt Weld #8. Examine 9.5" C.W. from 0" Ref (Below and adjacent Weld #1).	205	-	8	1-2100	
21	B2.11	Pressure Retaining Bolting (Manway) Examine Bolts from Position 1 thru 5.	-	-	8	1-2100	
<u>STEAM GENERATOR</u>							
22	B3.1	Loop #1 Channel head to Tubesheet Weld #1-1. Examine 7.5" C.W. from 0" Ref. (Top centerline of hot leg Manway).	47	-	8	1-3100	

Program Item	IWB-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
23	B3.1	Loop #2 channel head to tube-sheet weld #2-1. Examined 7.5" C.W. from 0" ref. (top centerline of cold leg manway).	47	-	8	1-3100
24	B3.1	Loop #3 channel head to tube-sheet weld #3-1. Examined 7.5" C.W. from 0" ref. (top centerline of cold leg manway).	47	-	8	1-3100
25	B3.3	Nozzle to safe-end welds #40M and #50M (see Item #28).	205	11	8	1-4100
26	B3.10	Pressure retaining bolting. (hot leg manway) Examined bolts from positions 1 thru 5. (each gen.)	-	-	8	1-3100
27	B3.10	Pressure retaining bolting (cold leg manway). Examined bolts from positions 17 thru 21. (each gen.)	-	-	8	1-3100
<u>PIPE TO SAFE-END</u>						
28	B4.1	Loop #1 R.C. pipe. Examined welds #10M, #40M, #50M and #16 DM.	205	11	8	1-4100
29	B4.1	Loop #2 R.C. pipe. Examined welds #1 DM and #16 DM. (See item #5).	-	11	8	1-4200
30	B4.1	Loop #3 R.C. pipe. Examined welds #10M and #16DM. (See Item #6).	205	11	8	1-4300
31	B4.1	14" Dia. pressurizer surge. Examined weld #90M.	205	11	8	1-4500
32	B4.1	4" Dia. pressurizer spray. Examined weld #52 DM.	205	11	8	1-4504
33	B4.5	Loop #1 R.C. pipe. Examined welds #6 & #7.	205	11 ⁽²⁾	8	1-4100
33A	B4.5	Loop #1 R.C. pipe. Examined welds #17 & #18 (12" of longitudinal seams adjoining weld #7).	-	11	8	1-4100
34	B4.5	Loop #2 R.C. pipe. Examined weld #14.	205	11 ⁽²⁾	8	1-4200

Program Item	IWB-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
<u>ASSOCIATED AUXILIARY PIPING</u>						
35	B4.5	14" Dia. Pressurizer surge. Examined weld #8.	205	-	8	1-4500
36	B4.5	Loop #1 12" Dia. cold leg SIS accum. discharge. Ex- amined welds #11, 12, 13, 14, 15 and 16.	205	-	8	1-4102
37	B4.5	Loop #2 10" Dia cold leg accum. discharge. Examined weld #2.	205	-	8	1-4201
38	B4.5	Loop #1 8" dia. by-pass. Examined welds #4 & #5.	205	-	8	1-4103
39	B4.5	Loop #1 6" dia. cold leg low head SIS. Examined welds #4, 5, 6 & 8.	205	-	8	1-4104
40	B4.5	Loop #1 6" Dia. hot leg low head SIS. Examined welds #15, #16, 17, 18 , 19 & 21.	205	-	8	1-4105
41	B4.5	6" dia. pressurizer safety. Examined welds #4 & 5.	205	-	8	1-4501
42	B4.5	6" dia. pressurizer relief. Examined weld #12.	205	-	8	1-4502
43	B4.5	Loop #1 4" dia cold leg pressurizer spray. Examined welds #3, 4, 5, & 6*.	205	-	8	1-4503
44	B4.5	Loop #3 4" Dia. cold leg pressurizer spray. Examined welds #5, 6 & 7.	205	-	8	1-4504
45	B4.5	Loop #1 3" dia RTD return. Examined welds #5, 6, 7, 8, 9 & 10.	205	-	8	1-4106
46	B4.5	3" dia. pressurizer relief. Examined welds #25, 26 & 27.	205	-	8	1-4502
47	B4.5	Loop #1 2" dia. cold leg low head SIS. Examined weld #2 BW.	205	-	8	1-4104

*See Note 2

Program Item	IWB-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
<u>BRANCH CONNECTION EXCEEDING SIX INCHES</u>						
48	B4.6	14" Dia. pressurizer surge. Examined weld #1R.	-	11 ⁽¹⁾	8	1-4500
<u>BRANCH CONNECTION SIX INCH DIA. AND SMALLER*</u>						
49	B4.7	Loop #1 6" dia. cold leg low head SIS. Examined weld #18R.	-	11	8	1-4104
50	B4.7	Loop #1 3" Dia. RTD return. Examined weld #15R.	-	11	8	1-4106
51	B4.7	Loop #1 2" Dia. letdown. Examined weld #1R.	-	11	8	1-4110
52	B4.7	Loop #1 2" Dia. drain line. Examined weld #21R.	-	11	8	1-4112
53	B4.7	Loop #1 4" Dia. cold leg pressurizer spray. Examined weld #1R.	-	11	8	1-4503
<u>SOCKET WELDS</u>						
54	B4.8	Loop #1 2" Dia. cold leg low head SIS. Examined weld #1.	-	11	8	1-4104
55	B4.8	Loop #1 2" Dia. hot leg high head SIS. Examined welds #6, 7, 8 & 9.	-	11	8	1-4107
56	B4.8	Loop #1 2" Dia cold leg RTD take-off. Examined welds #15, 16, 17, 18, 19 & 20.	-	11	8	1-4108
57	B4.8	Loop #1 2" Dia. Hot leg RTD Take-off. Examined welds #23, 24, 25, 26, 27, 28 & 29.	-	11	8	1-4109
58	B4.8	Loop #1 2" Dia letdown. Examined welds #2, 3, 4 & 9.	-	11	8	1-4110
59	B4.8	Loop #1 2" Dia fill line. Examined welds #2, 21, 22, 23, 24, 25 & 26.	-	11	8	1-4111
60	B4.8	Loop #1 2" Dia. drain line. Examined welds #18, 19, 20, 26, 27 & 28.	-	11	8	1-4112

*Includes 2" Min. Examination on Nozzle

Program Item	IWB-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
61	B4.8	Loop #1 2" Dia seal injection line. Examined welds #1, 2, 3, 4, 5, 6, 7, 8 & 9.	-	11	8	1-4113
62	B4.8	Loop #1 2" dia. pressure equalization. Examined welds #2, 3, and 4.	-	11	8	1-4603
63	B4.8	2" Dia. auxiliary spray. Examined welds #6, 13, 14, 15, 16 and 17.	-	11	8	1-4505
64	B4.8	2" Dia. drain header. Examined weld #7.	-	11	8	1-4602
65	B4.8	1 1/2" Dia. pressurizer spray line drain. Examined weld #24.	-	11	8	1-4506
66	B4.8	Loop #2 2" Dia. fill line. Examined weld #22.	-	11	8	1-4210
67	B4.8	Loop #2 2" Dia. seal injection. Examined welds #9 and 44.	-	11	8	1-4212
68	B4.8	Loop #2 2" Dia. pressure equalization. Examined weld #28.	-	11	8	1-4603
69	B4.8	Loop #3 1 1/2" dia. seal injection. Examined weld #50.	-	11	8	1-4311
<u>INTEGRALLY WELDED SUPPORTS</u>						
70	B4.9	Loop #1 14" dia. hot leg RHR take-off. Examined attachment WS-2.	205	11 ⁽²⁾	8	1-4101
71	B4.9	Loop #1 12" dia. cold leg accum. discharge. Examined attachments WS-2 and WS-3.	205	11 ⁽²⁾	8	1-4102
72	B4.9	Loop #1 8" Dia. by-pass. Examined attachment WS-1.	205	11 ⁽²⁾	8	1-4103
73	B4.9	Loop #1 6" & 2" cold leg low head SIS. Examined attachment WS-1.	205	11 ⁽²⁾	8	1-4104
74	B4.9	Loop #1 3" Dia. RTD return. Examined attachment WS-2.	205	11 ⁽²⁾	8	1-4106
75	B4.9	Loop #1 2" dia. letdown. Examined attachment WS-1.	205	11 ⁽²⁾	8	1-4110

Program Item	IWB-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
76	B4.9	Loop #1 2" Dia. fill line. Examined Attachment WS-2.	205	11 ⁽²⁾	8	1-4111
77	B4.9	Loop #1 2" Dia. drain line. Examined Attachment WS-4.	205	11 ⁽²⁾	8	1-4112
78	B4.9	Loop #1 2" & 1 1/2" Dia. seal injection. Examined attachment WS-1.	205	11 ⁽²⁾	8	1-4113
79	B4.9	Loop #1 4" Dia. cold leg pressurizer spray. Examined WS-1, WS-2, WS-3, WS-4 and WS-5.*	205	11 ⁽²⁾	8	1-4503
<u>SUPPORTS AND HANGERS (REPORT ALL CAT. B4.10 ITEMS TO SKETCH 1-4800)</u>						
80	B4.10	Loop #1 14" Dia. hotleg RHR take-off. Examined A.	-	-	8	1-4101
81	B4.10	Loop #1 12" dia. cold leg accum. discharge. Examined A, B, C, & D.	-	-	8	1-4102
82	B4.10	Loop #1 8" Dia. by-pass. Examined A.	-	-	8	1-4103
83	B4.10	Loop #1 6" & 2" Dia. cold leg low head SIS. Examined A, B, C & D.	-	-	8	1-4104
84	B4.10	Loop #1 6" Dia. hot leg low head SIS examined A thru F, H, I & K.	-	-	8	1-4105
85	B4.10	Loop #1 2" Dia. hot leg high SIS. Examined A & B.	-	-	8	1-4107
86	B4.10	Loop #1 2" Dia. fill line. Examined A, B, C & E.	-	-	8	1-4111
87	B4.10	Loop #1 2" & 1 1/2" Dia. seal injection. Examined A thru P.	-	-	8	1-4113
88	B4.10	14" Dia. pressurizer surge. Examined A thru G.	-	-	8	1-4500
89	B4.10	6" & 3" dia. pressurizer relief. Examined D & E.	-	-	8	1-4502

89A

*WS-5 = PT Only

SEE TAB 1.4 DLW 1-4800

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Rev 2

Program Item	IWB-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
<u>PRESSURE RETAINING BOLTING</u> (Report all Cat. E4.12 Items to Sketch 1-4700)						
90	B4.12	Loop #1 3" Dia. RTD Return. Examined Flange #1.	-	-	8	1-4106
91	B4.12	Loop #1 2" & 1 1/2" Dia. cold leg RTD take-off. Examined Flange #1.	-	-	8	1-4108
92	B4.12	Loop #1 2" Dia. hot leg RTD Take-off. Examined Flange #1.	-	-	8	1-4109
93	B4.12	Loop #1 2" & 1 1/2" Dia. Seal Injection. Examined Flange #1.	-	-	8	1-4113
94	B4.12	Loop #1 2" Dia. Pressure Equalization. Examined Flange #1.	-	-	8	1-4603
95	B4.12	6" Dia. Pressurizer Safety Valve 551A. Examined Flange #1.	-	-	8	1-4501
<u>REACTOR COOLANT PUMP (LOOP #1)</u>						
96	B5.1	Main flange bolting. Examined bolts 1-1 thru 1-24.	15	(3)	-	1-5100
97	B5.2	Seal housing bolting. Bolts 1-1 thru 1-24*.	(4)	(4)	-	1-5100
98	B5.3	Main flange bolting. Examined bolts 1-1 thru 1-24.	-	-	8	1-5100
99	B5.3	Seal housing bolting. Examined bolts 1-1 thru 1-12.	-	-	8	1-5100
100	B5.5	Support components. Examined supports 1-1SC, 1-2SC and 1-3SC.	-	-	8	1-5100
101	N/A	Flywheels. Examined pumps #1, #2 and #3.	41	11	8	1-5100
102	B6.5	Loop #1 8" Dia. By-pass. Examined A.	-	-	8	1-4103

*Not Examined

Program Item	IWB-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
<u>VALVE BONNET BOLTING</u>						
(Report All Cat. B6.9 Items to Sketch I-6300)						
103	B6.9	Loop #1 14" RH-700. Examined 16 bolts.	-	-	8	1-4101
104	B6.9	Loop #1 14" RH-701. Examined 16 bolts.	-	-	8	1-4101
105	B6.9	Loop #1 12" SI-48. Examined 16 bolts.	-	-	8	1-4102
106	B6.9	Loop #1 12" SI-51. Examined 16 bolts.	-	-	8	1-4102
107	B6.9	Loop #1 8" 585. Examined 4 bolts.	-	-	8	1-4103
108	B6.9	Loop #1 6" SI-12. Examined 12 bolts.	-	-	8	1-4104
109	B6.9	Loop #1 6" SI-23. Examined 12 bolts.	-	-	8	1-4104
110	B6.9	Loop #1 6" SI-15. Examined 12 bolts.	-	-	8	1-4105
111	B6.9	Loop #1 6" SI-20. Examined 12 bolts.	-	-	8	1-4105
112	B6.9	Pressurizer 6" RC-551A. Examined 3 bolts.	-	-	8	1-4501
113	B6.9	Loop #1 4" 455A. Examined 8 bolts.	-	-	8	1-4503
114	B6.9	Loop #1 3" RC-23. Examined 12 bolts.	-	-	8	1-4106
115	B6.9	Pressurizer 3" 535. Examined 12 bolts.	-	-	8	1-4502
116	B6.9	Pressurizer 3" 537. Examined 12 bolts.	-	-	8	1-4502
116A	B6.1	Loop #1 loop stop valve bolting RC-590 and 591. Examined 24 bolts each.	15	-	8	1-6100

Program Item	IWC-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
<u>STEAM GENERATOR</u>						
117	C1.1	Loop #1 Stub barrel to upper tubesheet weld #1-2. Examined 7.2" C.W. from 0" ref. (vertical centerline of feedwater nozzle)	47	-	8	2-1100
118	C1.1	Loop #1 Lower shell to stub barrel weld #1-3. Examined 7.1" C.W. from 0" Ref. (vertical centerline of feedwater nozzle).	47	-	8	2-1100
119	C1.1	Loop #2 transition cone to lower shell weld #2-5. Examined 7.1" C.W. from 0" ref. (vertical centerline of feedwater nozzle)	47	-	8	2-1100
120	C1.1	Loop #2 Upper shell to transition cone weld #2-6. Examined 9.2" C.W. from 0" Ref. (vertical centerline of feedwater nozzle).	47	-	8	2-1100
121	C1.1	Loop #3 Upper head to shell weld #3-8. Examined 9.2" C.W. from 0" Ref. (vertical centerline of feedwater nozzle).	47	-	8	2-1100
122	C1.2	Loop #1 feedwater inlet nozzle to shell weld #1-9. Examined 100%.	47	-	8	2-1100
123	C1.2	Loop #1 steam outlet nozzle to head weld #1-10. Examined 100%.	47	-	8	2-1100
124	C1.4	Loop #1 pressure retaining bolting (secondary manway). Examined 1-B1, 1-B2, 1-B21 and 1-B22.	15	-	-	2-1100
125	C1.4	Loop #1 Pressure retaining bolting (secondary manway) examined 1-B1 thru 1-B13.	-	-	8	2-1100
<u>EXCESS LETDOWN HEAT EXCHANGER</u>						
126	C1.1	Head to flange weld #1. Examined .50" C.W. from 0" ref. (vertical centerline of inlet nozzle).	205	-	8	2-1110

Program Item	IWC-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
127	C1.1	Shell to flange weld #2. Examine .50" C.W. from 0" ref. (vertical centerline of inlet nozzle).*	205	-	8	2-1110
128	C1.4	Pressure retaining bolting (tube-sheet flange). Examined B1 thru B4.	-	-	8	2-1110
129	C1.4	Pressure retaining bolting (tube-sheet flange). Examined B1 & B2.	15	-	-	2-1110
<u>RESIDUAL HEAT EXCHANGER</u>						
130	C1.1	Head to shell weld 1-1. Examined 20" from 0" ref. (vertical centerline of RH-E-1A inlet nozzle).	205	-	8	2-1120
131	C1.1	Shell to tubesheet weld #2-2. Examined 2.0" from 0" ref. (vertical centerline of RH-E-1B inlet nozzle).	205	-	8	2-1120
132	C1.3	Integrally welded supports. Examined 1-1WS.	-	11	8	2-1120
133	C1.4	Pressure retaining bolting (tubesheet flange). Examined 1-B1 thru 1B16.	-	-	8	2-1120
134	C1.4	Pressure retaining bolting (tubesheet flange). Examined 1-B1 thru 1-85.	15	-	-	2-1120
<u>SEAL WATER HEAT EXCHANGER</u>						
135	C1.1	Head to shell weld #1. Examined .75" from 0" ref. (vertical centerline of inlet nozzle).	-	11 ⁽⁵⁾	8	2-1130
136	C1.1	Shell to flange weld #2. Examined .75" from 0" ref. (vertical centerline of inlet nozzle).	-	11 ⁽⁵⁾	8	2-1130
137	C1.3	Integrally welded support. Examine 1 WS.	-	11	8	2-1130

*Not Examined - weld does not exist.

Program Item	IWC-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
<u>NON REGENERATIVE HEAT EXCHANGER</u>						
138	C1.1	Head to shell weld #1. Examined 1.25" from 0" ref. (vertical centerline of inlet nozzle).	205	-	8	2-1140
139	C1.1	Shell to flange weld #2. Examined 1.25" from 0" ref. (vertical centerline of inlet nozzle).	205	-	8	2-1140
140	C1.3	Integrally welded support. Examine 1WS.	-	11	8	2-1140
141	C1.4	Pressure retaining bolting (tube-sheet flange). Examined B1 thru B-12.	-	-	8	2-1140
142	C1.4	Pressure retaining bolting (tube-sheet flange). Examined B1 thru B4.	15	-	-	2-1140
<u>REGENERATIVE HEAT EXCHANGER</u>						
143	C1.1	Head to shell weld #1. Examined 3.0" from 0" ref. (vertical centerline of each shell pass).	205	-	8	2-1150
144	C1.1	Shell to tubesheet weld #7. Examined 3.0" from 0" ref. (vertical centerline of each shell pass).	205	-	8	2-1150
<u>VOLUME CONTROL TANK</u>						
145	C1.1	Lower head to shell weld #1. Examined 4.5" from 0" ref. (vertical centerline of manway).	205	-	8	2-1200
146	C1.1	Upper head to shell weld #2. Examined 4.5" from 0" ref. (vertical centerline of manway).	205	-	8	2-1200
147	C1.3	Integrally welded support. Examined 1WS, 2WS, 3WS, 4WS	-	11	8	2-1200

Program Item	IWC-2600 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			U/T	P/T	V/T	
148	C1.4	Pressure retaining bolting (manway). Examined B1 thru B5.	-	-	8	2-1200
149	C1.4	Pressure retaining bolting (manway). Examined B1 & B2.	15	-	-	2-1200
<u>SEAL WATER INJECTION FILTER</u>						
150	C1.1	Head to shell weld #1-1. Examined .56" from 0" ref. (vertical centerline of CH-FL-4A inlet nozzle).	205	-	8	2-1300
151	C1.1	Shell to flange weld #2-2. Examined .56" from 0" ref. (vertical centerline of CH-FL-4B inlet nozzle).	205	-	8	-21300
152	C1.3	Integrally welded supports. Examined 1WS.	-	11	8	2-1300
153	C1.4	Pressure retaining bolting. Examined 1-B1 thru 1-B5.	-	-	8	2-1300
154	C1.4	Pressure retaining bolting. Examined 1-B1 and 1-B2.	15	-	-	2-1300
<u>REACTOR COOLANT FILTER</u>						
155	C1.1	Head to shell weld #1. Examined .56" from 0" ref. (vertical centerline of outlet nozzle).	-	11 ⁽²⁾	8 ⁽⁵⁾	2-1310
156	Q1.1	Cover weldment to shell weld #2. Examined .56" from 0" ref. (vertical centerline of outlet nozzle).	-	11 ⁽⁵⁾	8 ⁽⁵⁾	2-1310
157	C1.3	Integrally welded supports. Examined 1WS.	-	11	8	2-1310
<u>SEAL WATER RETURN FILTER</u>						
158	C1.1	Head to shell weld #1. Examined .35" from 0" ref. (vertical centerline of outlet nozzle).	-	11 ⁽⁵⁾	8 ⁽⁵⁾	2-1320

PROGRAM ITEM	IWC-2600 REF.	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURES			SKETCH REF.
			U/T	P/T	V/T	
159	C1.1	Cover weld ment to shell weld #2. Examined .85" from 0" ref. (vertical centerline of outlet nozzle).	-	11 ⁽⁵⁾	8 ⁽⁵⁾	2-1320
160	C1.3	Integrally welded supports. Examined 1WS.	-	11	8	2-1320
<u>PIPING</u>						
161	C2.1	Loop #1 32" main steam. Examined weld #9.	205	-	8	2-2110
162	C2.1	Loop #1 16" feedwater. Examined weld #4.	205	-	8	2-2210
163	C2.1	14" RHR. Examined welds #1 & 26.	205	-	8	2-2310
164	C2.1	12" RHR. Examined welds #49, 51, 57, 58 & 59.	205	-	8	2-2310
165	C2.1	10" RHR. Examined welds #21 and 46.	205	-	8	2-2310
166	C2.1	10" RHR. Examined weld #10.	205	-	8	2-2312
167	C2.1	8" RHR. Examined weld #17.	-	11 ⁽¹⁾	8	2-2310
168	C2.1	8" CVCS. Examined welds #55 and and 74.	-	11 ⁽¹⁾	8	2-2410
169	C2.1	6" CVCS. Examined welds #2, 78 and 82.	-	11 ⁽¹⁾	8	2-2410
170	C2.1	6" CVCS. Examined weld #26.	205	-	8	2-2411
171	C2.1	6" RHR. Examined weld #6.	205	-	8	2-2111
172	C2.1	6" Main steam. Examined weld #18.	205	-	8	2-2111
<u>LONGITUDINAL WELDS</u>						
173	C2.2	Loop #1 32" main steam. Examine weld #8LS.	205	-	8	2-2110
<u>PRESSURE RETAINING BOLTING</u>						
174	C2.4	Examined Items #1, 2 & 3.	15	-	8	2-2610

PROGRAM ITEM	IWC-2600 REF.	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURES			SKETCH REF.
			U/T	P/T	V/T	
<u>INTEGRALLY WELDED SUPPORTS</u>						
175	C2.5	Loop #1 16" feedwater. Examined WS-1.	-	70	8	2-2210
176	C2.5	Loop #3 32" main steam. Examined WS-1 and WS-2.	-	70	8	2-2130
177	C2.5	14" RHR. Examined WS-1, WS-2, WS-3, WS-7 & WS-8.	-	11	8	2-2310
178	C2.5	10" RHR. Examined WS-14.	-	11	8	2-2310
179	C2.5	8" CVCS. Examined WS-4.	-	11	8	2-2410
180	C2.5	6" CVCS. Examined WS-1.	-	11	8	2-2410
181	C2.5	6" CVCS. Examined WS-2 & WS-3.	-	11	8	2-2411
182	C2.5	6" CVCS. Examined WS-1.	-	11	8	2-2413
<u>SUPPORT COMPONENTS</u>						
183	C2.6	Loop #1 32" main steam. Examined A, WS-1 & WS-2.	-	-	8	2-2110
184	C2.6	Loop #1 16" feedwater. Examined A, WS-1 and WS-2.	-	-	8	2-2210
185	C2.6	14" RHR. Examined WS-1, WS-2, WS-3, WS-7, WS-8 & C.	-	-	8	2-2310
186	C2.6	10" RHR. Examined C & D.	-	-	8	2-2312
187	C2.6	12" RHR. Examined WS-10, WS-12 and D.	-	-	8	2-2310
188	C2.6	6" CVCS. Examined WS-1.	-	-	8	2-2410
189	C2.6	6" CVCS. Examined A thru I & K.	-	-	8	2-2411
190	C2.6	8" CVCS. Examine F.* G	-	-	8	2-2410
<u>VALVES</u>						
191	C4.2	Pressure retaining bolting. Examined the following:	15	-	8	2-2410
		NRV-MS101A SV-MS101B				
		B 102B				
		C 103B				
		TV-MS101A 104B				
		B 105B				
		C SV-MS101C				

<u>PROGRAM ITEM</u>	<u>IWC-2600 REF.</u>	<u>AREA AND EXTENT OF EXAMINATION</u>		<u>EXAMINATION PROCEDURES</u>			<u>SKETCH REF.</u>
				U/T	P/T	V/T	
191 (continued)		PCV-MS101A B C SV-MS101A 102A 103A 104A 105A	SV-MS-102C 103C 104C 105C 156A 156B 156C				
192	B4.10	Examine 98 & 99	Items 94,	--	--	8	1 - 4800

Program Item #193

Pressure piping attachment weldments resulting from Design Change Packages (DCP's) 253, 257 and 305 (baseplate and hanger modifications) were visually inspected for leakage and surface examined (M.T. or P.T.), to fulfill the preservice requirements of Section XI of the ASME Code. The attached table is a compilation of the effected hangers, their drawing location and the type of examination performed. The results of the examinations are compiled under Tab E of this report.

The visual examination was performed in accordance with Procedure Number IP-W-02. The magnetic particle and liquid penetrant examinations were performed in accordance with procedures MT-969-1 and PT-969-1, Rev. 2 respectively.

Additions and modifications that resulted from DCP's 253, 257 and 305 do not affect the BVPS Unit #1 ten-year program.

This data serves as baseline data for the newly added pressure piping attachment weldments made on the already existing support components listed in the table below.

<u>Hanger No.</u>	<u>Line No.</u>	<u>ISO No.</u>	<u>Hanger No. on ISO</u>	<u>NDE Method</u>
CC-A-264	6"CC-262-151	DLW-3-4332	H-264	MT/VT
CC-SH-64A	18"CC-104-151	DLW-3-4323	H-64A	MT/VT
CC-SH-65A	18"CC-3-151	DLW-3-4323	H-65A	MT/VT
H-42A	3"RC-106-1502	DLW-1-4502	D	PT/VT
		DLW-1-4800, item #228		
RC-R-2	4"RC-72-1502	DLW-1-4504	WS-6	PT/VT
		DLW-1-4800, item #260		
WR-SH-23	24"WR-19-151	DLW-3-4206	H-23	PT/VT
SI-R-8	12"SI-121	DLW-1-4102	WS-4A	PT/VT
		DLW-1-4800, item #10		
CC-SH-59A	18"CC-105-151	DLW-3-4315	H-59A	MT/VT
H-86	6"WR-55-151	DLW-304209	H-86	PT/VT
H-73	6"WR-55-151	DLW-3-4209	H-73	PT/VT
CH-PS-3	2"CH-23-1502	DLW-1-4505	WS-2	PT/VT
		DLW-1-4800, item #273		
H-305	6"SI-73-1502	DLW-2-2507	Not shown on ISO	PT/VT
SI-A-312	6"SI-72-1502	DLW-2-2506 7	Not shown on ISO	PT/VT

Program Item No. 194

Design Change Packages (DCP's) 162 and 189 resulted in the installation of new safety injection and recirculation spray lines which follow under the Class 2 requirements of Section XI of the ASME Code. The newly installed line welds were examined by ultrasonic methods to fulfill the baseline preservice requirements of Section XI.

Westinghouse inspection procedure ISI-205, Rev. 2 was used to perform the ultrasonic examinations. In addition two welds whose thickness was less than the 0.250 inches required by ISI-205 were examined by radiographic procedure RT-2.

Program No.	IWC-2600 Ref.	Area and Extent of Examination	Procedures			Sketch Ref.*
			U/T	Surf	V/T	
<u>PIPING</u>						
1.	C2.1	10" SIS.Examined welds 1, A, 19, K, 2, 3, L, 4, 5, 6, M, 29, 30, N, and 8.	205	-	-	CI-18908
2.	C2.1	6" SIS.Examined welds 9, P, Q, R, 10, T, 11, U, and 12.	205	-	-	CI-18908
3.	C2.1	6" Recirc. Spray System. Examined welds 8, 33, 43, 31, 36, 4, 2, 28, 27, 39, 35, 38, 41, 42, 34, 14, 19, 40 and 37.	205	-	-	CI-16201
4.	C2.1	6" Recirc. Spray System. Examined welds 18, 12, 6, 7, 9, 1, 3, 30, 29, 23, 25, 13, 20, 16 and 21.	205	-	-	CI-16202
5.	C2.1	10" SIS.Examined welds 1, A, 18, K, L, 4, 5, 6, 30, 31, N, 8, 9, P, 36, 37, 38, S, T, U, V, and 34.	205	-	-	CI-18910
<u>SUPPORT COMPONENTS</u>						
6.	C2.6	Examined PSSP009, PSSP010, PSR011, PSSH014, and PSR013 and PSSH012.	-	-	(8)	CI-16201
7.	C2.6	Examined PSSH001, PSSP002, PSSP003, PSSH004, PSR005, PSR-006, PSR007 and PSR008.	-	-	(8)	CI-16202
8.	C2.6	Examined PSR36B, PSR60A, PSR60B, PSSH60F, and PSR60E	-	-	IP-W -01	CI-18908
9.	C2.6	Examined PSR33B, PSSH67, PSR67F, PSR67E, PSSH67A, and PSR67B	-	-	IP-W -01	CI-18910

Results located under Tab E.

Program Item No. 194 (Continued)

Program No.	IWC-2600 Ref.	Area and Extent of Examination	Procedures		Sketch Ref.*
			U/T Surf	V/T	
<u>INTEGRALLY WELDED SUPPORTS</u>					
10.	C2.6	Examined PSSP36A, PSSH060, PSSH60C, and PSSP60D	-	-	* CI-18908
11.	C2.6	Examined PSSP33A, PSSH67D, and PSSP67C	-	-	* CI-18910
12.	C2.5	Examined PSSP36A, PSSH060, and PSSP60D	-	PT-969-1	- CI-18908
13.	C2.5	Examined PSSP33A, PSSH67D, and PSSP67C	-	PT-969-1	- CI-18910

* Procedure IP-W-01 and IP-W-02

Results located under Tab E.

CLASS - 3

PROGRAM ITEM NO. 195

A system leakage test was performed on Class 1, 2, and 3 components as required by Section XI of the ASME Boiler and Pressure Vessel Code through the summer 1975 Addenda, and the Plant Technical Specifications, to the extent practical and with the access provided and the limitations of component geometry. The following is a list of examinations as outlined by Class, System and, appropriate S & W flow diagram.

Class 1

11700-RM-155A-6	Reactor Coolant System
11700-RM-155B-6	Reactor Coolant System
11700-RM-159A-6	Chemical and Volume Control System
11700-RM-169A-6	Vent and Drain System
11700-RM-167P-4	Safety Injection System

Class 2

11700-RM-120A-5	Main Steam System
11700-RM-124A-6	Feedwater System
11700-RM-137A-5	Misc. Drains - Secondary Plant
11700-RM-179A-6	Sample System
11700-RM-179B-6	Sample System
11700-RM-169A-6	Vent and Drain System
11700-RM-165A-6	Containment Depressurization System
11700-RM-155A-6	Reactor Coolant System
11700-RM-155B-6	Reactor Coolant System
11700-RM-156A-6	Residual Heat Removal System
11700-RM-159A-6	Chemical and Volume Control System
11700-RM-159B-7	Chemical and Volume Control System
11700-RM-167A-4	Safety Injection System
11700-RM-167P-4	Safety Injection System

Class 3

11700-RM-120A-5	Auxiliary Steam System
11700-RM-124A-6	Auxiliary Feedwater System
11700-RM-124A-7	River Water System
11700-RM-127B-6	River Water System
11700-RM-157A-6	Component Cooling Water System
11700-RM-157B-5	Component Cooling Water System
11700-RM-157C-5	Component Cooling Water System
11700-RM-157D-6	Component Cooling Water System
11700-RM-162A-4	Spent Fuel Pit Cooling System
11700-RM-165A-6	RWST Cooling System
11700-RM-159A-6	CVCS Boric Acid Supply
11700-RM-159B-7	Boric Acid Transfer System
11700-RM-167A-4	SIS Boron Injection Surge Tank

Visual examination for evidence of leakage was conducted in accordance with Procedure ISI-LT-101 dated March 25, 1980.

CLASS - 3
PROGRAM ITEM NO. 196

Visual examination of 100 percent of the Class 3 component supports and piping supports and hangers on piping greater than 4 inch diameter in accordance with Procedure ISI-8. The following is a list of examinations as outlined by system and appropriate Westinghouse sketch number, and S&W flow diagram.

Westinghouse

DLW-3-4100 thru 3-4103	Auxiliary Feedwater
DLW-3-4201 thru 3-4215	River Water System
DLW-3-4300 thru 3-4333	Component Cooling Water
DLW-3-4334 thru 3-4337	Spent Fuel Pool Cooling System

Reference Drawings
Stone & Webster

11700-RM-120A-5	Auxiliary Steam System
11700-RM-124A-6	Auxiliary Feedwater System
11700-RM-124A-7	River Water System
11700-RM-127B-6	River Water System
11700-RM-157A-6	Component Cooling Water System
11700-RM-157B-5	Component Cooling Water System
11700-RM-157C-5	Component Cooling Water System
11700-RM-157D-6	Component Cooling Water System
11700-RM-162A-4	Spent Fuel Pit Cooling System
11700-RM-165A-6	RWST Cooling System
11700-RM-159A-6	CVCS Boric Acid Supply
11700-RM-159B-7	Boric Acid Transfer System
11700-RM-167A-4	SIS Boron Injection Surge Tank

NOTES

- (1) Surface examination performed as a substitute to volumetric.
- (2) Surface examination performed as a substitute to volumetric.
- (3) Surface examination performed if bolting dis-assembled.
- (4) Volumetric and surface examination performed if bolting dis-assembled.
- (5) Visual and surface performed as a substitute for volumetric.
- (6) Manual U/T and P/T performed as a supplement to the remote examination per Plant Technical Specification (Table 4.4-1).
- (7) Due to high personnel exposure, examinations will be scheduled to coincide with normal filter changes.
- (8) Visual inspections completed in accordance with Items 1, 3 and 6 on Rigid Support Inspection Attribute Sheets for Program Item Number #194 (6) and #194 (7).

DUQUESNE POWER AND LIGHT COMPANY
 BEAVER VALLEY UNIT 1 POWER STATION
 REFUELING OUTAGE CORE I-II
 INSERVICE INSPECTION
 AUGMENTED ISI / AMENDMENT 22

Program NO.	IWC-2600 REF.	Area and Extent of Examination	Procedures		Sketch REF.
			U/T Surf	V/T	
PIPING					
1	2.1	Hot Leg Low Head S.I.S. Weld 7.	205	-	2-2501
2	2.1	Hot Leg S.I.S. Weld 1	205	-	2-2504
3	2.1	Cold Leg Low Head S. I. S. Weld 3	205	-	2-2505
4	2.1	Accumulator Discharge Weld 6.	205	-	2-2509
5	2.1	Accumulator Discharge Weld 7.	205	-	2-2510
ACCUMULATOR TANKS					
6	1.1	Top Head to Shell Weld 1-1. From 0" thru 7.5".	205	-	2-1210
7	1.2	Nozzle to Vessel Weld 2-3.	205	-	2-1210
8	1.3	Integrally WELDED Support 3-4. From 0" thru 13".	-	11	2-1210
BORON INJECTION TANK					
9	1.1	Head to Shell Welds 1 and 2. From 0" thru 3"	205	-	2-1220
10	1.2	Nozzle to Vessel Weld 3	205	-	2-1220
11	1.3	Integrally Welded Support S4	-	11	2-1220
12	1.4	Bolting B1 thru B16.	15	-	2-1220
13	1.2	Nozzle to Safe-End Welds 3 & 4	205	-	2-2511
PIPING					
14	2.1	Recirculation Spray Welds 5, 25 and 26.	-	11 ⁽¹⁾	8 2-2512
15	2.1	Recirculation Spray Welds 7, 19 and 20.	-	11 ⁽¹⁾	8 2-2513

AUGMENTED ISI/AMENDMENT 22

<u>Program No.</u>	<u>IWC-2600 Reference</u>	<u>Area and Extent of Examination</u>	<u>Procedures U/T Surf V/T</u>	<u>Sketch Reference</u>
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PIPING

16	2.1	Recirculation Spray Welds 3 and 21.	-- 11 ⁽¹⁾ 8	2-2514
17	2.1	Recirculation Spray Welds 4 and 19.	-- 11 ⁽¹⁾ 8	2-2515

NOTE

(1) UT Not Feasible - Substitute PT and VT.

EXPANDED PROGRAM

<u>Program No.</u>	<u>IWC-2600 Reference</u>	<u>Area and Extent of Examination</u>	<u>Procedures U/T Surf V/T</u>	<u>Sketch Reference</u>
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PIPING

1	B4.1	Loop #2 R.C. Pipe Examined Weld #4DM	11 8	1-4200
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DUQUESNE POWER AND LIGHT COMPANY
 BEAVER VALLEY UNIT #1 POWER STATION
 REFUELING OUTAGE CORE I-II
 INSERVICE INSPECTION

HIGH ENERGY PROGRAM

The main steam and feedwater postulated break points in the main steam valve house were examined as required by Appendix D, Section D.3.2 of the BVPS Unit #1 Final Safety Analysis Report (FSAR). A baseline examination was performed on 100 percent of the subject weld during the first refueling outage at BVPS Unit #1 as required by the FSAR. The following is a list of all the welds and the examination performed as part of this program.

PROGRAM ITEM	COMPONENT & IWC REF.	AREA & EXTENT OF EXAM	EXAMINATION PROCEDURE			REF. SKETCH
			VOL	SURF	VIS	
1.	C2.5	Loop A 32" Mainsteam examined welds A-1, A-2, A-3, A-4, A-5, A-6*, A-7*, A-8*, A-9, A-10*, A-11*	-	70	-	DLC#1
2.	C2.5	Loop B 32" Mainsteam examined welds B-1, B-2, B-3, B-4, B-5, B-6*, B-7*, B-8*, B-9, B-10*, B-11*	-	70	-	DLC-#2
3.	C2.5	Loop C 32" Mainsteam Examined welds C-1, C-2, C-3, C-4, C-5, C-6*, C-7*, C-8*, C-9, C-10*, C-11*	-	70	-	DLC-#3
4.	C2.1	Loop A 32" Mainsteam Examined Welds #1 and Weld A	205	70 ⁽¹⁾		DLC-#4
5.	C2.1	Loop B 32" Mainsteam Examined Welds #1 & Weld B	205	70 ⁽¹⁾		DLC-#4
6.	C2.1	Loop C 32" Mainsteam Examined Welds #1 & Weld C	205	70 ⁽¹⁾		DLC-#4
7.	C2.1	Loop A 16" Feedwater Examined Weld #2	205	NDE 1.0 ⁽¹⁾		DLW-2-221C

Results located under Tab E.

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HIGH ENERGY PROGRAM

<u>PROGRAM ITEM</u>	<u>COMPONENT & IWC REF</u>	<u>AREA & EXTENT OF EXAM</u>	<u>EXAMINATION PROCEDURE</u>		<u>REF. SKETCH</u>
			<u>VOL</u>	<u>SURF VIS</u>	
8.		Loop B 16" Feedwater Exam- ined Weld #2	205	NDE 1.0(1)	DLW 2-2220
9.		Loop C 16" Feedwater Exam- ined Weld #2	205	NDE 1.0(1)	DLW 2-2230

*Welds which are not made onto pressure retaining piping and which will not be incorporated into the 10 year inspection program.

Note:

(1) Surface Exam completed after weld surface prepared for U.T. Exam.

Results located under Tab E.

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Procedure: ISI

DUQUESNE LIGHT COMPANY
 BEAVER VALLEY UNIT #1
 REACTOR VESSEL INTERNALS INSPECTION
 PROGRAM

Examiner(s): G. E. Conrad

J. W. Bell

Date(s): 2/14/80

SUB ASSEMBLY:

COMPONENT	LOCATION	TAPE REF. LOCATION	REMARKS	RI	NRI	INITIAL AS EXAM IS COMPLETED
1. Instrumentation Penetration Column	Core Locns.				X	<i>see</i>
	E-13				X	<i>see</i>
	L-3				X	<i>see</i>
	N-11		No Access		X	<i>see</i>
2. Thermocouple Conduit	General Runs				X	<i>see</i>
	Core Locns.				X	<i>see</i>
3. Thermocouples and Flow Mixer Devices	A-8				X	<i>see</i>
	G-1				X	<i>see</i>
	E-14				X	<i>see</i>
	H-15				X	<i>see</i>
	R-7				X	<i>see</i>
4. Upper Core Plate Alignment Keyways	G-15		No Access		X	<i>see</i>
	Vessel Locns.				X	<i>see</i>
	0°				X	<i>see</i>
5. Guide Tubes	90°				X	<i>see</i>
	180°				X	<i>see</i>
	Core Locns.				X	<i>see</i>
	B-6				X	<i>see</i>
	B-10				X	<i>see</i>
	F-2				X	<i>see</i>
	F-14				X	<i>see</i>
K-2			No Access		X	<i>see</i>
K-14			No Access		X	<i>see</i>
P-6			No Access		X	<i>see</i>
P-10			No Access		X	<i>see</i>

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DUQUESNE LIGHT COMPANY
 BEAVER VALLEY UNIT #1
 REACTOR VESSEL INTERNALS INSPECTION
 PROGRAM

Procedure: ISI-L
 Examiner(s): G. E. Conrad
J. W. Bell

Date(s): 2/14/80

SUB ASSEMBLY:

COMPONENT	LOCATION	TAPE REF. LOCATION	REMARKS	RI	NRI	INITIAL AS EXAM IS COMPLETED
6. Support Columns with Cutouts (with mixer)	Core Locns. C-12 D-3 M-3 N-4		No Access		X X X	<i>all all all</i>
7. Support Columns with Cutouts (without mixer)	Core Locns. C-4 D-13 M-13 N-12		No Access No Access		X X	<i>all all</i>
8. Upper Core Plate Fuel Assembly Guide Pins	Vessel Locns. All Peripheral Pins from 0° to 270°				X	<i>all</i>
<u>SUB ASSEMBLY: LOWER INTERNALS</u>						
9. Head and Vessel Alignment Pin Mating Surfaces and Attachments.	Vessel Locns. 0° 90° 180° 270°				X X X X	<i>all all all all</i>
10. Core Barrel Flange Flow Nozzle Welds	Vessel Locns. From 90° to 180°				X	<i>all</i>
11. Flange to Core Barrel Weld	Vessel Locns. From 180° to 0°		Not examined: weld location can not be determined.			—

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DUQUESNE LIGHT COMPANY
 BEAVER VALLEY UNIT #1
 REACTOR VESSEL INTERNALS INSPECTION
 PROGRAM

Procedure: IS. d8
 Examiner(s): G. E. Conrad
J. W. Bell
 Date(s): 2/14/80

SUB ASSEMBLY:

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COMPONENT	LOCATION	TAPE REF. LOCATION	REMARKS	RI	NRI	INITIAL AS EXAM IS COMPLETED
12. Core Barrel Mid Plane Weld	Vessel Locns. From 0° to 180°				X	see
13. Baffle Assembly Fasteners at Top Two Formers	Core Locns.				X	see
	H-15				X	see
	J-15				X	see
	K-14				X	see
	M-13				X	see
	N-12				X	see
	P-11				X	see
	R-10				X	see
14. Upper Core Plate Guide Key in Core Barrel	R-9				X	see
	R-8				X	see
	Vessel Locns.				X	see
	0°				X	see
15. Lower Core Plate Support Column Bolting (with Instrument Guide) and Assembly Guide Pins around Locations	90°				X	see
	180°				X	see
	270°				X	see
	Core Locns.				X	see
16. Lower Core Plate Support Column Bolting (No Instrument Guide) and Assembly Guide Pins around Locations	B-8				X	see
	B-10				X	see
	J-7				X	see
16. Lower Core Plate Support Column Bolting (No Instrument Guide) and Assembly Guide Pins around Locations	N-7				X	see
	Core Locns.				X	see
16. Lower Core Plate Support Column Bolting (No Instrument Guide) and Assembly Guide Pins around Locations	C-9				X	see
	P-6				X	see

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DUQUENSE LIGHT COMPANY
 BEAVER VALLEY UNIT #1
 REACTOR VESSEL INTERNALS INSPECTION
 PROGRAM

Procedure: IS
 Examiner(s): G. E. Conrad
J. W. Bell
 Date(s): 2/14/80

SUB ASSEMBLY:

COMPONENT	LOCATION	TAPE REF. LOCATION	REMARKS	RI	NRI	INITIAL AS EXAM IS COMPLETED
17. Lower Core Plate Instrument Guide Tube Nut and Assembly Guide Pins around Locations	Core Locns. B-8				X	<i>see</i>
18. Lower Core Plate Access Cover Bolting	Core Locns. H-7				X	<i>see</i>
19. Thermal Shield Flexure Attachments to Core Barrel	Vessel Locns. 90° 270°		Not Located		X	<u><i>see</i></u>
20. Reactor Vessel Clad Patches	Vessel Locns. 65° 165°				X X	J.W.B J.W.B
21. Outside baffle corner joints	Core Locns. B-6 P-6 B-10 P-10 C-12 N-12 C-4 N-4 D-3 M-3 D-13 M-13 E-2 L-2 E-14 L-14 G-1 J-1 G-15 J-15		No INDICATIONS		X	<i>see</i>

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INSERVICE EXAMINATION PROGRAM
FOR
DUQUESNE LIGHT COMPANY
BEAVER VALLEY UNIT #1

Refueling Outage Core II-JII

All items listed below were examined, as indicated, in accordance with the requirements of the Plant Technical Specifications Section 4.0.5 (including Amd. 22 and Amd. 48) and to the requirements of Section XI of the ASME Boiler and Pressure Vessel Code, to the extent practical with the access provided and the limitations of component geometry. Examinations were performed to the 1974 Edition of Section XI thru 1975 Summer Addenda.

PROGRAM ITEM	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			<u>VOL</u>	<u>SUR</u>	<u>VIS</u>	<u>DLW</u>
		(See Program Note 1)				
		<u>REACTOR VESSEL</u>				
1	B1.6	(3) outlet nozzles to safe-end welds #1DM 3 places. (Note 6)	205	11		1-4100 1-4200 1-4300
2	B1.6	(3) inlet nozzles to safe-end welds #16DM 3 places. (Note 6)	205	11		1-4100 1-4200 1-4300
3	B1.8	Closure studs and nuts #20 thru thru #38.	15	70		1-1400
4	B1.10	Closure head washers #20 thru #38.			8	1-1400
		<u>PRESSURIZER</u> (See Appendix 1)				
5	B2.1	Long. shell welds #1, 2 and 3.	47			1-2100
6	B2.1	Circ. shell welds #4, 5, 6 and 7.	47			1-2100
7	B2.2	Inside radii #2, 3 and 4.			8 ⁽²⁾	1-2100
8	B2.4	6" safe nozzles to safe-end welds #1DM, 10DM and 19DM (See Item 16)		11		1-4501
9	B2.8	Support skirt weld #8.	205 ⁽³⁾			1-2100

Numbers under Examination Procedure in () refer to specific items under Program Notes on the last page.

PROGRAM ITEM	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
10	B2.11	Manway bolts #6 thru #10.			8	1-2100
<u>STEAM GENERATORS</u>						
11	B3.1	Channel head to tube sheet welds #1-1, #2-1, #3-1. Examine 7.5" to 15" CW around circumference. 0 reference top centerline of hotleg manway.	47			1-3100
12	B3.3	Nozzle to safe-end welds 4DM and 5DM. (See Item 14)	205 ⁽⁴⁾	11		1-4200
<u>PIPE TO SAFE-END WELDS</u>						
13	B4.1	Loop 1 R.C. pipe 1(DM) & 16(DM).	205	11		1-4100
14	B4.1	Loop 2 R.C. pipe DM's #1, 4, 5 & 16. (See Item 12)	205	11		1-4200
15	B4.1	Loop 3 R.C. pipe DM's #1 & #16	205	11		1-4300
16	B4.1	6" Press. safety 1, 10 & 19 (DM's) (See Item 8)		11		1-4501
<u>REACTOR COOLANT PIPE</u>						
17	B4.5	Loop 2 R.C. pipe welds #8 & #9.	205	11 ⁽⁵⁾		1-4200
18	B4.5	Loop 3 R.C. pipe weld #3.	205	11 ⁽⁵⁾		1-4300
<u>ASSOCIATED AUXILIARY PIPING WELDS</u>						
19	B4.5	Loop 1 hot leg 14" RHR weld #7.	205			1-4101
20	B4.5	14" Press. Surge Weld #2	205			1-4500
21		Deleted				
22	B4.5	Loop 3 cold leg acc. discharge and 10" RHR return weld #3.	205			1-4301
23	B4.5	Loop 2 8" Bypass Welds #5 and #6.	205			1-4202
24	B4.5	Loop 2 cold leg 6" SIS welds #3, 4, and 5.	205			1-4203

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PROGRAM ITEM	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
25	B4.5	Loop 2 hot leg 6" SIS welds #1, 2, 3, 4 and 5	205			1-4204
26	B4.5	6" press. relief welds #9 and 10. (PT for #10 only)	205	11		1-4502
27	B4.5	4" Loop 1 cold leg press. spray welds #40, 41, 42 and 43.	205			1-4503
28	B4.5	4" Loop 3 cold leg press. spray welds #2, 3, 4, 8 and 36*.	205	11 ⁽⁵⁾		1-4504
29	B4.5	Loop 2 3" charging line welds #1, 2, 3, 4.	205			1-4205
30	B4.5	Loop 2 3" RTD Return welds #11 12*, 13 and 14.	205	11 ⁽⁵⁾		1-4206
31	B4.5	6" and 3" press. relief welds #20, 21 and 22*.	205	11 ⁽⁵⁾		1-4502
32	B4.5	Loop 2 cold leg 1-1/2" and 2" RTD take-off weld 25 (BW)	205			1-4208
33	B4.5	1 1/2 Press. spray line weld #14(BW).	205			1-4506
*See Program Note 5						
<u>BRANCH PIPE CONNECTIONS > 6"</u>						
34	B4.6	Loop 2 cold leg 12" acc. discharge weld #34(BC).	205	11 ⁽⁷⁾		1-4201
<u>BRANCH PIPE CONNECTIONS 6" AND LESS</u>						
35	B4.7	Loop #2 hot leg 6" low head SIS weld #22(BC).		11		1-4204
36	B4.7	Loop #2 3" charging weld #26(BC)		11		1-4205
37	B4.7	Loop #2 cold leg 1-1/2" x 2" RTD take-off weld 1(BC).		11		1-4208
38	B4.7	Loop #2 2" fill line weld #27(BC).		11		1-4210

PROGRAM ITEM	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
39	B4.7	Loop #3 cold leg 4" pressurizer spray weld #1(BC).		11		1-4504
<u>SOCKET WELDS</u>						
40	B4.8	Loop #2 cold leg 2" low head SIS weld #1		11		1-4203
41	B4.8	Loop #2 hot leg high head SIS welds #7, 8, 9, 10 and 11.		11		1-4207
42	B4.8	Loop #2 cold leg 1-1/2 x 2" RTD take-off welds #2, 3, 4, 5 and 6.		11		1-4208
43	B4.8	Loop #2 hot leg 2" RTD take-off welds #2, 3, 5, 6, 7 and 8.		11		1-4209
44	B4.8	Loop #2 2" fill line welds #14, 15, 16, 17, 18 and 19.		11		1-4210
45	B4.8	Loop #2 2" drain line welds #3, 4, 5 and 6.		11		1-4211
46	B4.8	Loop #2 2" x 1-1/2" seal injection welds #37, 38, 39, 40, 41, 42, 43, 45, 46, 47 and 48.		11		1-4212
47	B4.8	2" fill header welds #10, 11, 12, 13, 14, 15, 16 and 17.		11		1-4601
48	B4.8	2" drain header welds #32, 33, 34, 35, 36, 37, 38, 39, 40 and 41.		11		1-4602
49	B4.8	Loop #2 2" pressure equalization welds #32, 33, 34 and 35.		11		1-4603
<u>*INTEGRALLY WELDED SUPPORTS</u>						
50	B4.9 B4.10	Loop #2 cold leg 12" accum. discharge and 10" RHR return (H1), (H2), (H3).		11	8	1-4201
51	B4.9 B4.10	Loop #3 cold leg 6" x 2" low head SIS (H1), (H2).	205	11	8	1-4303

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PROGRAM ITEM	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
52	B4.9 B4.10	Loop #2 3" charging (H1).	205	11	8	1-4205
53	B4.9 B4.10	Loop #2 2" drain line (H1).	205	11	8	1-4211
54	B4.9 B4.10	Loop #3 cold leg 4" pressurizer spray (H1), (H2), (H3), (H4), (H13).	205	11	8	1-4504
55	B4.9 B4.10	6" pressurizer safety: (H2).		11	8	1-4501
56	B4.9 B4.10	6" and 3" pressurizer relief: (H7).	205	11	8	1-4502

*See Program Note 8.

PIPING SYSTEM SUPPORTS (Reported to DLW-1-4800)

57	B4.10	Loop #2 hot leg 6" low head SIS: H2, (H5).			8	1-4204
58	B4.10	Loop #2 2" hot leg high head SIS: H2 & H3.			8	1-4207
59	B4.10	Loop #2 2" fill line: H3 & H4 (See Item 70).			8	1-4210
60	B4.10	Loop #2 2" and 1-1/2" seal injection: H1 (H3), H6, H7			8	1-4212
61	B4.10	2" fill header: H3, (H7), H8, H9, H10, H11, (H12), H13, H14, H15, (H16), H17, H18, H19, H20, H21, (H22), (H23)			8	1-4601
62	B4.10	3" high head hot leg SIS: H1			8	1-4600

PRESSURE RETAINING BOLTING

63	B4.12	Loop #2 2" x 1-1/2 seal injection, item 9.			8	1-4700
64	B4.12	6" pressurizer safety valve 551B valve mounting flange, item 17.			8	1-4700

PROGRAM ITEM	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	
<u>REACTOR COOLANT PUMPS</u>						
65	B5.1	Flange bolting 3-B1 thru 3-B24 (in place).	15			1-5100
66	B5.2 and B5.3	*Seal housing bolting 2-B1 thru 2-B12 and 3-B1 thru 3-B12 (disassembled). *See Program Note 9.	15	70	8	1-5100
<u>FLYWHEELS</u>						
67	Reg. Guide 1.14	R. C. Pump Flywheel (Loop A).	41		8	1-5100
<u>LOOP STOP VALVE BOLTING</u>						
68	B6.1	Loop #2: Valve 592, examine bolts 2-1 thru 2-24.	15			1-6100
69	B6.1	Loop #2: Valve 593, examine bolts 2-25 thru 2-48.	15			1-6100
<u>VALVE SUPPORTS AND HANGERS</u>						
70	B6.5	Loop #2 2" fill line support H4 (See Item 59).			8	1-4210
<u>VALVE BONNET BOLTING (Items reported to DLW-1-6300)</u>						
			<u>ITEMS</u>			
71	B6.9	Loop #2 cold leg 12" accum. discharge and 10" RHR return SI-49, and 720A (16 each).	11 13		8	1-4201
72	B6.9	Loop #2 cold leg 6" and 2" low head SIS SI-11 (12).	15		8	1-4203
73	B6.9	Loop #2 hot leg 6" low head SIS SI-16 (12).	17		8	1-4204
74	B6.9	6" pressurizer safety RC-551B (8)	32		8	1-4501
75	B6.9	Loop #2 3" charging CH-310 (16)	20		8	1-4205

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PROGRAM ITEM	IWC-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
<u>STEAM GENERATORS</u>						
76	C1.1	Stub barrel to upper tubesheet weld Loop 1 weld #1-2; 142.3" to 149.5" = 7.2".	47			2-1100
77	C1.1	Lower shell to stub barrel weld Loop 1 weld #1-3; 141.4" to 148.5" = 7.1".	47			2-1100
78	C1.1	Transition cone to lower shell weld Loop 2 weld #2-5; 141.4" to 148.5" = 7.1".	47			2-1100
79	C1.1	Upper shell to transition cone weld Loop 2 weld #2-6; 184.1" to 193.3" = 9.2".	47			2-1100
80	C1.1	Upper head to shell weld Loop 3 Weld #3-8; 184.1" to 193.3" = 9.2".	47			2-1100
NOTE: Datum = Centerline Feedwater Nozzles						
<u>EXCESS LETDOWN HEAT EXCHANGER</u>						
81	C1.1	Head to flange weld #1; examine 9.950" to 10.45" CW from 0 reference.	205			2-1110
<u>RESIDUAL HEAT EXCHANGERS</u>						
82	C1.1	Head to shell weld 1-1; examine 41.62" to 43.62" CW from 0 reference.	205			2-1120
83	C1.1	Shell to tubesheet weld 2-2; examine 41.62" to 43.62" CW from 0 reference.	205			2-1120
84	C1.4	Flange bolting 1-B17 thru 1-B32	15		8	2-1120

PROGRAM ITEM	IWC-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
<u>SEAL WATER HEAT EXCHANGER</u>						
85	C1.1	Head to shell weld #1; examine 16.66" to 17.41" CW from 0 reference.			11 ⁽¹¹⁾ 8	2-1130
86	C1.1	Shell to flange weld #2; examine 16.66" to 17.41" CW from 0 reference.			11 ⁽¹¹⁾ 8	2-1130
<u>NON-REGENERATIVE HEAT EXCHANGER</u>						
87	C1.1	Head to shell weld #1; examine 43" to 45" CW from 0 reference.	205			2-1140
88	C1.1	Shell to flange weld #2; examine 48" to 50" CW from 0 reference.	205			2-1140
<u>REGENERATIVE HEAT EXCHANGER</u>						
89	C1.1	*Head to shell weld #2; examine 3" from 0" ref. datum CW.	205			2-1150
90	C1.1	*Shell to tubesheet weld #8; examine 3" from 0" ref. datum CW. *See Program Note 12	205			2-1150
<u>VOLUME CONTROL TANK</u>						
91	C1.1	Lower head to shell weld #1; examine 87.79" to 92.29" CW from 0 reference.	205			2-1200
92	C1.1	Upper head to shell weld #2; examine 87.79" to 92.29" CW from 0 reference.	205			2-1200
93	C1.4	Manway bolts B6 thru B10.			8	2-1200
<u>SIS ACCUMULATORS</u>						
94	C1.1	Head to shell welds 1-2 & 2-2; examine 0" to 7.0" CW from 0 reference.			RT ⁽¹⁵⁾ 400	2-1210

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PROGRAM ITEM	IWC-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
95	C1.1	Head to shell weld 2-1; examine 0" to 7.5" CW from 0 reference.	205			2-1210
96	C1.3	Support skirt weld 2-4; examine 0" to 37" CW from 0 reference.		11		2-1210
<u>BORON INJECTION TANK</u>						
97	C1.1	Head to shell welds #1 & 2; examine 53.3" to 56.3" CW from 0 reference.	205			2-1220
98	C1.4	Manway bolts B6 thru B10.			8	2-1220
<u>SEAL WATER INJECTION FILTERS</u>						
99	C1.1	Head to shell weld 1-1; examine 11.25" to 11.82" CW from 0 reference.		11 ⁽¹³⁾	8	2-1300
100	C1.1	Shell to flange weld 2-2; examine 11.25" to 11.82" CW from 0 reference.		11 ⁽¹³⁾	8	2-1300
<u>SEAL WATER RETURN FILTER</u>						
101	C1.1	*Head to shell weld #1; examine 16.75" to 17.60" CW from 0 reference.		11 ⁽¹³⁾	8	2-1320
102	C1.1	*Cover weldment to shell weld #2; examine 16.75" to 17.60" CW from 0 reference.		11 ⁽¹³⁾	8	2-1320
*See Program Note 14						
<u>ASSOCIATED AUXILIARY PIPING</u>						
103	C2.1	Loop 1 32" SHP-56: Weld 1	205 ⁽¹⁰⁾			2-2111
104	C2.1	Loop 1 32" SHP-56: Weld 2B		70 ⁽¹⁰⁾		2-2111
105	C2.1	Loop 1 32" SHP-22: Welds 2A, 3A		70 ⁽¹⁰⁾		2-2111

PROGRAM ITEM	IWC-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
106	C2.1	Loop 1 32" SHP-22: Weld 19	205		⁽¹⁰⁾	2-2111
107	C2.1	Loop 2 32" SHP-57: Weld 9	205			2-2120
108	C2.1	Loop 2 32" SHP-57: Weld 1	205		⁽¹⁰⁾	2-2121
109	C2.1	Loop 2 32" SHP-57: Weld 2B			70 ⁽¹⁰⁾	2-2121
110	C2.1	Loop 2 32" SHP-23: Welds 2A, 3A			70 ⁽¹⁰⁾	2-2121
111	C2.1	Loop 3 32" SHP-58: Weld 1	205		⁽¹⁰⁾	2-2131
112	C2.1	Loop 3 32" SHP-58: Weld 2B			70 ⁽¹⁰⁾	2-2131
113	C2.1	Loop 3 32" SHP-24: Welds 2A, 3A			70 ⁽¹⁰⁾	2-2131
114	C2.1	Loop 3 32" SHP-24: Weld 19	205		⁽¹⁰⁾	2-2131
115	C2.1	Loop 1 16" WFPD-22: Weld 2	205		⁽¹⁰⁾	2-2210
116	C2.1	Loop 2 16" WFPD-23: Weld 4	205			2-2220
117	C2.1	Loop 3 16" WFPD-24: Weld 2	205		⁽¹⁰⁾	2-2230
118	C2.1	14" RHR: Welds 5 and 6	205			2-2310
119	C2.1	12"-RH-9 Welds 15, 16 & 17	205			2-2311
120	C2.1	Loop 2 12" Accum. Disch. Weld 2	205			2-2509
121	C2.1	Loop 3 12" Accum. Disch.: Weld 5	205			2-2510
122	C2.1	12" L.H. Safety Inj. Pump: Weld 12	205			2-2521
123	C2.1	10" RHR: Weld 22	205			2-2310
124	C2.1	10" Recirc. Spray: Weld 4			11 ⁽¹⁴⁾ 8	2-2513
125	C2.1	10" Recirc. Spray: Weld 17			11 ⁽¹⁴⁾ 8	2-2514
126	C2.1	10" Recirc. Spray: Welds 12, 13			11 ⁽¹⁴⁾	2-2515
127	C2.1	8"-SI-2: Welds 69, 70			11 ⁽¹⁴⁾	2-2410

PROGRAM ITEM	IWC-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
128	C2.1	6"-CH-67: Welds 20, 21			11 ⁽¹⁴⁾	2-2410
129	C2.1	6"-SI-42: Weld 21	205	11		2-2411
130	C2.1	6"-SI-44: Welds 2,3,4			11 ⁽¹⁴⁾	2-2412
131	C2.1	6"-SI-40: Welds 6,7			11 ⁽¹⁴⁾	2-2413
<u>LONGITUDINAL WELDS IN FITTINGS</u>						
132	C2.2	Loop 2 32"-SHP-57; Weld #8 L. S.	205			2-2120
<u>PIPING PRESSURE RETAINING BOLTING (Reported to DLW-2-2600)</u>						
133	C2.4	Item #4 - Flange #4	15		8	2-2310
134	C2.4	Items #5 & 6 - Flanges #1 & 2	15		8	2-2311
<u>INTEGRALLY WELDED SUPPORTS (Reported to DLW-2-2700)*</u>						
135	C2.5	*Items #29- Loop 2 Feedwater: (H2)			11	2-2220
136	C2.5	*Items #38, 40, 48 & 50 - RHR: (H4), (H6), (H14) & (H16)			11	2-2310
137	C2.5	*Items #65 & 69 - RHR: (H1), (H5)			11	2-2312
138	C2.5	*Item #113 - CVCS: (H9)			11	2-2411
139	C2.5	Items #122 & 133 - CVCS: (H4), (H15)*			11	2-2412
<u>PIPING SUPPORT COMPONENTS (Reported to DLW-2-2700)</u>						
140	C2.6	Items #28 & 30 - Feedwater, H1, H3			8	2-2220
141	C2.6	Items #39 - RHR: H5			8	2-2310
142	C2.6	Item #63 - RHR: H10			3	2-2311
143	C2.6	Items #66,68,73 - RHR: H2,H4,H9			8	2-2312
144	C2.6	Items #90,95,97,98,99 - CVCS: H6, H11,H13,H14,H15			8	2-2410

PROGRAM ITEM	IWC-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
145	C2.6	Items #119,120,121 - CVCS: H1, H2, H3 <u>RHR PUMPS</u>			8	2-2412
146	C3.2	Bolting; 1-B1 thru 1-B16			8	2-3100
147	C3.4	Support Components 1-1SC & 1-2SC <u>CENTRIFUGAL CHARGING PUMPS</u>			8	2-3100
148	C3.2	Pressure retaining bolting 1-B1 thru 1-B16	15			2-3110
149	C3.2	Bolting; 1-B1 thru 1-B10			8	2-3110
150	C3.3	Integrally welded supports 1-1WS, 1-2WS		11		2-3110
151	C3.4	Support components 1-1WS, 1-2WS, 2-3WS <u>VALVE PRESS. RETAINING BOLTING (Reported to DLW-2-4110)</u>			8	2-3110
152	C4.2	Items #28, 29, 30 and 32 thru 36 - RHR: Valves #V-1 thru V-8			8	2-2310
153	C4.2	Items #37 thru 40 - RHR; Valves #V-9, V-10, V-605, V-758			8	2-2311
154	C4.2	Items #28, 29 - RHR; Valves V1 & V2	15			2-2310

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ADDITIONAL EXAMINATIONS PERFORMED BY DUQUESNE LIGHT COMPANY (See Tab E)

PROGRAM ITEM	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW

155	B4.5	3" Pressurizer Relief Welds #22, 23, 28, 29	205	--	--	1-4502
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The baseline examination of the welds was performed after the replacement of pressurizer relief valves MOV-RC-535 and 536.

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A system leakage test at system operating pressure and temperature was performed on 100% of the Class 1 components prior to startup following the second reactor refueling outage. The examinations were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 1974 edition through the summer 1975 addenda, and the plant Technical Specifications, to the extent practical and with the access provided and the limitations of component geometry.

The following is a list of the isometric drawings on which examinations were performed:

DLW-1-1100	Reactor Vessel
DLW-1-1300	R.V. Closure Head
DLW-1-2100	Pressurizer
DLW-1-3100	Steam Generators
DLW-1-4100 to DLW-1-4113	Loop #1 Piping
DLW-1-4200 to DLW-1-4212	Loop #2 Piping
DLW-1-4300 to DLW-1-4311	Loop #3 Piping
DLW-1-4500 to DLW-1-4506	Pressurizer Piping
DLW-1-4600 to DLW-1-4603	Auxiliary Piping
DLW-1-5100	R.C. Pumps

Visual examination for evidence of leakage was conducted in accordance with Procedure ISI 11.0, Rev. 0.

ADDITIONAL EXAMINATIONS PERFORMED BY DUQUESNE LIGHT COMPANY (See Tab E)

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A system pressure test at system operating pressure and temperature was performed on the buried portions of the Class 3 'A' reactor plant river water header--line number 24"WR-101-301-Q3. The examination was performed in accordance with subarticle IWD-2600(b) of Section XI of the ASME Boiler and Pressure Vessel Code, 1974 Edition through the summer 1975 addenda. The pressure test was conducted in accordance with Temporary Operating Procedure 81-41.

2.7

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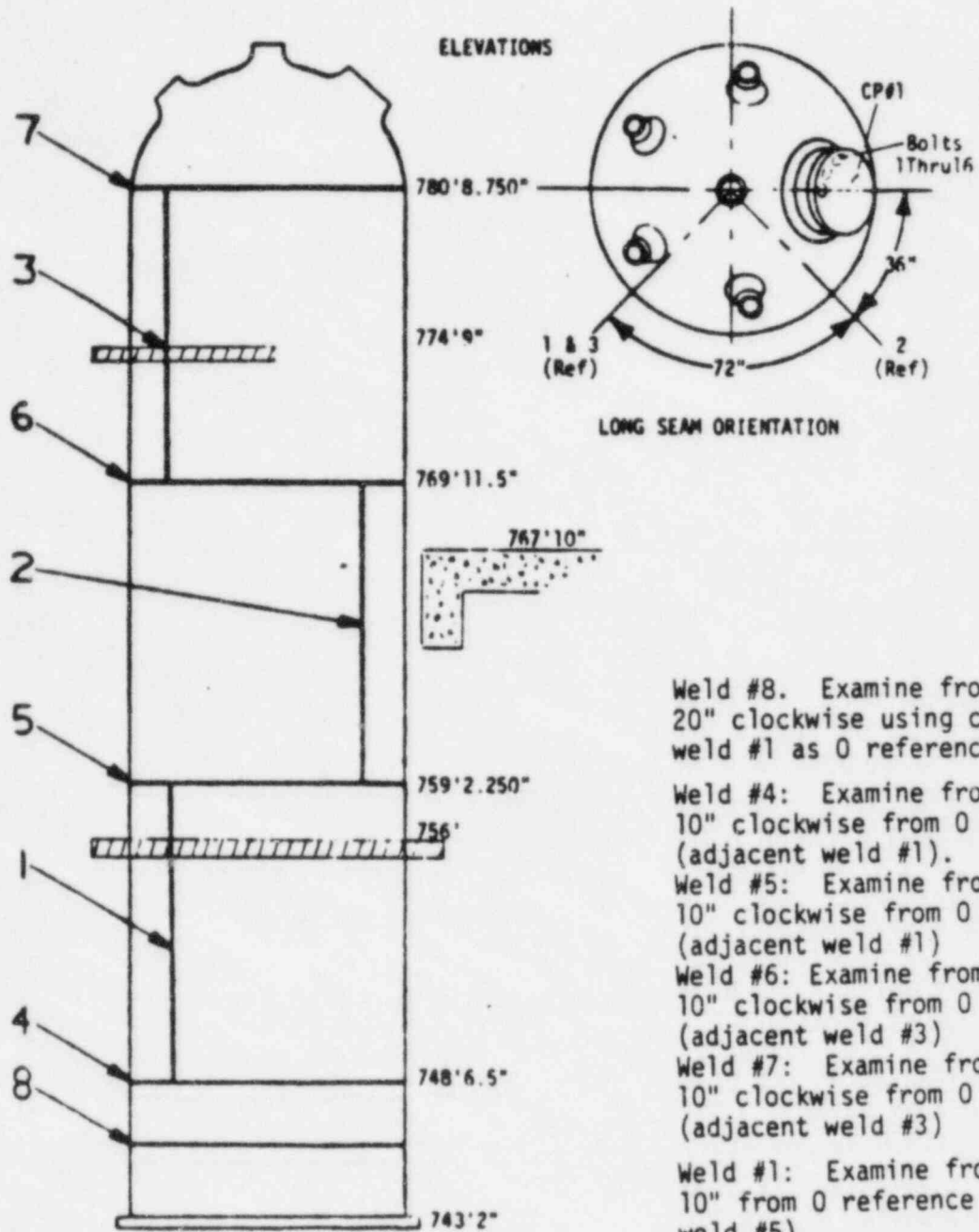
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PROGRAM NOTES

1. The examination areas shown in this program were conducted in accordance with the Ten Year Inspection Plan. Examinations that were deferred during this outage will be performed during future outages.
2. Substitute V.T. for U.T. as specified by Amendment 22, A.2.
3. Examination shall include the weld and 2T base metal on the support side of the weld in compliance with the Code.
4. Relief from 100% volumetric examination in compliance with Amendment 22, A.3.
5. UT will be supplemented by PT as required by Amendment 22, A.4.
6. Augmented examinations on reactor vessel nozzle to safe-end welds in compliance with Amendment 48.
7. UT will be supplemented by PT on this weld as required by Amendment 22, A.5.
8. UT the base metal and PT the weld metal as required by Amendment 22, A.6.
9. Examination when disassembled as required by Amendment 22, A.7.
10. Selected main steam and feedwater postulated break points in the main steam valve house examined in accordance with Appendix D, Section D3.2 of the BVPS Unit 1 FSAR.
11. Substitute P.T. and V.T. for U.T. because the material is too thin for meaningful U.T. examination. Reference Amendment 22, B.5.
12. Examine 10% of the respective one weld total length rather than 100% during each 40-month period. Reference Amendment 22, B.2.
13. Substitute P.T. for U.T. as specified by Amendment 22, B.4.
14. P.T. and V.T. substituted for U.T. because the material is too thin for meaningful U.T. examination as specified by Safety Evaluation Report dated 2/25/82.
15. Substitute RT because weld inaccessible for UT examination.

PRESSURIZER



Weld #8: Examine from 10" to 20" clockwise using centerline weld #1 as 0 reference.

Weld #4: Examine from 5" to 10" clockwise from 0 reference (adjacent weld #1).

Weld #5: Examine from 5" to 10" clockwise from 0 reference (adjacent weld #1)

Weld #6: Examine from 5" to 10" clockwise from 0 reference (adjacent weld #3)

Weld #7: Examine from 5" to 10" clockwise from 0 reference (adjacent weld #3)

Weld #1: Examine from 5" to 10" from 0 reference (adjacent weld #5)

Weld #2: Examine from 15" to 20" from 0 reference (adjacent weld #5)

Weld #3: Examine from 31" to 36" from 0 reference (adjacent weld #7)

APPENDIX 1

INSERVICE EXAMINATION PROGRAM
FOR
DUQUESNE LIGHT COMPANY
BEAVER VALLEY UNIT #1

Refueling Outage
2nd Period, First Interval

All items listed below were examined, as indicated, in accordance with the requirements of the plant Technical Specifications Section 4.0.5 (including Amd. 22 and Amd. 48), to the requirements of the 1974 (thru 1975 Summer Addenda) Edition of Section XI of the ASME Boiler and Pressure Vessel Code and as applicable, certain items of the reactor vessel to the 1980 Edition of the U.S.N.R.C. Regulatory Guide 1.150 (as per position statement in Appendix B) to the extent practical with the access provided and the limitations of component geometry.

PROGRAM REFERENCE	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION (See Program Note 1)	EXAMINATION* PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	
<u>REACTOR VESSEL</u>						
1.	B1.2	Closure Head Peel Segment Meridional Welds 1,2,3,4. Examine from 1.3" to 2.6". (0" is adjacent to weld #5)	47			1-1300
2.	B1.3	Flange to Vessel Weld #1 25% to 33% (See Appendix B) Q Stud holes 18 thru 33 and 56 thru 2.	154			1-1100
3.	B1.3	Closure Head to Flange Weld #5. Examine 179" clockwise from Q of stud hole #19 to #38.	47			1-1300
4.	B1.4	Outlet nozzles to shell welds and inside radiused sections Weld #22. (See Appendix B)	154			1-1100
5.	B1.6	R.V. Safe-End Weld 1DM (3) (See Appendix B)	154 ⁽⁵⁾ 205 ⁽⁵⁾	11		1-4100 1-4200 1-4300
6.	B1.6	R.V. Safe-End Weld 16DM (3)	205 ⁽⁵⁾	11		1-4100 1-4200 1-4300
7.	B1.9	Vessel Flange ligaments 25% to 33%. (See Appendix B) Q Stud holes (18 thru 33 and 56 thru 2)	154			1-1100
8.	B1.11	Conoseal Bolting, assembly at location #49.			8	1-1300

*Numbers under Examination Procedure in () refer to specific items under Program Notes on the last page.

PROGRAM REFERENCE	IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION*			SKETCH REFERENCE
			VOL	SUR	VIS	
		<u>REACTOR VESSEL</u>				
9.	B1.15	Vessel interior surfaces and internals, examine internals using underwater camera. (See Appendix A).			88	1-1200
		<u>PRESSURIZER</u>				
10.	B2.4	Examine 1DM, 1ODM, 19DM	205			1-4501
11.	B2.8	Support Skirt Weld #8. Examine 9.5" min. from 10" to 20" clockwise from Ref. 0".	205 ⁽⁷⁾			1-2100
		<u>STEAM GENERATOR</u>				
12.	B3.2	Inside Radii #1H, 1C, 2H			8 ⁽⁸⁾	1-3100
13.	B3.10	Examine Bolts: 1-B6 thru 1-B10 and 1-B22 thru 1-B26 2-B6 thru 2-B10 and 2-B22 thru 2-B26 3-B6 thru 3-B10 and 3-B22 thru 3-B26			8	1-3100
		<u>PIPING</u>				
14.	B4.1	R.V. Safe-End Weld 1DM (3)	See B1.6			
15.	B4.1	R.V. Safe-End Weld 16DM (3)	See B1.6			
16.	B4.5	12" Circumferential Welds #9*, 10,11,14,15,16 & 17	205	11 ^(*)		1-4201
17.	B4.5	6" Circumferential Welds #13 & #14	205			1-4501
18.	B4.5	6" Circumferential Weld #11	205	11 ⁽²⁾		1-4502
19.	B4.5	3" Circumferential Weld #5 (BW)	205			1-4206

*For Weld #9 Ref. Note 2.

PROGRAM REFERENCE	IWS-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION*			SKETCH
			VOL	SUR	VIS	REFERENCE

<u>PIPING</u>						
20.	B4.5	31" RC Pipe Weld #8	--	11	(9)	1-4200
<u>BRANCH PIPE CONNECTION</u>						
<u>6" AND SMALLER</u>						
21.	B4.7	Loop #1 2" Fill Line weld #34 (BC)		11		1-4111
22.	B4.7	Loop #3 2" Fill Line weld #26 (BC)		11		1-4309
<u>SOCKET WELDS</u>						
23.	B4.8	Loop #1 2" Fill Line Socket weld #33		11		1-4111
24.	B4.8	Loop #2 2" Fill Line Socket weld #26		11		1-4210
25.	B4.8	Loop #3 2" Fill Line Socket weld #25		11		1-4309
<u>INTEGRALLY WELDED SUPPORTS</u>						
26.	B4.9	Items #6, 13, 80*, 82*, 84, 86, 220 & 221*	205	(11)		1-4800
27.	B4.9	Items #15, 16, 92, 97, 114 & 115	205	11	(4) 8	1-4800

The following items (Visual Only):
 1, 3 thru 6, 21, 22, 24, 26, 34,
 41, 43, 45, 47, 48, 49, 53, 58,
 59, 60, 77, 83 thru 91, 93 thru
 95, 111, 112, 117, 120 thru 123,
 127 thru 129, 134, 137 thru 140,
 143 thru 146, 149, 150, 153 thru
 156, 160 thru 164, 171, 259, 260
 and 283

*Apply Note (11) to Items #80, 82,
 and 221 only.

PROGRAM REFERENCE	IWB-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION* PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW

SUPPORT COMPONENTS

28.	B4.10	The following items: 2,81,92,92A,96,98,99,99A,99B,100, 103 thru 109,116,131,133,141, 142,151,152,157,158,159,165 thru 170,172 thru 176,275,284, 286,287 & 288.			8	1-4800
-----	-------	---	--	--	---	--------

PRESSURE RETAINING BOLTING

29.	B4.12	The following items: #6 and #10,11,12			8	1-5100
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PUMPS

30.	B5.3	Examine Bolts: 3-B1 thru 3-B24			8	1-5100
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31.	B5.5	Examine 3-1SC, 3-2SC, 3-3SC			8	1-5100
-----	------	-----------------------------	--	--	---	--------

32.	--	Examine Flywheels 2-1 and 3-1	41		8	1-5100
-----	----	----------------------------------	----	--	---	--------

VALVES

33.	B6.9	Valve Bolting: Items #12,14,16,18,19,21,35, 39,41,46 & 47			8	1-6300
-----	------	---	--	--	---	--------

34.	B6.3	Valve Bolting: Items #3 & #4 (Same as Items 46 & 47 on 1-6300)			8	1-6100
-----	------	---	--	--	---	--------

PROGRAM REFERENCE	IWC-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW

VESSELS

STEAM GENERATORS

35.	C1.4	Pressure retaining bolting (13) 2-B14 thru 2-B26			8	2-1100
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PROGRAM REFERENCE	IWC-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW
		<u>EXCESS LETDOWN HEAT EXCHANGER</u>				
36.	C1.4	Bolting B1 thru B12			8	2-1110
		<u>RESIDUAL HEAT EXCHANGERS</u>				
37.	C1.2	Welds 1-3 & 2-4	11 ⁽⁶⁾		8 ⁽⁶⁾	2-1120
		<u>NON-REGENERATIVE HEAT EXCHANGER</u>				
38.	C1.4	Bolting B1 thru B36			8	2-1140
		<u>SEAL WATER INJECTION FILTER #1</u>				
39.*	C1.4	Bolting 1-B6 thru 1-B10			8	2-1300
		<u>REACTOR COOLANT FILTER</u>				
40.*	C1.1	Head to shell weld #1 from 11.25" to 11.81" CW from 0 reference			11 ⁽³⁾	2-1310
41.*	C1.1	Cover weldment to shell weld #2 from 11.25" to 11.81" CW from 0 reference			11 ⁽³⁾	2-1310
		<u>PIPING</u>				
		<u>CIRCUMFERENTIAL BUTT WELDS</u>				
42.	C2.1	12" SIS Weld #24	205			2-2521
43.	C2.1	10" RHR Weld #18	205			2-2312
44.	C2.1	10" SIS Welds #1,2,3,4	205			2-2516
45.	C2.1	10" R.S. Welds #12 & 13				8 ⁽¹⁰⁾ 2-2515
46.	C2.1	8" SIS Welds #69 & 70				8 ⁽¹⁰⁾ 2-2410
47.	C2.1	6" SIS Welds #6 & 7				8 ⁽¹⁰⁾ 2-2413
48.	C2.1	6" SIS Weld #27	205			2-2519
49.	C2.1	6" CVCS Welds #20 & 21				8 ⁽¹⁰⁾ 2-2410
50.	C2.1	6" CVCS Welds #2,3 & 4				8 ⁽¹⁰⁾ 2-2412

*Postponed until filter change out

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PROGRAM REFERENCE	IWC-2600 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE			SKETCH REFERENCE
			VOL	SUR	VIS	DLW

BRANCH CONNECTIONS

51.	C2.3	32" M.S. Weld 4B		70		2-2111
52.	C2.3	32" M.S. Weld 6B		70		2-2121
53.	C2.3	32" M.S. Weld 9B		70		2-2131
54.	C2.3	6" M.S. Weld 4A		70		2-2111
55.	C2.3	6" M.S. Weld 6A		70		2-2121
56.	C2.3	6" M.S. Weld 9A		70		2-2131

PRESSURE-RETAINING BOLTING

57.	C2.4	Items #10 thru #19		15	8	2-2600
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INTEGRALLY WELDED SUPPORTS

58.	C2.5	Items: 186,189,220,227,236 & 246		11		2-2700
59.	C2.5	Item: 10		70	8	2-2700
		Items: 173,228,237,249,296 & 301-			8	2-2700

SUPPORT COMPONENTS

60.	C2.6	Items: 55,62,64,91,145 thru 148, 158,161,169,180,181,188, 191,196,197,207,215,225,247, 254,256,259,264,265,284,285, 287,290,302,305,306,322, 327,348,366,384,394,404 & 405			8	2-2700
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PUMPS

RHR PUMPS

61.	C3.2	Pressure-Retaining Bolting 1-B1 thru 1-B3		15		2-3100
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VALVES

62.	C4.2	Pressure-Retaining Bolting Items 30, 32 thru 40			8	2-4110
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PROGRAM
REFERENCE

EXAMINATION SUBJECT

63

LEAKAGE

A system leakage test at system operating pressure and temperature was performed on 100% of the Class 1 components prior to startup following the third reactor refueling outage. Class 2 and 3 system leakage tests at system operating pressure and temperature were performed prior to, during, and immediately following the third reactor refueling outage. Class 2 leakage examinations are 66% and Class 3 leakage examinations are 80% complete.

Visual examination for evidence of leakage was conducted in accordance with Procedure ISI 11.0 Rev. 1. The examinations were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code 1974 Edition through the Summer 1975 Addenda, and the plant Technical Specifications, to the extent practical and with the access provided and the limitations of component geometry.

CLASS 3 SUPPORTS

64

A visual examination was performed on 95% of the Class 3 hangers and supports prior to, during, and immediately following the third reactor refueling outage. The examinations were performed in accordance with Procedure ISI 12.0 Rev. 1, the plant Technical Specifications, and Section XI of the ASME Boiler and Pressure Vessel Code, 1974 Edition through the Summer 1975 Addenda, to the extent practical and with the access provided and the limitations of component geometry.

PRESERVICE EXAMINATIONS

65

Preservice Visual and Volumetric examinations were performed on small diameter (2 inch and under) purchased for use prior to the third reactor refueling outage and put in storeroom stock after being identified as satisfactory to the preservice requirements of Section XI. Examinations were performed in accordance with Procedures VT-1 Rev. 0 and UT-2 Rev. 1 and Rev. 2, the plant Technical Specifications, and Section XI of the ASME Boiler and Pressure Vessel Code, 1974 Edition through the Summer 1975 Addenda, to the extent practical.

RE-EXAMINATION

66

Re-examine weld B as indicated on Attachment 1 to the program.

Note: Procedures specified in Program References 63, 64, and 65 are Duquesne Light Company Procedures.

PROGRAM NOTES

1. The examination areas shown in this program were conducted in accordance with the Ten Year Inspection Plan. Examinations that were deferred during this outage will be performed during future outages.
2. UT will be supplemented by PT as required by Amendment 22, A.4.
3. Substitute PT for UT as specified by Amendment 22, B.4.
4. UT will be supplemented by PT as required by Amendment 22, A.6.
5. Volumetrically examine inlets from O.D. only, and outlets from both O.D. and I.D. Examine in accordance with License Amendment 48.
6. UT of inside surface if disassembly provides access. Visual for leakage from exterior.
7. The examination shall include the weld and 2T base metal on the support side of the weld in compliance with the Code.
8. Substitute VT for UT as specified by Amendment 22, A.2.
9. Examine area of indication found during the 1982 Outage.
10. Substitute PT and VT in lieu of UT. PT was completed during 1982 outage.
11. PT of these items completed during the 1982 outage.

INTERNALS PROGRAM

APPENDIX A

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DUQUESNE LIGHT COMPANY
 Beaver Valley Unit 1
 Reactor Vessel Internals Inspection Program
 Interval 1, Period 2, Outage 3

Procedure: ISI-88 RI

Examiner(s): Michael W Blaw II
Robert H Cline I

APPENDIX A
 UPPER INTERNALS

Date(s): 8/5/83

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COMPONENT	LOCATION	NI	NRI	RI	REF. VTR LOCATION	COMMENTS	INITIALS
1. Thermocouple Run	General Scan of Accessible Areas		✓			EXAMINED C-5/E-13, APPROXIMATELY 50% COVERAGE DUE TO ACCESSIBILITY	MWB
2. Thermocouple Column	Core Locations: C-5, E-13, L-3 & N-11		✓			EXAMINED C-5/E-13 APPROXIMATELY 50% COVERAGE DUE TO ACCESSIBILITY	MWB
3. Top Support Plate Alignment Keyway	0°, 90°, 180°, 270°					UNACCESSIBLE DUE TO UPPER INTERNAL STORAGE RACK	MWB
4. Support Column Fastenings	As Accessible		✓			EXAMINED 180° TO 360°	MWB
5. Guide Tube Fastenings	As Accessible		✓			EXAMINED 180° TO 360°	MWB
5. Flow Mixer Device Fastenings	As Accessible		✓			EXAMINED 180° TO 360°	MWB
7. Upper Core Plate Alignment Keyways	0°, 90°, 180° & 270°		✓			EXAMINED 0°, 180°, 270° 90° NOT ACCESSIBLE	MWB
3. Fuel As	As Accessible					180° TO 360° AS ACCESSIBLE	MWB

DUQUESNE LIGHT COMPANY
Beaver Valley Unit 1
Reactor Vessel Internals Inspection Program
Interval 1, Period 2, Outage 3

Procedure: ISI-88

Examiner(s): Michael W. Blain II
Robert H. Coine I

Date(s): 2/10/83

LOWER INTERNALS

COMPONENT	LOCATION	NI	NRI	RI	REF. VTR LOCATION	COMMENTS	INITIALS
9. Head & Vessel Alignment Pins	0°, 90°, 180° & 270°		✓			EXAMINED 0°, 90°, 180° 270° NOT ACCESSIBLE	MWB
0. Core Barrel Flange Flow Nozzles	0° to 90°		✓			EXAMINED 100%	MWB
1. Flange to Core Barrel Weld	180° to 270°					NOT ACCESSIBLE	MWB
2. Core Barrel Mid Plane Weld	180° to 270°					NOT ACCESSIBLE	MWB
3. Upper Core Plate Guide Keys	0°, 90°, 180° & 270°		✓			EXAMINED 0°, 90°, 180° 270° NOT ACCESSIBLE	MWB
4. Baffle Assembly Bolting	90° to 180° Top Two Formers		✓			EXAMINED 100% 90° to 180°	MWB
5. Fuel Assembly Guide Pins	As Accessible		✓			EXAMINED 330° CW TO 225°	MWB

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TOOL PROGRAM

APPENDIX B

DUQUESNE LIGHT COMPANY
BEAVER VALLEY UNIT 1
REACTOR VESSEL INSERVICE INSPECTION
REFUELING OUTAGE: 2ND PERIOD, FIRST INTERVAL

All items listed below were examined as indicated, in accordance with the plant Technical Specifications (including License Amendments 22 and 48) based on the 1974 Edition of Section XI of the ASME B&PV Code, including Addenda through Summer 1975.

Examinations of flange-to-vessel weld areas and nozzle-to-vessel welds, including those identified in Addendum dated July 5, 1983, were additionally examined in accordance with Westinghouse's Recommended Position on U. S. Nuclear Regulatory Commission Regulatory Guide 1.150-Rev. 1.

VESSEL-TOOL INTERFACE PARAMETERS

- (a) Vessel head alignment pins located at 0, 90, 180 and 270 degrees vessel axis.
- (b) Closure head guide studs located in stud holes #5, #21 and #37 on 171.25 inch pitch circle diameter. Guide stud #21 removed.
- (c) Tool aligned on pin at 90 degrees and other two legs at 210 and 330 degrees.

EXAMINATION REQUIREMENTS

Reference Tab C
Prog. Item 2

Reference Tab C
Prog. Item 4

Reference Tab C
Prog. Item 5

AREA AND EXTENT OF EXAMINATION

FLANGE TO VESSEL WELD #1 USING VESSEL AXIS

- Q Stud holes 56 thru 2 (341° to 6.21°)
- Q Stud holes 18 thru 33 (105.52° to 198.62°)
- Q Stud holes 40 thru 52 (242.07° to 316.55°)
- Q Stud holes 8 thru 13 (43.45° to 74.48°)

OUTLET NOZZLE TO VESSEL SHELL WELD

Outlet nozzles to shell welds and inside radiused sections of Loops 1, 2, and 3 outlet nozzles were examined. Centerline of the nozzles are located 82-86 inches from the top surface of the Reactor Vessel Flange.

Weld #22 and the inside radius area of the Loop 3 nozzle located at 265.07° degrees vessel axis.

Weld #20 and the inside radius area of the Loop 2 nozzle located at 25.03° degrees vessel axis.

Weld #18 and the inside radius area of the Loop 1 nozzle located at 144.99° degrees vessel axis.

OUTLET NOZZLE TO SAFE-END WELD

Examine safe-end welds on outlet nozzles as follows: Loops 1, 2 and 3 at 144.99°, 25.03° and 265.07° vessel axes, respectively.

Centerline of weld is 122.38" from centerline of vessel.

EXAMINATION REQUIREMENTS (cont'd)

June 20, 1983
Rev. 1, (6-24-1983)
Rev. 2, (7-16-1983)

Reference Tab C
Prog. Item 7

LIGAMENTS BETWEEN THREADED STUD HOLES

Examine 36% of the vessel flange ligaments.

Examine ligaments around stud holes #18 through #33 and #56 through #2 (21 total). Stud holes are threaded 6"-8N-3B, are 11 inches deep and are located on 171.25 inches pitch circle diameter. Flange surface is 0.5 inches above flange seal surface.

DUQUESNE LIGHT COMPANY

BEAVER VALLEY UNIT 1

LISTING OF EXAMINATIONS FOR OUTAGE 4

DECEMBER 10, 1984

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- PRESSURIZER -									
B2.1.1	CIRCLE SEAM	WELD #4	RCTK 1	UT	130	CS	4.0	92.4	BV1-28	CLOCKWISE FROM 10" TO 15" FROM 0 REFERENCE (ADJACENT TO WELD #1)
B2.1.2	CIRCLE SEAM	WELD #5	RCTK 1	UT	130	CS	4.0	92.4	BV1-28	CLOCKWISE FROM 10" TO 15" FROM 0 REFERENCE (ADJACENT TO WELD #1)
B2.1.3	CIRCLE SEAM	WELD #6	RCTK 1	UT	130	CS	4.0	92.4	BV1-28	CLOCKWISE FROM 10" TO 15" FROM 0 REFERENCE (ADJACENT TO WELD #3)
B2.1.4	LONG SEAM	WELD #1	RCTK 1	UT	130	CS	4.0	92.4	BV1-28	FROM 10" TO 15" FROM 0 REFERENCE (ADJACENT TO WELD #5)
B2.4.1	NOZZLE TO SAFE-END RC-104-1	WELD#EW-1	350-1	UT	120	SS	0.719	6.63	BV1-18	NOTCH CALIBRATION
B2.4.2	NOZZLE TO SAFE END RC-104-1	WELD #EW-1	350-1	PT	240	SS	0.716	6.63		
B2.8.1	SUPPORT SKIRT CIRCLE SEAM	WELD #8	RCTK 1	UT	130	CS	1.5		BV1-26	CLOCKWISE FROM 20" TO 30" FROM 0 REFERENCE (BELOW AND ADJACENT TO WELD #1)

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DUQUESNE LIGHT COMPANY

BEAVER VALLEY UNIT 1

LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- STEAM GENERATORS -									
B3.1.1	CIRCLE SEAM	WELD#1-1	RCE 1-2	UT	130	CS	3.25	135.88	BV1-24	EXAMINE 7.5" CLOCKWISE FROM 15" TO 22.5" ZERO (0") TOP OF CENTERLINE HOT LEG MANWAY
B3.1.2	CIRCLE SEAM	WELD#2-1	RCE 1-2	UT	130	CS	3.25	135.88	BV1-24	EXAMINE 7.5" CLOCKWISE FROM 15" TO 22.5" ZERO (0") TOP OF CENTERLINE HOT LEG MANWAY
B3.1.3	CIRCLE SEAM	WELD#3-1	RCE 1-2	UT	130	CS	3.25	135.88	BV1-24	EXAMINE 7.5" CLOCKWISE FROM 15" TO 22.5" ZERO(0") TOP OF CENTERLINE HOT LEG MANWAY
B3.3.1	NOZZLE TO SAFE-END DLW LOOP 3-2	FW28	LOOP 3-1	UT	119	C-SS	2.38	29.0	BV1-1	HOLE CALIBRATION
B3.3.2	NOZZLE TO SAFE-END DLW LOOP 3-2	FW28	LOOP 3-1	PT	240	C-SS	2.38	29.0		
B3.10.1	STM. GEN A MANWAY BOLTS	001-024	RCE 1-2 ¹	MT	270	CS				24 BOLTS (82-02)
B3.10.2	STM. GEN MANWAY BOLTS	S1-S10	RCE 1-2 ¹	MT	270	CS				10 BOLTS (82-02) SPARE BOLTS

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DUQUESNE LIGHT COMPANY

BEAVER VALLEY UNIT 1

LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- PIPING SAFE-END CIRCLE SEAMS -									
	**REACTOR COOLANT									
B4.1.1	DLW LOOP 1-2 PIPE TO SAFE-END	FW-4	LOOP 1-1	UT	119	C-SS	2.38	29.0	BV1-1	HOLE CALIBRATION
B4.1.2	DLW LOOP 1-2 PIPE TO SAFE-END	FW-4	LOOP 1-1	PT	240	C-SS	2.38	29.0		
B4.1.3	DLW LOOP 1-3 PIPE TO SAFE-END	FW-5	LOOP 1-1	UT	119	C-SS	2.38	31.0	BV1-1	HOLE CALIBRATION
B4.1.4	DLW LOOP 1-3 PIPE TO SAFE-END	FW-5	LOOP 1-1	PT	240	C-SS	2.38	31.0		

DUQUESNE LIGHT COMPANY

BEAVER VALLEY UNIT 1

LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- RC PIPING WELDS -									
	** LH SAFETY INJECTION									
B4.5.1	RH-24-1A VALVE TO ELBOW	FW-6	108-2	UT	120	SS	1.0	10.75	BV1-16	NOTCH CALIBRATION
B4.5.1.1	RH-24-1A VALVE TO ELBOW	FW-6	108-2	PT	240	SS	1.0	10.75		PT SUPPLEMENTS UT
B4.5.2	RH-24-1A ELBOW TO PIPE	WELD #1	108-2	UT	120	SS	1.0	10.75	BV1-16	NOTCH CALIBRATION
B4.5.2.1	RH-24-1A ELBOW TO PIPE	WELD #1	108-2	PT	240	SS	1.0	10.75		PT SUPPLEMENTS UT
B4.5.3	SI-111-4 ELBOW TO PIPE	FW-5	108-2	UT	120	SS	1.32	12.75	BV1-15	NOTCH CALIBRATION
B4.5.3.1	SI-111-4 ELBOW TO PIPE	FW-5	108-2	PT	240	SS	1.32	12.75		PT SUPPLEMENTS UT
B4.5.4	SI-111-4 PIPE TO PIPE	WELD #3	108-2	UT	120	SS	1.32	12.75	BV1-15	NOTCH CALIBRATION
B4.5.4.1	SI-111-4 PIPE TO PIPE	WELD #3	108-2	PT	240	SS	1.32	12.75		PT SUPPLEMENTS UT
B4.5.5	SI-111-4 PIPE TO ELBOW	WELD #1	108-2	UT	120	SS	1.32	12.75	BV1-15	NOTCH CALIBRATION

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DUQUESNE LIGHT COMPANY

BEAVER VALLEY UNIT 1

LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
B4.5.5.1	SI-111-4 PIPE TO ELBOW	WELD #1	108-2	PT	240	SS	1.32	12.75		PT SUPPLEMENTS UT
B4.5.6	SI-111-4 ELBOW TO PIPE	WELD #2	108-2	UT	120	SS	1.32	12.75	BV1-15	NOTCH CALIBRATION
B4.5.6.1	SI-111-4 ELBOW TO PIPE	WELD #2	108-2	PT	240	SS	1.32	12.75		PT SUPPLEMENTS UT
B4.5.7	SI-111-4 PIPE TO VALVE	FW-6	108-2	UT	120	SS	1.32	12.75	BV1-15	NOTCH CALIBRATION
B4.5.7.1	SI-111-4 PIPE TO VALVE	FW-6	108-2	PT	240	SS	1.32	12.75		PT SUPPLEMENTS UT
B4.5.8	SI-111-4 VALVE TO PIPE	FW-7	108-2	UT	120	SS	1.32	12.75	BV1-15	NOTCH CALIBRATION
B4.5.8.1	SI-111-4 VALVE TO PIPE	FW-7	108-2	PT	240	SS	1.32	12.75		PT SUPPLEMENTS UT
B4.5.9	SI-74-5 ELBOW TO PIPE	WELD #7	375-3	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION

DUQUESNE LIGHT COMPANY

BEAVER VALLEY UNIT 1

LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
B4.5.9.1	SI-74-5 ELBOW TO PIPE	WELD #7	375-3	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.10	SI-74-5 PIPE TO VALVE	FW-7	375-3	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
B4.5.10.1	SI-74-5 PIPE TO VALVE	FW-7	375-3	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.11	SI-74-6 VALVE TO PIPE	FW-8	375-3	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
B4.5.11.1	SI-74-6 VALVE TO PIPE	FW-8	375-3	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.12	SI-74-6 PIPE TO ELBOW	WELD #1	375-3	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
B4.5.12.1	SI-74-6 PIPE TO ELBOW	WELD #1	375-3	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.13	SI-74-6 ELBOW TO PIPE	FW-8B	375-3	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION

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LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
B4.5.13.1	SI-74-6 ELBOW TO PIPE	FW-8B	375-3	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.14	SI-74-6 PIPE TO TEE	FW-9	375-3	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
B4.5.14.1	SI-74-6 PIPE TO TEE	FW-9	375-3	PT	240	SS	0.72	6.63		PT SUPPLMENTS UT
B4.5.15	SI-30-3 PIPE TO ELBOW	WELD #1	223-2	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
B4.5.15.1	SI-30-3 PIPE TO ELBOW	WELD #1	223-2	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.16	SI-30-4 ELBOW TO PIPE	FW-5	223-2	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
B4.5.16.1	SI-30-4 ELBOW TO PIPE	FW-5	223-2	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.17	SI-30-4 PIPE TO PIPE	WELD #5	223-2	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
B4.5.17.1	SI-30-4 PIPE TO PIPE	WELD #5	223-2	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.18	SI-30-4 PIPE TO PIPE	WELD #4	223-2	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
B4.5.18.1	SI-30-4 PIPE TO PIPE	WELD #4	223-2	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
B4.5.19	SI-30-4 PIPE TO ELBOW	WELD #1	223-2	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
B4.5.19.1	SI-30-4 PIPE TO ELBOW	WELD #1	223-2	PT	240	SS	0.72	6.63		PT SUPPLEMENTS UT
	** PRESS. SPRAY & SAFETY RELIEF									
B4.5.20	RC-72-5 VALVE TO ELBOW	FW-6	348-4	UT	120	SS	0.44	4.5	BV1-19	NOTCH CALIBRATION
B4.5.20.1	RC-72-5 VALVE TO ELBOW	FW-6	348-4	PT	240	SS	0.44	4.5		PT SUPPLEMENTS UT
B4.5.21	RC-72-7 PIPE TO ELBOW	WELD #1	348-4	UT	120	SS	0.44	4.5	BV1-19	NOTCH CALIBRATION
B4.5.21.1	RC-72-7 PIPE TO ELBOW	WELD #1	348-4	PT	240	SS	0.44	4.5		PT SUPPLEMENTS UT

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
B4.5.22	RC-72-7 ELBOW TO PIPE	WELD #2	348-4	UT	120	SS	0.44	4.5	BV1-19	NOTCH CALIBRATION
B4.5.22.1	RC-72-7 ELBOW TO PIPE	WELD #2	348-4	PT	240	SS	0.44	4.5		PT SUPPLEMENTS UT
B4.5.23	RC-72-7 PIPE TO ELBOW	WELD #3	348-4	UT	120	SS	0.44	4.5	BV1-19	NOTCH CALIBRATION
B4.5.23.1	RC-72-7 PIPE TO ELBOW	WELD #3	348-4	PT	240	SS	0.44	4.5		PT SUPPLEMENTS UT
B4.5.24	RC-72-7 ELBOW TO PIPE	WELD #4	348-4	UT	120	SS	0.44	4.5	BV1-19	NOTCH CALIBRATION
B4.5.24.1	RC-72-7 ELBOW TO PIPE	WELD #4	348-4	PT	240	SS	0.44	4.5		PT SUPPLEMENTS UT
B4.5.25	RC-72-7 SAFE-END TO PIPE	FW-9	348-4	UT	120	SS	0.44	4.5	BV1-19	NOTCH CALIBRATION
B4.5.25.1	RC-72-7 SAFE-END TO PIPE	FW-9	348-4	PT	240	SS	0.44	4.5		PT SUPPLEMENTS UT

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	** CHEM & VOLUME CONTROL									
84.5.26	CH-126-8 PIPE TO NOZZLE	FW-11	253	UT	120	SS	0.44	3.5	SV1-20	HOLE CALIBRATION
84.5.26.1	CH-126-8 PIPE TO NOZZLE	FW-11	253	PT	240	SS	0.44	3.5		PT SUPPLEMENTS UT

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- BRANCH PIPE CONNECTION WELDS -									
	** REACTOR COOLANT									
B4.7.1	DLW LOOP 3-1 6" SAFETY INJECTION NOZZLE CONNECTION	WELD #4	LOOP 3-1	PT	240	SS	0.72	6.63		
	** PRESS SPRAY & SAFETY RELIEF									
B4.7.2	RC-72-5 CONNECTION 2" NOZZLE	WELD #9	348-4	PT	240	SS	0.34	2.38		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- SOCKET WELDS-									
	** LH SAFETY INJECTION									
B4.8.1	SI-104-1	WELD #8	376	PT	240	SS	0.34	2.38		
B4.8.2	SI-104-1	WELD #7	376	PT	240	SS	0.34	2.38		
B4.8.3	SI-104-1	WELD #6	376	PT	240	SS	0.34	2.38		
B4.8.4	SI-104-1	WELD #5	376	PT	240	SS	0.34	2.38		
B4.8.5	SI-104-1	WELD #4	376	PT	240	SS	0.34	2.38		
B4.8.6	SI-104-1	WELD #3	376	PT	240	SS	0.34	2.38		
B4.8.7	SI-104-1	WELD #2	376	PT	240	SS	0.34	2.38		
	**REACTOR COOLANT									
B4.8.8	RC-65-1	FW-1	353-2	PT	240	SS	0.28	1.9		
B4.8.9	RC-65-1	WELD #1	353-2	PT	240	SS	0.28	1.9		
B4.8.10	RC-65-1	FW-2	353-2	PT	240	SS	0.28	1.9		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
B4.8.11	RC-65-1	WELD #2	353-2	PT	240	SS	0.28	1.9		
B4.8.12	RC-30-1	FW-1	353-2	PT	240	SS	0.34	2.38		
B4.8.13	RC-30-1	WELD #4	353-2	PT	240	SS	0.34	2.38		
	**REACTOR COOLANT DRAINS									
B4.8.14	RC-61-1A	WELD #4	359	PT	240	SS	0.34	2.38		
B4.8.15	RC-61-1A	WELD #5	359	PT	240	SS	0.34	2.38		
B4.8.16	RC-61-1A	WELD #8	359	PT	240	SS	0.34	2.38		
B4.8.17	RC-61-1A	WELD #7	359	PT	240	SS	0.34	2.38		
B4.8.18	RC-61-1C	FW-1C	359	PT	240	SS	0.34	2.38		
B4.8.19	RC-61-1C	FW-2	359	PT	240	SS	0.34	2.38		
B4.8.20	DG-47-1	FW-1	359	PT	240	SS	0.34	2.38		
B4.8.21	DG-47-1	WELD #5	359	PT	240	SS	0.34	2.38		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	** CHEM & VOLUME CONTROL									
B4.8.22	CH-98-3	WELD #7	190	PT	240	SS	0.34	2.38		
B4.8.23	CH-98-2	FW-4	190	PT	240	SS	0.34	2.38		
B4.8.24	CH-98-2	WELD #2	190	PT	240	SS	0.34	2.38		
B4.8.25	CH-98-2	WELD #1	190	PT	240	SS	0.34	2.38		
B4.8.26	CH-98-1A	FW-3	190	PT	240	SS	0.34	2.38		
B4.8.27	CH-98-1A	WELD #1	190	PT	240	SS	0.34	2.38		
B4.8.28	CH-98-1A	WELD #2	190	PT	240	SS	0.34	2.38		
B4.8.29	CH-98-1B	FW-2	190	PT	240	SS	0.34	2.38		
B4.8.30	CH-98-1B	FW-1D	190	PT	240	SS	0.34	2.38		
B4.8.31	CH-98-1G	FW-1C	190	PT	240	SS	0.34	2.38		
B4.8.32	CH-98-1G	WELD #1	190	PT	240	SS	0.34	2.38		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
B4.8.33	CH-98-1G	WELD #2	190	PT	240	SS	0.34	2.38		
B4.8.34	CH-98-1F	FW-1 F H	190	PT	240	SS	0.34	2.38		
B4.8.35	CH-98-1AA	FW-1G	190	PT	240	SS	0.34	2.38		
B4.8.36	CH-98-1AA	FW-1B	190	PT	240	SS	0.34	2.38		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- PIPING INTEGRALLY WELDED SUPPORTS-									
	** LH SAFETY INJECTION									
B4.9.1.1	RH-24-1A	A-42	108-2	PT	240	SS	1.13	10.75		
B4.9.2.1	RH-24-1	SH-42A	108-2	PT	240	SS	1.13	10.75		
	**REACTOR COOLANT									
B4.9.3.1	DLW LOOP 3-9	SH-5	999-3	PT	240	SS	0.81	8.63		
	**LH SAFETY INJECTION									
B4.9.4.1	SI-30-3	R-49	223-2	PT	240	SS	0.72	6.63		
B4.9.5.1	SI-30-3	SH-52A	223-2	PT	240	SS	0.72	6.63		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	COMMENTS
	**CHEM & VOLUME CONTROL									
B4.9.6.1	CH-98-3	CH-R-PS-15	190	PT	240	SS	0.34	2.38		
B4.9.7.1	CH-98-4A	CH-R-PS-7	190	PT	240	SS	0.34	2.38		
	**REACTOR COOLANT									
B4.9.8.1	DLW PRESS-1	SH-1	999-4	PT	240	SS	1.41	14.0		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	**CHEM & VOLUME CONTROL									
B4.9.10.1	CH-140-5	PS-6	191	PT	240	SS	0.34	2.38	BV1-21	
B4.9.11.1	CH-140-4	PS-5	191	PT	240	SS	0.34	2.38	BV1-21	
	**REACTOR COOLANT									
B4.9.12.1	DG-50-3	PS-24	197	PT	240	SS	0.34	2.38	BV1-21	
B4.9.13.1	DG-50-5D	A-PS-18	197	PT	240	SS	0.34	2.38	BV1-21	
B4.9.14.1	DG-50-7	A-PS-11	197	PT	240	SS	0.34	2.38	BV1-21	

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	COMMENTS	
	- REACTOR COOLANT PUMPS -										
B5.1.2.1	SEAL HOUSE BOLT- ING 2-B1 THRU 2-B12		¹⁻² RCP 2-1	MT	270			2.0		IF DISASSEMBLED	
B5.9.1	RCP MAIN FLANGE BOLTS -VALVE BOLTING- **RESIDUAL HEAT REMOVAL	J4916-1		MT	270	CS				6 EACH ISI 3 EACH BASELINE	
B6.9.1	VALVE BONNET BOLTING	MOV-RH720B	1-4301	MT	270	CS		1.875		32 EACH (16 BLI 16 ISI)	
B6.9.2	VALVE FLANGE BOLTING	RV-RC-551A	1-4501	MT	270	CS		1.0		OUTLET 24 EA. (12 BLI 12 ISI)	
B6.9.3	VALVE FLANGE BOLTING	RV-RC-551A	1-4501	MT	270	CS		1.375		INLET 14 EA.(14 BLI 0 ISI)	
B6.9.4	VALVE FLANGE BOLTING	RV-RC-551B	1-4501	MT	270	CS		1.0		OUTLET 21 EA.(12 BLI 9 ISI)	
B6.9.5	VALVE FLANGE BOLTING	RV-RC-551B	1-4501	MT	270	CS		1.375		INLET 23 EA.(14 BLI 9 ISI)	

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	-AUGMENTED EXAMS-									
X1.1.1	RCP FLYWHEEL	1-1	RCP 1-4	UT	117	CS				REG. GUIDE 1.14
X1.1.3	RCP FLYWHEEL	2-1	RCP 1-4	UT	117	CS				REG. GUIDE 1.14
X1.1.5	RCP FLYWHEEL	3-1	RCP 1-4	UT	117	CS				REG. GUIDE 1.14
X1.2.1	SHACKLE	6737		MT	270	CS				24 EACH
		7755								
		7768								
		7781								
		7756	W/HOOK #D017							
		6739	W/HOOK #D023							
		6740	W/HOOK #D019							
		3058	W/HOOK #D032							
		6728								
		3060	W/HOOK #D10							
		22705								
		6675								
		18305								
		6676	W/HOOK #D24							
		6738	W/HOOK #D20							
		6743	W/HOOK #D21							
		18195								
		18317								
		4381								
		22701								
		18306								
		1882	W/HOOK #D1							
		2955	W/HOOK #D6							
		6663	W/HOOK #D25							

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- PRESSURE VESSELS -									
	** STEAM GENERATORS									
C1.1.1	CIRCLE SEAM	WELD 1-2	RCE 1-2	UT	130	CS	3.25	135.9	BV1-24	EXAMINE CLOCKWISE FROM 284.6" TO 291.8"
C1.1.2	CIRCLE SEAM	WELD 1-3	RCE 1-2	UT	130	CS	2.82	135.9	BV1-24	EXAMINE CLOCKWISE FROM 282.8" TO 289.9"
C1.1.3	CIRCLE SEAM	WELD 2-5	RCE 1-2	UT	130	CS	3.68	135.9	BV1-24	EXAMINE CLOCKWISE FROM 282.8" TO 289.9"
	**EXCESS LETDOWN HEAT EX.									
C1.1.4	CIRCLE SEAM	WELD #1	CHE 4	UT	120	SS	0.75	11.0	BV1-16	EXAMINE CLOCKWISE FROM 19.9" TO 20.4" NOTCH CALIBRATION
	**RESIDUAL HEAT EX.									
C1.1.5	CIRCLE SEAM RH-E-1A	WELD 1-1	RHE-1	UT	120	SS	0.875	39.75	BV1-58	EXAMINE CLOCKWISE FROM 83.25" TO 85.25" HOLE CALIBRATION

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	**SEAL WATER HEAT EX									
C.1.1.6	CIRCLE SEAM CH-E-1	WELD #1	CHE 1	PT	240	SS	0.187	14.0		EXAMINE CLOCKWISE FROM 33.32" TO 34.02" AMENDMENT 22-REFIEF FROM UT
C1.1.7	CIRCLE SEAM CH-E-1	WELD #2	CHE 1	PT	240	SS	0.187	14.0		EXAMINE CLOCKWISE FROM 33.32 to 34.02"

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	**REGENERATIVE HEAT EX.									
C1.1.8	CIRCLE SEAM	WELD #3	CHE 3	UT	120	SS	0.9	9.55	BV1-16	EXAMINE CLOCKWISE FROM 0" TO 3" MINIMUM NOTCH CALIBRATION
C1.1.8.1	CIRCLE SEAM	WELD #3	CHE 3	PT	240	SS	0.9	9.55		
C1.1.14	CIRCLE SEAM	WELD #9	CHE 3	UT	120	SS	0.94	9.55	BV1-16	EXAMINE CLOCKWISE FROM 0" TO 3" MINIMUM NOTCH CALIBRATION
C.1.14.1	CIRCLE SEAM	WELD #9	CHE 3	PT	240	SS	0.94	9.55		PT SUPPLEMENTS UT
	**VOLUME CONTROL TANK									
C1.1.15	CIRCLE SEAM CH-TK-2	WELD #1	CHTK 2	UT	120	SS	0.31	84.0	BV1-56	EXAMINE CLOCKWISE FROM 175.59" TO 180.09" MIN. HOLE CALIBRATION
C1.1.16	CIRCLE SEAM CH-TK-2	WELD #2	CHTK 2	UT	120	SS	0.31	84.0	BV1-56	EXAMINE CLOCKWISE FROM 175.59" TO 180.09" MIN. HOLE CALIBRATION

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	**BORON INJECTION TANK									
C1.1.17	CIRCLE SEAM SI-TK-2	WELD #1	SITK 2	UT	130	CS	4.16	56.3	BV1-26	EXAMINE CLOCKWISE FROM 112.6" TO 115.6" MIN.
C1.1.18	CIRCLE SEAM SI-TK-2	WELD #2	SITK 2	UT	130	CS	4.16	56.3	BV1-26	EXAMINE CLOCKWISE FROM 112.6" TO 115.6" MIN.
C1.2.1	NOZZLE TO VESSEL WELD	WELD #4	SITK 2	UT	120	CS	2.0	10.5	BV1-26	EXAMINE 100% HOLE CALIBRATION

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- PIPING CIRCLE SEAMS -									
	**MAIN STEAM									
C2.1.1	SHP-57-5 PIPE TO TEE	WELD #48	2-2	UT	120	CS	0.97	32.0	BV1-59	FSAR REQUIREMENT FIRST INTERVAL NOTCH CALIBRATION
	**RESIDUAL HEAT REMOVAL									
C2.1.2	RH-18-1 PIPE TO ELBOW	WELD #3	74-2	UT	120	SS	0.44	14.0	BV1-50	HOLE CALIBRATION
C2.1.3	RH-12-2B VALVE TO PIPE	WELD #8	75-1	UT	120	SS	0.44	14.0	BV1-51	HOLE CALIBRATION
C2.1.3.1	RH-12-2B VALVE TO PIPE	WELD #8	75-1	PT	240	SS	0.44	14.0		
C2.1.4	RH-12-2 VALVE TO PIPE	WELD #7	75-1	UT	120	SS	0.44	14.0	BV1-51	HOLE CALIBRATION
C2.1.4.1	RH-12-2 VALVE TO PIPE	WELD #7	75-1	PT	240	SS	0.44	14.0		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	COMMENTS	
	**LH SAFETY INJECTION										
C2.1.5	SI-7-1 PIPE TO PIPE	WELD #2	83-1	UT	120	SS	0.38	12.75	BV1-51	HOLE CALIBRATION	
C2.1.6	SI-7-1 PIPE TO VALVE	FW-6	83-1	UT	120	SS	0.38	12.75	BV1-51	HOLE CALIBRATION	
C2.1.7	SI-6-1 ELBOW TO PIPE	WELD #2	83-1	UT	120	SS	0.38	12.75	BV1-51	HOLE CALIBRATION	
C2.1.8	SI-1-7 ELBOW TO PIPE	WELD #1	83-2	UT	120	SS	0.38	12.75	BV1-51	HOLE CALIBRATION	
C2.1.9	SI-1-7 PIPE TO ELBOW	WELD #2	83-2	UT	120	SS	0.38	12.75	BV1-51	HOLE CALIBRATION	
	**SAFETY INJECTION										
C2.1.10	P12-B PIPE TO ELBOW	FW-1	114	UT	120	SS	0.37	10.75	BV1-52	NOTCH CALIBRATION	
C2.1.11	P12-8 ELBOW TO ELBOW	WELD A	114	UT	120	SS	0.37	10.75	BV1-52	NOTCH CALIBRATION	

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
C2.1.12	P12-B1 ELBOW TO PIPE	FW-18	114	UT	120	SS	0.37	10.75	BV1-52	NOTCH CALIBRATION
	**CHEM. & VOLUME CONTROL									
C2.1.13.1	CH-15-3A PIPE TO TEE	FW-3	277-2	PT	240	SS	0.15	8.63		
C2.1.14.1	CH-15-4A TEE TO PIPE CAP	FW-3A	277-2	PT	240	SS	0.15	8.63		
C2.1.15.1	CH-15-3 TEE TO PIPE	WELD #1	277-2	PT	240	SS	0.15	8.63		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	**MAIN STEAM									
C2.1.16	SHP-23-3	FW-3	2-2	MT	270	CS	1.0	^{6.0} 32.0	BVI-59	
	**CHEM. & VOLUME CONTROL									
C2.1.17.1	CH-68-2 PIPE TO ELBOW	WELD #3	277-3	PT	240	SS	0.13	6.63		
C2.1.18.1	CH-68-2 ELBOW TO PIPE	WELD #2	277-3	PT	240	SS	0.13	6.63		
	**LH SAFETY INJECTION									
C2.1.19.1	SI-40-4 PIPE TO ELBOW	FW-6	279-1	PT	240	SS	0.13	6.63		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
C2.1.21	SI-33-1G TEE TO PIPE	WELD #7	220-1	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
C2.1.22	SI-32-1G TEE TO PIPE **RECIRC. SPRAY	WELD #1	220-2	UT	120	SS	0.72	6.63	BV1-18	NOTCH CALIBRATION
C2.1.23	TEE TO PIPE	FW-SI-B8	16201	UT	120	SS			BV1-53	NOTCH CALIBRATION
C2.1.24	PIPE TO ELBOW	FW-SI-B33	16201	UT	120	SS			BV1-53	NOTCH CALIBRATION
C2.1.25	ELBOW TO PIPE	FW-SI-B43	16201	UT	120	SS			BV1-53	NOTCH CALIBRATION
C2.1.26	PIPE TO ELBOW	FW-SI-B7	16202	UT	120	SS			BV1-53	NOTCH CALIBRATION
C2.1.27	ELBOW TO PIPE ** MAIN STEAM	FW-SI-B9	16202	UT	120	SS			BV1-53	NOTCH CALIBRATION
C2.1.28	SHP-56-10 PENETRATION TO PIPE	WELD #49	2-1	MT	270	CS	1.0	32.0		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
C2.1.29	SHP-56-10 PENETRATION TO PIPE	WELD #44	2-1	MT	270	CS	1.0	32.0		
C2.1.30	SHP-56-10 PENETRATION TO PIPE	WELD #14	2-1	MT	270	CS	1.0	32.0		
C2.1.31	SHP-57-5 PENETRATION TO PIPE	WELD #49	2-2	MT	270	CS	1.0	32.0		
C2.1.32	SHP-57-5 PENETRATION TO PIPE	WELD #44	2-2 2-2	MT	270	CS	1.0	32.0		
C2.1.33	SHP-56-10 PENETRATION TO PIPE	WELD #15	2-1	MT	270	CS	1.0	32.0		

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LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	- BOLTING -									
	**MAIN STEAM									
C2.4.1	FLANGE BOLTING AT SV-MS-102C		2-3	UT	104	CS	11.5	1.31	BV1-66	12 EA.
C2.4.2	FLANGE BOLTING AT SV-MS-103C		2-3	UT	104	CS	11.5	1.31	BV1-66	12 EA.
C2.4.3	FLANGE BOLTING AT SV-MS-104C		2-3	UT	104	CS	11.5	1.31	BV1-66	12 EA.
C2.4.4	FLANGE BOLTING AT SV-MS-105C		2-3	UT	104	CS	11.5	1.31	BV1-66	12 EA.

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LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
- INTEGRALLY WELDED PIPING SUPPORTS -										
**MAIN STEAM										
C2.5.1	SHP-56-8	SH-5	1-1	MT	270	CS	1.0	32.0		
C2.5.2	SHP-56-10	SH-10	2-1	MT	270	CS	1.0	32.0		
C2.5.3	SHP-58-5	SH-20	2-3	MT	270	CS	1.0	32.0		
**FEEDWATER										
C2.5.4	WFPD-24-3	SH-13	62-3	MT	270	CS	0.84	16.0		
**RESIDUAL HEAT REMOVAL										
C2.5.5	RH-12-1	A-7	74-3	PT	240	SS	0.38	12.75		
C2.5.6	RH-8-1	SH-13	74-3	PT	240	SS	0.37	10.75		
C2.5.7	RH-10-2	R-22	75-1	PT	240	SS	0.37	10.75		
C2.5.8	RH-9-1	SH-25	75-1	PT	240	SS	0.38	12.75		
C2.5.9	RH-9-1	SH-26	75-1	PT	240	SS	0.38	12.75		
C2.5.10	RH-9-1	A-27	75-1	PT	240	SS	0.38	12.75		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
C2.5.11	RH-12-4	HSS-101 HSS-102	75-2	PT	240	SS	0.38	12.75		
C2.5.12	RH-16-1	A-1	208	PT	240	SS	0.38	10.75		
	**CHEM & VOLUME CONTROL									
C2.5.13	CH-67-1	R-6	277-3	PT	240	SS	0.13	6.63		
C2.5.14	CH-68-1	R-8	277-3	PT	240	SS	0.13	6.63		
	**LH SAFETY INJECTION									
C2.5.15	SI-44-12D	R-34	277-1	PT	240	SS	0.13	6.63		
C2.5.17	SI-44-3	R-11 HSS-512 HSS-512A	279-3	PT	240	SS	0.13	6.63		

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FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
C2.5.18	SI-40-5	A-6	279-2	PT	240	SS	0.13	6.63		
C2.5.19	SI-20-4	R-11D-2	222-1	PT	240	SS	0.72	6.63		
C2.5.20	SI-29-1	R-2D(4)	220-2	PT	240	SS	0.72	6.63		
C2.5.21	SI-121-1	R-2	106-2	PT	240	SS	1.31	12.75		
	** RECIRC. SPRAY									
C2.5.22	RS-1-3C	HSS-237 HSS-238 HSS-202 HSS-201	79-1	PT	240	SS	0.37	10.75		
	**LH SAFETY INJECTION									
C2.5.23	P11-B1	PSSP60D PSSP60F	115	PT	240	SS	0.37	10.75		
C2.5.24	P11-G	PSSP36A	115	PT	240	SS	0.37	10.75		

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LISTING OF EXAMINATIONS FOR OUTAGE 4

FIGURE NO	WELD, AREA, OR PART	ID#	SKETCH (ISI-)	NDT	ISI PROCEDURE	MAT'L	THCK	EXAM DIAM	CAL BLOCK	----- COMMENTS -----
	**SAFETY INJECTION									
C2.5.25	P12-B1	PSSP67C PSSP67A	114	PT	240	SS	0.37	10.75		
C2.5.26	P12-H1	PSSP33A	114	PT	240	SS	0.43	6.63		
C2.5.27	SI-44-2	A-35	114	PT	240	SS	0.43	6.63		
	**LH SAFETY INJECTION									
C2.5.29	SI-1-6A	SH-52	83-2	PT	240	SS	0.375	12.75		
C2.5.30	SI-1-7	A-15	83-2	PT	240	SS	0.375	12.75		
C2.5.31	SI-8-1	VS-14	83-1	PT	240	SS	0.375	12.75		
C2.5.32	SI-7-1	VS-13	83-1	PT	240	SS	0.375	12.75		
	**RECIRC. SPRAY									
C2.5.33	RS-3-3C	A-16	81-4	PT	240	SS	0.18	12.75		
C2.5.34	RS-11-6E	HSS-223 HSS-222	81-1	PT	240	SS	0.18	12.75		

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
C2.6	Supports	R-17A	83-2	VT	VT-101	CS	
C2.6	Supports	SH-10	2-1	VT	VT-101	CS	
C2.6	Supports	S-2	1-1	VT	VT-101	CS	
C2.6	Supports	SH-15	2-2	VT	VT-101	CS	
C2.6	Supports	SH-7	1-3	VT	VT-101	CS	
C2.6	Supports	HSS-213	1-3	VT	VT-101	CS	
C2.6	Supports	HSS-214	1-3	VT	VT-101	CS	
C2.6	Supports	SH-7	62-1	VT	VT-101	CS	
C2.6	Supports	SH-10	62-3	VT	VT-101	CS	
C2.6	Supports	SH-10	74-3	VT	VT-101	CS	
C2.6	Supports	SH-29	74-3	VT	VT-101	CS	
C2.6	Supports	R-25A	75-1	VT	VT-101	CS	
C2.6	Supports	R-2A	208	VT	VT-101	CS	
C2.6	Supports	R-5A	208	VT	VT-101	CS	
C2.6	Supports	R-6A	208	VT	VT-101	CS	
C2.6	Supports	R-7A	208	VT	VT-101	CS	
C2.6	Supports	R-229	277-2	VT	VT-101	CS	
C2.6	Supports	R-31	277-1	VT	VT-101	CS	
C2.6	Supports	HSS-511	279-3	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 2 - SUPPORTS

Page 2

Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
C2.6	Supports	R-8A	279-3	VT	VT-101	CS	
C2.6	Supports	HSS-515	279-3	VT	VT-101	CS	
C2.6	Supports	R-9A	279-3	VT	VT-101	CS	
C2.6	Supports	HSS-516	279-3	VT	VT-101	CS	
C2.6	Supports	R-7	279-1	VT	VT-101	CS	
C2.6	Supports	R-5	279-2	VT	VT-101	CS	
C2.6	Supports	HSS-522	279-2	VT	VT-101	CS	
C2.6	Supports	SH-101A	222-1	VT	VT-101	CS	
C2.6	Supports	SH-60A	222-1	VT	VT-101	CS	
C2.6	Supports	R-4D(4)	220-2	VT	VT-101	CS	
C2.6	Supports	HSS-409	375-4	VT	VT-101	CS	
C2.6	Supports	HSS-410	375-4	VT	VT-101	CS	
C2.6	Supports	R-308	375-4	VT	VT-101	CS	
C2.6	Supports	SH-13	107-3	VT	VT-101	CS	
C2.6	Supports	R-19	108-1	VT	VT-101	CS	
C2.6	Supports	A-3	79-1	VT	VT-101	CS	
C2.6	Supports	SH-5	80-1	VT	VT-101	CS	
C2.6	Supports	R-45	79-2	VT	VT-101	CS	
C2.6	Supports	R-11	80-2	VT	VT-101	CS	

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
C2.6	Supports	HSS-236	80-2	VT	VT-101	CS	
C2.6	Supports	PSSH-60C	115	VT	VT-101	CS	
C2.6	Supports	PSR-60A	115	VT	VT-101	CS	
C2.6	Supports	PSR-36B	115	VT	VT-101	CS	
C2.6	Supports	A-37	115	VT	VT-101	CS	
C2.6	Supports	PSR-011	16201	VT	VT-101	CS	
C2.6	Supports	PSSH-004	16202	VT	VT-101	CS	
C2.6	Supports	PSR-005	16202	VT	VT-101	CS	
C2.6	Supports	PSR-67B	114	VT	VT-101	CS	
C2.6	Supports	PSR-070A	114	VT	VT-101	CS	
C2.6	Supports	PSR-67E	114	VT	VT-101	CS	
C2.6	Supports	PSSH-67	114	VT	VT-101	CS	
C2.6	Supports	R-13	114	VT	VT-101	CS	
C2.6	Supports	R-12Z	114	VT	VT-101	CS	
C2.6	Supports	SH-66	109	VT	VT-101	CS	
C2.6	Supports	SH-50	83-1	VT	VT-101	CS	
C2.6	Supports	SH-53	83-2	VT	VT-101	CS	
C2.6	Supports	R-17B	83-2	VT	VT-101	CS	
C2.6	Supports	R-16	83-2	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 2 - SUPPORTS

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
C2.6	Supports	R-20	81-4	VT	VT-101	CS	
C2.6	Supports	H-18A-2	81-4	VT	VT-101	CS	
C2.6	Supports	H-19A-2	81-4	VT	VT-101	CS	
C2.6	Supports	R-21	81-4	VT	VT-101	CS	
C2.6	Supports	H-20A-2	81-4	VT	VT-101	CS	
C2.6	Supports	A-71	81-5	VT	VT-101	CS	
C2.6	Supports	RH-72	81-5	VT	VT-101	CS	
C2.6	Supports	RH-76	81-5	VT	VT-101	CS	
C2.6	Supports	RH-77	81-5	VT	VT-101	CS	
C2.6	Supports	R-82A	81-1	VT	VT-101	CS	
C2.6	Supports	R-86	81-1	VT	VT-101	CS	
C2.6	Supports	RH-69	81-1	VT	VT-101	CS	
C2.6	Supports	RH-68	81-1	VT	VT-101	CS	
C2.6	Supports	RH-64	81-1	VT	VT-101	CS	
C2.6	Supports	RH-63	81-1	VT	VT-101	CS	
C2.6	Supports	R-87	78-1	VT	VT-101	CS	
C2.6	Supports	A-80A	78-1	VT	VT-101	CS	
C2.6	Supports	A-62A	78-1	VT	VT-101	CS	
C2.6	Supports	RH-63A	78-1	VT	VT-101	CS	

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
C2.6	Supports	R-67A	78-1	VT	VT-101	CS	
C2.6	Supports	RH-68A	78-2	VT	VT-101	CS	
C2.6	Support	VS-28	78-4	VT	VT-101	CS	
C2.6	Supports	VS-30	78-4	VT	VT-101	CS	
C2.6	Supports	HSS-219	78-4	VT	VT-101	CS	
C2.6	Supports	VS-31	78-4	VT	VT-101	CS	
C2.6	Supports	A-71A	78-5	VT	VT-101	CS	
C2.6	Supports	RH-72A	78-5	VT	VT-101	CS	
C2.6	Supports	RH-77A	78-5	VT	VT-101	CS	
C2.6	Supports	RH-78A	78-5	VT	VT-101	CS	
C2.6	Supports	A-70A	78-1	VT	VT-101	CS	
C2.6	Supports	A-62	81-1	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 2 - BOLTING

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
C1.4.1	Bolting	B-9 thru B-12	CHE4	VT	VT-101	CS	Excess Letdown Heat Exchanger
C1.4.2	Bolting	1-B33 thru 1-B48	RHE1	VT	VT-101	CS	Residual Heat Exchanger
C1.4.3	Bolting	B-11 thru B-16	CHTK-2	VT	VT-101	CS	Volume Control Tank
C1.4.4	Bolting	B-11 thru B-16	SITK2	VT	VT-101	CS	Boron Injection Tank
C2.4.1	Flange Bolting	SV-MS-102C	2-3	VT	VT-101	CS	
C2.4.2	Flange Bolting	SV-MS-103C	2-3	VT	VT-101	CS	
C2.4.3	Flange Bolting	SV-MS-104C	2-3	VT	VT-101	CS	1B1 Pump
C2.4.4	Flange Bolting	SV-MS-105C	2-3	VT	VT-101	CS	

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B4.10	Supports	R-PS-7	376	VT	VT-101	CS	
B4.10	Supports	R-PS-6	376	VT	VT-101	CS	
B4.10	Supports	PS-5	376	VT	VT-101	CS	
B4.10	Supports	PS-4	376	VT	VT-101	CS	
B4.10	Supports	R-PS-3	376	VT	VT-101	CS	
B4.10	Supports	R-PS-2	376	VT	VT-101	CS	
B4.10	Supports	A-PS-1	376	VT	VT-101	CS	
B4.10	Supports	R-PS-2	353-2	VT	VT-101	CS	
B4.10	Supports	R-PS-1A	353-3	VT	VT-101	CS	
B4.10	Supports	R-H-SMID-7	353-3	VT	VT-101	CS	
B4.10	Supports	R-PS-19	197	VT	VT-101	CS	
B4.10	Supports	A-PS-18	197	VT	VT-101	CS	
B4.10	Supports	R-PS-17	197	VT	VT-101	CS	
B4.10	Supports	R-PS-16	197	VT	VT-101	CS	
B4.10	Supports	R-PS-15	197	VT	VT-101	CS	
B4.10	Supports	R-PS-14	197	VT	VT-101	CS	
B4.10	Supports	R-13	197	VT	VT-101	CS	
B4.10	Supports	R-PS-12	197	VT	VT-101	CS	
B4.10	Supports	A-PS-11	197	VT	VT-101	CS	

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B4.10	Supports	R-PS-10	197	VT	VT-101	CS	
B4.10	Supports	VS-PS-9	197	VT	VT-101	CS	
B4.10	Supports	R-PS-8	197	VT	VT-101	CS	
B4.10	Supports	PS-7	197	VT	VT-101	CS	
B4.10	Supports	PS-6	197	VT	VT-101	CS	
B4.10	Supports	R-PS-5	197	VT	VT-101	CS	
B4.10	Supports	R-PS-4	197	VT	VT-101	CS	
B4.10	Supports	A-PS-3	197	VT	VT-101	CS	
B4.10	Supports	R-PS-2	197	VT	VT-101	CS	
B4.10	Supports	R-PS-1	197	VT	VT-101	CS	
B4.10	Supports	PS-4	245	VT	VT-101	CS	
B4.10	Supports	PS-2	245	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-1	245	VT	VT-101	CS	
B4.10	Supports	PS-4	359	VT	VT-101	CS	
B4.10	Supports	PS-3	359	VT	VT-101	CS	
B4.10	Supports	PS-2	359	VT	VT-101	CS	
B4.10	Supports	PS-1	359	VT	VT-101	CS	
B4.10	Supports	PS-5	359	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-7	190	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 1 - SUPPORTS

Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B4.10	Supports	CH-VS-PS-8	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-9	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-10	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-11	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-12	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-13	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-14	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-15	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-16	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-3	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-4	190	VT	VT-101	CS	
B4.10	Supports	PS-5	190	VT	VT-101	CS	
B4.10	Supports	PS-6	190	VT	VT-101	CS	
B4.10	Supports	CH-R-PS-1	190	VT	VT-101	CS	
B4.10	Supports	PS-1	248	VT	VT-101	CS	
B4.10	Supports	PS-3	248	VT	VT-101	CS	
B4.10	Supports	PS-2	248	VT	VT-101	CS	
B4.10	Supports	SH-1	999-4	VT	VT-101	CS	
B4.10	Supports	SH-50	350-2	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 1 - SUPPORTS

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B4.10	Supports	SH-51	350-2	VT	VT-101	CS	
B4.10	Supports	SH-52	350-2	VT	VT-101	CS	
B4.10	Supports	SH-43	350-1	VT	VT-101	CS	
B4.10	Supports	SH-42	350-1	VT	VT-101	CS	
B4.10	Supports	SH-45	350-1	VT	VT-101	CS	
B4.10	Supports	PSSH-46	350-1	VT	VT-101	CS	
B4.10	Supports	SH-27	348-1	VT	VT-101	CS	
B4.10	Supports	R-26	348-1	VT	VT-101	CS	
B4.10	Supports	R-25	348-1	VT	VT-101	CS	
B4.10	Supports	HSS-10	348-1	VT	VT-101	CS	
B4.10	Supports	HSS-9	348-1	VT	VT-101	CS	
B4.10	Supports	R-24	348-1	VT	VT-101	CS	
B4.10	Supports	HSS-8	348-1	VT	VT-101	CS	
B4.10	Supports	R-23	348-1	VT	VT-101	CS	
B4.10	Supports	HSS-7	348-1	VT	VT-101	CS	
B4.10	Supports	R-22	348-1	VT	VT-101	CS	
B4.10	Supports	R-21	348-1	VT	VT-101	CS	
B4.10	Supports	HSS-5	348-1	VT	VT-101	CS	
B4.10	Supports	HSS-6	348-1	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 1 - SUPPORTS

Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B4.10	Supports	R-20	348-1	VT	VT-101	CS	
B4.10	Supports	SH-53	348-1	VT	VT-101	CS	
B4.10	Supports	R-19	348-1	VT	VT-101	CS	
B4.10	Support	A-17	348-2	VT	VT-101	CS	
B4.10	Supports	R-17A	348-2	VT	VT-101	CS	
B4.10	Supports	SH-15	348-2	VT	VT-101	CS	
B4.10	Supports	R-16	348-2	VT	VT-101	CS	
B4.10	Supports	PSSP-301	350-1	VT	VT-101	CS	
B4.10	Supports	SH-14	348-2	VT	VT-101	CS	
B4.10	Supports	R-3	348-3	VT	VT-101	CS	
B4.10	Supports	R-4	348-3	VT	VT-101	CS	
B4.10	Supports	R-4A	348-3	VT	VT-101	CS	
B4.10	Supports	R-90	348-3	VT	VT-101	CS	
B4.10	Supports	R-6	348-3	VT	VT-101	CS	
B4.10	Supports	A-7	348-4	VT	VT-101	CS	
B4.10	Supports	SH-8	348-4	VT	VT-101	CS	
B4.10	Supports	R-9	348-4	VT	VT-101	CS	
B4.10	Supports	HSS-23	348-4	VT	VT-101	CS	
B4.10	Supports	R-10	348-4	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 1 - SUPPORTS

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B4.10	Supports	R-11	348-4	VT	VT-101	CS	
B4.10	Supports	SH-12	348-4	VT	VT-101	CS	
B4.10	Supports	SH-13	348-4	VT	VT-101	CS	
B4.10	Supports	VS-1	254	VT	VT-101	CS	
B4.10	Supports	CH-PS-3	254	VT	VT-101	CS	
B4.10	Supports	PS-4	254	VT	VT-101	CS	
B4.10	Supports	CH-R-3A	254	VT	VT-101	CS	
B4.10	Supports	PS-2	254	VT	VT-101	CS	
B4.10	Supports	PS-8	254	VT	VT-101	CS	
B4.10	Supports	PS-1	379	VT	VT-101	CS	
B4.10	Supports	PS-4	379	VT	VT-101	CS	
B4.10	Supports	PS-3	379	VT	VT-101	CS	
B4.10	Supports	PS-2	379	VT	VT-101	CS	
B4.10	Supports	R-85	200-3	VT	VT-101	CS	
B4.10	Supports	R-82	200-3	VT	VT-101	CS	
B4.10	Supports	R-71	200-3	VT	VT-101	CS	
B4.10	Supports	R-146	200-3	VT	VT-101	CS	
B4.10	Supports	R-316	200-3	VT	VT-101	CS	
B4.10	Supports	R-318	200-3	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 1 - SUPPORTS

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Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B4.10	Supports	R-319	200-3	VT	VT-101	CS	
B4.10	Supports	R-PS-29	197	VT	VT-101	CS	
B4.10	Supports	R-PS-28	197	VT	VT-101	CS	
B4.10	Supports	R-PS-27	197	VT	VT-101	CS	
B4.10	Supports	R-PS-26	197	VT	VT-101	CS	
B4.10	Supports	R-PS-25	197	VT	VT-101	CS	
B4.10	Supports	PS-24	197	VT	VT-101	CS	
B4.10	Supports	R-PS-23	197	VT	VT-101	CS	
B4.10	Supports	R-PS-22	197	VT	VT-101	CS	
B4.10	Supports	R-PS-21	197	VT	VT-101	CS	
B4.10	Supports	50-PS-20	197	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 1 - BOLTING

Page 1

Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B2.11.1	Pressurizer Bolting	B-11 thru B-16	RCTK1	VT	VT-101	CS	
B3.10.1	S/G Bolting	B-11 thru B-16 & B-27 thru B-32	RCE-12	VT	VT-101	CS	
B4.12.1	Flange Bolting	Between RC-33-1 FW-1 & RC-33-2 FW2	353-1	VT	VT-101	CS	
B4.12.2	Flange Bolting	Between RC-33-1 5 & RC-31-2, 7	353-2	VT	VT-101	CS	
B4.12.3	Flange Bolting	Between RC-34-2 1 & RC-33-1, 3	353-3	VT	VT-101	CS	
B4.12.4	Flange Bolting	Between FW-2 & CH-98-9, 1	248	VT	VT-101	CS	
B5.3.1	RC Pump Flange Bolting	2-B1 thru 2-B24	RCP 1-2	VT	VT-101	CS	'B' Pump
B6.1.1	Loop Stop Valve Bolting	Valve 594	Loop 3-1	VT	VT-101	CS	
B6.1.2	Loop Stop Valve Bolting	Valve 595	Loop 3-1	VT	VT-101	CS	
B6.9.1	Bolting	ISI-50	108-2	VT	VT-101	CS	
B6.9.2	Bolting	ISI-53	108-2	VT	VT-101	CS	
B6.9.3	Bolting	720-B	108-2	VT	VT-101	CS	
B6.9.4	Bolting	1-RC-25	353-1	VT	VT-101	CS	
B6.9.5	Bolting	RC-536	350-1	VT	VT-101	CS	
B6.9.6	Bolting	RC-456	350-1	VT	VT-101	CS	
B6.9.7	Bolting	ISI-83	200-3	VT	VT-101	CS	

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FOURTH REFUELING OUTAGE - CLASS 1 - BOLTING

Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B6.9.8.	Bolting	ISI-84	200-3	VT	VT-101	CS	

FOURTH REFUELING OUTAGE - CLASS 1 - VALVE BODIES

Page 1

Exam Category	Weld, Area or Part	I.D. No.	Sketch	NDT	Procedure	Material	Comments
B6.7.1	Valve Body	RH-701	74-1	VT	VT-101	CS	
B6.7.2	Valve Body	ISI-48	106-1	VT	VT-101	CS	
B6.7.3	Valve Body	RC-587	999-3	VT	VT-101	CS	
B6.7.4	Valve Body	RC-551A	350-2	VT	VT-101	CS	
B6.7.5	Valve Body	ISI-50	108-2	VT	VT-101	CS	
B6.7.6	Valve Body	ISI-53	108-2	VT	VT-101	CS	
B6.7.7	Valve Body	720-B	108-2	VT	VT-101	CS	
B6.7.8	Valve Body	1RC-25	353-1	VT	VT-101	CS	
B6.7.9	Valve Body	RC-536	350-1	VT	VT-101	CS	
B6.7.10	Valve Body	RC-456	350-1	VT	VT-101	CS	
B6.7.11	Valve Body	ISI-83	200-3	VT	VT-101	CS	
B6.7.12	Valve Body	ISI-84	200-3	VT	VT-101	CS	

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This space is reserved for the 1986 outage examination list.

This space is reserved for the 1987 outage examination list.

DLW

10-YEAR PLAN NOTES

Examination Methods Column: Examinations in () are not Code Requirements

Interval columns: X shows examination complete and / shows examinations to be performed. An underlined X, X, is an examination in excess of requirements.

Remarks column: Notes not in () apply to the general Item No.
Notes in () apply to the specific Ident. No.

<u>Note Number</u>	<u>Explanation</u>
1	UT Examined
2	PT Examined
3	MT Examined
4	VT Examined
5	PT supplements volumetric
6	VT during pressure tests
7	UT not feasible; PT substituted
8	Not accessible or physical restrictions or geometric/design/surface conditions limit examinations
9	Examination performed from outside
10	NRC relief - Amendment 22
11	Relief from 100% UT examination
12	Relief from 100% UT examination when pipe supports or hangers restrict access
13	Relief from 100% UT examination: UT base metal
14	Relief from UT examination of seal housing bolts until pump is disassembled or until end of inspection interval
15	Relief from 100% UT of shell-to-tube sheet welds. Examine 10% of one head to shell weld and 10% of one shell-to-tube sheet weld during each 40-month Period. Supplement UT with PT & VT
16	Relief from 100% UT of nozzle to vessel welds. Substitute VT of reinforcement ring areas, UT if welds are accessible during maintenance.
17	Relief from UT examination: substitute PT
18	Relief from UT examination: substitute PT & VT
19	Relief from frequency of UT examination; UT at end of interval if pump not previously disassembled.
20	NRC relief - Amendment 27
21	Examinations performed once in a ten year interval when accessible.
22	Inaccessible for UT; substitute RT
23	FSAR requirement for 1st Interval
24	NRC relief on thin wall stainless steel piping
25	Not a structural discontinuity weld

REACTOR VESSEL

1st Interval

<u>IWB-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
B1.1	Shell welds in core region DLW-1-1100	50% in 3rd Period
B1.2	Circumferential shell welds DLW-1-1100	5% in 3rd Period
	Lower head ring to peel segment circ. weld DLW-1-1100	See REMARKS
	Lower head meridional welds DLW-1-1100	See REMARKS
	Lower head dome weld DLW-1-1100	See REMARKS
	Closure head peel segment meridional welds DLW-1-1300	10% Per Interval
B1.3	Flange to vessel weld DLW-1-1100	33 1/3% ea. Period
	Closure head to flange weld DLW-1-1300	33 1/3% ea. Period
B1.4	Outlet nozzles to shell welds DLW-1-1100	1st Period: 66 2/3%; 100% of weld 2nd Period: 33 1/3%; 100% of weld
	Inlet nozzles to shell welds DLW-1-1100	100% in 3rd Period; 100% of ea. weld
B1.5	Vessel penetrations including control rod drives and instrumentation DLW-1-1300	25% in 3rd Period
B1.6*	Primary outlet nozzles to safe end welds DLW-1-4100, -4200, -4300	1st Period: 66 2/3% 2nd Period: 33 1/3%
	Primary inlet nozzles to safe end welds	1st Period: 66 2/3% 2nd Period: 33 1/3%
B1.7	Closure studs (in place)	Not applicable
B1.8	Closure studs & Nuts (removed) DLW-1-1400	33 1/3% ea. Period
B1.9	Vessel flange ligaments DLW-1-1100	33 1/3% ea. Period
B1.10	Closure stud washers DLW-1-1400	33 1/3% ea. Period
B1.11	Conoseal bolting DLW-1-1300	33 1/3% ea. Period

*Core requirement supplemented by Amendment 27 and 48

REACTOR VESSEL

1st Interval

IWB-2600

<u>ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
B1.12	Integrally welded vessel supports	Not applicable
B1.13	Closure head cladding DLW-1-1300	See REMARKS
B1.14	Vessel cladding patches DLW-1-1250	See REMARKS
B1.15	Vessel interior surfaces and internals DLW-1-1200	As accessible each Period
B1.16	Interior attachments and core support structures	Not applicable
B1.17	Core support structures DLW-1-1200	100% in 3rd Period
B1.18	Control rod drive housing DLW-1-1300	10% of peripheral housing welds in 3rd Period
B1.19	Exempted components	During hydrostatic

REACTOR VESSEL

1st Interval

B1.1 Circumferential shell weld (core region) DLW-1-1100

3rd Period: Examine intermediate to lower shell weld #5 clockwise between vessel axis 0° and 180° (247 inches).*

B1.1 Longitudinal shell welds (core region) DLW-1-1100

3rd Period: Examine intermediate shell welds #3 and #4 from 0" to 51" (0" perpendicular and adjacent to weld #2).*

Examine lower shell welds #6 and #7 from 0" to 51" (0" perpendicular and adjacent to weld #5).*

B1.2 Circumferential shell welds DLW-1-1100

3rd Period: Examine intermediate shell weld #2 and lower head to shell weld #8 a minimum of 24.4" clockwise from vessel axis 0° to 18°.*

B1.2 Lower head welds DLW-1-1100

3rd Period: Lower head ring to peel segment weld #9 is inaccessible.
Examine lower head meridional weld #10 from 0" to 101" (0" ref. is weld #16)
Examine lower head dome weld #16 clockwise from 0" to 13.3" minimum. (0" ref. is weld #10).

B1.2 Closure head peel segment meridional welds DLW-1-1300

1st Period: Examine welds #1, 2, 3, 4 from 0" to 1.3"
2nd Period: Examine welds #1, 2, 3, 4 from 1.3" to 2.6"
3rd Period: Examine welds #1, 2, 3, 4 from 2.6" to 3.9"
0" is adjacent to weld #5

B1.3 Flange to vessel weld #1 DLW-1-1100

1st Period: Examine 163" clockwise from C of stud hole #1 to #19*
2nd Period: Examine 163" clockwise from C of stud holes #18 thru #33 and #56 thru #2
3rd Period: Examine 163" clockwise from C of stud holes #33 thru #56

B1.3 Closure head to flange weld #5 DLW-1-1300

1st Period: Examine 179" clockwise from C of stud holes #38 to #58
2nd Period: Examine 179" clockwise from C of stud holes #18 thru #33 and #56 thru #2
3rd Period: Examine 179" clockwise from C of stud holes #2 thru #18 and #33 thru #38

REACTOR VESSEL

1st Interval

- B1.4 Outlet nozzles to shell welds and inside radiused sections DLW-1-1100
 1st Period: Examine welds #18 and 20*
 2nd Period: Examine weld #22*
- B1.4 Inlet nozzles to shell welds DLW-1-1100
 3rd Period: Examine welds #17, 19 and 21*
- B1.5 Vessel penetrations, including control rod drive and instrumentation penetrations.
 3rd Period: Examine 25% of penetrations
- B1.6 Outlet nozzles to safe end welds
 1st Period: UT examine welds #1DM (#DLW-1-4100, -4200, -4300). Performed in conjunction with B1.4* From nozzle O.D., UT examine welds #1DM (DLW-1-4100, -4300) and PT examine welds #1DM (DLW-1-4100, -4200, -4300).
 2nd Period: UT examine welds #1DM (DLW-1-4100, -4200, -4300). Performed in conjunction with B1.4* From nozzle O.D., UT examine welds #1DM (DLW-1-4100, -4200, -4300) and PT examine welds #1DM (DLW-1-4100, -4200, -4300).
- B1.6 Inlet nozzles to safe end welds
 1st Period: From nozzle O.D., UT examine welds #16DM (DLW-1-4100, -4200, -4300) and PT examine welds #16DM (DLW-1-4100, -4200, -4300).
 2nd Period: From nozzle O.D. UT examine welds #16DM (DLW-1-4100, -4200, -4300) and PT examine welds #16DM (DLW-1-4100, -4200, -4300).
 3rd Period: UT examine welds #16DM (DLW-1-4100, -4200, -4300). Performed in conjunction with B1.4*
- B1.8 Closure studs and nuts DLW-1-1400
 1st Period: Examine from positions #1 thru #19
 2nd Period: Examine from positions #20 thru #38
 3rd Period: Examine from positions #39 thru #58
- B1.9 Vessel flange ligaments DLW-1-1100
 1st Period: Examine from G of stud #8 - #13 & #40 - #52
 2nd Period: Examine from G of stud #18 thru #33 and #56 thru #2
 3rd Period: Examine from G of stud #1 - #7, #14 - #18, #53 - #58
- B1.10 Closure head washers DLW-1-1400
 Period examinations are the same as for B1.8

REACTOR VESSEL

1st Interval

B1.11 Conoseal bolting DLW-1-1300

1st Period: Examine assemblies at locations 47 and 53

2nd Period: Examine assembly at location 49

3rd Period: Examine assembly at location 51

B1.13 Closure head cladding DLW-1-1300

3rd Period: Examine CP-1 thru CP-6

B1.14 Vessel cladding patches DLW-1-1250

3rd Period: Examine CP-1, -2, -6, -7, -9, -10

B1.15 Vessel interior surfaces and internals DLW-1-1200

1st Period: Examine internals using underwater camera

2nd Period: Examine internals using underwater camera

3rd Period: Examine internals using underwater camera

B1.17 Core support structures DLW-1-1200

3rd Period: Examine in conjunction with core barrel removal

B1.18 Control rod drive housing DLW-1-1300

3rd Period: Examine 3 accessible drive housing welds between vessel axis 0° and 90°

*Examinations performed using the reactor vessel remote inspection tool.

COMPONENT: REACTOR VESSEL

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																			
B1.1	B-A	1-1100	3 4 5 6 7	X X X X X		/	/	/	/	/	/	/	/	/	/	/	/			
B1.2	B-B	1-1100	2 / 8 9* 10* 11* 12* 13* 14* 15* 16*	X X X X X X X X X X X	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	/	/	/											(Notes 8,10,9,6 for welds 9-16. UT examine 60% of 1 meridional weld & 5% of circum. weld.)	
B1.2	B-B	1-1300	1 2 3 4 6	X X X X X		X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X		(Note 8,10,6)	
																				Rev. 2

*Visual examination during pressure tests

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COMPONENT:		RFACOR VESSEL										REMARKS										
ITEM NO.	7SS	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL					
			SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST		2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
B1.3		B-C	1-1100	1	X			X	X	/												
B1.3		B-C	1-1300	5	X			X	X	/												
B1.4		B-D	1-1100	17	X			X	X	/												
				18	X			X	X	/												
				19	X			X	X	/												
				20	X			X	X	/												
				21	X			X	X	/												
				22	X			X	X	/												
B1.5		B-E	--	--						X												Notes 8, 6
B1.6		B-F	1-4100	1 (DM)	X			X	X	/												
				16 (DM)	X			X	X	/												
				1 (DM)	X			X	X	/												
				16 (DM)	X			X	X	/												
				1 (DM)	X			X	X	/												
				16 (DM)	X			X	X	/												
B1.7		B-G-1	--	--	X																	Not Applicable Studs removed each refueling

COMPONENT: REACTOR VESSEL/CLOSURE STUDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B1.8	B-6-1	1-1400	Stud 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: REACTOR VESSEL/CLOSURE STUDS																						
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS				
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD			
75S	75S																					
B1.8	B-6-1	1-1400	Stud 25	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			26	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			27	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			28	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			29	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			30	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			31	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			32	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			33	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			34	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			35	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			36	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			37	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			38	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			39	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			40	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			41	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			42	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			43	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			44	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			45	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			46	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			47	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			48	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: REACTOR VESSEL/CLOSURE STUDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.		VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755			X	X												
B1.8	B-G-1	1-1400	Stud 49	X	X	/	/	/	/	/	/	/	/	/	/	/	
			50	X	X	/	/	/	/	/	/	/	/	/	/	/	
			51	X	X	/	/	/	/	/	/	/	/	/	/	/	
			52	X	X	/	/	/	/	/	/	/	/	/	/	/	
			53	X	X	/	/	/	/	/	/	/	/	/	/	/	
			54	X	X	/	/	/	/	/	/	/	/	/	/	/	
			55	X	X	/	/	/	/	/	/	/	/	/	/	/	
			56	X	X	/	/	/	/	/	/	/	/	/	/	/	
			57	X	X	/	/	/	/	/	/	/	/	/	/	/	
			58	X	X	/	/	/	/	/	/	/	/	/	/	/	

COMPONENT: REACTOR VESSEL/CLOSURE NUTS																						
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS				
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD			
755	755																					
B1.8	B-G-1	1-1400	Nut 1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			9	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			10	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			11	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			12	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			13	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			14	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			15	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			16	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			21	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: REACTOR VESSEL/CLOSURE NUTS

ITEM NO.	CATEGORY NO.	DLW	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
			SKETCH NO.	IDENT. NO.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755				VOL. SUR. VIS.														
B1.8	B-G-1	1-1400	Nut 25		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			26		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			27		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			28		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			29		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			30		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			31		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			32		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			33		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			34		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			35		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			36		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			37		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			38		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			39		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			40		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			41		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			42		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			43		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			44		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			45		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			46		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			47		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			48		X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: REACTOR VESSEL/CLOSURE NUTS																				
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	755																			
B1.8	B-G-1	1-1400	Nut 49	X	X	X	/													
			50	X	X	X	/													
			51	X	X	X	/													
			52	X	X	X	/													
			53	X	X	X	/													
			54	X	X	X	/													
			55	X	X	X	/													
			56	X	X	X	/													
			57	X	X	X	/													
			58	X	X	X	/													

COMPONENT:		REACTOR VESSEL/LIGAMENTS																		
ITEM NO.	CATEGORY NO.	DLW	SKETCH NO.	IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
					VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																			
B1.9	B-G-1		1-1100	Lig. 1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
				2	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
				3	X		/	/	/	/	/	/	/	/	/	/	/	/	/	
				4	X		/	/	/	/	/	/	/	/	/	/	/	/	/	
				5	X		/	/	/	/	/	/	/	/	/	/	/	/	/	
				6	X		/	/	/	/	/	/	/	/	/	/	/	/	/	
				7	X		/	/	/	/	/	/	/	/	/	/	/	/	/	
				8	X															
				9	X															
				10	X															
				11	X															
				12	X															
				13	X															
				14	X															
				15	X															
				16	X															
				17	X															
				18	X															
				19	X															
				20	X															
				21	X															
				22	X															
				23	X															
				24	X															

COMPONENT: REACTOR VESSEL/LIGAMENTS																				
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL.	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	755																			
B1.9	B-G-1	1-1100	Lig. 25	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			26	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			27	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			28	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			29	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			30	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			31	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			32	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			33	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			34	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			35	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			36	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			37	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			38	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			39	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			40	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			41	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			42	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			43	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			44	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			45	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			46	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			47	X			X	X	X	X	X	X	X	X	X	X	X	X	X	
			48	X			X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: REACTOR VESSEL/LIGAMENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL		REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																	
B1.9	B-G-1	J-1100	Lig. 49	X		X		X		X		X		X		X		
			50	X		X		X		X		X		X		X		
			51	X		X		X		X		X		X		X		
			52	X		X		X		X		X		X		X		
			53	X		X		X		X		X		X		X		
			54	X		X		X		X		X		X		X		
			55	X		X		X		X		X		X		X		
			56	X		X		X		X		X		X		X		
			57	X		X		X		X		X		X		X		
			58	X		X		X		X		X		X		X		

COMPONENT: REACTOR VESSEL/CLOSURE WASHERS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																		
B1.10	B-G-1	1-1400	Washer 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

COMPONENT: REACTOR VESSEL/CLOSURE WASHERS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
B1.10	B-G-1	1-1400	Washer 25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

COMPONENT: REACTOR VESSEL/CLOSURE WASHERS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
B1.10	B-G-1	1-1400	Washer 49	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			50	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			51	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			52	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			53	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			54	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			55	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			56	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			57	X	X	/	/	/	/	/	/	/	/	/	/	/	/	
			58	X	X	/	/	/	/	/	/	/	/	/	/	/	/	

COMPONENT: CONOSEAL BOLTING/PRESSURE RETAINING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
B1.11	B-G-2	1-1300	Pent. 47 Pent. 49 Pent. 51 Pent. 53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT:		REACTOR VESSEL															
ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
				VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST		2ND
75S	75S																
B1.12	B-H	--															
B1.13	B-I-1	1-1300	X	X	/	/	/	/	/	/	/	/	/	/	/	/	Not Applicable For B1.13 Notes 20, 21
B1.14	B-I-1	1-1250	X	X	/	/	/	/	/	/	/	/	/	/	/	/	For B1.14 Notes 20, 21
B1.15	B-N-1	1-1200	X	X	/	/	/	/	/	/	/	/	/	/	/	/	As Accessible
B1.16	B-N-2	--	X	X	/	/	/	/	/	/	/	/	/	/	/	/	Not Applicable
B1.17	B-N-3	1-1200	X	X	/	/	/	/	/	/	/	/	/	/	/	/	Examine Accessible Welds
B1.18	B-0	1-1300	X	X	/	/	/	/	/	/	/	/	/	/	/	/	During Hydrostatic
B1.19	B-P	--	X	X	/	/	/	/	/	/	/	/	/	/	/	/	Rev. 2
TYPP-1																	

PRESSURIZER

1st Interval

B2.1

Circumferential Welds

- 1st Period: Examine 5.0" of welds #5 & #7 clockwise from 0 ref. (adjacent weld #3)
Examine 5.0" of welds #4 & #5 clockwise from 0 ref. (adjacent weld #1)
- 2nd Period: Examine 5.0" of welds #6 & #7 clockwise from 5" to 10" from 0 ref. (adjacent weld #3)
Examine 5.0" of welds #4 & #5 clockwise from 5" to 10" from 0 ref. (adjacent weld #1)
- 3rd Period: Examine 5.0" of welds #6 & #7 clockwise from 10" to 15" from 0 ref. (adjacent weld #3)
Examine 5.0" of welds #4 & #5 clockwise from 10" to 15" from 0 ref. (adjacent weld #1)

B2.1

Longitudinal Welds

- 1st Period: Examine 5.0" of welds #1 & #2 from 0 ref. (adjacent weld #5)
Examine 5.0" of weld #3 from 0 ref. (adjacent weld #7)
- 2nd Period: Examine 5.0" of weld #1 from 5" to 10" from 0 ref. (adjacent weld #5)
Examine 5.0" of weld #2 from 15" to 20" from 0 ref. (adjacent weld #7)
Examine 5.0" of weld #3 from 31" to 36" from 0 ref. (adjacent weld #7)
- 3rd Period: Examine 5.0" of weld #1 & #2 from 10" to 15" from 0 ref. (adjacent weld #5)
Examine 5.0" of weld #3 from 10" to 15" from 0 ref. (adjacent weld #7)

B2.2

Nozzle to vessel radiused sections

- 2nd Period: Examine Inside Radii #2, 3 and 4
3rd Period: Examine Inside Radii #1 and 5

B2.4

Nozzle to safe end welds

- 1st Period: Examine 9(DM) DLW-1-4500
2nd Period: Examine 1(DM), 10(DM), 19(DM) DLW-1-4501
3rd Period: Examine 1(DM) DLW-1-4502

PRESSURIZER

1st Interval

- B2.8 Support skirt weld #8 DLW-1-2100
1st Period: Examine 9.5" min. from 0" to 9.5" clockwise
2nd Period: Examine 9.5" min. from 10" to 20" clockwise
3rd Period: Examine 9.5" min. from 20" to 30" clockwise (Ref. 0" below and adjacent weld #1)
- B2.9 Vessel cladding
3rd Period: Examine CP-1
- B2.11 Pressure retaining bolting
1st Period: Examine bolts B-1 thru B-5
2nd Period: Examine bolts B-6 thru B-10
3rd Period: Examine bolts B-11 thru B-16

STEAM GENERATORS DLW-1-3100

1st Interval

<u>IWB-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
B3.1	Channel head to tube sheet welds	1.67% of each generator in each Period
B3.2	Nozzle to head inside radiused sections	See REMARKS - 33 1/3% ea. Period
B3.3	Nozzle to safe end welds	33 1/3% each Period; 100% of weld
B3.4	Pressure retaining bolts and studs (in place)	Not applicable
B3.5	Pressure retaining bolts and studs (removed)	Not applicable
B3.6	Pressure retaining bolting	Not applicable
B3.7	Integrally welded vessel support	Not applicable
B3.8	Vessel cladding	See REMARKS
B3.9	Exempted components	During hydrostatic
B3.10	Pressure retaining bolting	33 1/3% each Period

STEAM GENERATORS

1st Interval

B3.1 Channel head to tube sheet welds

- 1st Period: Examine 7.5" of welds 1-1, 2-1 & 3-1 clockwise from 0" to 7.5"
 2nd Period: Examine 7.5" of welds 1-1, 2-1 & 3-1 clockwise from 7.5" to 15"
 3rd Period: Examine 7.5" of welds 1-1, 2-1 & 3-1 clockwise from 15" to 22.5"
 0" top ζ of hot leg manway

B3.2 Nozzle to head inside radiused sections

The availability for examinations in any Period depends on the removal of the manway covers. Direct visual examination is possible depending on radiation levels. Examine 2" crown band around radius circumference.

B3.3 Nozzle to safe ends

- 1st Period: Examine 4(DM), 5(DM) DLW-1-4100
 2nd Period: Examine 4(DM), 5(DM) DLW-1-4200
 3rd Period: Examine 4(DM), 5(DM) DLW-1-4300

B3.8 Vessel cladding

- 3rd Period: Examine CP-1 thru CP-6

B3.10 Pressure retaining bolting - hot leg side

- 1st Period: Examine bolts from positions 1 thru 5
 2nd Period: Examine bolts from positions 6 thru 10
 3rd Period: Examine bolts from positions 11 thru 16

Pressure retaining bolting - cold leg side

- 1st Period: Examine bolts from positions 17 thru 21
 2nd Period: Examine bolts from positions 22 thru 26
 3rd Period: Examine bolts from positions 27 thru 32

COMPONENT: STEAM GENERATORS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B3.1	B-B	1-3100	1-1 2-1 3-1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
B3.2	B-D	1-3100	Radius 1H Radius 1C Radius 2H Radius 2C Radius 3H Radius 3C	X	(X)	X	X	X	X	X	X	X	X	X	X	X	X	X	Note 10 Examine @ radiused sections
B3.3	B-F	1-4100 1-4200 1-4300	4(DM) 5(DM) 4(DM) 5(DM) 4(DM) 5(DM)	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
B3.4	B-G-1	--	--	X		X	X	X	X	X	X	X	X	X	X	X	X	X	Not Applicable
B3.5	B-G-1	--	--	X		X	X	X	X	X	X	X	X	X	X	X	X	X	Not Applicable
B3.6	B-G-1	--	--	X		X	X	X	X	X	X	X	X	X	X	X	X	X	Not Applicable
B3.7	B-H	--	--	X		X	X	X	X	X	X	X	X	X	X	X	X	X	Not Applicable

COMPONENT: STEAM GENERATORS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B3.8	B-I-2	1-3100	CP-1 CP-2 CP-3 CP-4 CP-5 CP-6	X X X X X X	X X X X X X	/	/	/	/	/	/							For B3.8 Notes 20, 21	
B3.9	B-P	--	--		X													During Hydrostatic	
																			Rev. 2

COMPONENT: STEAM GENERATOR/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755		VOL. SUR. VIS.	X	X	X	X	X	X	X	X	X	X	X	X	
B3.10	B-6-2	1-3100		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B1		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B2		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B3		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B4		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B5		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B6		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B7		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B8		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B9		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B10		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B11		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B12		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B13		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B14		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B15		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B16		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B17		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B18		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B19		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B20		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B21		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B22		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B23		X	X	X	X	X	X	X	X	X	X	X	X	
		1-B24		X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: STEAM GENERATOR/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B3.10	B-G-2	1-3100	1-B25 1-B26 1-B27 1-B28 1-B29 1-B30 1-B31 1-B32	X X X X X X X X			X X X X X X X X	X X X X X X X X	X X X X X X X X										

COMPONENT: STEAM GENERATOR/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B3.10	B-G-2	1-3100	2-B1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-B24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: STEAM GENERATOR/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																			
B3.10	B-G-2	1-3100	2-B25 2-B26 2-B27 2-B28 2-B29 2-B30 2-B31 2-B32	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X		

COMPONENT: STEAM GENERATOR/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B3.10	B-G-2	1-3100	3-B1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: STEAM GENERATOR/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B3.10	B-G-2	1-3100	3-B25 3-B26 3-B27 3-B28 3-B29 3-B30 3-B31 3-B32	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	

PIPING
1st Interval

<u>IWB-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
B4.1	Safe-end to piping welds Safe-end in branch piping welds	All Class 1 welds
B4.2	Pressure retaining bolts & studs, in place	Bolting 2" and larger in diameter
B4.3	Pressure retaining bolts & studs, when removed	Bolting 2" and larger in diameter
B4.4	Pressure retaining bolting	Bolting 2" and larger in diameter
B4.5	Circumferential & longitudinal pipe welds	25% of total number of circumferential welds
B4.6	Branch pipe connection welds over 6" diameter	25% of total number of branch welds
B4.7	Branch pipe connection welds 6" diameter and smaller	25% of total number of branch welds
B4.8	Socket welds	25% of total number of socket welds
B4.9	Integrally welded supports	25% of all welded supports
B4.10	Support components	All support components
B4.11	Exempted components	All components during pressure tests
B4.12	Pressure retaining bolting	Bolting smaller than 2" diameter

COMPONENT: SAFE-END CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																		
B4.1	B-F	1-4100	1 (DM) 4 (DM) 5 (DM) 16 (DM)	X X X X	X X X X		X X X X		X X X X										For B4.1 Notes 8,10,11 All welds examined in conjunction with nozzle to safe end welds in B1.6,B2.4 & B3.3 P/T only 1st Pd.
B4.1	B-F	1-4200	1 (DM) 4 (DM) 5 (DM) 16 (DM)	X X X X	X X X X		X X X X		X X X X										
B4.1	B-F	1-4300	1 (DM) 4 (DM) 5 (DM) 16 (DM)	X X X X	X X X X		X X X X		X X X X										
B4.1	B-F	1-4500	9 (DM)	X	X		X		X										
B4.1	B-F	1-4501	1 (DM) 10 (DM) 19 (DM)	X X X	X X X		X X X		X X X										
B4.1	B-F	1-4502	1 (DM)	X	X		X		X										
B4.1	B-F	1-4504	52 (DM)	X	X		X		X										

COMPONENT: PRESSURE - RETAINING BOLTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																			
B4.2	B-G-1	--	--	X																Not Applicable
B4.3	B-G-1	--	--	X	X															Not Applicable
B4.4	B-G-1	--	--			X														Not Applicable

COMPONENT: REACTOR COOLANT CIRCUMFERENTIAL/LONGITUDINAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL		REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																	
B4.5	B-J	1-4100	2	X	(X)													(Notes 10,5)
			3	X	(X)													"
			6	X	(X)			X										"
			7	X	(X)			X										"
			8	X	(X)													"
			9	X	(X)													"
			10	X	(X)													"
			11	X	(X)													"
			12	X	(X)													"
			13	X	(X)													"
			14	X	(X)													"
			15	X	(X)													"
			17	X	(X)				(X)									(Notes 10,7,6)
			18	X	(X)				(X)									(Notes 10,7,6)
			19	X	(X)				(X)									"
			20	X	(X)				(X)									"
B4.5	B-J	1-4200	2	X	(X)													(Notes 10,5)
			3	X	(X)													(Notes 10,5)
			6	X	(X)													(Notes 10,5)
			7	X	(X)													(Notes 10,5)
			8	X	(X)												X	(Notes 10,5)
			9	X	(X)												X	(Notes 10,5)
			10	X	(X)													(Notes 10,5)
			11	X	(X)													(Notes 10,5)

COMPONENT:		REACTOR COOLANT CIRCUMFERENTIAL/LONGITUDINAL WELDS													
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL		SECOND INTERVAL		THIRD INTERVAL		FOURTH INTERVAL		REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	
755	755														
B4.5	B-J	1-4200	12	X	(X)										(Notes 10,5)
			13	X	(X)										(Notes 10,5)
			14	X	(X)										(Notes 10,5)
			15	X	(X)										(Notes 10,5)
			17	X	(X)	(X)									(Notes 10,7,6)
			18	X	(X)	(X)									"
			19	X	(X)	(X)									"
			20	X	(X)	(X)									"
B4.5	B-J	1-4300	2	X	(X)			X							(Notes 10,5)
			3	X	(X)										(Notes 10,5)
			6	X	(X)										"
			7	X	(X)										"
			8	X	(X)										"
			9	X	(X)										"
			10	X	(X)										"
			11	X	(X)										"
			12	X	(X)										"
			13	X	(X)										"
			14	X	(X)										"
			15	X	(X)										"
			17	X	(X)	(X)									(Notes 10,7,6)
			18	X	(X)	(X)									"
			19	X	(X)	(X)									"
			20	X	(X)	(X)									"
															Rev 2

COMPONENT: 14" CIRCUMFERENTIAL WELDS																		
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL		REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																	
B4.5	B-J	1-4101	2 3 4 5 6 7 8 9 10 11 12 13	X X X X X X X X X X X X		X /												For B4.5 Notes 10,12,5
B4.5	B-J	1-4500	2 3 4 5 6 7* 8	X X X X X X X		X												
*Doesn't include pipe to safe end weld scheduled in B4.1																		
TYPP-1																		

COMPONENT: 12" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B4.5	B-J	1-4201	7	X		X													For B4.5 Notes 10,12,5
			8	X	(X)	X													
			9	X		X													
			10	X		X													
			11	X		X													
			12	X		X													
			13	X		X													
			14	X		X													
			15	X		X													
			16	X		X													
			17	X		X													
			18	X		X													
			19	X		X													
			20	X		X													
			21	X		X													
			22	X		X													
			23	X		X													
			24	X		X													
			25	X		X													
			26	X		X													
			27	X		X													
			28	X		X													
			29	X		X													
			30	X		X													

COMPONENT: 12" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
B4.5	B-J	1-4201	31 32 33	X X X															For B4.5 Notes 10,12,5

COMPONENT: 10" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW	SKETCH NO.	IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
					VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																			
B4.5	B-J		1-4201	1 2 3 4 5 6	X X X X X X	(X)	X												(Notes 8,10,11,5)	
B4.5	B-J		1-4301	1 2 3 4 5 6 7 8	X X X X X X X X	(X) (X)		X X											For B4.5 Notes 10,12,5	
																				(Notes 8,10,11,5)

COMPONENT: .8" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.5	B-J	1-4302	6 7	X X		/												For B4.5 Notes 10,12,5

COMPONENT: 6" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		75S	B-J	SKETCH NO.	IDENT. NO.	VOL	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
B4.5	B-J			1-4104	3	X												For B4.5 Notes 10,12,5
					4	X												
					5	X												
					6	X												
					7	X	(X)											
					8	X												
					9	X												
					10	X												
					11	X												
					12	X												
					13	X												
					14	X												
					15	X												
					16	X												
					17	X												
B4.5	B-J			1-4105	1	X												
					2	X												
					3	X												
					4	X												
					5	X												
					6	X												

COMPONENT: 6" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																		
B4.5	B-J	1-4105	7	X															For B4.5 Notes 10,12,5
			8	X															
			9	X															
			10	X															
			11	X															
			12	X															
			13	X															
			14	X															
			15	X															
			16	X															
			17	X															
			18	X															
			19	X															
			20	X															
			21	X															
			22	X															
			23	X															
			24	X															
			25	X															
			26	X															
B4.5	B-J	1-4203	3	X															

(Notes 8,10,11,5)

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COMPONENT: 6" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B4.5	B-J	1-4303	5	X															For B4.5 Notes 10,12,5
			6	X															
			7	X															
			8	X															
			9	X															
			10	X															
			11	X															
			12	X															
			13	X															
			14	X															
			15	X															
			16	X															
			17	X															
			18	X															
			19	X					(X)										
			20	X					(X)										
			21	X					(X)										
			22	X					(X)										
			23	X					(X)										
			24	X					(X)										
B4.5	B-J	1-4304	1	X															

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COMPONENT: 6" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B4.5	B-J	1-4304	2	X	(X)														For B4.5 Notes 10,12,5
			3	X	(X)														
			4	X	(X)														
			5	X	(X)														
			6	X	(X)														
			7	X	(X)														
			8	X	(X)														
			9	X	(X)														
			10	X	(X)														
			11	X	(X)														
			12	X	(X)														
			13	X	(X)														
			14	X	(X)														
			15	X	(X)														
			16	X	(X)														
			17	X	(X)														
			18	X	(X)														
			19	X	(X)														
B4.5	B-J	1-4501	2	X															
			3	X															
			4	X															

COMPONENT: 6" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.5	B-J	1-4501*	5	X		X		X										For B4.5 Notes 10,12,5
			6	X														(Notes 8,10,11,5)
			7	X														
			8	X (X)														
			9	X														
			11	X														
			12	X														
			13	X														
			14	X														
			15	X														
			16	X														
			17	X														
			18	X														
			20	X														
			21	X														
			22	X														
			23	X														
			24	X														
			25	X														
			26	X (X)														
			27	X														
*The total 24 welds do not include pipe to safe end welds in B 4.1																		
TYPP-1																		
Page B4-20																		
Rev. 2																		

COMPONENT: 4" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																		
B4.5	B-J	1-4504	2	X		X		X											For B4.5 Notes 10,12,5
			3	X		X		X											
			4	X		X		X											
			5	X		X		X											
			6	X		X		X											
			7	X		X		X											
			8	X		X		X											
			9	X		X		X											
			10	X		X		X											
			11	X		X		X											
			12	X		X		X											
			13	X		X		X											
			14	X		X		X											
			15	X		X		X											
			16	X		X		X											
			17	X		X		X											
			18	X		X		X											
			19	X		X		X											
			20	X		X		X											
			21	X		X		X											
			22	X		X		X											
			23	X		X		X											
			24	X		X		X											
			25	X		X		X											
			26	X		X		X											
			27	X		X		X											
			28	X		X		X											

COMPONENT: 4" CIRCUMFERENTIAL WELDS																		
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.5	B-J	1-4504*	29	X														For B4.5 Notes 10,12,5
			30	X														
			31	X														
			32	X														
			33	X	(X)					X								(Notes 8,10,11,5)
			34	X														
			35	X														
			36	X	(X)					X								(Notes 8,10,11,5)
			37	X														
			38	X														
			39	X														
			40	X														
			41	X														
			42	X														
			43	X														
			44	X														
			45	X														
			46	X														
			47	X	(X)													
			48	X	(X)													
			49	X	(X)													
			50	X	(X)													
			51	X	(X)													
*The total 50 welds do not include pipe to safe end welds in B																		

03
02

COMPONENT: 3" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
B4.5	B-J	1-4106	1	X		X												For B4.5 Notes 10,12,5
			2	X		X												
			3	X		X												
			4	X		X												
			5	X		X												
			6	X		X												
			7	X		X												
			8	X		X												
			9	X		X												
			10	X		X												
			11	X		X												
			12	X		(X)												(Notes 8,10,11,5)
			13	X		X												
			14	X		X												
B4.5	B-J	1-4205	1	X														
			2	X														
			3	X														
			4	X														
			5	X														
			6	X														
			7	X														

COMPONENT: 3" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755			VOL. SUR. VIS.	•	•	•	•	•	•	•	•	•	•	•	•	•	
B4.5	B-J	1-4205	8	X	•	•	•	•	•	•	•	•	•	•	•	•	•	For B4.5 Notes 10,12,5
			9	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			10	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			11	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			12	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			13	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			14	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			15	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			16	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			17	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			18	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			19	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			20	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			21	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			22	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			23	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			24	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			25	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
B4.5	B-J	1-4206	1	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			2	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
			3	X	•	•	•	•	•	•	•	•	•	•	•	•	•	
TYP-1																		

COMPONENT: 3" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B4.5	B-J	1-4206	4	X		X		X											For B4.5 Notes 10,12,5
			5	X		X													
			6	X		X													
			7	X		X													
			8	X		X													
			9	X		X													
			10	X		X													
			11	X		X													
			12	X		X		(X)											(Notes 8,10,11,5)
			13	X		X													
			14	X		X													
B4.5	B-J	1-4305	1	X		X													
			2	X		X													
			3	X		X													
			4	X		X													
			5	X		X													
			6	X		X													
			7	X		X													
			8	X		X													
			9	X		X													
			10	X		X													

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03

COMPONENT: 3" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.5	B-J	1-4305	11 12 13 14	X X X X	(X)	/	/	/	/									For B4.5 Notes 10,12,5 (Notes 8,10,11,5)
B4.5	B-J	1-4502	14 15 16 17 18 19 20 21 *22 *23 24 25 26 27 *28 *29	X X X X X X X X X X X X X X X X	(X)	/	/	X X X										(Notes 8,10,11,5)

*The baseline examination of the welds was performed after the replacement of pressurizer relief valves MOV-RC-535 and 536.

COMPONENT: 3" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B4.5	B-J	1-4502	30 31 32 33 34	X X X X X															For B4.5 Notes 10,12,5
B4.5	B-J	1-4600	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	X X X X X X X X X X X X X X X X X				/	/	/	/								

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COMPONENT: 3" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B4.5	B-J	1-4600	18	X															For B4.5 Notes 10,12,5
			19	X															
			20	X															
			21	X															
			22	X															
			23	X															
			24	X															
			25	X															
			26	X															
			27	X															

COMPONENT: 2" & 1 1/2" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD			
755																				
B4.5	B-J	1-4102	9 (BW)	X																For B4.5 Notes 10,12,5
B4.5	B-J	1-4104	2 (BW)	X				X												
B4.5	B-J	1-4107	1 (BW)	X																
B4.5	B-J	1-4108	25 (BW)	X																
B4.5	B-J	1-4109	30 (BW)	X																
B4.5	B-J	1-4112	2 (BW)	X																
B4.5	B-J	1-4203	2 (BW)	X																
B4.5	B-J	1-4207	1 (BW)	X																
B4.5	B-J	1-4208	25 (BW)	X																
B4.5	B-J	1-4209	30 (BW)	X																
B4.5	B-J	1-4211	2 (BW)	X																
B4.5	B-J	1-4303	2 (BW)	X																

(Note 8)

COMPONENT: 2" & 1 1/2" CIRCUMFERENTIAL WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL	SIJR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD			
B4.5	75S																				
B4.5	B-J	1-4306	1 (BW)	X																	For B4.5 Notes 10,12,5
B4.5	B-J	1-4307	25 (BW)	X																	
B4.5	B-J	1-4308	30 (BW)	X																	
B4.5	B-J	1-4310	2 (BW)	X																	
B4.5	B-J	1-4506	13 (BW) 14 (BW) 1 1/2" Piping	X						X											
B4.5	B-J			X																	

COMPONENT: BRANCH PIPE CONNECTION WELDS EXCEEDING 6-INCH DIAMETER

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																			
B4.6	B-J	1-4101	1 (BC)	X	(X)															For B4.6 Notes 8,10,5
B4.6	B-J	1-4102	8 (BC)	X	(X)															
			24 (BC)	X	(X)															
B4.6	B-J	1-4201	34 (BC)	X	(X)					X										
B4.6	B-J	1-4301	30 (BC)	X	(X)															
B4.6	B-J	1-4500	1 (BC)	X	(X)															
TYP-1																				

COMPONENT: BRANCH PIPE CONNECTION WELDS 6-INCH DIAMETER AND SMALLER

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.7	B-J	1-4104	18 (BC)	X		X												
B4.7	B-J	1-4105	27 (BC)	X														
B4.7	B-J	1-4106	15 (BC)	X														
B4.7	B-J	1-4107	17 (BC)	X														
B4.7	B-J	1-4108	1 (BC)	X														
B4.7	B-J	1-4109	1 (BC) 4 (BC) 11 (BC)	X X X														
B4.7	B-J	1-4110	1 (BC)	X														
B4.7	B-J	1-4111	34 (BC)	X														
B4.7	B-J	1-4112	1 (BC) 21 (BC)	X X														
B4.7	B-J	1-4203	22 (BC)	X														

COMPONENT: BRANCH PIPE CONNECTION WELDS 6-INCH DIAMETER AND SMALLER

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.7	B-J	1-4204	22 (BC)	X		X												
B4.7	B-J	1-4205	26 (BC)	X		X												
B4.7	B-J	1-4206	15 (BC)	X		X												
B4.7	B-J	1-4207	25 (BC)	X		X												
B4.7	B-J	1-4208	1 (BC)	X		X												
B4.7	B-J	1-4209	1 (BC) 4 (BC) 11 (BC)	X X X		X X X												
B4.7	B-J	1-4210	27 (BC)	X		X												
B4.7	B-J	1-4211	1 (BC) 23 (BC)	X X		X X												
B4.7	B-J	1-4303	25 (BC)	X		X												
B4.7	B-J	1-4304	20 (BC)	X		X												

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COMPONENT:		BRANCH PIPE CONNECTION WELDS 6-INCH DIAMETER AND SMALLER																			
ITEM NO.		CATEGORY NO.		DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
755		755		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
									•	•	•	•	•	•	•	•	•	•	•	•	
B4.7		B-J		1-4305	15 (BC)		X														
B4.7		B-J		1-4306	29 (BC)		X														
B4.7		B-J		1-4307	1 (BC)		X														
B4.7		B-J		1-4308	1 (BC)		X														
					4 (BC)		X														
					11 (BC)		X														
B4.7		B-J		1-4309	26 (BC)		X			X											
B4.7		B-J		1-4310	1 (BC)		X														
					21 (BC)		X														
B4.7		B-J		1-4503	1 (BC)		X		X												
B4.7		B-J		1-4504	1 (BC)		X			X											
B4.7		B-J		1-4505	24 (BC)		X				X										
B4.7		B-J		1-4506	1 (BC)		X				/										

COMPONENT: BRANCH CONNECTION WELDS 6-INCH DIAMETER AND SMALLER

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.		VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																
B4.7	B-J	1-4603	1(BC) 18(BC) 19(BC) 36(BC) 37(BC) 54(BC)	X X X X X X													

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
75S	75S																			
B4.8	B-J	1-4104	1	X				X												
B4.8	B-J	1-4107	2	X				X												
			3	X				X												
			4	X				X												
			5	X				X												
			6	X				X												
			7	X				X												
			8	X				X												
			9	X				X												
			10	X				X												
			11	X				X												
			12	X				X												
			13	X				X												
			14	X				X												
			15	X				X												
			16	X				X												
B4.8	B-J	1-4108	2	X				X												
			3	X				X												
			4	X				X												
			5	X				X												
			6	X				X												
			7	X				X												
			8	X				X												

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
			VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																	
B4.8	B-J	1-4108			X	X	X	X	X	X	X	X	X	X	X	X	X	
			9															
			10															
			11															
			12															
			13															
			14															
			15							X	X	X	X	X	X	X		
			16							X	X	X	X	X	X	X		
			17							X	X	X	X	X	X	X		
			18							X	X	X	X	X	X	X		
			19							X	X	X	X	X	X	X		
			20							X	X	X	X	X	X	X		
			21							X	X	X	X	X	X	X		
			22							X	X	X	X	X	X	X		
			23							X	X	X	X	X	X	X		
			24							X	X	X	X	X	X	X		
B4.8	B-J	1-4109			X	X	X	X	X	X	X	X	X	X	X	X		
			2															
			3															
			5															
			6															
			7															
			8															
			9															

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COMPONENT:		SOCKET WELDS															
ITEM NO.	CATEGORY NO.	CLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
			VOL	SUR	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																
B4.8	B-J	1-4109			10	X	X	X	X	X	X	X	X	X	X	X	
					12	X	X	X	X	X	X	X	X	X	X	X	
					13	X	X	X	X	X	X	X	X	X	X	X	
					14	X	X	X	X	X	X	X	X	X	X	X	
					15	X	X	X	X	X	X	X	X	X	X	X	
					16	X	X	X	X	X	X	X	X	X	X	X	
					17	X	X	X	X	X	X	X	X	X	X	X	
					18	X	X	X	X	X	X	X	X	X	X	X	
					19	X	X	X	X	X	X	X	X	X	X	X	
					20	X	X	X	X	X	X	X	X	X	X	X	
					21	X	X	X	X	X	X	X	X	X	X	X	
					22	X	X	X	X	X	X	X	X	X	X	X	
					23	X	X	X	X	X	X	X	X	X	X	X	
					24	X	X	X	X	X	X	X	X	X	X	X	
					25	X	X	X	X	X	X	X	X	X	X	X	
					26	X	X	X	X	X	X	X	X	X	X	X	
					27	X	X	X	X	X	X	X	X	X	X	X	
					28	X	X	X	X	X	X	X	X	X	X	X	
					29	X	X	X	X	X	X	X	X	X	X	X	
B4.8	B-J	1-4110			2	X	X	X	X	X	X	X	X	X	X	X	
					3	X	X	X	X	X	X	X	X	X	X	X	
					4	X	X	X	X	X	X	X	X	X	X	X	
					5	X	X	X	X	X	X	X	X	X	X	X	

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COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS					
		SKETCH NO.	IDENT. NO.		VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		1ST	2ND	3RD		
755	755																					
B4.8	B-J	1-4111	12	X																		
			13	X																		
			14	X																		
			15	X																		
			16	X																		
			17	X																		
			18	X																		
			19	X																		
			20	X																		
			21	X																		
			22	X																		
			23	X																		
			24	X																		
			25	X																		
			26	X																		
			27	X																		
			28	X																		
			29	X																		
			30	X																		
			31	X																		
			32	X																		
			33	X																		
B4.8	B-J	1-4112	3	X																		

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
B4.8	B-J	1-4112	4	X	X														
			5	X	X														
			6	X	X														
			7	X	X														
			8	X	X														
			9	X	X														
			10	X	X														
			11	X	X														
			12	X	X														
			13	X	X														
			14	X	X														
			15	X	X														
			16	X	X														
			17	X	X														
			18	X	X														
			19	X	X														
			20	X	X														
			22	X	X														
			23	X	X														
			24	X	X														
			25	X	X														
			26	X	X														
			27	X	X														
			28	X	X														

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.8	B-J	1-4112	29	X	X													
B4.8	B-J	1-4113	30	X	X													
			31	X	X													
			1	X	X													
			2	X	X													
			3	X	X													
			4	X	X													
			5	X	X													
			6	X	X													
			7	X	X													
			8	X	X													
			9	X	X													
			10	X	X													
			11	X	X													
			12	X	X													
			13	X	X													
			14	X	X													
			15	X	X													
			16	X	X													
			17	X	X													
			18	X	X													
			19	X	X													
			20	X	X													
			21	X	X													

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COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755			VOL. SUR. VIS.	•	•	•	•	•	•	•	•	•	•	•	•	•	
B4.8	B-J	1-4113	22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755			VOL. SUR VIS.	•	•	•	•	•	•	•	•	•	•	•	•	
B4.8	B-J	1-4207	24	X													
B4.8	B-J	1-4208	2	X													
			3	X													
			4	X													
			5	X													
			6	X													
			7	X													
			8	X													
			9	X													
			10	X													
			11	X													
			12	X													
			13	X													
			14	X													
			15	X													
			16	X													
			17	X													
			18	X													
			19	X													
			20	X													
			21	X													
			22	X													
			23	X													
			24	X													

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
B4.8	B-J	1-4209	2	X			X												
			3	X			X												
			5	X			X												
			6	X			X												
			7	X			X												
			8	X			X												
			9	X			X												
			10	X			X												
			12	X			X												
			13	X			X												
			14	X			X												
			15	X			X												
			16	X			X												
			17	X			X												
			18	X			X												
			19	X			X												
			20	X			X												
			21	X			X												
			22	X			X												
			23	X			X												
			24	X			X												
			25	X			X												
			26	X			X												
			27	X			X												

COMPONENT:		SOCKET WELDS																	
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.		VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD			
76S	75S																		
B4.8	B-J	1-4209	28	X															
B4.8	B-J	1-4210	29	X															
			1	X															
			2	X															
			3	X															
			4	X															
			5	X															
			6	X															
			7	X															
			8	X															
			9	X															
			10	X															
			11	X															
			12	X															
			13	X															
			14	X											X				
			15	X											X				
			16	X											X				
			17	X											X				
			18	X											X				
			19	X											X				
			20	X											X				
			21	X											X				

COMPONENT: SOCKET WELDS																				
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL.	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
753	753																			
B4.8	B-J	1-4210	22	X				X												
B4.8	B-J	1-4211	3	X				X												
			4	X				X												
			5	X				X												
			6	X				X												
			7	X				X												
			8	X				X												
			9	X				X												
			10	X				X												
			11	X				X												
			12	X				X												
			13	X				X												
			14	X				X												
			15	X				X												
			16	X				X												
			17	X				X												
			18	X				X												
			19	X				X												
			20	X				X												

COMPONENT:		SOCKET WELDS																		
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
75S	75S																			
84.8	B-J	1-4211	21	X	X															
			22	X	X															
			24	X	X															
			25	X	X															
			26	X	X															
			27	X	X															
			28	X	X															
			29	X	X															
			30	X	X															
			31	X	X															
			32	X	X															
			33	X	X															
			34	X	X															
			35	X	X															
			36	X	X															
			37	X	X															
84.8	B-J	1-4212	1	X	X															
			2	X	X															
			3	X	X															
			4	X	X															
			5	X	X															
			6	X	X															
			7	X	X															

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B4.8	B-J	1-4212	8	X			X												
			9	X															
			10	X															
			11	X															
			12	X															
			13	X															
			14	X															
			15	X															
			16	X															
			17	X															
			18	X															
			19	X															
			20	X															
			21	X															
			22	X															
			23	X															
			24	X															
			25	X															
			26	X															
			27	X															
			28	X															
			29	X															
			30	X															
			31	X															

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	7E																	
B4.8	B-J	1-4303	1	X		/												
B4.8	B-J	1-4306	2	X		X												
			3	X		X												
			4	X		X												
			5	X		X												
			6	X		X												
			7	X		X												
			8	X		X												
			9	X		X												
			10	X		X												
			11	X		X												
			12	X		X												
			13	X		X												
			14	X		X												
			15	X		X												
			16	X		X												
			17	X		X												
			18	X		X												
			19	X		X												
			20	X		X												
			21	X		X												
			22	X		X												
			23	X		X												

COMPONENT:		SOCKET WELDS												REMARKS												
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL											
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST		2ND	3RD	1ST	2ND	3RD							
75S	75S																									
B4.8	B-J	1-4306	24	X																						
B4.8	B-J	1-4307	2	X																						
			3	X																						
			4	X																						
			5	X																						
			6	X																						
			7	X																						
			8	X																						
			9	X																						
			10	X																						
			11	X																						
			12	X																						
			13	X																						
			14	X																						
			15	X																						
			16	X																						
			17	X																						
			18	X																						
			19	X																						

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
B4.8	B-J	1-4307	20 21 22 23 24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
B4.8	B-J	1-4308	2 3 5 6 7 8 9 10 12 13 14 15 16 17 18 19 20 21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
B4.8	B-J	1-4308	22	X															
			23	X															
			24	X															
			25	X															
			26	X															
			27	X															
			28	X															
			29	X															
B4.8	B-J	1-4309	1	X															
			2	X															
			3	X															
			4	X															
			5	X															
			6	X															
			7	X															
			8	X															
			9	X															
			10	X															
			11	X															
			12	X															
			13	X															
			14	X															
			15	X															

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COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
75S	75S																			
B4.8	B-J	1-4309	16 17 18 19 20 21 22 23 24 25	X X X X X X X X X X																
B4.8	B-J	1-4310	3 4 5 6 7 8 9 10 11 12 13 14 15	X X X X X X X X X X X X X																
TYPP-1																				

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
B4.8	B-J	1-4310	16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
B4.8	B-J	1-4311	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

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COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B4.8	B-J	1-4311	10	X			X												
			11	X			X												
			12	X			X												
			13	X			X												
			14	X			X												
			15	X			X												
			16	X			X												
			17	X			X												
			18	X			X												
			19	X			X												
			20	X			X												
			21	X			X												
			22	X			X												
			23	X			X												
			24	X			X												
			25	X			X												
			26	X			X												
			27	X			X												
			28	X			X												
			29	X			X												
			30	X			X												
			31	X			X												
			32	X			X												
			33	X			X												

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B4.8	B-J	1-4505	1	X															
			2	X															
			3	X															
			4	X															
			5	X															
			6	X							X								
			7	X															
			8	X															
			9	X															
			10	X															
			11	X															
			12	X															
			13	X															
			14	X							X								
			15	X							X								
			16	X							X								
			17	X							X								
			18	X							X								
			19	X							X								
			20	X							X								
			21	X							X								
			22	X							X								
			23	X							X								

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
			VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																
B4.8	B-J	1-4601		X													
		2		X													
		3		X													
		4		X													
		5		X													
		6		X													
		7		X													
		8		X													
		9		X													
		10		X						X							
		11		X						X							
		12		X						X							
		13		X						X							
		14		X						X							
		15		X						X							
		16		X						X							
		17		X						X							
		18		X						X							
		19		X						X							
		20		X						X							
		21		X						X							
		22		X						X							
		23		X						X							
		24		X						X							
		25		X						X							

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
			VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S		IDENT. NO.														
B4.8	B-J	1-4601	26	X													
			27	X													
			28	X													
			29	X													
			30	X													
			31	X													
			32	X													
			33	X													
			34	X													
			35	X													
			36	X													
			37	X													
			38	X													
B4.8	B-J	1-4602	1	X													
			2	X													
			3	X													
			4	X													
			5	X													
			6	X													
			7	X													
			8	X													
			9	X													
			10	X													
			11	X													
TYPP-1																	

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
B4.8	B-J	1-4602	12	X														
			13	X														
			14	X														
			15	X														
			16	X														
			17	X														
			18	X														
			19	X														
			20	X														
			21	X														
			22	X														
			23	X														
			24	X														
			25	X														
			26	X														
			27	X														
			28	X														
			29	X														
			30	X														
			31	X														
			32	X						X								
			33	X						X								
			34	X						X								
			35	X						X								

COMPONENT:		SOCKET WELDS														REMARKS						
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL				FOURTH INTERVAL					
75S	75S	SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		1ST	2ND	3RD			
B4.8	B-J	1-4602	36			X				X												
			37			X				X												
			38			X					X											
			39			X					X											
			40			X					X											
			41			X					X											
			42			X																
			43			X																
			44			X																
			45			X																
			46			X																
			B4.8	B-J	1-4603	2			X				X									
						3			X				X									
4						X					X											
5						X																
6						X																
7						X																
8						X																
9						X																
10						X																
11						X																
12			X																			
13			X																			

COMPONENT: SOCKET WELDS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.8	B-J	1-4603	42	X														
			43	X														
			44	X														
			45	X														
			46	X														
			47	X														
			48	X														
			49	X														
			50	X														
			51	X														
			52	X														
			53	X														

COMPONENT: INTEGRALLY WELDED SUPPORTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
B4.9	B-K-1	1-4800	49	X	(X)		X												For B4.9 Notes 10,13,5
			50	X	(X)														
			53	X	(X)														
			55	X	(X)														
			58	X	(X)														
			59	X	(X)														
			60	X	(X)														
			61	X	(X)														
			63	X	(X)														
			77	X	(X)														
			80	X	(X)														
			82	X	(X)														
			83	X	(X)														
			86	X	(X)														
			88	X	(X)														
			89	X	(X)														
			91	X	(X)														
			92	X	(X)														

COMPONENT: INTEGRALLY WELDED SUPPORTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.9	B-K-1	1-4800	94	X	(X)	X		X										Vis. only 1st Pd
			97	X	(X)	X		X										
			99	X	(X)	X		X										
			104	X	(X)	X		X										
			110	X	(X)	X		X										
			111	X	(X)	X		X										
			112	X	(X)	X		X										
			113	X	(X)	X		X										
			114	X	(X)	X		X										
			117	X	(X)	X		X										
			120	X	(X)	X		X										
			121	X	(X)	X		X										
			122	X	(X)	X		X										
			126	X	(X)	X		X										
			127	X	(X)	X		X										
			128	X	(X)	X		X										
			129	X	(X)	X		X										
			132	X	(X)	X		X										
			134	X	(X)	X		X										
			137	X	(X)	X		X										
TYPP-1																		

For B4.9
Notes 10,13,5

COMPONENT: INTEGRALLY WELDED SUPPORTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S																			
B4.9	B-K-1	1-4800	139	X	(X)		X												For B4.9 Notes 10,13,5
			140	X	(X)														
			143	X	(X)														
			144	X	(X)														
			145	X	(X)														
			146	X	(X)														
			147	X	(X)														
			148	X	(X)														
			149	X	(X)														
			150	X	(X)														
			153	X	(X)														
			154	X	(X)														
			155	X	(X)														
			156	X	(X)														
			160	X	(X)														
			161	X	(X)														
			163	X	(X)														
			164	X	(X)														
			171	X	(X)														
			177	X	(X)														
			183	X	(X)														
			184	X	(X)														
			185	X	(X)														

COMPONENT: INTEGRALLY WELDED SUPPORTS

ITEM NO.	CATEGORY NO.	DLW	IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
				VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B4.9	B-K-1	1-4800	239	X (X)															For B4.9 Notes 10,13,5
			241	X (X)															
			242	X (X)															
			243	X (X)															
			244	X (X)															
			245	X (X)															
			246	X (X)															
			247	X (X)															
			248	X (X)															
			250	X (X)															
			251	X (X)															
			252	X (X)															
			253	X (X)															
			255	X (X)						X									
			256	X (X)						X									
			257	X (X)						X									
			258	X (X)						X									
			259	X (X)						X									
			260	X (X)						X									
			261	X (X)						X									
			262	X (X)						X									
			263	X (X)						X									
			264	X (X)						X									

COMPONENT: INTEGRALLY WELDED SUPPORTS

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.				1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755				VOL. SUR. VIS.														
B4.9	B-K-1	1-4800		265	X (X)														For B4.9 Notes 10,13,5
				266	X (X)														
				267	X (X)				X										
				268	X (X)														
				269	X (X)														
				270	X (X)														
				271	X (X)														
				272	X (X)														
				273	X (X)														
				274	X (X)														
				276	X (X)					/									
				277	X (X)														
				278	X (X)														
				283	X (X)														
				290	X (X)														
				296	X (X)														
				300	X (X)														
				306	X (X)														
				307	X (X)					/									
				311	X (X)														
				314	X (X)														
				318	X (X)														
				326	X (X)														

SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
B4.10	B-K-2	1-4800	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: SUPPORT COMPONENTS																	
ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
			VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																
84.10	B-K-2	1-4800															
		27		X	X												
		28		X	X												
		29		X	X												
		30		X	X												
		31		X	X												
		32		X	X												
		33		X	X												
		34		X	X												
		35		X	X												
		37		X	X												
		38		X	X												
		40		X	X												
		41		X	X												
		42		X	X												
		43		X	X												
		44		X	X												
		45		X	X												
		46		X	X												
		47		X	X												
		48		X	X												
		49		X	X												
		50		X	X												
		51		X	X												
		52		X	X												

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																			
B4.10	B-K-2	1-4800	53	X			X													
			54	X			X													
			55	X			X													
			57	X			X													
			58	X			X													
			59	X			X													
			60	X			X													
			61	X			X													
			62	X			X													
			63	X			X													
			64	X			X													
			65	X			X													
			66	X			X													
			67	X			X													
			68	X			X													
			69	X			X													
			70	X			X													
			71	X			X													
			72	X			X													
			73	X			X													
			74	X			X													
			75	X			X													
			76	X			X													
			77	X			X													
			78	X			X													

COMPONENT: SUPPORT COMPONENTS																						
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS			
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD				
75S	75S																					
B4.10	B-K-2	1-4800	105	X		X		X		X		X		X		X		X		X		
			106	X		X		X		X		X		X		X		X		X		
			107	X		X		X		X		X		X		X		X		X		
			108	X		X		X		X		X		X		X		X		X		
			109	X		X		X		X		X		X		X		X		X		
			110	X		X		X		X		X		X		X		X		X		
			111	X		X		X		X		X		X		X		X		X		
			112	X		X		X		X		X		X		X		X		X		
			113	X		X		X		X		X		X		X		X		X		
			114	X		X		X		X		X		X		X		X		X		
			116	X		X		X		X		X		X		X		X		X		
			117	X		X		X		X		X		X		X		X		X		
			118	X		X		X		X		X		X		X		X		X		
			119	X		X		X		X		X		X		X		X		X		
			120	X		X		X		X		X		X		X		X		X		
			121	X		X		X		X		X		X		X		X		X		
			122	X		X		X		X		X		X		X		X		X		
			124	X		X		X		X		X		X		X		X		X		
			125	X		X		X		X		X		X		X		X		X		
			126	X		X		X		X		X		X		X		X		X		
			127	X		X		X		X		X		X		X		X		X		
			128	X		X		X		X		X		X		X		X		X		
			129	X		X		X		X		X		X		X		X		X		
			130	X		X		X		X		X		X		X		X		X		

COMPONENT: SUPPORT COMPONENTS																			
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																		
B4.10	B-K-2	1-4800	131		X	X		X											
			132		X	X		X											
			133		X	X		X											
			134		X	X		X											
			135		X	X		X											
			136		X	X		X											
			137		X	X		X											
			139		X	X		X											
			140		X	X		X											
			141		X	X		X											
			143		X	X		X											
			144		X	X		X											
			145		X	X		X											
			146		X	X		X											
			147		X	X		X											
			148		X	X		X											
			149		X	X		X											
			150		X	X		X											
			152		X	X		X											
			153		X	X		X											
			154		X	X		X											
			155		X	X		X											
			156		X	X		X											

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
B4.10	B-K-2	1-4800	183	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			184	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			185	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			186	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			189	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			190	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			191	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			192	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			193	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			195	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			197	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			198	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			199	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			200	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			202	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			203	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			204	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			205	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			206	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			207	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: SUPPORT COMPONENTS																		
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755		209		X													
B4.10	B-K-2	1-4800	210		X													
			211		X	X												
			212		X	X												
			213		X	X												
			214		X	X												
			215		X	X												
			216		X	X												
			217		X	X												
			218		X	X												
			219		X	X												
			220		X	X												
			221		X	X												
			222		X	X												
			223		X	X												
			224		X	X												
			225		X	X												
			226		X	X												
			227		X	X												
			228		X	X												
			229		X	X												
			230		X	X												
			231		X	X												
			232		X	X												
			233		X	X												
			234		X	X												

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B4.10	B-K-2	1-4800	235	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			236	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			237	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			238	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			239	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			240	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			241	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			242	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			243	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			244	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			245	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			246	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			247	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			248	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			250	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			251	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			252	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			253	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			254	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			255	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			256	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			257	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			258	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			259	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			260	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
			VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B4.10	B-K-2	1-4800			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		261			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		262			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		263			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		264			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		265			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		266			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		267			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		268			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		269			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		270			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		271			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		272			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		273			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		274			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		276			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		277			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		278			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		279			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		280			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		281			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		282			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		283			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		284			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		285			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		286			X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
B4.10	B-K-2	1-4800	287	X		X		X											
			288	X		X		X											
			290	X		X		X											
			291	X		X		X											
			292	X		X		X											
			293	X		X		X											
			294	X		X		X											
			296	X		X		X											
			297	X		X		X											
			298	X		X		X											
			299	X		X		X											
			300	X		X		X											
			301	X		X		X											
			302	X		X		X											
			303	X		X		X											
			304	X		X		X											
			305	X		X		X											
			306	X		X		X											
			307	X		X		X											
			308	X		X		X											
			309	X		X		X											
			310	X		X		X											
			311	X		X		X											
			312	X		X		X											

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
							*	*	*	*	*	*	*	*	*	*	*	*	
B4.10	B-K-2	1-4800	313			X			X										
			314			X			X										
			315			X			X										
			316			X			X										
			317			X			X										
			318			X			X										
			319			X			X										
			321			X			X										
			322			X			X										
			323			X			X										
			324			X			X										
			325			X			X										
			326			X			X										
			327				X		/										
			328				X		/										

COMPONENT: EXEMPTED COMPONENTS																					
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS			
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD		
755	755																				
B4.11	B-P	--	--																		During Hydrostatic

COMPONENT:		PRESSURE-RETAINING BOLTING																
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL		FOURTH INTERVAL		REMARKS		
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST		2ND	3RD
75S	75S																	
B4.12	B-G-2	1-4700	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

REACTOR COOLANT PUMPS

1st Interval

IWB-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

B5.1	Pressure Retaining Bolting (In Place)	100% of one pump each Period
B5.2	Pressure Retaining Bolting (When Disassembled)	100% of one pump each Period
B5.3	Pressure Retaining Bolting	100% of one pump each Period
B5.4	Integrally Welded Supports	Not Applicable
B5.5	Support Components	100% of one pump each Period
B5.6	Pump Casing Weld	One pump in 3rd Period
B5.7	Pump Casings	100% of one pump in 3rd Period
B5.8	Exempted Components	During hydrostatic test
B5.9	Pressure Retaining Bolting	Not Applicable
--	Flywheels, volumetric and visual (Bore and Keyway)	100% of 3 flywheels each Period
--	Flywheels, surface and visual (Exposed Surfaces)	100% of 3 flywheels in 3rd Period

B5.1	<u>Flange bolting</u> 1st Period: Examine 1-B1 thru 1-B24 2nd Period: Examine 3-B1 thru 3-B24 3rd Period: Examine 2-B1 thru 2-B24
B5.2	<u>Flange bolting</u> 2nd Period: Examine 3-B1 thru 3-B24 3rd Period: Examine 1-B1 thru 1-B24 and 2-B1 thru 2-B24

REACTOR COOLANT PUMPS

1st Interval

IWB-2600
ITEMAREA EXAMINED

B5.3

Flange bolting (visual)

1st Period: Examine 1-B1 thru 1-B24

2nd Period: Examine 3-B1 thru 3-B24

3rd Period: Examine 2-B1 thru 2-B24

B5.2

Seal housing bolting

2nd Period: Examine 2-B1 thru 2-B12 and 3-B1 thru 3-B12

3rd Period: Examine 1-B1 thru 1-B12

B5.3

Seal housing bolting (visual)

1st Period: Examine 1-B1 thru 1-B12

2nd Period: Examine 3-B1 thru 3-B12

3rd Period: Examine 2-B1 thru 2-B12

B5.5

Support components

1st Period: Examine 1-1SC, 1-2SC and 1-3SC

2nd Period: Examine 3-1SC, 3-2SC and 3-3SC

3rd Period: Examine 2-1SC, 2-2SC and 2-3SC

REACTOR COOLANT PUMPS

1st Interval

IWB-2600
ITEMAREA EXAMINED

B5.6

Casing welds

3rd Period: Examine 2-1

B5.7

Pump casings

3rd Period: Examine 2-1

--

Flywheels - bore and keyway

1st Period: Examine 1-1, 2-1 and 3-1

2nd Period: Examine 1-1, 2-1 and 3-1

3rd Period: Examine 1-1, 2-1 and 3-1

--

Flywheels - exposed surfaces

1st Period: Examine 1-1, 2-1 and 3-1

3rd Period: Examine 1-1, 2-1 and 3-1

COMPONENT: REACTOR COOLANT PUMPS/FLANGE BOLTING/PRESSURE RETAINING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
B5.1	B-G-1	1-5100	1-B1 thru 1-B24 2-B1 thru 2-B24 3-B1 thru 3-B24	X		X													
B5.2	B-G-1	1-5100	1-B1 thru 1-B24 2-B1 thru 2-B24 3-B1 thru 3-B24	X		X													As Applicable
B5.3	B-G-1	1-5100	1-B1 thru 1-B24 2-B1 thru 2-B24 3-B1 thru 3-B24			X													

COMPONENT: REACTOR COOLANT PUMPS/SEAL HOUSING BOLTING/PRESSURE RETAINING

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
			VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																
B5.1	B-G-1	1-5100	X		X												For 5.1 Notes 10,14
			X		X												
			X		X												
			X		X												
			X		X												
			X		X												
B5.2	B-G-1	1-5100	X		X												
			X		X												
			X		X												
			X		X												
			X		X												
B5.3	B-G-1	1-5100		X													
				X													
				X													
				X													
				X													

COMPONENT: FLYWHEELS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																		
--	--	1-5100	1-1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2-1	X	X	X													
			3-1	X	X	X													
--	--	1-5100	1-1	X	X	X	/	/	/										
			2-1	X	X	X													
			3-1	X	X	X													

VALVES

1st Interval

IWB-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

B6.1	Pressure Retaining Bolting (In Place) 2" and larger dia.	100% of bolts, studs, nuts, etc.
B6.2	Pressure Retaining Bolting (When Disassembled) 2" and larger dia.	As Applicable
B6.3	Pressure Retaining Bolting 2" and larger dia.	100% of bolts, studs, nuts, etc.
B6.4	Integrally Welded Supports	Not Applicable
B6.5	Support Components	100% of all valve supports
B6.6	Valve-body Welds	Not Applicable
B6.7	Valve Bodies (Greater than 4" pipe size)	Examine 1 valve in each valve group
B6.8	Exempted Components	During hydrostatic test
B6.9	Pressure Retaining Bolting (smaller than 2" dia.)	33 1/3% in each Period

B6.1 Loop Stop Valves Bolting - Refer to DLW-1-6100 for Item numbers

Volumetric examinations

1st Period: Examine items 1 and 2

2nd Period: Examine items 3 and 4

3rd Period: Examine items 5 and 6

B6.3

Visual examinations

1st Period: Examine items 1 and 2

2nd Period: Examine items 3 and 4

3rd Period: Examine items 5 and 6

VALVES

1st Interval

IWB-2600
ITEMAREA EXAMINED

B6.5

Valve supports

1st Period: Examine H1 DLW-1-4103

2nd Period: Examine H4 DLW-1-4210

B6.7

Valve bodies - Refer to DLW-1-6200 for Item numbers

3rd Period: Examine items 2, 3, 12, 21, 22, 25, 26

B6.9

Pressure retaining bolting - Refer to DLW-1-6300 for Item numbers

1st Period: Examine items 1 thru 10, 31, 34, 38, 40, 44 and 45

2nd Period: Examine items 12, 14, 16, 18, 19, 21, 35, 39, 41, 46 & 47

3rd Period: Examine items 11, 13, 15, 17, 20, 22, 23, 24, 25, 26, 27, 28,
29, 30, 32, 33, 36, 37, 42, 43, 48, 49, 50

COMPONENT: LOOP STOP VALVES BOLTING/PRESSURE RETAINING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
B6.1	755 B-G-1	1-6100	1 2 3 4 5 6	X X X X X X				X X												
B6.2	B-G-1	1-6100	1 2 3 4 5 6	X X X X X X				X X X X X X												As Applicable
B6.3	B-G-1	1-6100	1 2 3 4 5 6	X X X X X X				X X												
	TTPP-1																			

COMPONENT: VALVES

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS				
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD			
75S	75S	--	--	X																		
B6.4	B-K-1	--	--	X																	Not Applicable	
B6.5	B-K-2	1-4103	H-1	X																		
B6.6	B-M-2	1-4210	H-4	X																	Not Applicable	
	TYPP-1																					

REPRODUCTION OF FORMS 28000

EXEMPTED COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS			
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD		
75S	75S																				
B6.8	B-P	--	--			X														During Hydrostatic	
	TYPP-1																				Per 2

COMPONENT: PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	755																			
B6.9	B-G-2	1-6300	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			9	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			10	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			11	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			12	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			13	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			14	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			15	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			16	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			21	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	

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TYPP-1

Rev. 3

145

COMPONENT: PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																		
B6.9	B-G-2	1-6300	25	X		X	/												
			26	X		X	/												
			27	X		X	/												
			28	X		X	/												
			29	X		X	/												
			30	X		X	X												
			31	X		X		X											
			32	X		X			X										
			33	X		X													
			34	X		X		X											
			35	X		X			X										
			36	X		X													
			37	X		X													
			38	X		X		X											
			39	X		X													
			40	X		X		X											
			41	X		X			X										
			42	X		X													
			43	X		X													
			44					X											
			45					X											
			46																
			47																
			48																
			49																

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TYPE-1

Rev. 3

STEAM GENERATORS DLW-2-1100

1st Interval

IWC-2600

<u>ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
C1.1	Circumferential butt welds	1.67% of each weld in each Period
C1.2	Nozzle to vessel welds (1-9, 1-10)	100% of each weld in 1st Period
C1.3	Integrally welded supports	Not Applicable
C1.4	Pressure retaining bolting	Visual - 33 1/3% in each Period Volumetric - 10%

C1.1

Weld #1-2

1st Period: Examine 7.2" min. clockwise from 0" to 7.2"
 2nd Period: Examine 7.2" min. clockwise from 142.3" to 149.5"
 3rd Period: Examine 7.2" min. clockwise from 284.6" to 291.8"

Welds #1-3 and 2-5

1st Period: Examine 7.1" min. clockwise from 0" to 7.1"
 2nd Period: Examine 7.1" min. clockwise from 141.4" to 148.5"
 3rd Period: Examine 7.1" min. clockwise from 282.8" to 289.9"

Welds #2-6 and 3-8

1st Period: Examine 9.2" min. clockwise from 0" to 9.2"
 2nd Period: Examine 9.2" min. clockwise from 184.1" to 193.3"
 3rd Period: Examine 9.2" min. clockwise from 368.1 to 377.3"

0" reference is the vertical ϕ of the feedwater nozzle

C1.4

Bolting-visual examinations

1st Period: Examine 13 bolts, 1-B1 thru 1-B13
 2nd Period: Examine 13 bolts, 2-B14 thru 2-B26
 3rd Period: Examine 14 bolts, 1-B27 thru 1-B40

Bolting-volumetric examinations

1st Period: Examine 4 bolts, 1-B1 and 1-B2
 1-B21 and 1-B22

COMPONENT: STEAM GENERATORS #1, #2 & #3

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.		VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																
C1.1	C-A	2-1100	1-2 1-3 2-5 2-6 3-8	X X X X X			X X X X X										
C1.2	C-B	2-1100	1-9 1-10	X X			X X										
C1.3	C-C	--	--														
Not Applicable																	

COMPONENT: STEAM GENERATOR #1/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C1.4	C-D	2-1100	1-B26 1-B27 1-B28 1-B29 1-B30 1-B31 1-B32 1-B33 1-B34 1-B35 1-B36 1-B37 1-B38 1-B39 1-B40	X X X X X X X X X X X X X X X			X X X X X X X X X X X X X X X												

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Typ-1

Rev 2

COMPONENT: STEAM GENERATOR #1/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
C1.4	C-D	2-1100	1-B25 1-B26 1-B27 1-B28 1-B29 1-B30 1-B31 1-B32 1-B33 1-B34 1-B35 1-B36 1-B37 1-B38 1-B39 1-B40	X X X X X X X X X X X X X X X X X	/ / / / / / / / / / / / / / / / /													

COMPONENT: STEAM GENERATOR #2/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
C1.4	C-D	2-1100	2-B1	X														
			2-B2	X														
			2-B3	X														
			2-B4	X														
			2-B5	X														
			2-B6	X														
			2-B7	X														
			2-B8	X														
			2-B9	X														
			2-B10	X														
			2-B11	X														
			2-B12	X														
			2-B13	X														
			2-B14	X														
			2-B15	X														
			2-B16	X														
			2-B17	X														
			2-B18	X														
			2-B19	X														
			2-B20	X														
			2-B21	X														
			2-B22	X														
			2-B23	X														
			2-B24	X														
			2-B25	X														

COMPONENT: STEAM GENERATOR #2/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
C1.4	C-D	2-1100	2-B26 2-B27 2-B28 2-B29 2-B30 2-B31 2-B32 2-B33 2-B34 2-B35 2-B36 2-B37 2-B38 2-B39 2-B40	X X X X X X X X X X X X X X X															

COMPONENT: STEAM GENERATOR #2/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
C1.4	C-D	2-1100	2-B26 2-B27 2-B28 2-B29 2-B30 2-B31 2-B32 2-B33 2-B34 2-B35 2-B36 2-B37 2-B38 2-B39 2-B40	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X		

COMPONENT: STEAM GENERATOR #3/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C1.4	C-D	2-1100	3-B1	X															
			3-B2	X															
			3-B3	X															
			3-B4	X															
			3-B5	X															
			3-B6	X															
			3-B7	X															
			3-B8	X															
			3-B9	X															
			3-B10	X															
			3-B11	X															
			3-B12	X															
			3-B13	X															
			3-B14	X															
			3-B15	X															
			3-B16	X															
			3-B17	X															
			3-B18	X															
			3-B19	X															
			3-B20	X															
			3-B21	X															
			3-B22	X															
			3-B23	X															
			3-B24	X															

COMPONENT: STEAM GENERATOR #3/PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C1.4	C-D	2-1100	3-B25 3-B26 3-B27 3-B28 3-B29 3-B30 3-B31 3-B32 3-B33 3-B34 3-B35 3-B36 3-B37 3-B38 3-B39 3-B40	X X X X X X X X X X X X X X X X															

COMPONENT: STEAM GENERATOR #3 / PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C1.4	C-D	2-1100	3-B1			X													
			3-B2			X													
			3-B3			X													
			3-B4			X													
			3-B5			X													
			3-B6			X													
			3-B7			X													
			3-B8			X													
			3-B9			X													
			3-B10			X													
			3-B11			X													
			3-B12			X													
			3-B13			X													
			3-B14			X													
			3-B15			X													
			3-B16			X													
			3-B17			X													
			3-B18			X													
			3-B19			X													
			3-B20			X													
			3-B21			X													
			3-B22			X													
			3-B23			X													
			3-B24			X													

COMPONENT: STEAM GENERATOR #3 / PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
C1.4	C-D	2-1100	3-B25 3-B26 3-B27 3-B28 3-B29 3-B30 3-B31 3-B32 3-B33 3-B34 3-B35 3-B36 3-B37 3-B38 3-B39 3-B40		X X X X X X X X X X X X X X X X													

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Rev 2

EXCESS LETDOWN HEAT EXCHANGER DLW-2-1110

1st Interval

IWC-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

C1.1	Circumferential butt welds	1.67% of each weld in each Period
C1.2	Nozzle to vessel welds	Not applicable
C1.3	Integrally welded supports	Not applicable
C1.4	Pressure retaining bolting	Visual - 33 1/3% in each Period Volumetric - 10%

C1.1

Weld #1

1st Period: Examine .5" min. clockwise from 0" to .5"

2nd Period: Examine .5" min. clockwise from 9.95" to 10.45"

3rd Period: Examine .5" min. clockwise from 19.9 to 20.4"

C1.4

Bolting - visual examination

1st Period: Examine 4 bolts, B1 thru B4

2nd Period: Examine 4 bolts, B5 thru B8

3rd Period: Examine 4 bolts, B9 thru B12

Bolting - volumetric examinations

1st Period: Examine 2 bolts, B1 and B2

COMPONENT: EXCESS LETDOWN HEAT EXCHANGER CH-E-4																		
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
C1.1	C-A	2-1110	1	X		X		X	X	X								Not Applicable
C1.2	C-B	--	--	X														Not Applicable
C1.3	C-C	--	--															
C1.4	C-D	2-1110	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12			X X X X X X X X X X X X		X X X X X X X X X X X X										

COMPONENT: EXCESS LETDOWN HEAT EXCHANGER CH-E-4

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C1.4	C-D	2-1110	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12	X X X X X X X X X X X X		X X X X X X X X X X X X													

RESIDUAL HEAT EXCHANGERS DLW 2-1120

(Multiple Streams)

1st Interval

<u>IWC-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
C1.1	Circumferential butt welds	1.67% of Required Welds in each Period
C1.2	Nozzle to Vessel Welds	Not Accessible for Volumetric Examination
C1.3	Integrally Welded Supports	Examine 100% of 1 support in 1st Period
C1.4	Pressure retaining bolting	Visual - 33 1/3% (1 Flange) in each Period Volumetric - 10%

C1.1	<u>Welds 1-1 & 2-2</u> 1st Period: Examine 2" min. from 0" to 2.08", clockwise 2nd Period: Examine 2" min. from 41.62" to 43.62", clockwise 3rd Period: Examine 2" min. from 83.25" to 85.33", clockwise	
C1.2	Welds 1-3 & 2-4 - Examine 100% of nozzle and Ring Enforcement Area Each Period.	
C1.3	<u>Support 1-1WS</u> 1st Period: Examine 100%	
C1.4	<u>Bolting - Visual Examinations</u> 1st Period: Examine 16 Bolts, 1B1 thru 1B16 2nd Period: Examine 16 Bolts, 1B17 thru 1B32 3rd Period: Examine 16 Bolts, 1B33 thru 1B48 <u>Bolting - Volumetric Examinations</u> 1st Period: Examine 5 Bolts, 1B1 thru 1B5	

COMPONENT: RESIDUAL HEAT EXCHANGER RH-E-1A

ITEM NO.	CATEGORY NO.	SKETCH NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
				VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	75S																			
C1.4	C-D	2-1120	1-B41 1-B42 1-B43 1-B44 1-B45 1-B46 1-B47 1-B48	X X X X X X X X																
C1.4	C-D	2-1120	1-B1 1-B2 1-B3 1-B4 1-B5 1-B6 1-B7 1-B8 1-B9 1-B10 1-B11 1-B12 1-B13 1-B14 1-B15	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X				
	755																			

COMPONENT: RESIDUAL HEAT EXCHANGER RH-E-1A

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S			X		•	•	•	•	•	•	•	•	•	•	•	•	
C1.4	C-D	2-1120	1-B40 1-B41 1-B42 1-B43 1-B44 1-B45 1-B46 1-B47 1-B48	X X X X X X X X X		X X X X X X X X X												

COMPONENT: RESIDUAL HEAT EXCHANGER RH-E-1B

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S																				
C1.1	75S																			
C1.2	C-A	2-1120	2-1	X																
	C-B	2-1120	2-2	X																
			2-3		(X)															Notes 8, 10, 16)
			2-4		(X)															Notes 8, 10, 16)
C1.3	C-C	2-1120	2-1WS																	
C1.3	C-C	2-1120	2-2WS																	
C1.4	C-D	2-1120	2-B1																	
			2-B2																	
			2-B3																	
			2-B4																	
			2-B5																	
			2-B6																	
			2-B7																	
			2-B8																	
			2-B9																	
			2-B10																	
			2-B11																	
			2-B12																	
			2-B13																	
			2-B14																	
			2-B15																	
			2-B16																	
	TYPP-1																			

COMPONENT: RESIDUAL HEAT EXCHANGER RH-E-1B

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	755																			
C1.4	C-D	2-1120	2-B41 2-B42 2-B43 2-B44 2-B45 2-B46 2-B47 2-B48	X X X X X X X X																
C1.4	C-D	2-1120	2-B1 2-B2 2-B3 2-B4 2-B5 2-B6 2-B7 2-B8 2-B9 2-B10 2-B11 2-B12 2-B13 2-B14 2-B15	X X X X X X X X X X X X X X X																
	755																			Rev 2

TYPE-1

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SEAL WATER HEAT EXCHANGER DLW 2-1130

1st Interval

<u>IWC-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
C1.1	Circumferential butt welds	1.67% of each weld in each Period
C1.2	Nozzle to Vessel Welds	Not Applicable
C1.3	Integrally Welded Supports	Examine 100% of 1 support in 1st Period
C1.4	Pressure retaining bolting	Not Applicable

C1.1

Welds #1 & 2

1st Period: Examine 3/4" min. from 0" to .75", clockwise

2nd Period: Examine 3/4" min. from 16.66" to 17.41", clockwise

3rd Period: Examine 3/4" min. from 33.32" to 34.02", clockwise

C1.3

Support 1WS

1st Period: Examine 100%

COMPONENT: SEAL WATER HEAT EXCHANGER CH-E-1

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.			VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																				
C1.1	C-A	2-1130		1	X	(X)	(X)	X	X	X										(Notes 10, 18)	
C1.1	C-A	2-1130		2	X	(X)	(X)	X	X	X										(Notes 10, 18)	
C1.2	C-B	2-1130		--	X															Not Applicable	
C1.3	C-C	2-1130		1WS				X													
C1.3	C-C	2-1130		2WS				X													
C1.4	C-D	2-1130		--	X															Not Applicable	
	TYPP-1																				Rev 3

NON-REGENERATIVE LETDOWN HEAT EXCHANGER DLW 2-1140

1st Interval

<u>IWC-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
Cl.1	Circumferential butt welds	1.67% of each weld in each Period
Cl.2	Nozzle to Vessel Weld	Not Applicable
Cl.3	Integrally Welded Supports	Examine 100% of 1 support in 1st Period
Cl.4	Pressure retaining bolting	Visual-33 1/3% in each Period Volumetric-10%

Cl.1	<u>Welds #1 & 2</u> 1st Period: Examine 1 1/4" min. from 0" to 1.25", clockwise 2nd Period: Examine 1 1/4" min. from 28.27" to 29.52", clockwise* 3rd Period: Examine 1 3/4" min. from 56.54" to 58.28", clockwise
Cl.3	<u>Support 1WS</u> 1st Period: Examine 100%
Cl.4	<u>Bolting - Visual Examinations</u> 1st Period: Examine 12 Bolts, B1 thru B12 2nd Period: Examine 12 Bolts, B13 thru B24 3rd Period: Examine 12 Bolts, B25 thru B36 <u>Bolting - Volumetric Examinations</u> 1st Period: Examine 4 Bolts, B1 thru B4

*Examination - Area 28.27" to 29.52", not accessible.
Area length revised to read 43.0" to 45.0" on weld #1
and 48" to 50" on weld #2

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COMPONENT: NON-REGENERATIVE LETDOWN HEAT EXCHANGER CH-E-2

ITEM NO.	CATEGORY NO.	DLW	IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
C1.1	C-A	2-1140	1	X		X	X	/										
C1.1	C-A	2-1140	2	X		X	X	/										
C1.2	C-B	2-1140	--	X														
C1.3	C-C	2-1140	1WS		X													
C1.3	C-C	2-1140	2WS		X													
C1.4	C-D	2-1140	B1		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B2		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B3		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B4		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B5		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B6		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B7		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B8		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B9		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B10		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B11		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B12		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B13		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B14		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B15		X	X	X	X	X	X	X	X	X	X	X	X	X	
			B16		X	X	X	X	X	X	X	X	X	X	X	X	X	

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Rev 2

Not Applicable

COMPONENT: NON-REGENERATIVE LETDOWN HEAT EXCHANGER CH-E-2

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
C1.4	C-D	2-1140	B17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C1.4	C-D	2-1140	B1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			B3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			page C1-33																
			TYP-1																

COMPONENT: NON-REGENERATIVE LETDOWN HEAT EXCHANGER CH-E-2

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SJR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C1.4	C-D	2-1140	B4	X			X												
			B5	X															
			B6	X															
			B7	X															
			B8	X															
			B9	X															
			B10	X															
			B11	X															
			B12	X															
			B13	X															
			B14	X															
			B15	X															
			B16	X															
			B17	X															
			B18	X															
			B19	X															
			B20	X															
			B21	X															
			B22	X															
			B23	X															
			B24	X															
			B25	X															
			B26	X															
			B27	X															

COMPONENT: NON-REGENERATIVE LETDOWN HEAT EXCHANGER CH-E-2

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
C1.4	C-D	2-1140	B28 B29 B30 B31 B32 B33 B34 B35 B36	X X X X X X X X X														

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TYPE-1

Rev 2

REGENERATIVE HEAT EXCHANGER DLW 2-1150

1st Interval

IWC-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

C1.1	Circumferential Butt Welds	10% of 2 welds in each Period
C1.2	Nozzle to Vessel Welds	Not Applicable
C1.3	Integrally Welded Supports	Not Applicable
C1.4	Pressure Retaining Bolting	Not Applicable

C1.1 1st Period: Examine welds #1 & 7 for 3.0" min. from 0" reference, clockwise
 2nd Period: Examine welds #2 & 8 for 3.0" min. from 0" reference, clockwise
 3rd Period: Examine welds #3 & 9 for 3.0" min. from 0" reference, clockwise

COMPONENT: REGENERATIVE HEAT EXCHANGER CH-E-3

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	DLW		VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																				
C1.1	C-A	2-1150		1	X	(X)	(X)	X												For C1.1 (Notes 10, 15)	
				2	X	(X)	(X)	X													
				3	X	(X)	(X)	X													
				4	X	(X)	(X)	X													
				5	X	(X)	(X)	X													
				6	X	(X)	(X)	X													
				7	X	(X)	(X)	X													
				8	X	(X)	(X)	X													
				9	X	(X)	(X)	X													
				10	X	(X)	(X)	X													
				11	X	(X)	(X)	X													
				12	X	(X)	(X)	X													
C1.2	C-B	2-1150		--	X															Not Applicable	
C1.3	C-C	2-1150		--					X												Not Applicable
C1.4	C-D	2-1150		--	X					X											Not Applicable
																					Rev.3

RECIRCULATION SPRAY HEAT EXCHANGERS DLW 2-1160

Multiple Streams

1st Interval

<u>IWC-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY EXAMINED</u>
C1.1	Circumferential Butt Welds	20% of each required weld
C1.2	Nozzle-to-Vessel Welds	Not accessible for Volumetric Examination
C1.3	Integrally Welded Supports	Examine 4 Supports
C1.4	Pressure Retaining Bolting	Not Applicable

C1.1	<u>Welds 1-1, 2-2, 4-4, & 4-5</u>	
	1st Period: Augmented to Ten Year Plan in 3rd Period	
	2nd Period: " " " " " " " " "	
	3rd Period: Examine 21" min. of each weld, uniformly distributed among three areas around the vessel circumference when practical	
C1.2	<u>Welds: 1-6 & 3-7</u>	
	3rd Period: Examine 100% of Nozzle and Ring Enforcement Area	
C1.3	<u>Supports: 1-1WS, 2-2WS, 3-3WS, & 4-4WS</u>	
	3rd Period: Examine 100%	

COMPONENT: RECIRCULATION SPRAY HEAT EXCHANGERS #1, #2, #3, & #4

ITEM NO	CATEGORY NO	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO	IDENT NO	VOL	SLUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
C1.1	C-A	2-1160	1-1	X			/												(Note 8)
			1-2	X			/												(Note 8)
			1-3																
			1-4	X															
			1-5	X															
			2-1	X															
			2-2	X															
			2-3	X															
			2-4	X															
			2-5	X															
			3-1	X															
			3-2	X															
			3-3	X															
			3-4	X															
			3-5	X															
			4-1	X															
			4-2	X															
			4-3	X															
			4-4	X															
			4-5	X															

VOLUME CONTROL TANK DLW 2-1200

1st Interval

<u>IWC-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
C1.1	Circumferential Butt Welds	1.67% of each weld in each Period
C1.2	Nozzle to Vessel Weld	Not Applicable
C1.3	Integrally Welded Supports	Examine 100% of 1 support in 1st Period
C1.4	Pressure retaining bolting	Visual - 33 1/3% in each Period Volumetric - 10%

C1.1	<u>Welds #1 & #2</u> 1st Period: Examine 4 1/2" min. from 0" to 4.5", clockwise 2nd Period: Examine 4 1/2" min. from 87.79" to 92.29", clockwise 3rd Period: Examine 4 1/2" min. from 175.59" to 180.09", clockwise
C1.3	<u>Support 1WS</u> 1st Period: Examine 100%
C1.4	<u>Bolting - Visual Examinations</u> 1st Period: Examine 5 Bolts, B1 thru B5 2nd Period: Examine 5 Bolts, B6 thru B10 3rd Period: Examine 6 Bolts, B11 thru B16 <u>Bolting - Volumetric Examinations</u> 1st Period: Examine 2 Bolts, B1 & B2

COMPONENT: VOLUME CONTROL TANK CH-TK-2

ITEM NO.	CATEGORY NO.	DLW	IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				VOL	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
C1.1	C-A	2-1200	1 2	X X		X X		X X										
C1.2	C-B	2-1200	--	X														
C1.3	C-C	2-1200	1WS 2WS 3WS 4WS	X X X X		X X X X												
C1.4	C-D	2-1200	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14	X X X X X X X X X X X X X X		X X X X X X X X X X X X X X		X X X X X X X X X X X X X X										
	TYPP-1																	

Not Applicable

COMPONENT: VOLUME CONTROL TANK CH-TK-2

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
C1.4	C-D	2-1200	B15 B16	X	X		X	X	X	X									

SIS ACCUMULATORS #1, 2, 3 DLW-2-1210

(Multiple Streams)

IWC-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

C1.1	Circumferential Butt Welds	1.67% of each weld in each Period
C1.2	Nozzle to vessel welds	100% of each weld
C1.3	Integrally welded supports	8.5% of each weld in each Period
C1.4	Pressure retaining bolting	Not Applicable

C1.1

Circumferential welds

1st Period: Examine #1-1 7.5" min. from 0" reference, clockwise

2nd Period: Examine #1-2, 2-1 and 2-2 each 7.5" min. from 0" reference, clockwise

3rd Period: Examine #3-1 and 3-2 7.5" min. from 0" reference, clockwise

C1.2

Nozzle to vessel welds

1st Period: Examine #2-3

C1.3

Integrally welded supports

1st Period: Examine #3-4 from 0" thru 13", clockwise

2nd Period: Examine #2-4 from 0" thru 37", clockwise

3rd Period: Examine #1-4 from 0" thru 37", clockwise

COMPONENT: SIS ACCUMULATOR #1 SI-TK-1A

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	75S																		
C1.1	C-A	2-1210	1-1	X			X												(Note 1) (Note 22)
C1.2	C-B	2-1210	1-2	X			X												Not Applicable
C1.3	C-C	2-1210	1-3	X			X												
C1.4	C-D	2-1210	1-4	X			X												
			--	X			X												

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TYPE-1

Rev 2

COMPONENT: SIS ACCUMULATOR #2 SI-TK-1B

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
C1.1	C-A	2-1210	2-1	X			X	X											(Note 1) (Note 22)
C1.2	C-B	2-1210	2-3	X					X										
C1.3	C-C	2-1210	2-4				X												
C1.4	C-D	2-1210	--	X						X									Not Applicable

COMPONENT: SIS ACCUMULATOR #3 SI-TK-1C

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
			VOL.	SUR VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																
C1.1	C-A	2-1210	3-1	X			/										(Note 1)
C1.2	C-B	2-1210	3-2	X			/										(Note 22)
C1.3	C-C	2-1210	3-3	X													
C1.4	C-D	2-1210	3-4	X	X												Not Applicable
	75S		--	X													
	TYPE-1																Rev 2

BORON INJECTION TANK DLW 2-1220

1st Interval

IWC-2600

<u>ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
C1.1	Circumferential Butt Welds	1.67% of each weld in each Period
C1.2	Nozzle to vessel welds	100% of each weld
C1.3	Integrally welded supports	Examine 100% of 1 support
C1.4	Pressure retaining bolting	Visual - 33 1/3% in each Period Volumetric - 10%

C1.1

Welds #1 & 2

1st Period: Examine 3" min. from 0" to 3", clockwise

2nd Period: Examine 3" min. from 53.3" to 56.3", clockwise

3rd Period: Examine 3" min. from 112.6" to 115.6", clockwise

C1.2

Welds #3 & 4

1st Period: Examine #3

3rd Period: Examine #4

C1.3

Support #4WS

1st Period: Examine 100%

C1.4

Bolting-visual examination

1st Period: Examine 5 bolts, B1 thru B5

2nd Period: Examine 5 bolts, B6 thru B10

3rd Period: Examine 6 bolts, B11 thru B16

Bolting - volumetric examinations

1st Period: Examine 2 bolts, B1 & B2

COMPONENT: BORON INJECTION TANK SI-TK-2

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	DLW		VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																				
C1.1	C-A	2-1220		1	X				X												
C1.2	C-B	2-1220		2	X				X												
C1.3	C-C	2-1220		3	X				X												
				4	X				X												
				1WS																	
				2WS																	
				3WS																	
				4WS																	
C1.4	C-D	2-1220		B1	X				X												
				B2	X				X												
				B3	X				X												
				B4	X				X												
				B5	X				X												
				B6	X				X												
				B7	X				X												
				B8	X				X												
				B9	X				X												
				B10	X				X												
				B11	X				X												
				B12	X				X												
				B13	X				X												
				B14	X				X												
				B15	X				X												
				B16	X				X												

COMPONENT: BORON INJECTION TANK SI-TK-2

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C1.4	C-D	2-1220	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16	X X X X X X X X X X X X X X X X		X X X X X X X X X X X X X X X													

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Rev 3

SEAL WATER INJECTION FILTERS DLW 2-1300
(Multiple Streams)

IWC-2600
ITEM

AREA EXAMINED

QUANTITY INSPECTED

C1.1	Circumferential Butt Welds	1.67% of required welds each Period
C1.2	Nozzle to vessel weld	Not Applicable
C1.3	Integrally welded supports	Examine 100% of 1 support in 1st Period
C1.4	Pressure retaining bolting	Visual - 33 1/3 in each Period Volumetric - 10%

C1.1

Welds 1-1 and 2-2

1st Period: Examine .564" min. from 0" to .564", clockwise

2nd Period: Examine .564" min. from 11.25" to 11.82", clockwise

3rd Period: Examine .564" min. from 22.51" to 23.07", clockwise

C1.3

Support 1-1WS

1st Period: Examine 100%

C1.4

Bolting - Visual examinations

1st Period: Examine 5 Bolts, 1B1 thru 1B5

2nd Period: Examine 5 Bolts, 1B6 thru 1B10

3rd Period: Examine 6 Bolts, 1B11 thru 1B16

Bolting - volumetric examinations

1st Period: Examine 2 Bolts, 1B1 and 1B2

COMPONENT: SEAL WATER INJECTION FILTER #1 CH-FL-4A

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																		
C1.1	C-A	2-1300	1-1 1-2	X X	(X) (X)	X	X	X	X	X	X	X	X	X	X	X	X	Notes 10, 17) (Notes 10, 17)	
C1.2	C-B	2-1300	--	X														Not Applicable	
C1.3	C-C	2-1300	1-1WS 1-2WS 1-3WS	X X X															
C1.4	C-D	2-1300	1-B1 1-B2 1-B3 1-B4 1-B5 1-B6 1-B7 1-B8 1-B9 1-B10 1-B11 1-B12 1-B13 1-B14 1-B15 1-B16	X X X X X X X X X X X X X X X X		X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X		
	TYP-1																		Page C1-53

COMPONENT: SEAL WATER INJECTION FILTER #1 CH-FL-4A

ITEM NO.	CATEGORY NO.	DLW	IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
				VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C1.4	C-D	2-1300	1-B1 1-B2 1-B3 1-B4 1-B5 1-B6 1-B7 1-B8 1-B9 1-B10 1-B11 1-B12 1-B13 1-B14 1-B15 1-B16	X X X X X X X X X X X X X X X X		X X X X X X X X X X X X X X X													

COMPONENT: SEAL WATER INJECTION FILTER #2 CH-FL-4B

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755	SKETCH NO.	IDENT. NO.																
C1.1	C-A	2-1300	2-1	X	(X)														Notes 10, 17)
			2-2	X	(X)			X	X	/									Notes 10, 17)
C1.2	C-B	2-1300	--	X															Not Applicable
C1.3	C-C	2-1300	2-1WS		X			X											
			2-2WS		X														
			2-3WS		X														
C1.4	C-D	2-1300	2-B1			X		X											
			2-B2			X		X											
			2-B3			X		X											
			2-B4			X		X											
			2-B5			X		X											
			2-B6			X		X											
			2-B7			X		X											
			2-B8			X		X											
			2-B9			X		X											
			2-B10			X		X											
			2-B11			X		X											
			2-B12			X		X											
			2-B13			X		X											
			2-B14			X		X											
			2-B15			X		X											
			2-B16			X		X											
	TYPP-1																		Rev 2

COMPONENT: SEAL WATER INJECTION FILTER #2 CH-FL-4B

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																			
C1.4	C-D	2-1300	2-B1 2-B2 2-B3 2-B4 2-B5 2-B6 2-B7 2-B8 2-B9 2-B10 2-B11 2-B12 2-B13 2-B14 2-B15 2-B16	X X X X X X X X X X X X X X X X			X	X	X	X	X	X	X	X	X	X	X	X		
	75P-1																			Rev 2

REACTOR COOLANT FILTER DLW 2-1310

1st Interval

IWC-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

C1.1	Circumferential Butt Welds	1.67% of each weld in each Period
C1.2	Nozzle to Vessel Weld	Not Applicable
C1.3	Integrally Welded Supports	Examine 100% of 1 support in 1st Period
C1.4	Pressure Retaining Bolting	Not Applicable

C1.1

Welds #1 & 2

1st Period: Examine 9/16" min. from 0" to .562", clockwise

2nd Period: Examine 9/16" min. from 11.25" to 11.81", clockwise (deferred to 3rd Period)

3rd Period: Examine 9/16" min. from 22.51" to 23.07", clockwise

C1.3

Support 1WS

1st Period: Examine 100%

ITEM NO.		CATEGORY NO.		DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
75S		75S		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD			
C1.1		C-A		2-1310	1	X	(X)		X	/											Notes 10, 17)		
					2	X	(X)		X	/													
C1.2		C-B		2-1310	--	X															Not Applicable		
C1.3		C-C		2-1310	1WS		X		X														
					2WS		X																
					3WS		X																
C1.4		C-D		2-1310	--	X		X													Not Applicable		

TYPP-1

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Rev 2

SEAL WATER RETURN FILTER DLW 2-1320

1st Interval

IWC-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

C1.1	Circumferential Butt Welds	Examine 1.67% of each weld in each Period
C1.2	Nozzle to Vessel Weld	Not Applicable
C1.3	Integrally Welded Supports	Examine 100% of 1 support in 1st Period
C1.4	Pressure Retaining Bolting	Not Applicable

C1.1

Welds #1 & 2

1st Period: Examine 7/8" min. from 0" to .850", clockwise

2nd Period: Examine 7/8" min. from 16.75" to 17.60", clockwise

3rd Period: Examine 7/8" min. from 33.51" to 34.36", clockwise

C1.3

Support 1WS

1st Period: Examine 100%

COMPONENT: SEAL WATER RETURN FILTER CH-FL-3

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		755	755	SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST		2ND
C1.1	C-A			2-1320	1	X	(X)		X	X	/									(Notes 10, 17)
C1.2	C-B			2-1320	--	X	(X)		X	X	/									(Notes 10, 17)
C1.3	C-C			2-1320	1WS 2WS 3WS 4WS	X			X	X										Not Applicable
C1.4	C-D			2-1320	--	X														Not Applicable
	TYPE-1																			Rev 2

PIPING

1st Interval

<u>IWC-2600 ITEM</u>	<u>IWC-2520 CATEGORY</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
C2.1	C-F	Circumferential Butt Welds	Examine 100% of each weld
C2.2	C-F	Longitudinal Welds in Fittings	<u>Single Stream</u> : Examine all welds at structural discontinuities over 4 Intervals.
C2.3	C-F	Branch pipe-to-pipe welds	<u>Multiple Streams</u> : Examine the equivalent of all welds in one stream distributed among the streams over 4 Intervals.
C2.1	C-G	Circumferential Butt Welds	Examine 100% of each weld
C2.2	C-G	Longitudinal Welds in Fittings	<u>Single Stream</u> : Examine 50% of total welds at structural discontinuities over 4 Intervals.
C2.3	C-G	Branch pipe-to-pipe welds	<u>Multiple Streams</u> : Examine the equivalent of 50% of total welds in one stream at structural welds distributed among the streams over 4 Intervals.

C2.1	C-F,C-G	DLW-2-2110 thru 2-2525	1st Interval distribution
C2.2	C-G	DLW-2-2110, -2120, -2130	1st Interval distribution
C2.3	C-F,C-G	DLW-2-2111, -2121, -2131 6" Safety valve connections; (3 streams) 5 welds/stream	Welds not accessible - Examine one reinforcement saddle (2 welds) per loop

Note: Multiple streams denoted by "A", "B", etc.
Single streams denoted by "S"

PIPING

1st Interval

IWC-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

C2.4

Pressure retaining bolting
over 1" DiameterVisually examine all bolts, studs, nuts,
bushings, and threads in base material and
flange ligaments between threaded stud
holes.NDE examine 10% of bolting in each joint
(min. of 2 bolts or studs) each interval.

C2.4

STUDS AND NUTS (2/Stud)

DLW-2-2600

1st Period: Examine #1, 2, 3

2nd Period: Examine #4, 5, 6, 10,
11, 12, 13, 14, 15, 16
17, 18, 193rd Period: Examine #7, 8, 9, 20, 21,
22, 23, 24

COMPONENT: 32" CIRCUMFERENTIAL BUTT WELDS (MAIN STEAM)

ITEM NO	CATEGORY NO	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO	IDENT NO	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																			
C2.1	C-6	2-2130	1 3 4 6 7 9	X X X X X X																
C2.1	C-6	2-2131	1 8 15 16 17 19	X X X X X X	"C"	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 23)	
																				(Notes 10,11,5) (Note 23)
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COMPONENT: 16" CIRCUMFERENTIAL BUTT WELDS (FEEDWATER)

ITEM NO.	CATEGORY NC.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	75S																	
C2.1	C-G	2-2220	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	X X X X X X X X X X X X X X X		X												(Notes 23) (Note 25)

"B"

COMPONENT: 14" CIRCUMFERENTIAL BUTT WELDS (RHR)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C2.1	C-F	2-2310	34 35 "A" 36 37 38 79	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: 12" CIRCUMFERENTIAL BUTT WELDS (RHR)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
75S	75S																			
C2.1	C-F	2-2310	25 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 70	X X X X X X X X X X X X X X X X X			X X													
	YYP-1		"S"					X X X												Rev 2

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COMPONENT: 12" CIRCUMFERENTIAL BUTT WELDS (RHR)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S			VOL. SUR. VIS.	•	•	•	•	•	•	•	•	•	•	•	•	
C2.1	C-F	2-2312	1 2 3 4 5 7 8 9 "S"	X	X	X	X	X	X	X	X	X	X	X	X	X	
					/	/											

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COMPONENT: 12" ACCUMULATOR DISCHARGE LINE Loops 1, 2 & 3

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
			VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75C	75S																	
C2.1	C-F	2-2508	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
																		/
																		X
C2.1	C-F	2-2509	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
																		X
																		X
C2.1	C-F	2-2510	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
																		X
																		X
	TYPP-1																	

COMPONENT: 12" LOW HEAD SAFETY INJECTION

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
75S																				
C2.1	C-F	2-2521	[27 28 29 30 31 32] "B" [33 34 35 36 37 38 39 40 41 42 43 44 45] "A"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25) Inaccessible (Underground) " " " " " " (Note 25)	
																				Rev 3

X X

COMPONENT: 12" RECIRCULATING SPRAY

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S			X	(X)														
C2.1	C-F	2-2522	1	X	(X)														Note 24
			2	X	(X)														(Note 25)
			3	X	(X)														(Note 25)
			4	X	(X)														(Note 25)
			5	X	(X)														(Note 25)
			6	X	(X)														(Note 25)
			7	X	(X)														(Note 25)
			8	X	(X)														(Note 25)
			9	X	(X)														(Note 25)
			10	X	(X)														(Note 25)
			11	X	(X)														(Note 25)
			12	X	(X)														(Note 25)
			13	X	(X)														(Note 25)
			14	X	(X)														(Note 25)
			15	X	(X)														(Note 25)
			16	X	(X)														(Note 25)
			17	X	(X)														(Note 25)
			18	X	(X)														(Note 25)
			19	X	(X)														(Note 25)
			20	X	(X)														(Note 25)
			21	X	(X)														(Note 25)
			22	X	(X)														(Note 25)
			23	X	(X)														(Note 25)
			24	X	(X)														(Note 25)
			25	X	(X)														(Note 25)
			26	X	(X)														(Note 25)

COMPONENT: 10" CIRCUMFERENTIAL BUTT WELDS (RHR)

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
			VOL	SUR VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S																	
C2.1	75S C-F	2-2310	18	X (X)													Notes 10, 11, 5)
			19	X (X)													Notes 10, 11, 5)
			20	X (X)													Notes 10, 11, 5)
		"B"	21	X	X												
			22	X													
			23	X													
			24	X													
			40	X (X)													Notes 10, 11, 5)
			41	X (X)													Notes 10, 11, 5)
			42	X (X)													Notes 10, 11, 5)
		"A"	43	X													
			44	X													
			45	X													
			46	X													
			47	X													
			63	X													
			64	X													
			65	X													
			66	X													
		"A"	67	X													
			68	X (X)													Notes 10, 11, 5)
			69	X													

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COMPONENT: 10" CIRCUMFERENTIAL BUTT WELDS (RHR)																						
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS				
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD			
75S	75S																					
C2.1	C-F	2-2310	71 72 73 74 75 76 77 78	X X X X X X X X	(X)															(Notes 10, 11, 5)		
C2.1	C-F	2-2311	1 2 3 4 5 7 8 9 10 11 12 13 14	X X X X X X X X X X X X X	(X)	/															(Notes 10, 11, 5)	
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COMPONENT: 10" RECIRCULATION SPRAY

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
			VOL	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																	
C2.1	C-F	2-2513	10	X	(X)	(X)											Note 24	
			11	X	(X)	(X)												
			13	X	(X)	(X)												
			14	X	(X)	(X)												
		"B"	18	X	(X)	(X)											(Note 25)	
			19	X	(X)	(X)	X											
			20	X	(X)	(X)	X											
			22	X	(X)	(X)	X											
			23	X	(X)	(X)	X											
			24	X	(X)	(X)	X											
C2.1	C-F	2-2514	1	X	(X)	(X)											Note 24	
			3	X	(X)	(X)												
			4	X	(X)	(X)												
			5	X	(X)	(X)												
			6	X	(X)	(X)												
			8	X	(X)	(X)												
			9	X	(X)	(X)												
		"C"	10	X	(X)	(X)											(Note 25)	
			15	X	(X)	(X)												
			16	X	(X)	(X)												
			17	X	(X)	(X)												
			18	X	(X)	(X)												
			19	X	(X)	(X)												
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COMPONENT: 10" RECIRCULATION SPRAY

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS																																
		SKETCH NO.			VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD																																	
C2.1	755	C-F	2-2514	20	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	Note 24																																
																					21	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	(Note 25)													
																					22	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	(Note 25)											
																					23	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		(Note 25)										
																					24	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			(Note 25)									
																					25	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•				(Note 25)								
																					26	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•					(Note 25)							
																					27	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•						(Note 25)						
																					28	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•							(Note 25)					
																					29	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•								(Note 25)				
																					30	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•									(Note 25)			
																					31	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•										(Note 25)		
																					32	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•											(Note 25)	
																					33	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•												(Note 25)
																					34	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•												
35	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	(Note 25)																																	
C2.1	755	C-F	2-2515	1	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•		•	Note 24																															
																						3	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•	(Note 25)														
																						4	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•		•	(Note 25)												
																						5	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•		•		(Note 25)											
																						6	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•		•			•	(Note 25)									
																						9	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•		•			•		(Note 25)								
																						12	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•	•		•			•			(Note 25)							
C2.1	755	C-F	2-2515	12	(X)	(X)	(X)	•	•	•	•	•	•	•	•	•	•	•		Note 24																																
<p style="text-align: right;">Page C2-25</p> <p style="text-align: right;">TYP-1</p>																																																				

COMPONENT: 10" SIS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C2.1	C-F	2-2516	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	X X	X X	X X													PSI for #1-15 in 1st Per.

"A"

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(Note 25)

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10" SIS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C2.1	C-F	2-2519	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	PSI for #1-15 & #18-26 in 1st Per.
			2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

(Note 25)
(Note 25)

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COMPONENT: 8" RECIRCULATING SPRAY

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C2.1	C-F	2-2522	[29 "A" 30 31]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25)
			[32 "B" 33 34]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25)
C2.1	C-F	2-2523	[16 "A" 17 18]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25)
			[19 "B" 20 21]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25)
C2.1	C-F	2-2524	[18 "A" 19 20]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25)
			[21 "B" 22 23]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25)
C2.1	C-F	2-2525	[24 "A" 25 26]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25)
			[27 "B" 28]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(Note 25)

COMPONENT: 6" CIRCUMFERENTIAL BUTT WELDS (MAIN STEAM)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755																				
C2.1	C-G	2-2111	[5 7 10 12 14 18] "A"	X	X	X														
C2.1	C-G	2-2121	[5 7 10 12 14 18] "B"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C2.1	C-G	2-2131	[5 7 10 12 14 18] "C"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	TYPE-1		Page C2-32																	

COMPONENT: 6" CIRCUMFERENTIAL BUTT WELD (RHR)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
C2.1	C-F	2-2312	S [6	X	(X)	X													Notes 10, 11, 5 1st Per. - UT only

COMPONENT: 6" CIRCUMFERENTIAL BUTT WELDS (CVCS)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL		SECOND INTERVAL		THIRD INTERVAL		FOURTH INTERVAL		REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	
75S	75S														
C2.1	C-F	2-2410	23	X	(X)	(X)									Note 24
			24	X	(X)	(X)									
			25	X	(X)	(X)									
			26	X	(X)	(X)									
			27	X	(X)	(X)									
			28	X	(X)	(X)									
			29	X	(X)	(X)									
			30	X	(X)	(X)									
			31	X	(X)	(X)									
			32	X	(X)	(X)									
			33	X	(X)	(X)									
			34	X	(X)	(X)									
			35	X	(X)	(X)									
			36	X	(X)	(X)									
			37	X	(X)	(X)									
			38	X	(X)	(X)									
			39	X	(X)	(X)									
			40	X	(X)	(X)									
			41	X	(X)	(X)									
			42	X	(X)	(X)									
			43	X	(X)	(X)									
			44	X	(X)	(X)									
			45	X	(X)	(X)									
			46	X	(X)	(X)									
			47	X	(X)	(X)									
			48	X	(X)	(X)									
			49	X	(X)	(X)									
			50	X	(X)	(X)									
			51	X	(X)	(X)									
			52	X	(X)	(X)									
			53	X	(X)	(X)									
			54	X	(X)	(X)									
			55	X	(X)	(X)									
			56	X	(X)	(X)									
			57	X	(X)	(X)									
			58	X	(X)	(X)									
			59	X	(X)	(X)									
			60	X	(X)	(X)									
			61	X	(X)	(X)									
			62	X	(X)	(X)									
			63	X	(X)	(X)									
			64	X	(X)	(X)									
			65	X	(X)	(X)									
			66	X	(X)	(X)									
			67	X	(X)	(X)									
			68	X	(X)	(X)									
			69	X	(X)	(X)									
			70	X	(X)	(X)									
			71	X	(X)	(X)									
			72	X	(X)	(X)									
			73	X	(X)	(X)									
			74	X	(X)	(X)									
			75	X	(X)	(X)									
			76	X	(X)	(X)									
			77	X	(X)	(X)									
			78	X	(X)	(X)									
			79	X	(X)	(X)									
			80	X	(X)	(X)									
			81	X	(X)	(X)									
			82	X	(X)	(X)									
			83	X	(X)	(X)									
			84	X	(X)	(X)									
			85	X	(X)	(X)									
			86	X	(X)	(X)									
			87	X	(X)	(X)									
			88	X	(X)	(X)									
			89	X	(X)	(X)									
			90	X	(X)	(X)									
			91	X	(X)	(X)									
			92	X	(X)	(X)									
			93	X	(X)	(X)									
			94	X	(X)	(X)									
			95	X	(X)	(X)									
			96	X	(X)	(X)									
			97	X	(X)	(X)									
			98	X	(X)	(X)									
			99	X	(X)	(X)									
			100	X	(X)	(X)									
			101	X	(X)	(X)									
			102	X	(X)	(X)									
			103	X	(X)	(X)									
			104	X	(X)	(X)									
			105	X	(X)	(X)									
			106	X	(X)	(X)									
			107	X	(X)	(X)									
			108	X	(X)	(X)									
			109	X	(X)	(X)									
			110	X	(X)	(X)									
			111	X	(X)	(X)									
			112	X	(X)	(X)									
			113	X	(X)	(X)									
			114	X	(X)	(X)									
			115	X	(X)	(X)									
			116	X	(X)	(X)									
			117	X	(X)	(X)									
			118	X	(X)	(X)									
			119	X	(X)	(X)									
			120	X	(X)	(X)									
			121	X	(X)	(X)									
			122	X	(X)	(X)									
			123	X	(X)	(X)									
			124	X	(X)	(X)									
			125	X	(X)	(X)									
			126	X	(X)	(X)									
			127	X	(X)	(X)									
			128	X	(X)	(X)									
			129	X	(X)	(X)									
			130	X	(X)	(X)									
			131	X	(X)	(X)									
			132	X	(X)	(X)									
			133	X	(X)	(X)									
			134	X	(X)	(X)									
			135	X	(X)	(X)									
			136	X	(X)	(X)									
			137	X	(X)	(X)									
			138	X	(X)	(X)									
			139	X	(X)	(X)									
			140	X	(X)	(X)									
			141	X	(X)	(X)									
			142	X	(X)	(X)									
			143	X	(X)	(X)									
			144	X	(X)	(X)									
			145	X	(X)	(X)									
			146	X	(X)	(X)									
			147	X	(X)	(X)									

COMPONENT: 6" CIRCUMFERENTIAL BUTT WELDS (CVCS)

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	DLW		VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																			
C2.1	C-F	2-2410		47	X	(X)	(X)													Note 24
				48	X	(X)	(X)													
				49	X	(X)	(X)													
			"C"	50	X	(X)	(X)													
				51	X	(X)	(X)													
				52	X	(X)	(X)													
				53	X	(X)	(X)													
				54	X	(X)	(X)													(Notes 10, 11, 5)
				76	X	(X)	(X)													
				77	X	(X)	(X)													
				78	X	(X)	(X)													PT only 1st Per.
			"B"	79	X	(X)	(X)													
				80	X	(X)	(X)													
				81	X	(X)	(X)													
				82	X	(X)	(X)													
				83	X	(X)	(X)													

COMPONENT: 6" CIRCUMFERENTIAL BUTT WELDS (CVCS)

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.			VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755				X	(X)														
C2.1	C-F	2-2411		1	X	(X)	/													Note 24
				2	X	(X)	/													
				3	X	(X)														
				4	X	(X)														
				5	X	(X)														
				6	X	(X)														
				7	X	(X)														
				8	X	(X)														
				9	X	(X)														
				10	X	(X)														
				11	X	(X)														
				12	X	(X)														
				13	X	(X)														
				14	X	(X)														
				15	X	(X)														
				16	X	(X)														
				17	X	(X)														
				18	X	(X)														
				19	X	(X)														
				20	X	(X)														
				21	X	(X)														
				22	X	(X)														
				23	X	(X)														
				24	X	(X)														

COMPONENT: 6" CIRCUMFERENTIAL BUTT WELDS (CVCS)

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	DLW		VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	755																				
C2.1	C-F	2-2411		25 26 27 28 29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
				"C"																	
C2.1	C-F	2-2412		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Note 24
				"B"																	

COMPONENT: 6" CIRCUMFERENTIAL BUTT WELDS (CVCS)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	755																			
C2.1	C-F	2-2412	18 "B" 19 20	X	(X)	(X)														Note 24

COMPONENT: 6" HOT LEG LOW HEAD SIS

ITEM NO.	CATEGORY NO.	SKETCH NO.	DLW	EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755			IDENT. NO.															
C2.1	C-F	2-2501	"C"	1-10	X			X											
			"A"	11-20	X				/										
			"S"	21-25	X					X									
	TYPP-1		page C2-41		X														

COMPONENT: 6" HOT LEG SIS - LOOP 1

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755		VOL SUR VIS.	•	•	•	•	•	•	•	•	•	•	•	•	
C2.1	C-F	2-2502	X	/	/											
		1	X													
		2	X													
		3	X													
		4	X													
		5	X													
		6	X													
		7	X													
		8	X													
		9	X													
		10	X													
		11	X													
		12	X													
		13	X													
		14	X													
		15	X													
		16	X													
		17	X													
		"B"														
		Ref. "A" on 2-2504														
		Ref. "C" on 2-2503														
	TYPP-1															

COMPONENT: 6" HOT LEG SIS LOOP 3

ITEM NO	CATEGORY NO	CLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
			VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S	SKETCH NO. 2-2504	IDENT. NO. 1 2 3 4 5 6 7 8	X														
C2.1	C-F		"A"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			Ref. "B" on 2-2502															
			Ref. "C" on 2-2503															
			page C2-44															
	TYPP-1																	Rev 2

COMPONENT: 6" COLD LEG LOW HEAD SIS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	755																			
C2.1	C-F	2-2505	1 2 3 4 5 6	X	X	X	X	X	X	X										

X

"B"

page C2-45

TYPP-1

Rev 2

COMPONENT: 6" COLD LEG LOW HEAD SIS LOOPS 1, 2 & 3

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C2.1	C-F	2-2506	[1 2 3 4 5 6 7] "C"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Ref. 2-2505
C2.1	C-F	2-2507	"A" [1 2 "B" [3 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Ref. 2-2505
	TYPE-1																		Page C2-46

COMPONENT: 6" BORON INJECTION TANK

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
C2.1	C-F	2-2511	1 2 3(DM) 4(DM)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

page C2-47

TYPE-1

Rev 2

COMPONENT: 6" RECIRC. SPRAY SYSTEM

ITEM NO	CATEGORY NO	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
C2.1	C-F	2-2517	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	X X X X X X X X X X X X X X X X X X X		X X X X X X X X X X X X X X X X X X												PSI in 1st Per.

COMPONENT: 6" SIS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
C2.1	C-F	2-2519	27 28 29 30 31 32 33 34 35 36 37 38	"B"	X X X X X X X X X X X	X X X X X X X X X X X	X X X X X X X X X X X	X X X X X X X X X X X										(Note 25) (Note 25) (Note 25) (Note 25) Preservice in 1st period for #27-36 (Note 24) (Note 24 & 25) (Note 24)	
C2.1	C-F	2-2520	4 5 6 7 8 9	"A"	X X X X X X	X X X X X X	X X X X X X	X X X X X X											
			22 23	"C"	X X	X X	X X	X X											
			34 35	"B"	X X	X X	X X	X X											
	JYPP-1																		rev 2

COMPONENT: 32" LONGITUDINAL WELD JOINTS (LONG SEAMS)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	755																			
C2.2	C-G	2-2110	[2LS 5LS 8LS 10LS 11LS 12LS] "A"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C2.2	C-G	2-2120	[2LS 5LS 8LS 10LS 11LS 12LS] "B"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C2.2	C-G	2-2130	[2LS 5LS 8LS 10LS 11LS 12LS] "C"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		(3 Streams)																		

COMPONENT: BRANCH PIPE TO PIPE WELD JOINTS (BRANCH CONNECTIONS)

ITEM NO	CATEGORY NO	DLW	IDENT. NO.	EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755																			
C2.3	C-6	2-2111	2	X															Inaccessible
			2A		(X)			X											Use MT
			2B		(X)			X											Use MT
			2C		(X)			X											Use MT
			2D		(X)			X											Use MT
			3	X															Inaccessible
			3A		(X)			X											Use MT
			3B		(X)			X											Use MT
			4	X															Inaccessible
			4A		(X)				X										Use MT
			4B		(X)				X										Use MT
			6	X															Inaccessible
			6A		(X)														
			6B		(X)														
			9	X															Inaccessible
			9A		(X)														
			9B		(X)														
			11	X															Inaccessible
			11A		(X)														
			11B		(X)														
			13	X															Inaccessible
			13A		(X)														
			13B		(X)														

COMPONENT: BRANCH PIPE TO PIPE WELD JOINTS (BRANCH CONNECTIONS)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755																			
C2.3	C-G	2-2121	2	X	(X)		X	X	X	X	X								Inaccessible
			2A		(X)			X											Use MT
			2B		(X)			X											Use MT
			2C		(X)						X								Use MT
			2D		(X)						X								Use MT
			3	X															Inaccessible
			3A		(X)			X											Use MT
			3B		(X)			X											Use MT
			4	X															Inaccessible
			4A		(X)														
			4B		(X)														
			6	X															Inaccessible
			6A		(X)						X								Use MT
			6B		(X)						X								Use MT
			9	X															Inaccessible
			9A		(X)														
			9B		(X)														
			11	X															Inaccessible
			11A		(X)														
			11B		(X)														
			13	X															Inaccessible
			13A		(X)														
			13B		(X)														

COMPONENT: BRANCH PIPE TO PIPE WELD JOINTS (BRANCH CONNECTIONS)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
C2.3	C-G	2-2131	2	X	(X)		X	X											Inaccessible Use MT
			2A		(X)			X											Use MT
			2B		(X)			X											Use MT
			2C		(X)					/									Use MT
			2D		(X)					/									Use MT
			3			X													Inaccessible
			3A		(X)														Use MT
			3B		(X)					/									Use MT
			4			X													Inaccessible
			4A		(X)														
			4B		(X)														
			6			X													Inaccessible
			6A		(X)														
			6B		(X)														
			9			X													Inaccessible
			9A		(X)														Use MT
			9B		(X)														Use MT
			11			X													Inaccessible
			11A		(X)														Use MT
			11B		(X)					/									Use MT
			13			X				/									Inaccessible
			13A		(X)					/									Use MT
			13B		(X)					/									Use MT

COMPONENT: PRESSURE RETAINING BOLTING (PIPING)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	75S			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C2.4	C-D	2-2600	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

INTEGRALLY WELDED SUPPORTS

Ist Interval

IWC-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

C2.5

Integrally-welded Supports
 NOTE: Support components (C2.6)
 connected to integrally-welded
 supports are visually examined (3)
 and identified by the C2.5 item
 number of DLW-2-2700

100% of load bearing elements of the support
 Single Stream: Examine 100% of the supports during
 each interval
 Multiple Streams: Examine the equivalent of 100% of
 the supports in one stream distributed
 among the streams during each interval

C2.5

Integrally-Welded Supports - Refer to DLW-2-2700 for Item Numbers
 1st Period: Examine Items: 14, 21, 35, 36, 37, 43, 48, 50, 53, 85, 92, 113, 141.
 2nd Period: Examine Items: 10, 29, 38, 40, 50, 65, 69, 113, 122, 133, 173, 186, 189,
 220, 227, 228, 236, 237, 246, 249, 296, 301
 3rd Period: Examine Items: 7, 9, 19, 31, 49, 51, 56, 58, 60, 61, 67, 72, 87, 89, 96,
 100, 123, 150, 170, 175, 208, 213, 245, 252, 272, 277, 280, 297,
 303, 304, 307, 352, 357, 376.

COMPONENT: INTEGRALLY-WELDED SUPPORTS

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
			VOL.	SUR. VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																	
C2.5	CE-1	2-2700			35	X	X	X	X	X	X	X	X	X	X	X	X	
					36	X	X	X	X	X	X	X	X	X	X	X	X	
					37	X	X	X	X	X	X	X	X	X	X	X	X	
					38	X	X	X	X	X	X	X	X	X	X	X	X	
					40	X	X	X	X	X	X	X	X	X	X	X	X	
					41	X	X	X	X	X	X	X	X	X	X	X	X	
					43	X	X	X	X	X	X	X	X	X	X	X	X	
					44	X	X	X	X	X	X	X	X	X	X	X	X	
					46	X	X	X	X	X	X	X	X	X	X	X	X	
					48	X	X	X	X	X	X	X	X	X	X	X	X	
					49	X	X	X	X	X	X	X	X	X	X	X	X	
					50	X	X	X	X	X	X	X	X	X	X	X	X	
					51	X	X	X	X	X	X	X	X	X	X	X	X	
					53	X	X	X	X	X	X	X	X	X	X	X	X	
					56	X	X	X	X	X	X	X	X	X	X	X	X	
					58	X	X	X	X	X	X	X	X	X	X	X	X	
					60	X	X	X	X	X	X	X	X	X	X	X	X	
					61	X	X	X	X	X	X	X	X	X	X	X	X	
					65	X	X	X	X	X	X	X	X	X	X	X	X	
					67	X	X	X	X	X	X	X	X	X	X	X	X	
					69	X	X	X	X	X	X	X	X	X	X	X	X	
					72	X	X	X	X	X	X	X	X	X	X	X	X	
					83	X	X	X	X	X	X	X	X	X	X	X	X	

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Rev 3

COMPONENT:		INTEGRALLY-WELDED SUPPORTS																		
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. NO.	VOL.	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
755	75S																			
C2.5	CE-1	2-2700	85	X			X													
			87	X			X													
			89	X			X													
			92	X			X													
			96	X			X													
			100	X			X													
			109	X			X													
			113	X			X													
			116	X			X													
			122	X			X													
			123	X			X													
			125	X			X													
			131	X			X													
			133	X			X													
			137	X			X													
			138	X			X													
			141	X			X													
			150	X			X													
			156	X			X													
			157	X			X													
			170	X			X													
			173	X			X													
			175	X			X													
			183	X			X													

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TYPP-1

COMPONENT: INTEGRALLY WELDED SUPPORTS																					
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS			
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD		
75S	75S																				
C2.5	CE-1	2-2700	186	X	X		X														
			187	X	X																
			189	X	X																
			195	X	X																
			206	X	X																
			209	X	X																
			213	X	X																
			214	X	X																
			216	X	X																
			219	X	X																
			220	X	X																
			221	X	X																
			222	X	X																
			226	X	X																
			227	X	X																
			234	X	X																
			236	X	X																
			237	X	X																
			239	X	X																
			245	X	X																
			246	X	X																
			249	X	X																
			251	X	X																
			252	X	X																
			272	X	X																
	TYPP-1																				
		page C2-61																			

Rev 3

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COMPONENT: INTEGRALLY WELDED SUPPORTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C2.5	CE-1	2-2700	273	X															
			277	X															
			279	X															
			280	X															
			287	X															
			296	X															
			297	X															
			301	X															
			303	X															
			304	X															
			307	X															
			326	X															
			333	X															
			352	X															
			357	X															
			371	X															
			376	X															
			412	X															

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Rev 3

SUPPORT COMPONENTS

1st Interval

IWC-2600
ITEMAREA EXAMINEDQUANTITY INSPECTED

C2.6

Support Components

Single Stream: Examine all supports during each interval.

NOTE: Support components connected to integrally welded supports (C-2.5) are visually examined and identified by the C2.5 item number of DLW-2-2700.

Multiple Streams: Examine the equivalent of all supports in one stream distributed among the streams during each interval.

C2.6

1st Period - Examine Items: 1,2,20,22,35,36,37,43,44,47,48,50,53,70,71,85,92,94,105,106,107,108,110,111,112,118 & 141.

2nd Period - Examine Items: 10,28,38,40,55,62,63,64,65,66,68,69,73,90,91,95,97,98,99,119,120,121,133,145,146,147,148,158,161,169,173,180,181,186,188,191,196,197,207,215,225,237,247,249,254,256,259,264,265,284,285,287,290,296,301,302,305,306,322,327,348,366,384,394,404 & 405.

3rd Period - Examine Items: 9,13,14,19,21,34,42,46,49,56,58,59,60,61,67,74,77,78,79,87,93,102,122,123,125,126,127,128,149,150,151,152,160,170,174,177,192,198,199,211,214,224,229,238,246,248,253,255,260,266,267,271,272,274,276,288,289,294,295,297,298,299,300,318,319,320,335,336,339,340,347,350,355,356,359,360,367,368,369,370,373,374,392,395,396,397,412,413,417 & 418.

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COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C2.6	CE-2	2-2700	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			2	X		X													
			3	X		X													
			4	X		X													
			5	X		X													
			6	X		X													
			7	X		X													
			8	X		X													
			9	X		X													
			10	X		X													
			11	X		X													
			12	X		X													
			13	X		X													
			14	X		X													
			15	X		X													
			16	X		X													
			17	X		X													
			18	X		X													
			19	X		X													
			20	X		X													
			21	X		X													
			22	X		X													
			23	X		X													
			24	X		X													
			25	X		X													

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Rev 3

SUPPORT COMPONENTS

COMPONENT:

ITEM NO.	CATEGORY NO.	DLW	IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
				VOL. SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																		
C2.6	CE-2	2-2700	26	X		X													Support components connected to integrally welded supports (C-2.5) are visually examined (#) and identified by the C2.5 item number of DLW-2-2700
			27	X															
			28	X		X													
			29	X		X													
			30	X		X													
			31	X		X													
			32	X		X													
			33	X		X													
			34	X		X													
			35	X		X													
			36	X		X													
			37	X		X													
			38	X		X													
			39	X		X													
			40	X		X													
			41	X		X													
			42	X		X													
			43	X		X													
			44	X		X													
			45	X		X													
			46	X		X													
			47	X		X													
			48	X		X													
			49	X		X													
			50	X		X													

COMPONENT: SUPPORT COMPONENTS																				
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																			
C2.6	CE-2	2-2700	51	X		X														Support components connected to integrally welded supports (C-2.5) are visually examined (#) and identified by the C2.5 item number of DLW-2-2700
			52	X		X														
			53	X		X														
			54	X		X														
			55	X		X														
			56	X		X														
			57	X		X														
			58	X		X														
			59	X		X														
			60	X		X														
			61	X		X														
			62	X		X														
			63	X		X														
			64	X		X														
			65	X		X														
			66	X		X														
			67	X		X														
			68	X		X														
			69	X		X														
			70	X		X														
			71	X		X														
			72	X		X														
			73	X		X														
			74	X		X														
			75	X		X														

SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C2.6	CE-2	2-2700	101	X															
			102	X				/											
			103	X															
			104	X															
			105	X				X											
			106	X				X											
			107	X				X											
			108	X				X											
			109	X				X											
			110	X				X											
			111	X				X											
			112	X				X											
			113	X				X											
			114	X				X											
			115	X				X											
			116	X				X											
			117	X				X											
			118	X				X											
			119	X				X											
			120	X				X											
			121	X				X											
			122	X				X											
			123	X				X											
			124	X				X											

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C2.6	CE-2	2-2700	125	X															
			126	X															
			127	X															
			128	X															
			129	X															
			130	X															
			131	X															
			132	X															
			133	X															
			134	X															
			135	X															
			136	X															
			137	X															
			138	X															
			139	X															
			140	X															
			141	X															
			142	X															
			143	X															
			144	X															
			145	X															
			146	X															
			147	X															
			148	X															
			149	X															

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW	IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
				VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
C2.6	CE-2	2-2700	150	X		/												
			151	X		X												
			152	X		X												
			153	X		X												
			154	X		X												
			155	X		X												
			156	X		X												
			157	X		X												
			158	X		X												
			159	X		X												
			160	X		X												
			161	X		X												
			162	X		X												
			163	X		X												
			164	X		X												
			165	X		X												
			166	X		X												
			167	X		X												
			168	X		X												
			169	X		X												
			170	X		X												
			171	X		X												
			172	X		X												
			173	X		X												
			174	X		X												

COMPONENT: SUPPORT COMPONENTS																			
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																		
C2.6	CE-1	2-2700	225		X	X		X											
			226		X	X													
			227		X	X													
			229		X	X													
			230		X	X													
			231		X	X													
			232		X	X													
			233		X	X													
			234		X	X													
			235		X	X													
			236		X	X													
			237		X	X													
			238		X	X													
			239		X	X													
			240		X	X													
			241		X	X													
			242		X	X													
			243		X	X													
			244		X	X													
			245		X	X													
			246		X	X													
			247		X	X													
			248		X	X													
			249		X	X													

COMPONENT:		SUPPORT COMPONENTS												REMARKS			
ITEM NO	CATEGORY NO	DLW		EXAMINATION METHODS			FIRST INTERVAL		SECOND INTERVAL		THIRD INTERVAL		FOURTH INTERVAL				
		SKETCH NO	IDENT NO	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST		2ND	3RD	
75S	75S																
C2.6	CE-2	2-2700	252	X		X											
			253	X		X											
			254	X		X											
			255	X		X											
			256	X		X											
			257	X		X											
			258	X		X											
			259	X		X											
			260	X		X											
			261	X		X											
			262	X		X											
			263	X		X											
			264	X		X											
			265	X		X											
			266	X		X											
			267	X		X											
			268	X		X											
			269	X		X											
			270	X		X											
			271	X		X											
			272	X		X											
			273	X		X											
			274	X		X											

COMPONENT: SUPPORT COMPONENTS

ITEM NO	CATEGORY NO	DLW	EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
			VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
2.6	CE-2	2-2700			X													
		275			X													
		276			X													
		277			X													
		280			X													
		281			X													
		283			X													
		284			X													
		285			X													
		286			X													
		287			X													
		288			X													
		289			X													
		290			X													
		291			X													
		292			X													
		293			X													
		294			X													
		295			X													
		296			X													
		297			X													
		298			X													
		299			X													

COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																		
C2.6	CE-2	2-2700	325	X															
			326	X															
			327	X					X										
			328	X															
			329	X															
			330	X															
			331	X															
			332	X															
			333	X															
			334	X															
			335	X															
			336	X															
			337	X															
			338	X															
			339	X															
			340	X															
			341	X															
			342	X															
			343	X															
			344	X															
			345	X															
			346	X															
			347	X															
			348	X															
			349	X															

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COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL. SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
C2.6	CE-2	2-2700	350		X	X		X										
			351		X													
			352		X													
			353		X													
			354		X													
			355		X													
			356		X													
			357		X													
			358		X													
			359		X													
			360		X													
			361		X													
			362		X													
			363		X													
			364		X													
			365		X													
			366		X													
			367		X													
			368		X													
			369		X													
			370		X													
			371		X													
			372		X													
			373		X													
			374		X													

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COMPONENT: SUPPORT COMPONENTS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
C2.6	CE-2	2-2700	375	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			376	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			377	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			378	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			379	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			380	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			381	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			382	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			383	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			384	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			385	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			386	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			387	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			388	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			389	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			390	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			391	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			392	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			393	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			394	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			395	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			396	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			397	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			398	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			399	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

PUMPS
1st Interval

<u>IWC-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
C3.1	Pump Casing Welds	C-F: 100% of all welds distributed over 4 Intervals C-G: 50% of all welds distributed over 4 Intervals
C3.2	Pressure Retaining Bolting	Multiple Streams: Examine 1 pump equivalent during Interval Visual - 33 1/3% in each Period Volumetric - 10%
C3.3	Integrally welded Supports	100% of the load bearing elements of the support during each Interval
C3.4	Support Components	100% of support components during each Interval

RESIDUAL HEAT REMOVAL PUMPS DLW-2-3100

C3.1	<u>Pump casing welds</u>	Not Applicable
C3.2	<u>Bolting - visual examinations</u>	
	1st Period: Defer to 2nd Period	
	2nd Period: Examine 1-B1 thru 1-B16	
	3rd Period: Examine 1-B17 thru 1-24	
	<u>Bolting - volumetric examinations</u>	
	2nd Period: Examine 3 bolts, 1-B1 thru 1-B3	
C3.3	<u>Integrally-welded supports</u>	Not Applicable
C3.4	<u>Support components</u>	
	1st Period: Defer to 2nd Period	
	2nd Period: Examine 1-1SC and 1-2SC	
	3rd Period: Examine 1-3SC	

CENTRIFUGAL CHARGING PUMPS DLW-2-3110

- C3.1 Pump casing welds (C-F)
3rd Period: Weld 1-1 (pump disassembled)
- C3.2 Bolting - visual examinations
1st Period: Defer to 2nd Period
2nd Period: Examine 1-B1 thru 1-B10
3rd Period: Examine 1-B11 thru 1-B16
Bolting - volumetric examinations
2nd Period: Examine 1-B1 and 1-B2
- C3.3 Integrally-welded supports
1st Period: Defer to 2nd Period
2nd Period: Examine 1-1WS, 1-2WS, 2-3WS
3rd Period: Examine 3-4WS
- C3.4 Support components
1st Period: Defer to 2nd Period
2nd Period: Examine 1-1WS, 1-2WS, 2-3WS
3rd Period: Examine 3-4WS

COMPONENT: RESIDUAL HEAT REMOVAL PUMPS RH-P-1A & RH-P-1B

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS			
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD		
755	755		--	X																	
C3.1	C-F	2-3100																			
C3.2	C-D	2-3100	1-B1	X		X															
			1-B2	X		X															
			1-B3	X		X															
			1-B4	X		X															
			1-B5	X		X															
			1-B6	X		X															
			1-B7	X		X															
			1-B8	X		X															
			1-B9	X		X															
			1-B10	X		X															
			1-B11	X		X															
			1-B12	X		X															
			1-B13	X		X															
			1-B14	X		X															
			1-B15	X		X															
			1-B16	X		X															
			1-B17	X		X															
			1-B18	X		X															
			1-B19	X		X															
			1-B20	X		X															
			1-B21	X		X															
			1-B22	X		X															
			1-B23	X		X															
			1-B24	X		X															

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RESIDUAL HEAT REMOVAL PUMPS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		755	C-D	SKETCH NO.	IDENT. NO.	VOL SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST		2ND	3RD
755																				
C3.2				2-3100	2-B1	X	X													
					2-B2	X	X													
					2-B3	X	X													
					2-B4	X	X													
					2-B5	X	X													
					2-B6	X	X													
					2-B7	X	X													
					2-B8	X	X													
					2-B9	X	X													
					2-B10	X	X													
					2-B11	X	X													
					2-B12	X	X													
					2-B13	X	X													
					2-B14	X	X													
					2-B15	X	X													
					2-B16	X	X													
					2-B17	X	X													
					2-B18	X	X													
					2-B19	X	X													
					2-B20	X	X													
					2-B21	X	X													
					2-B22	X	X													
					2-B23	X	X													
					2-B24	X	X													

RESIDUAL HEAT REMOVAL PUMPS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																		
C3.2	C-D	2-3100	2-B1	X															
			2-B2	X															
			2-B3	X															
			2-B4	X															
			2-B5	X															
			2-B6	X															
			2-B7	X															
			2-B8	X															
			2-B9	X															
			2-B10	X															
			2-B11	X															
			2-B12	X															
			2-B13	X															
			2-B14	X															
			2-B15	X															
			2-B16	X															
			2-B17	X															
			2-B18	X															
			2-B19	X															
			2-B20	X															
			2-B21	X															
			2-B22	X															
			2-B23	X															
			2-B24	X															

COMPONENT: CENTRIFUGAL CHARGING PUMPS CH-P-1A, CH-P-1B and CH-P-1C

ITEM NO.	CATEGORY NO.	DLW	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL		REMARKS
			VOL	SUR VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	
75S	75S															
C3.1	C-F	2-3110	1-1	X		/										(Notes 10, 19)
			2-1	X												
			3-1	X												
C3.2	C-F	2-3110	1-B1	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B2	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B3	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B4	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B5	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B6	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B7	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B8	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B9	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B10	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B11	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B12	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B13	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B14	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B15	X	X	X	X	X	X	X	X	X	X	X	X	
			1-B16	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: CENTRIFUGAL CHARGING PUMPS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C3.2	C-F	2-3110	1-B1 1-B2 1-B3 1-B4 1-B5 1-B6 1-B7 1-B8 1-B9 1-B10 1-B11 1-B12 1-B13 1-B14 1-B15 1-B16	X X X X X X X X X X X X X X X X															

COMPONENT: CENTRIFUGAL CHARGING PUMPS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																		
C3.2	C-F	2-3110	2-B1 2-B2 2-B3 2-B4 2-B5 2-B6 2-B7 2-B8 2-B9 2-B10 2-B11 2-B12 2-B13 2-B14 2-B15 2-B16	X X X X X X X X X X X X X X X X															
C3.2	C-F	2-3110	2-B1 2-B2 2-B3 2-B4 2-B5 2-B6 2-B7	X X X X X X X															
																			Rev 2

COMPONENT: CENTRIFUGAL CHARGING PUMPS

ITEM NO	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS		
		SKETCH NO.	IDENT. N.O.	VOL.	SUR.	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD	
75S	75S																			
C3.2	C-F	2-3110	2-B8 2-B9 2-B10 2-B11 2-B12 2-B13 2-B14 2-B15 2-B16	X X X X X X X X X																

COMPONENT: CENTRIFUGAL CHARGING PUMPS

ITEM NO	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S																	
C3.2	C-F	2-3110	3-B1 3-B2 3-B3 3-B4 3-B5 3-B6 3-B7 3-B8 3-B9 3-B10 3-B11 3-B12 3-B13 3-B14 3-B15 3-B16	X X X X X X X X X X X X X X X X														

COMPONENT: CENTRIFUGAL CHARGING PUMPS

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS	FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755			VOL. SUR. VIS.													
C3.2	C-F	2-3110	3-B1	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B2	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B3	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B4	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B5	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B6	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B7	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B8	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B9	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B10	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B11	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B12	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B13	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B14	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B15	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3-B16	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: LOW HEAD SIS PUMPS SI-P-1A & 1B

ITEM NO	CATEGORY NO	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO	IDENT NO	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	755																		
C3.1	C-F	2-3120	1-1 1-2 1-3 1-4	X X X X		/ /													
C3.2	C-D	2-3120	2-1 2-2 2-3 2-4	X X X X		/ /													(Not applicable)
C3.3	C-E-1	2-3120	--																(Not applicable)
C3.4	C-E-2	2-3120	--																Pending Field Verification
	TYPP-1																		Rev 2

COMPONENT: RECIRCULATION SPRAY PUMPS RS-P-2A & 2B

ITEM NO	CATEGORY NO	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO	IDENT NO	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755																				
C3.1	C-F		2-3130	1-1 1-2 1-3 1-4 2-1 2-2 2-3 2-4 --	X X X X X X	/	/	/	/	/									(Not applicable)	
C3.2	C-D		2-3130	1-1WS 1-2WS 1-3WS	X X X															
C3.3	C-E-1		2-3130	2-1WS 2-2WS 2-3WS	X X X	/	/												(Not accessible)	
C3.4	C-E-2		2-3130	--																Rev 2

VALVES

1st Interval

<u>IWC-2600 ITEM</u>	<u>AREA EXAMINED</u>	<u>QUANTITY INSPECTED</u>
C4.1	Valve Body Welds	C-F: 100% of all welds distributed over 4 intervals C-G: 50% of all welds distributed over 4 intervals
C4.2	Pressure Retaining Bolting	Multiple streams: Examine 1 valve equivalent during interval Visual - 33 1/3% in each Period Volumetric - 10% in each joint, minimum 2 bolts per joint each interval
C4.3	Integrally-welded supports	100% of the load bearing elements of the support during each Interval
C4.4	Support Components	100% of support components during each Interval

C4.1	<u>Valve body welds</u>	Not applicable
C4.2	<u>Pressure retaining bolting</u> - Refer to DLW-2-4110 for Item Numbers <u>Bolting - Visual and Volumetric examinations</u> 1st Period - Examine Items #1 thru #27 2nd Period - Examine Items #28 thru #40 3rd Period - Examine Items #41 thru #59	
C4.3	Integrally-welded supports	Not applicable
C4.4	Support components 1st Period: Examine in conjunction with C2.6 2nd Period: Examine in conjunction with C2.6 3rd Period: Examine in conjunction with C2.6	

COMPONENT: VALVE PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755		--															
C4.1	C-F & C-G	2-4110	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C4.2	C-D	2-4110	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: VALVE PRESSURE RETAINING BOLTING																				
ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
755	755																			
C4.2	C-D	2-4110	25	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			26	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			27	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			28	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			29	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			30	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			32	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			33	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			34	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			35	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			36	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			37	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			38	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			39	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			40	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			41	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			42	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			43	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			44	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			45	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			46	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			47	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			48	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			49	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			50	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			51	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	

COMPONENT: VALVE PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
755	755																	
C4.2	C-D	2-4110	52		X	/	/	/	/	/	/	/	/	/	/	/	/	
			53		X													
			54		X													
			55		X													
			56		X													
			57		X													
			58		X													
			59		X													

COMPONENT: VALVE PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS			FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS
		SKETCH NO.	IDENT. NO.	VOL SUR	VIS.		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	
75S	75S			X		X	X	X	X	X	X	X	X	X	X	X	X	X	
C4.2	C-D	2-4110	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			2	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			4	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			5	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			6	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			7	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			8	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			9	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			10	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			11	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			12	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			13	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			14	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			15	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			16	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			17	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			18	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			19	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			20	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			21	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			22	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			23	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
			24	X		X	X	X	X	X	X	X	X	X	X	X	X	X	

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Rev 2

VALVE PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL	SUR	VIS	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
75S	75S																		
C4.2	C-D	2-4110	25	X	X		X												
			26	X	X		X												
			27	X	X		X												
			28	X	X		X												
			29	X	X		X												
			30	X	X		X												
			32	X	X		X												
			33	X	X		X												
			34	X	X		X												
			35	X	X		X												
			36	X	X		X												
			37	X	X		X												
			38	X	X		X												
			39	X	X		X												
			40	X	X		X												
			41	X	X		X												
			42	X	X		X												
			43	X	X		X												
			44	X	X		X												
			45	X	X		X												
			46	X	X		X												
			47	X	X		X												
			48	X	X		X												
			49	X	X		X												
			50	X	X		X												
			51	X	X		X												

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COMPONENT: VALVE PRESSURE RETAINING BOLTING

ITEM NO.	CATEGORY NO.	DLW		IDENT. NO.	EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.			VOL	SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND		3RD
755	75S																			
C4.2	C-D	2-4110		52	X		/													
				53	X		/													
				54	X		/													
				55	X		/													
				56	X		/													
				57	X		/													
				58	X		/													
				59	X		/													

COMPONENT: 12" VALVE SUPPORT (ACCUMULATOR DISCHARGE LINE)

ITEM NO.	CATEGORY NO.	DLW		EXAMINATION METHODS		FIRST INTERVAL			SECOND INTERVAL			THIRD INTERVAL			FOURTH INTERVAL			REMARKS	
		SKETCH NO.	IDENT. NO.	VOL. SUR	VIS.	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD		
75S	75S																		
C4.3	C-E-1																		Not Applicable
C4.4	C-E-2	2-2508	H1		X														
C4.4	C-E-2	2-2509	H1		X														
C4.4	C-E-2	2-2510	H1 H2		X X														

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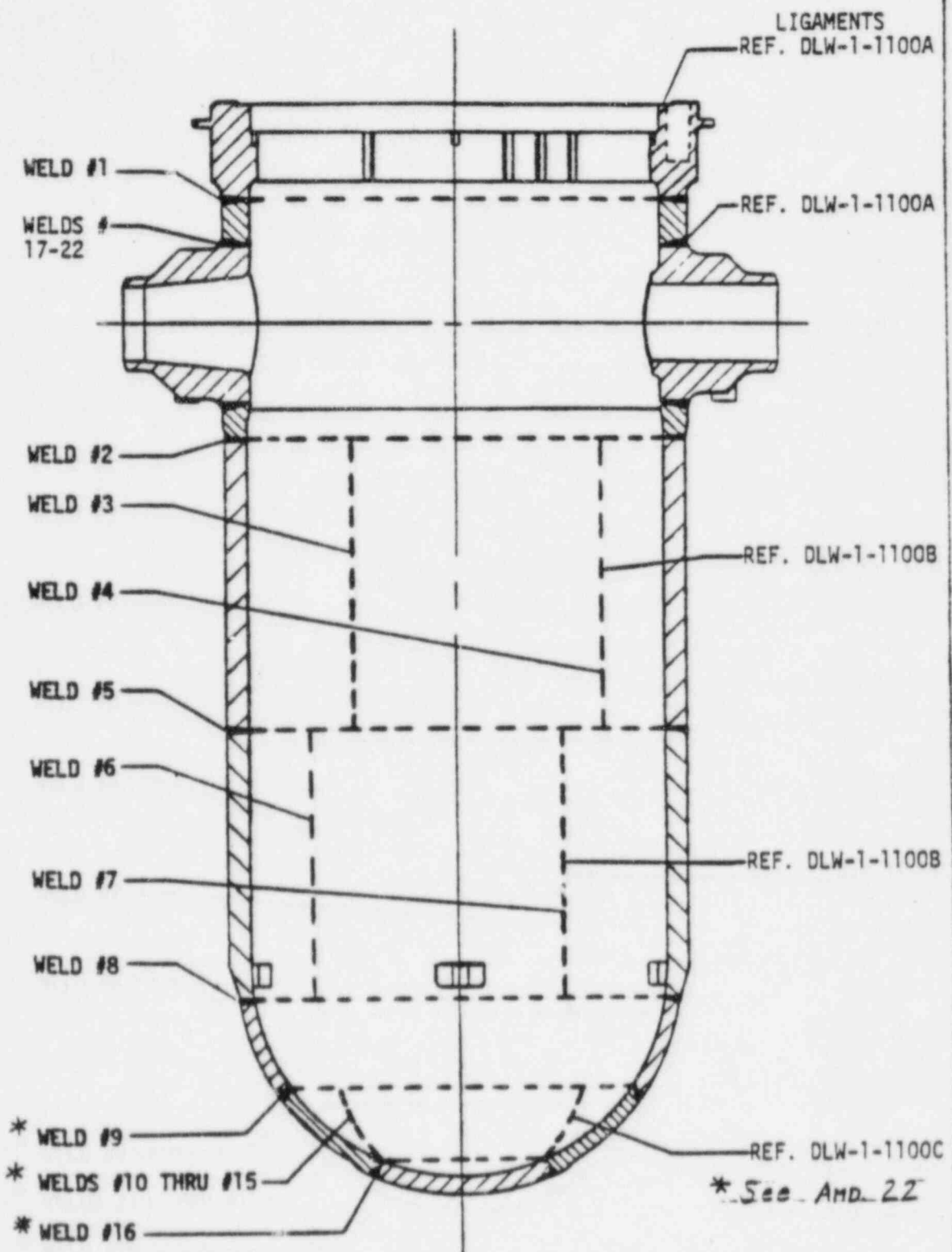
YTPP-1

Rev 2

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REACTOR VESSEL

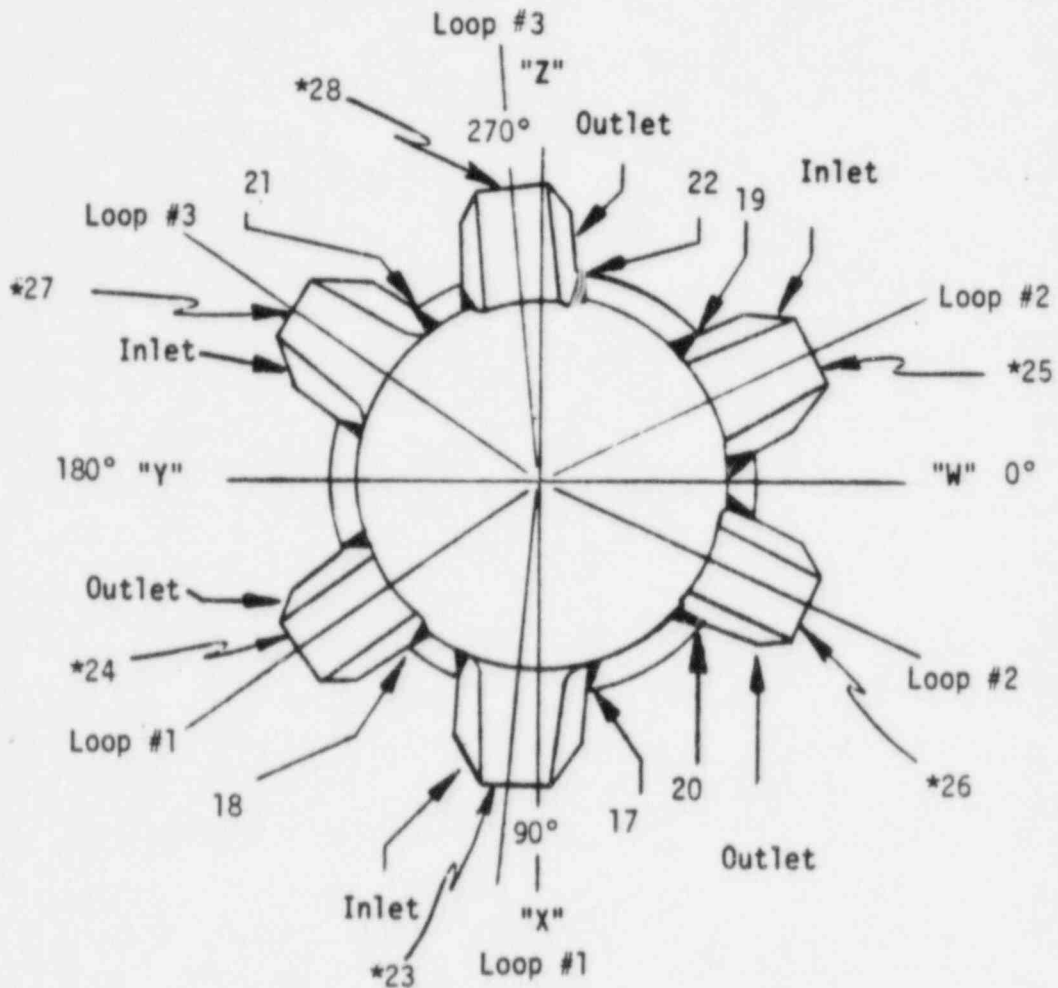
DLW-1-1100



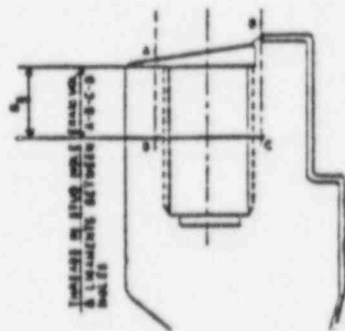
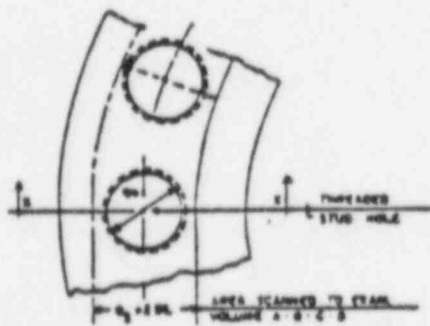
9/9/81

DLW-1-1100A

R. V. NOZZLE TO VESSEL WELDS

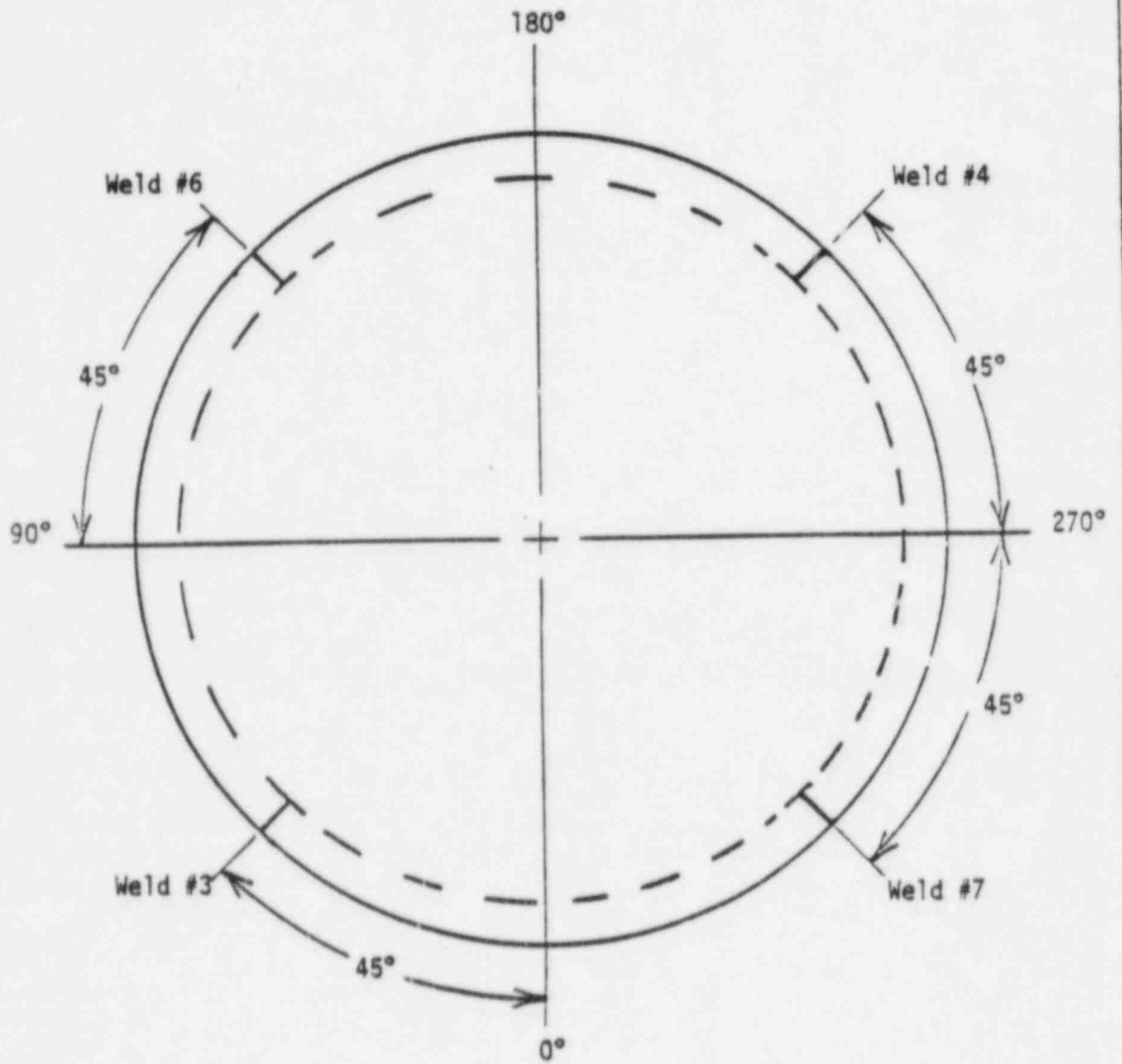


VESSEL FLANGE LIGAMENTS



9/9/81

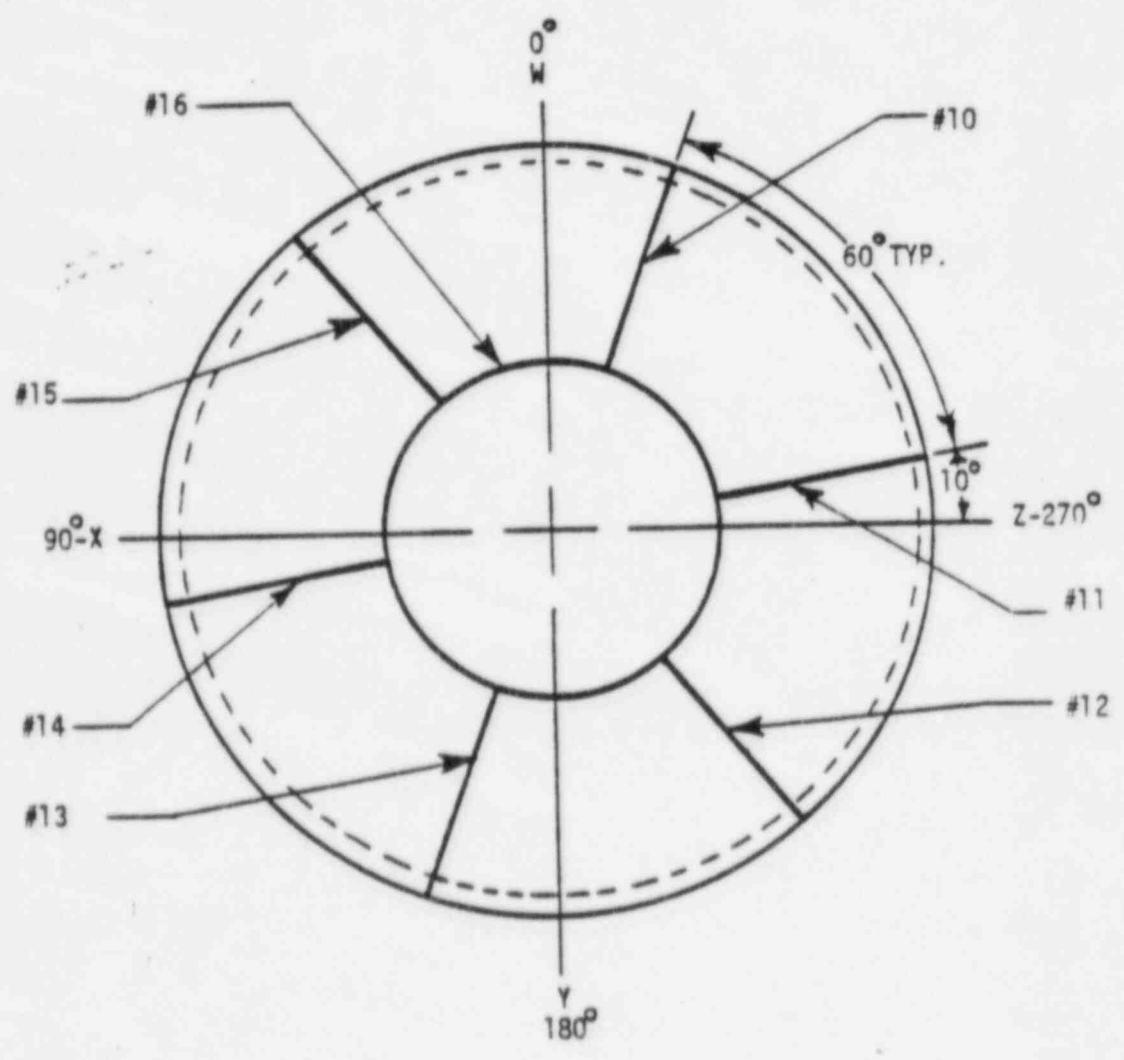
DLW-I-1100B R.V. LONGITUDINAL WELDS



9/9/81

DLW-I-1100C

REACTOR VESSEL LOWER HEAD



See AMD. 22

INTERNALS

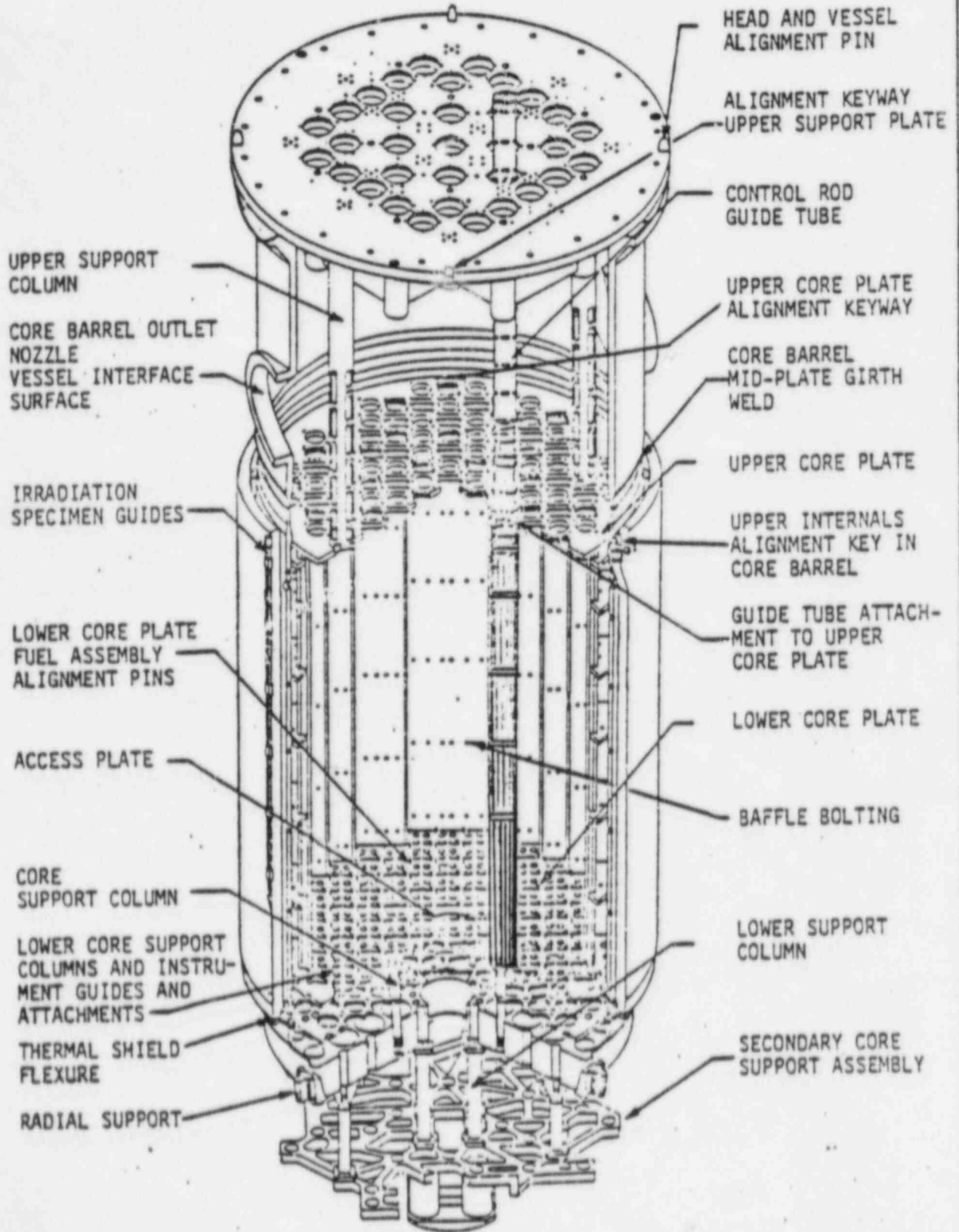
DLW-1-1200

1. Head and Vessel Alignment Pin
2. Alignment Keyway Upper Support Plate
3. Upper Support Column
4. Control Rod Guide Tube
5. Core Barrel Outlet Nozzle/Vessel Interface Surface
6. Upper Core Plate Alignment Keyway
7. Core Barrel Mid-Plate Girth Weld
8. Upper Core Plate
9. Upper Internals Alignment Key In Core Barrel
10. Irradiation Specimen Guides
11. Guide Tube Attachment to Upper Core Plate
12. Baffle Bolting
13. Lower Core Plate
14. Lower Core Plate Fuel Assembly Alignment Pins
15. Access Plate
16. Lower Core Support Columns and Instrument Guides and Attachments
17. Core Support Column
18. Thermal Shield Flexure
19. Radial Support
20. Lower Support Column
21. Secondary Core Support Assembly

* Items 1 thru 21 Ref. DLW-1-1200A

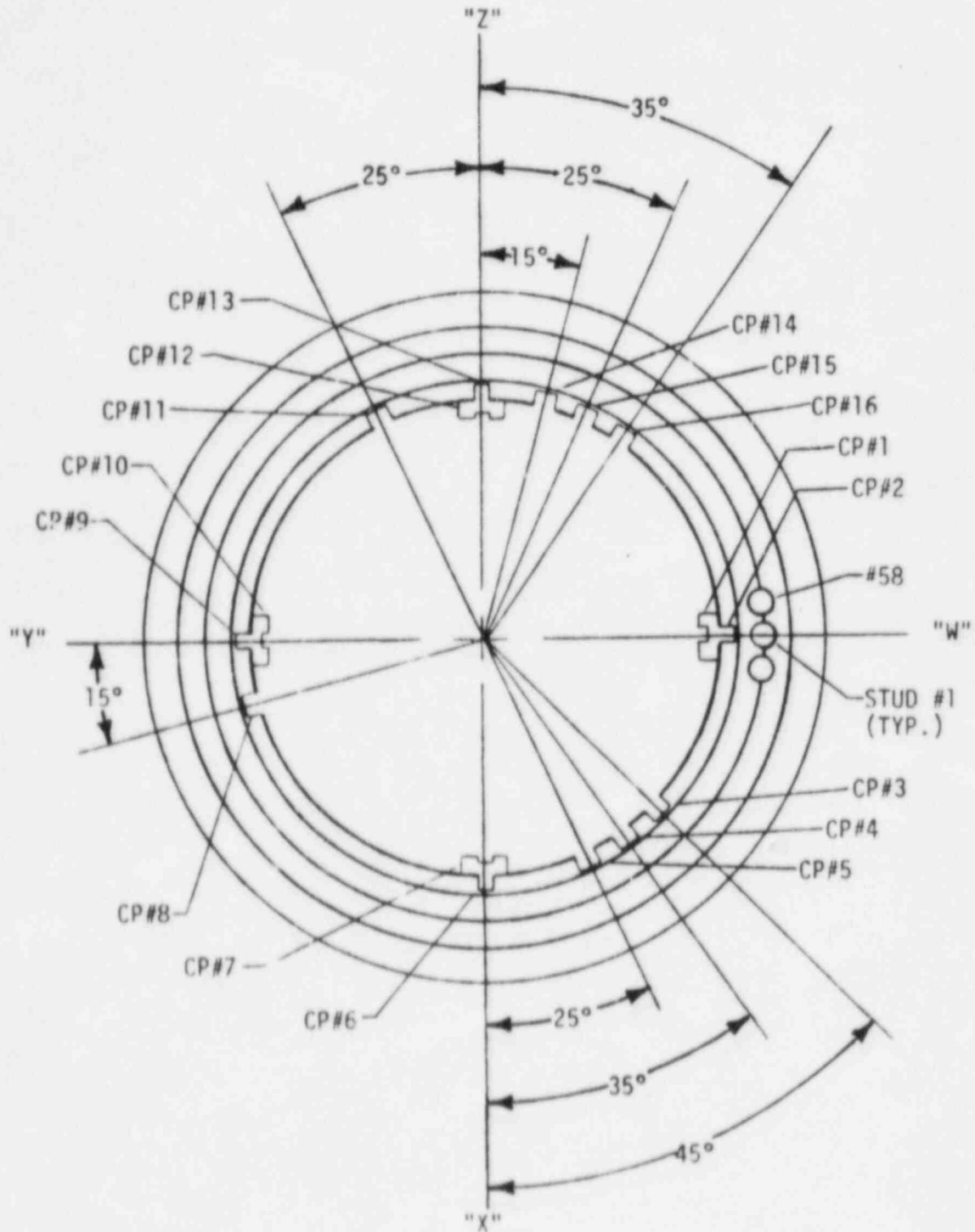
DLW-1-1200A

R.V. UPPER AND LOWER INTERNALS

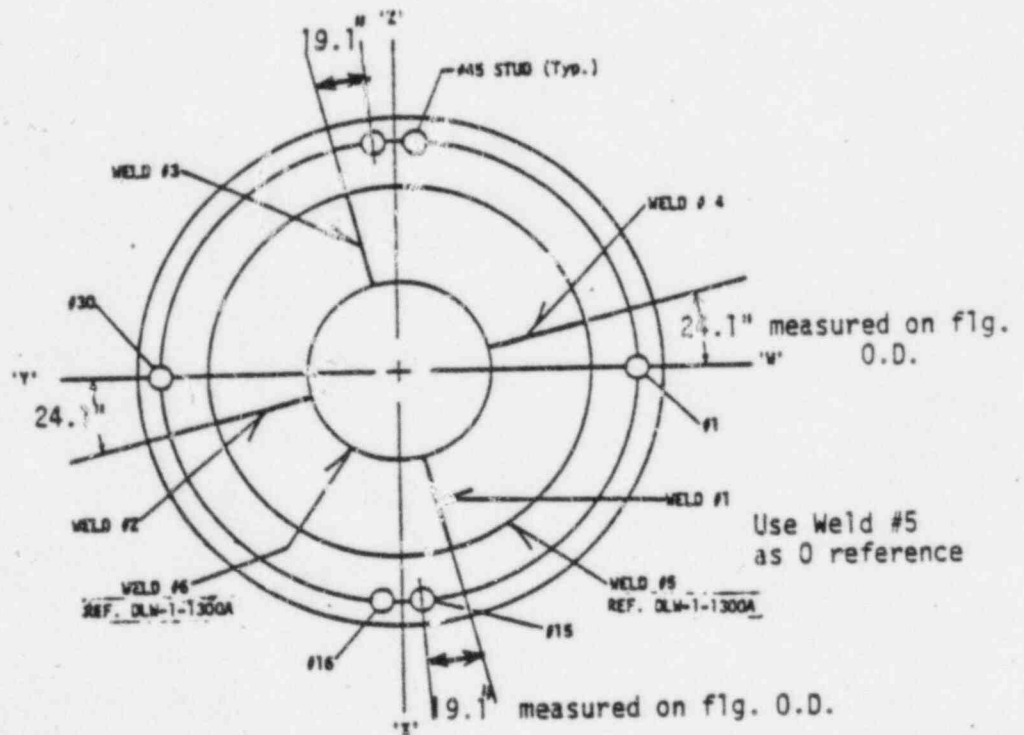
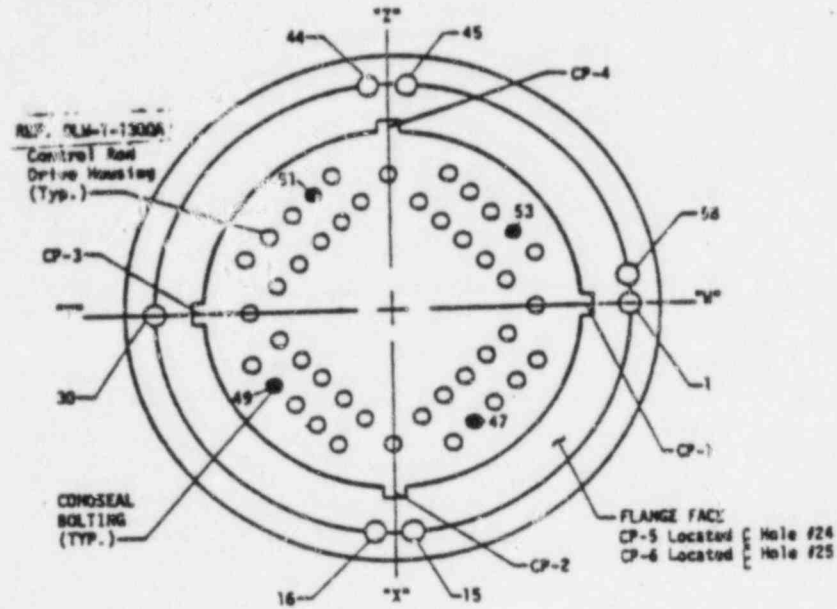


282

R.V. CLAD PATCH IDENTIFICATION



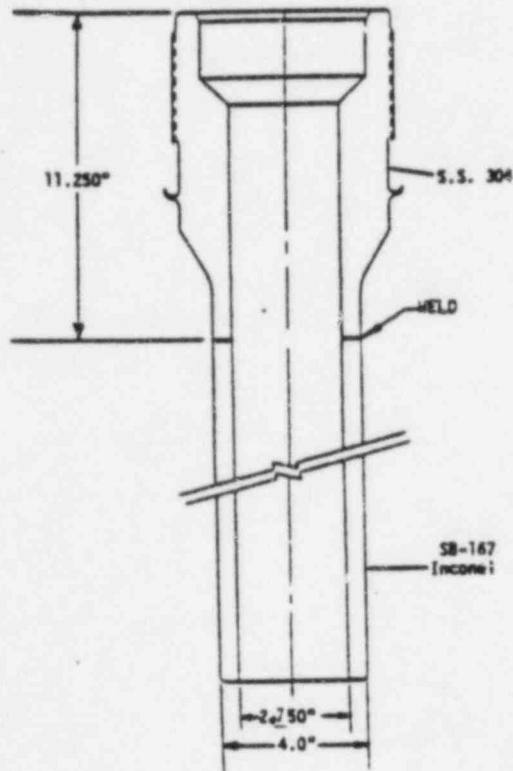
R.V. CLOSURE HEAD



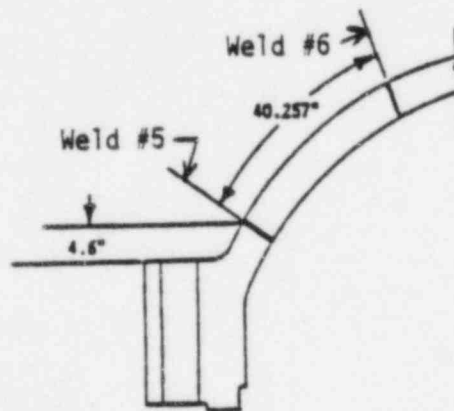
284

DLW-1-1300A

CRDM HOUSING WELD



CLOSURE HEAD CIR. WELDS



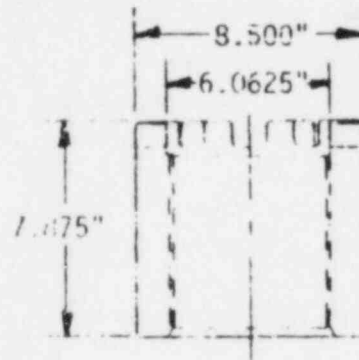
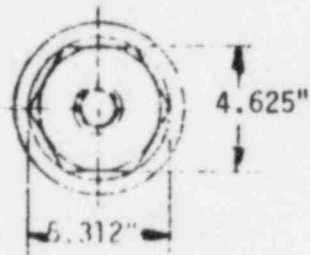
285

TYPP-1

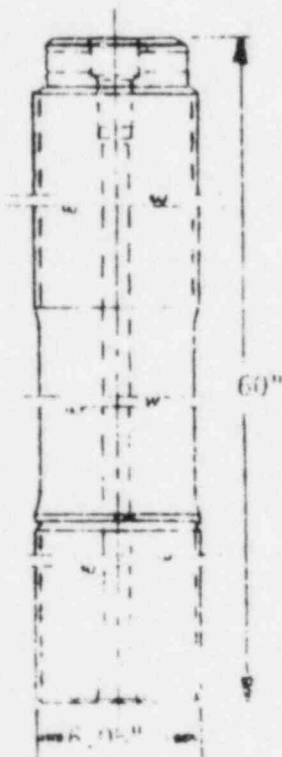
page IV-9

Rev. 2

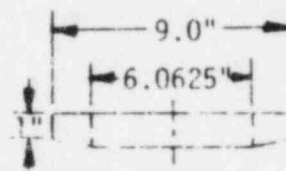
STUDS, NUTS AND WASHERS



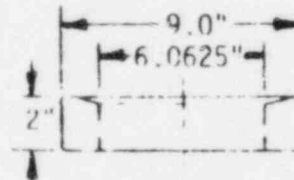
NUT



STUD

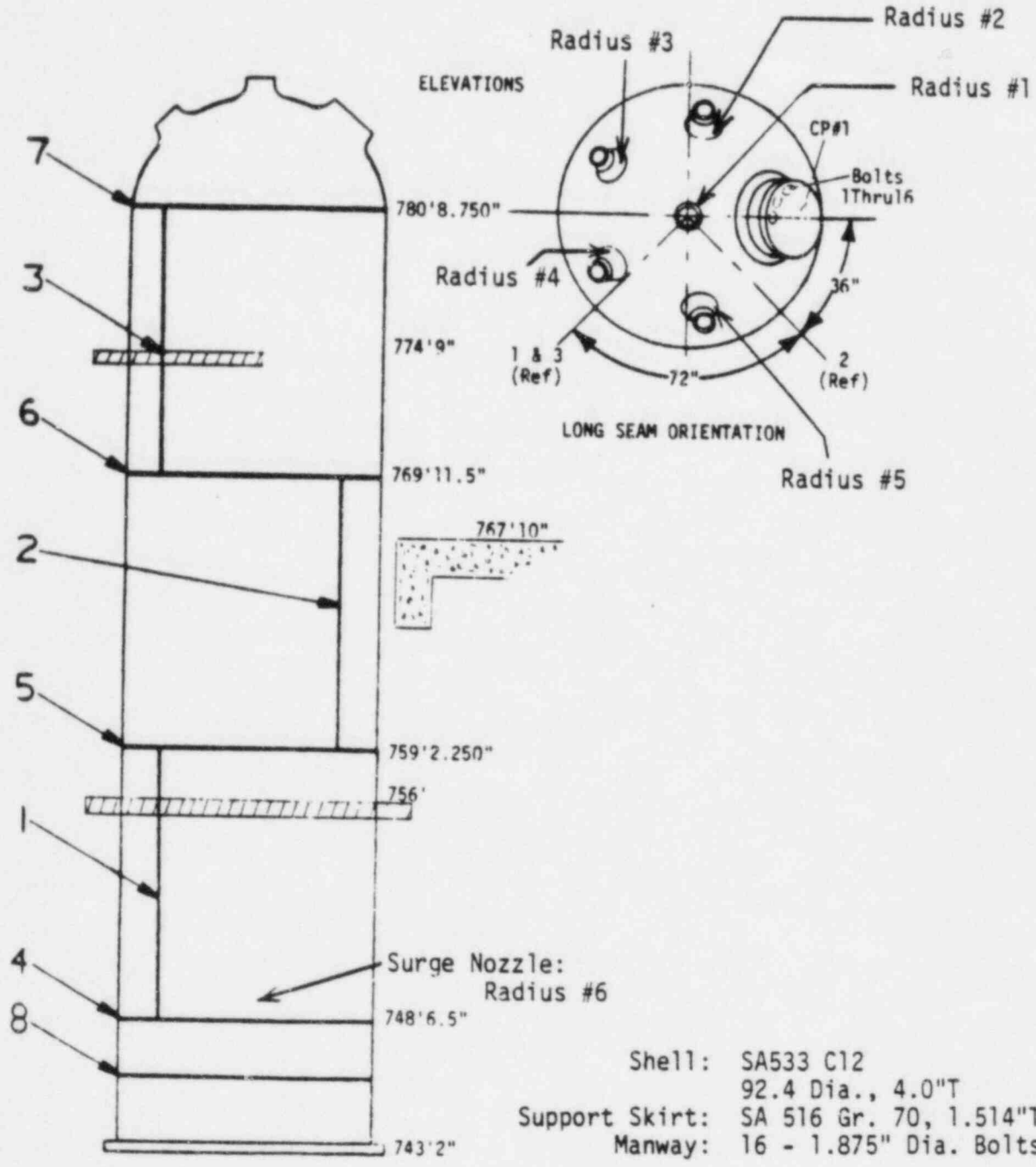


CONVEX WASHER



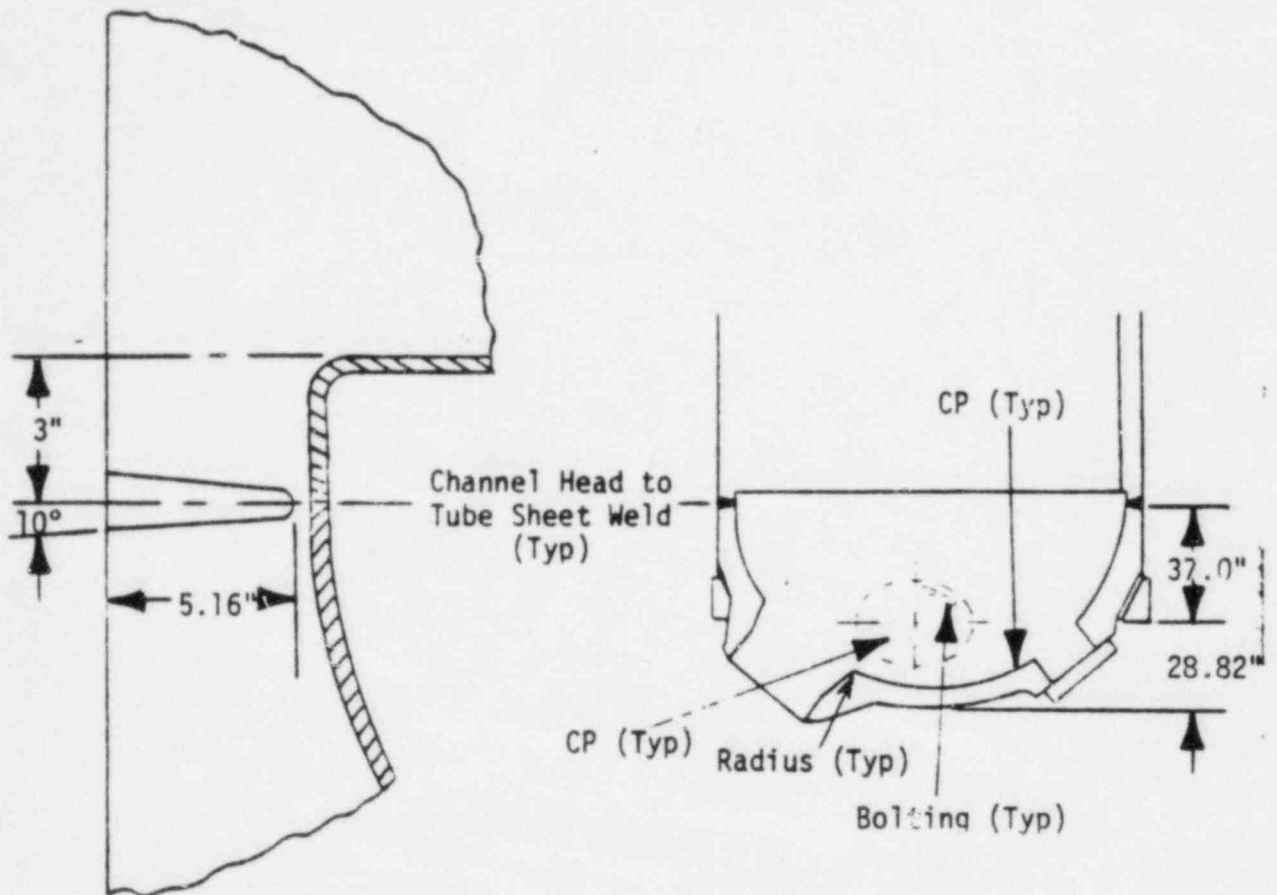
CONCAVE WASHER

PRESSURIZER



Shell: SA533 C12
 92.4 Dia., 4.0"T
 Support Skirt: SA 516 Gr. 70, 1.514"T
 Manway: 16 - 1.875" Dia. Bolts

STEAM GENERATOR



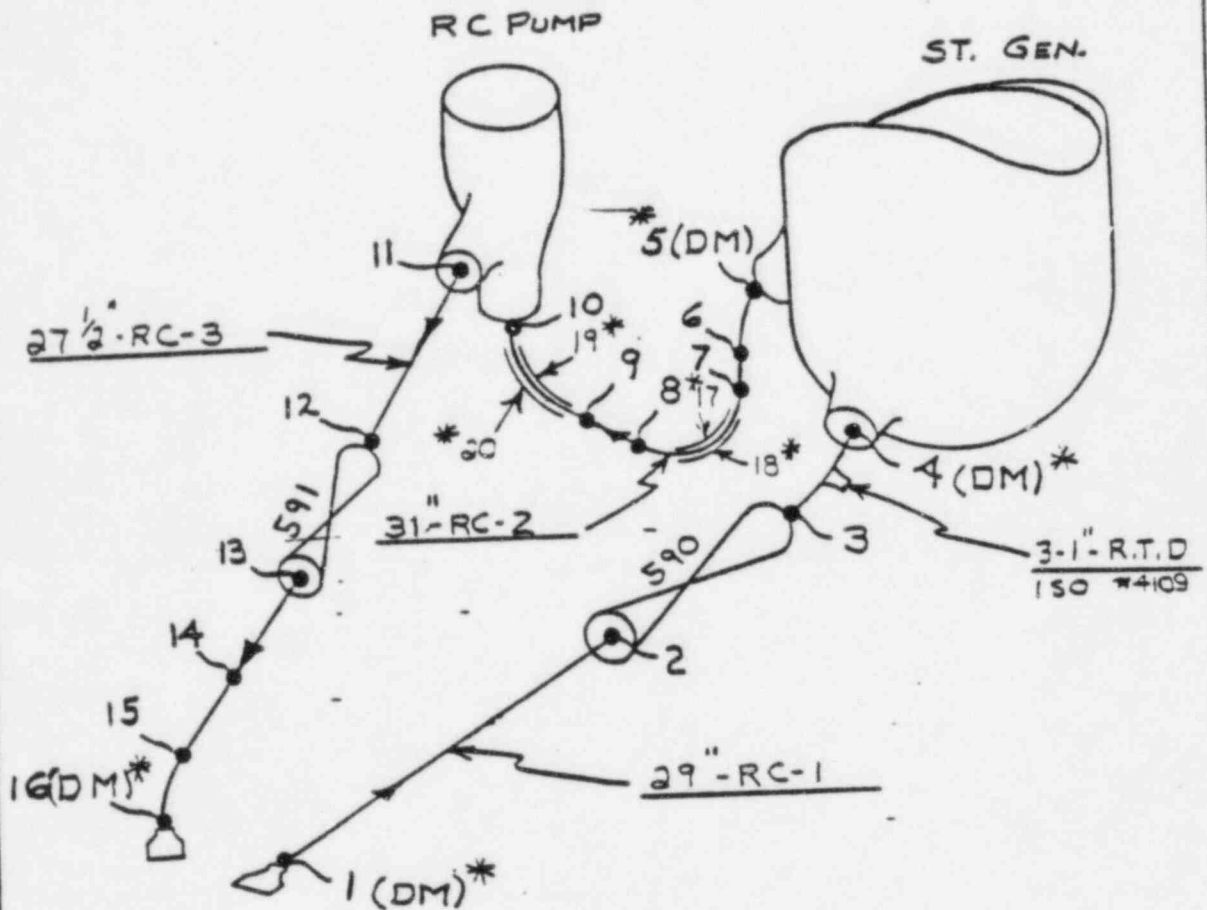
S.G.	WELD	RADIUSED SECTIONS	MANWAY	BOLTS/LIGS.**	CP#
1	1-1	Radius 1H Radius 1C	Hotside Coldside	1-1 to 1-16 1-17 to 1-32	1 2
2	2-1	Radius 2H Radius 2C	Hotside Coldside	2-1 to 2-16 2-17 to 2-32	3 4
3	3-1	Radius 3H Radius 3C	Hotside Coldside	3-1 to 3-16 3-17 to 3-32	5 6

** Number is preceded by 'B' or 'LIG.' as applicable

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DLW-1-4100

LOOP # 1 REACTOR COOLANT PIPE



* NOTE:

WELOS 17, THRU 20 - LONGITUDINAL WELOS
IN 90° ELBOWS: -SEE AMD. 22

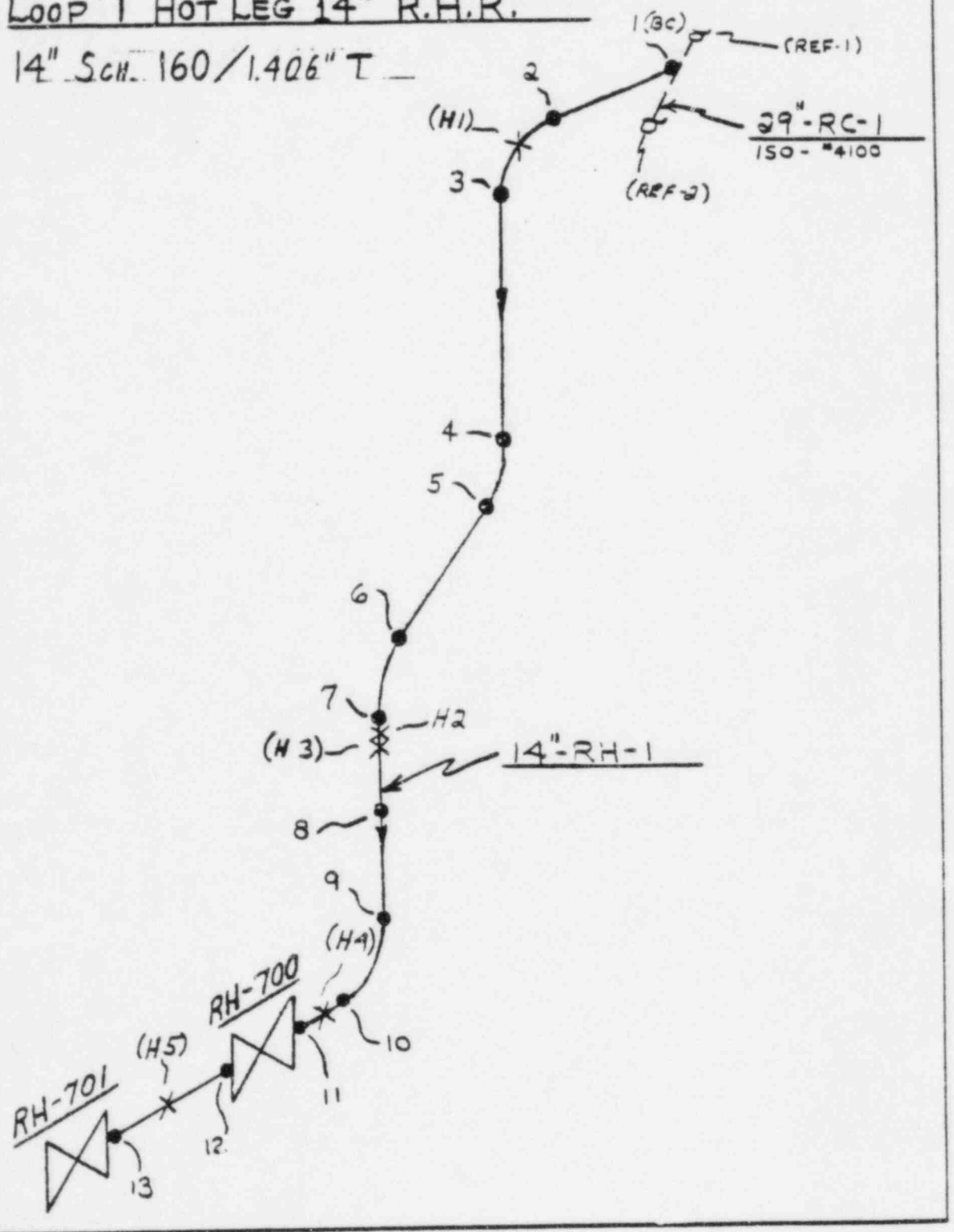
290

9/9/81

LOOP #1 HOT LEG 14" R.H.R.

14" Sch. 160 / 1.406" T

DLW-1-4101

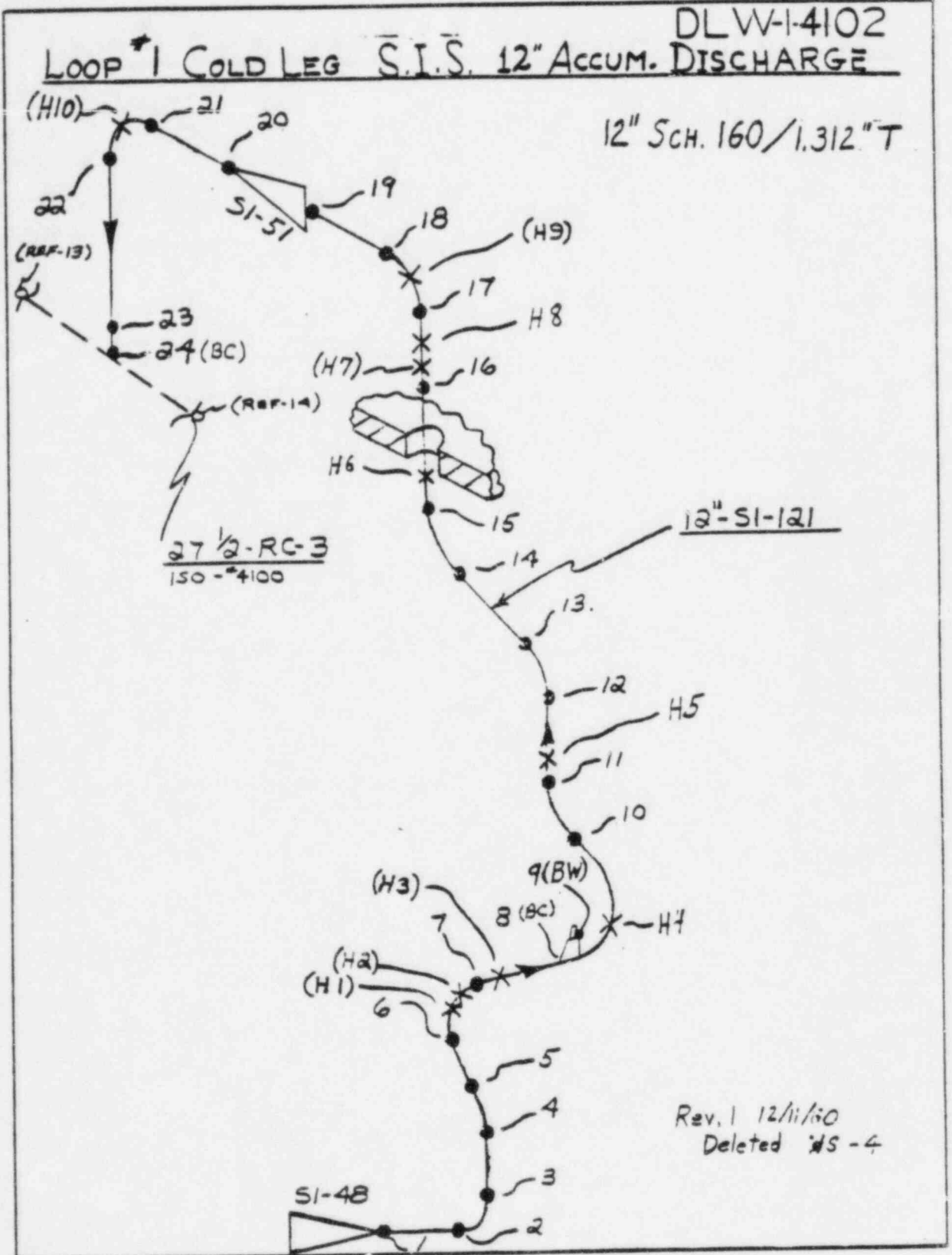


291

9/9/81

LOOP #1 COLD LEG S.I.S. 12" ACCUM. DISCHARGE

12" SCH. 160/1.312" T



Rev. 1 12/11/80
Deleted #5-4

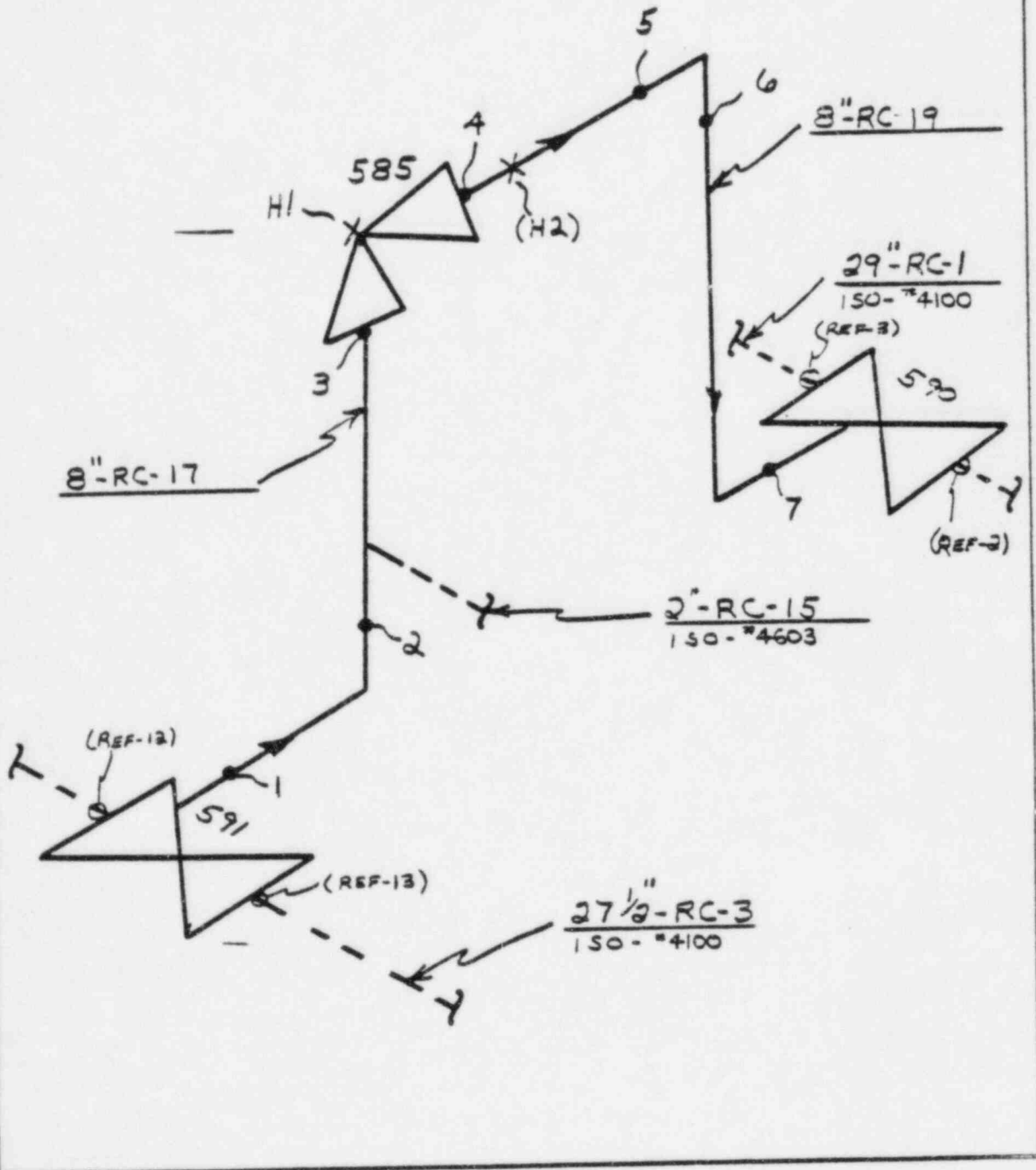
292-

9/9/81

DLW-I-4103

Loop 1 8" By-Pass

8" Sch. 1407.812" T



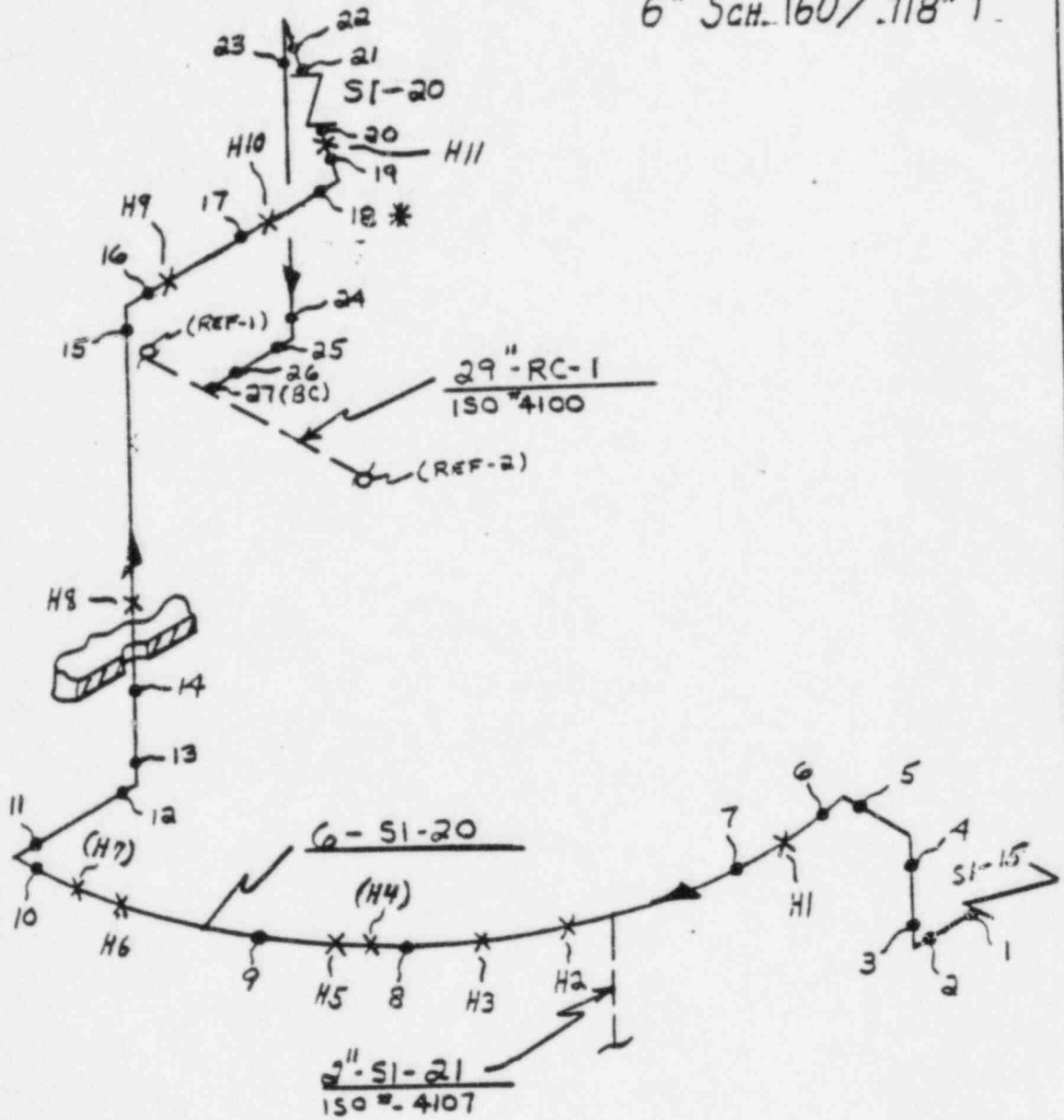
293

9/9/51

DLW-1-4105

Loop #1 Hot Leg 6" Low Head SIS

6" Sch. 160 / .718" T.



* SEE AMD. 22

Rev. 1 12/11/80
Deleted G + J

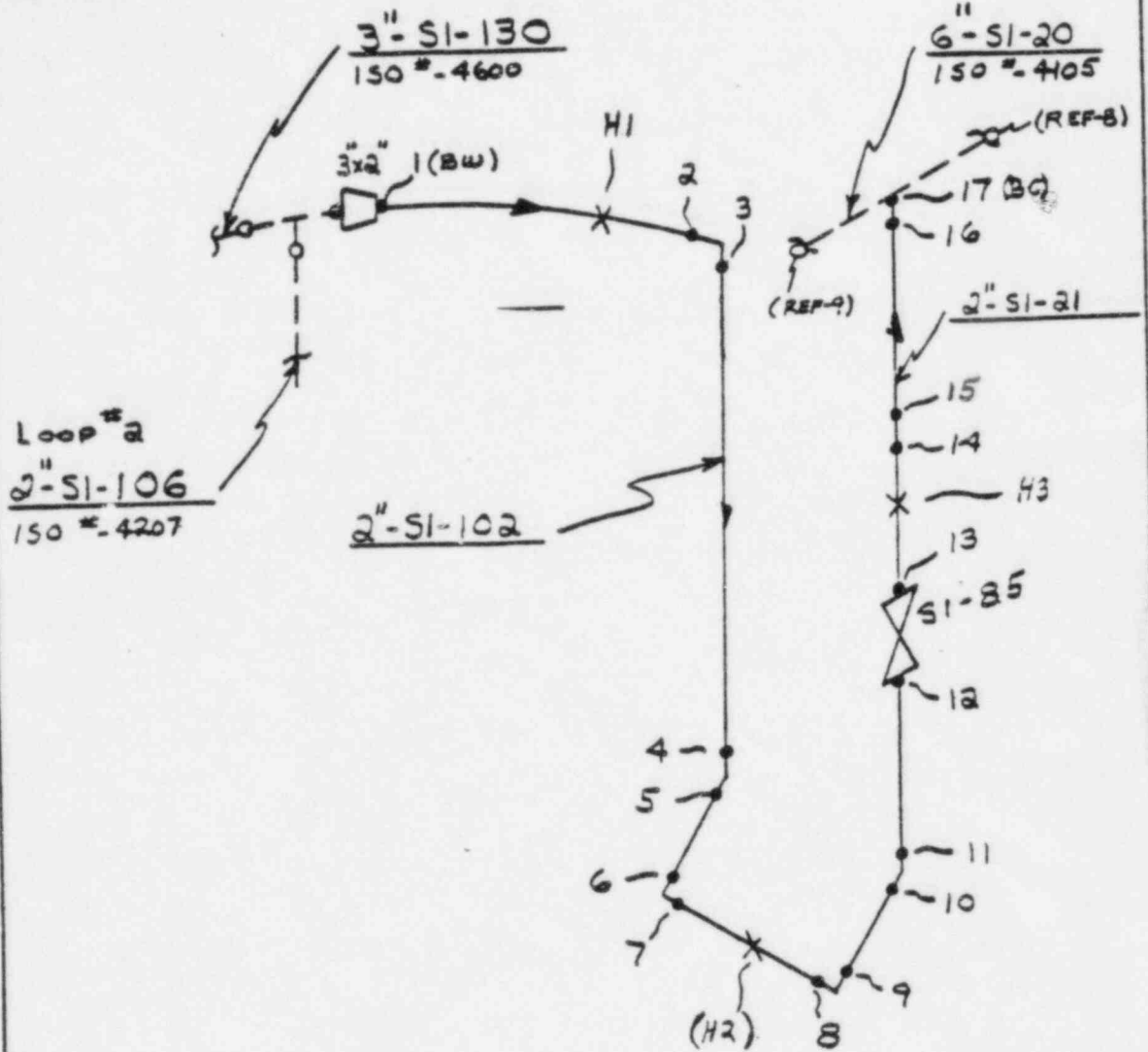
275

9/9/81

DLW-4107

LOOP #1 2" HOT LEG HIGH HEAD SIS

2" SCH. 160 / .343" T



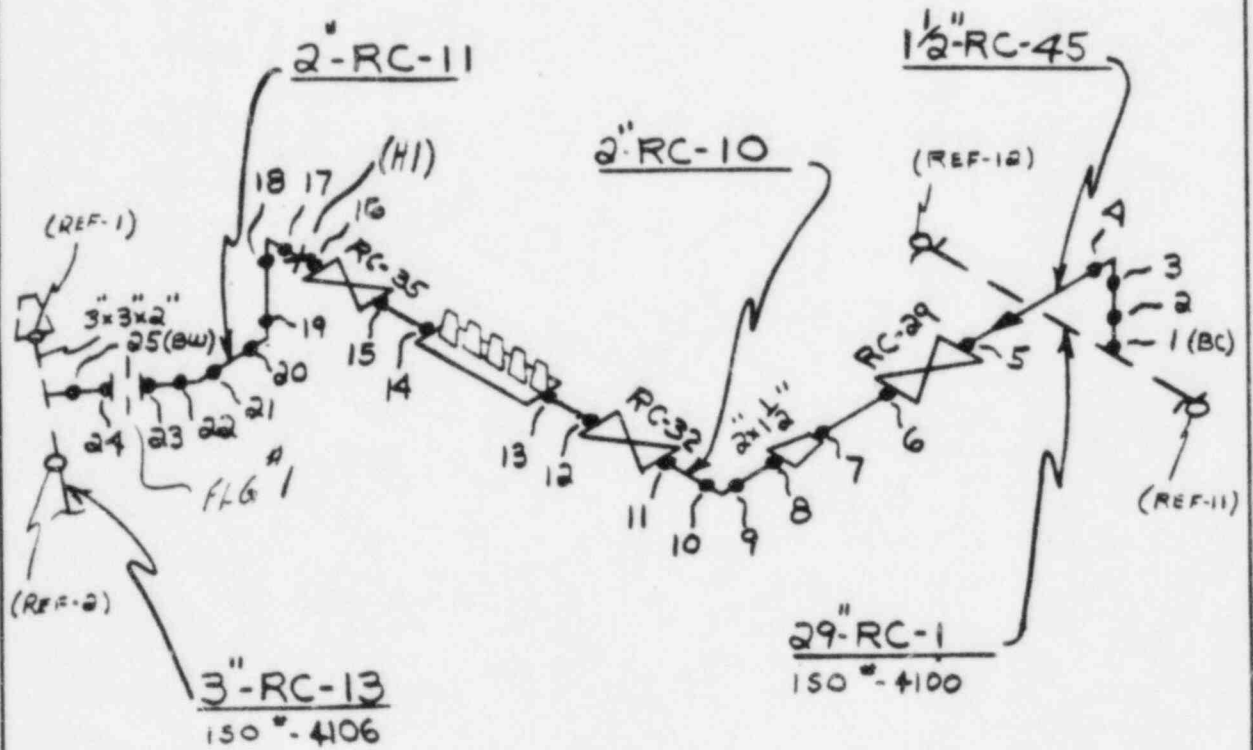
277

9/9/81

DLW-I-4108

LOOP #1 COLD LEG 1 1/2" x 2 R.T.D TAKE-OFF

2" SCH. 160 / .343" T
1 1/2" SCH. 160 / .281" T

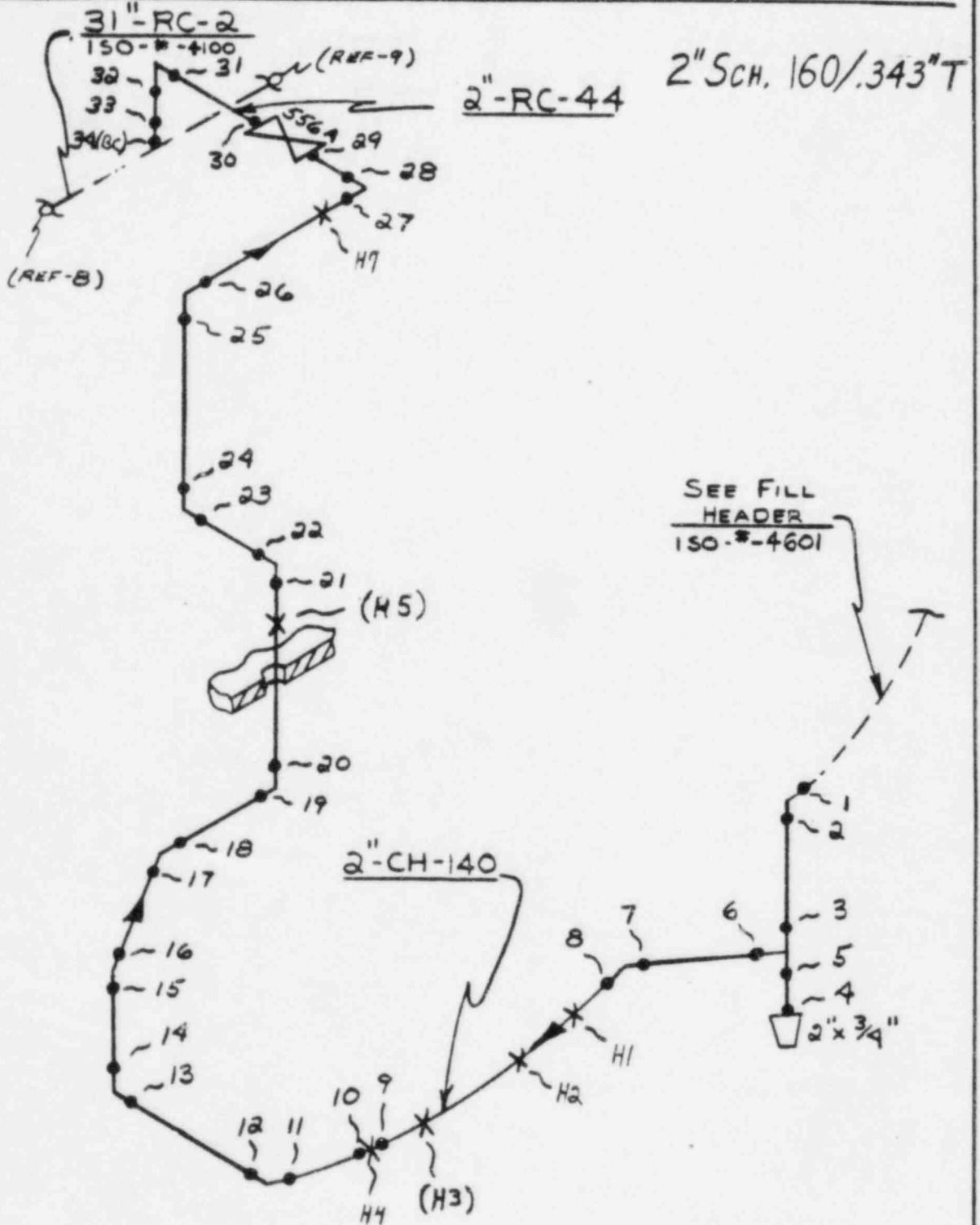


295

9/9/81

DLW-I-4111

LOOP #1 2" FILL LINE



3-1

TYPP-1

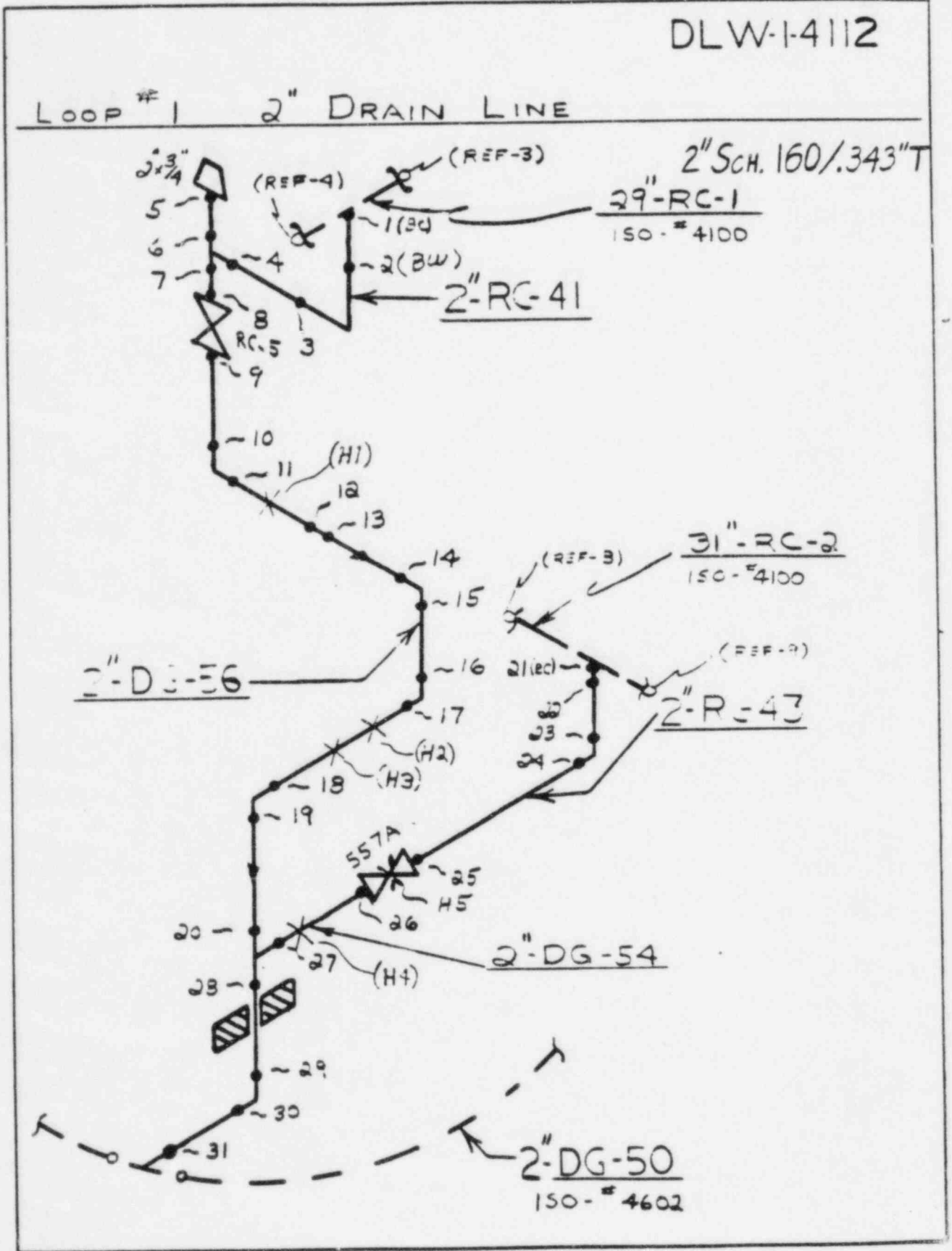
page IV - 24

Rev. 2

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DLW-1-4112

LOOP #1 2" DRAIN LINE



302

TYPP-1

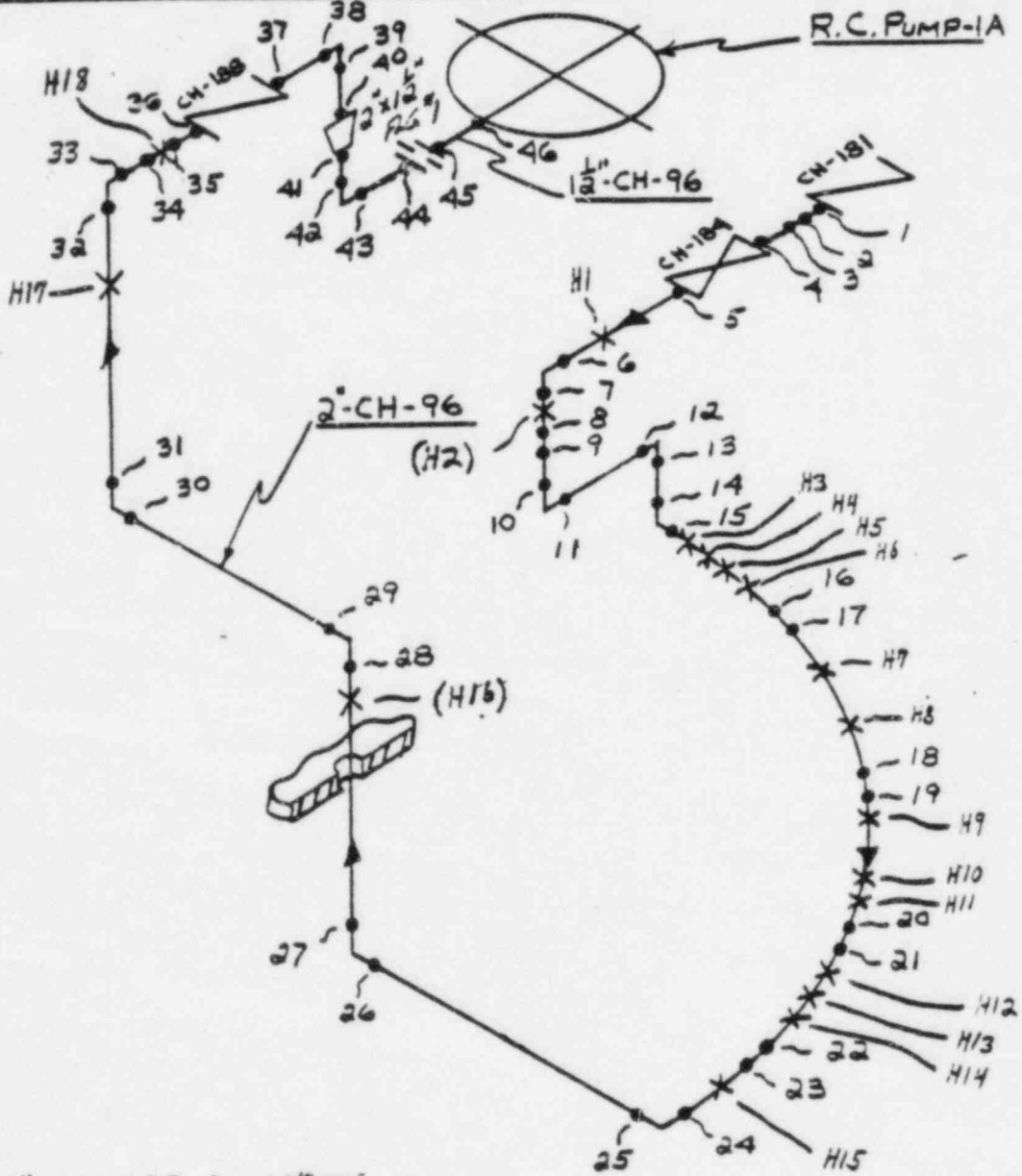
page IV - 25

Rev. 2

9/9/81

DLW-1-4113

LOOP #1 2" x 1 1/2" SEAL INJECTION



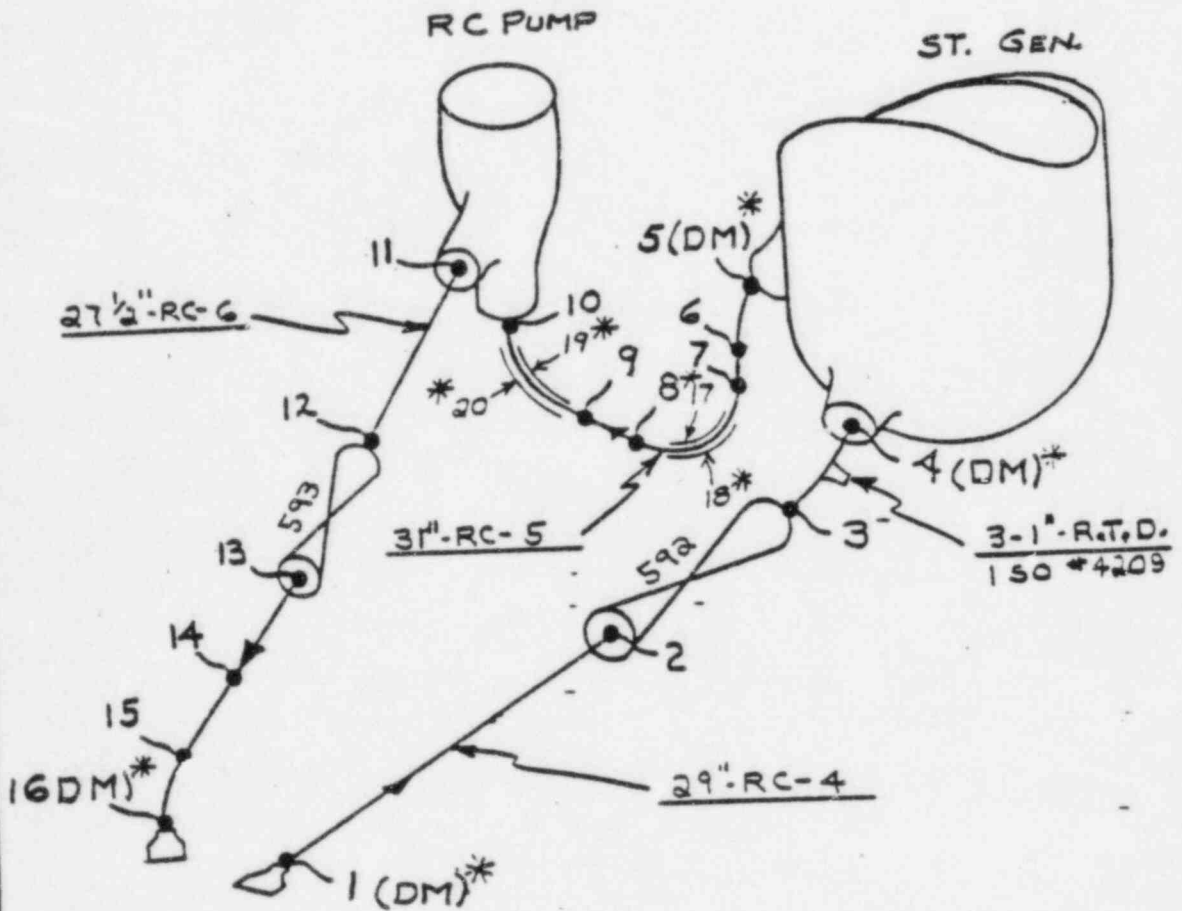
2" SCH. 160 / .343" T
1 1/2" SCH. 160 / .281" T

303

9/9/81

DLW-1-4200

LOOP #2 REACTOR COOLANT PIPE



* NOTE:
WELDS 17 THRU 20 - LONGITUDINAL WELDS
IN 90° ELBOWS : SEE AMD. 22

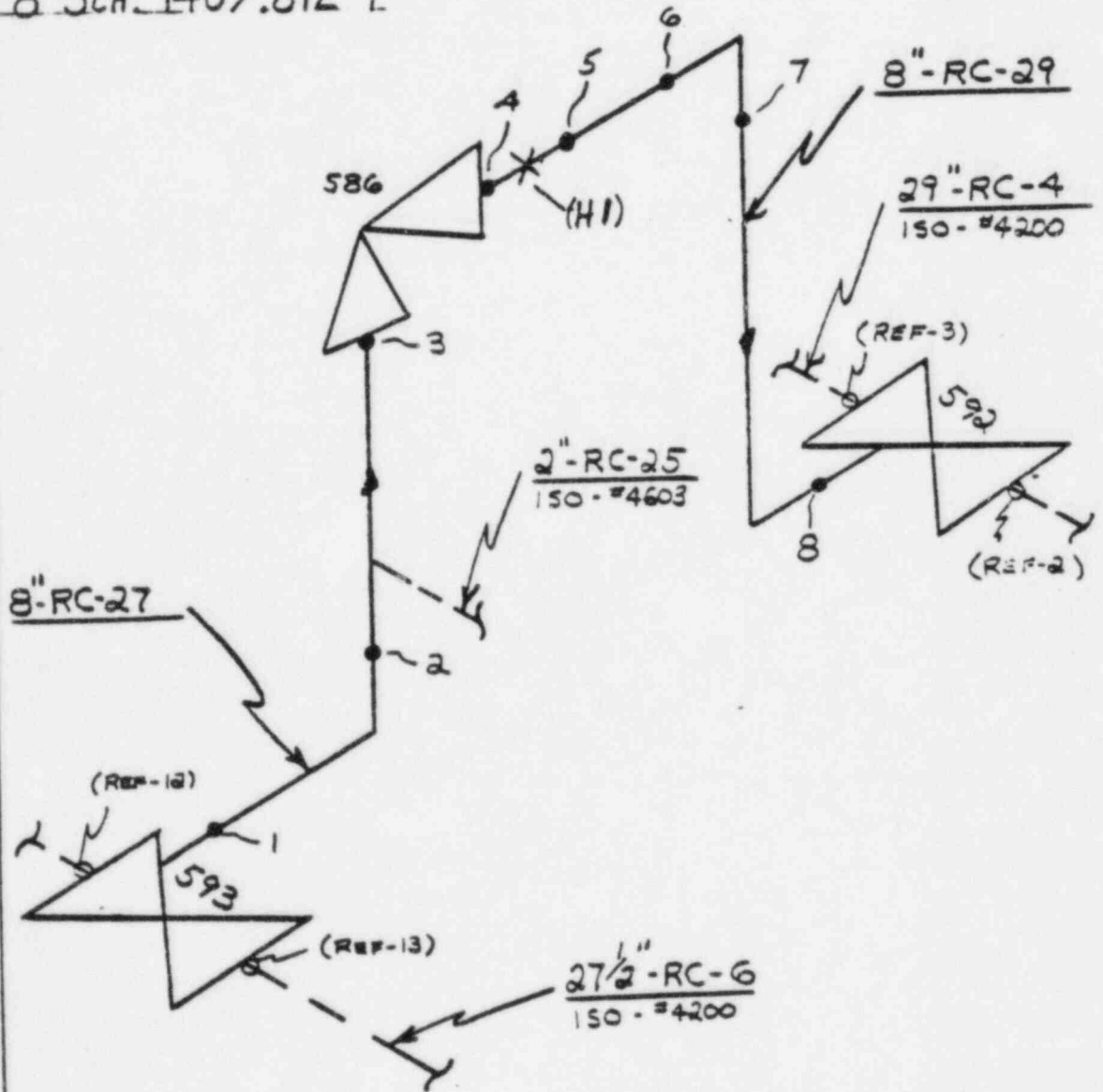
304

9/9/81

DLW-1-4202

LOOP #2 8" BY-PASS

8" SCH. 40 / .812" T



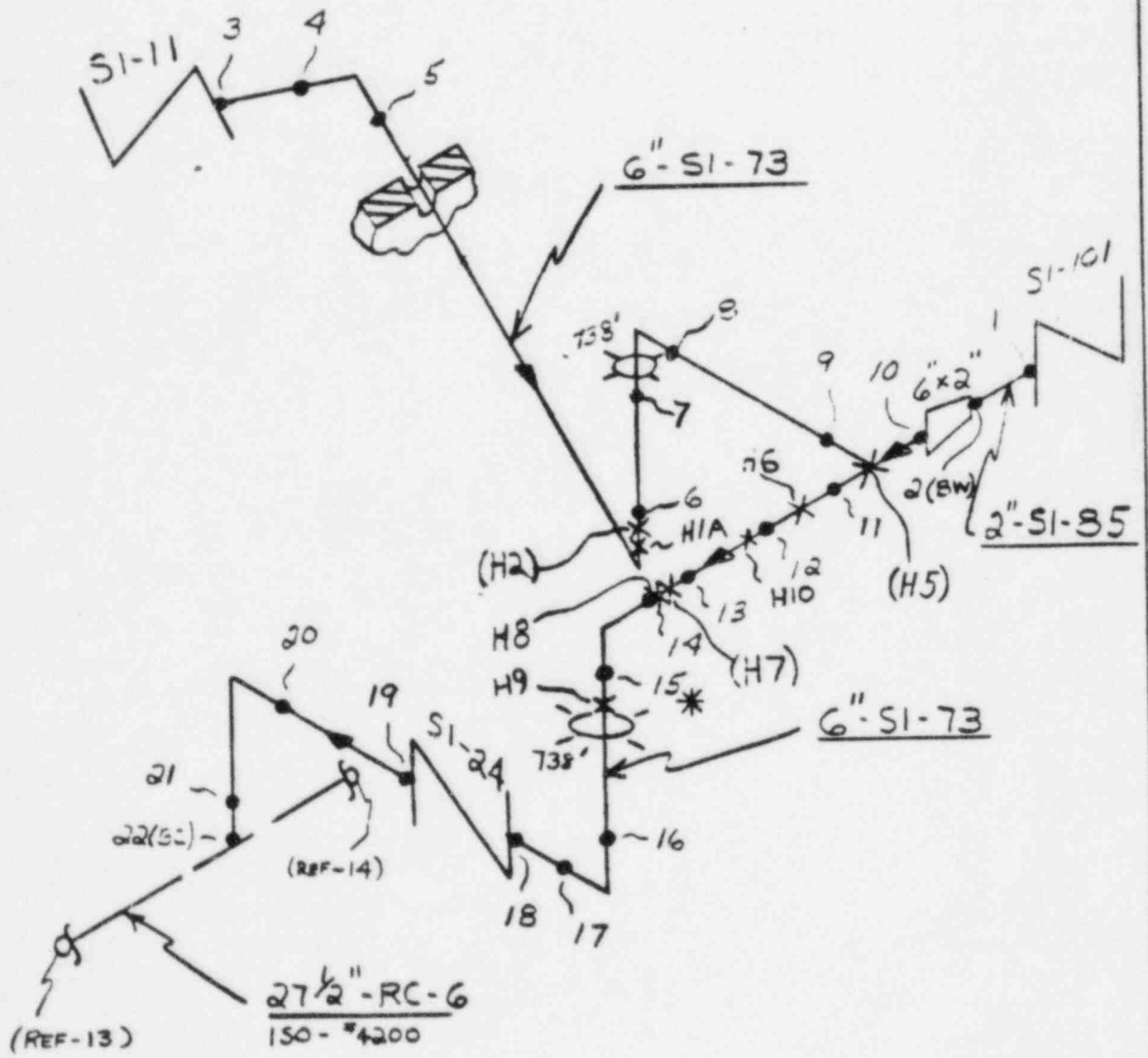
306

9/9/81

DLW-1-4203

LOOP #2 COLD LEG 6" x 2" LOW HEAD SIS

6" Sch. 160 / .718" T
2" Sch. 160 / .343" T

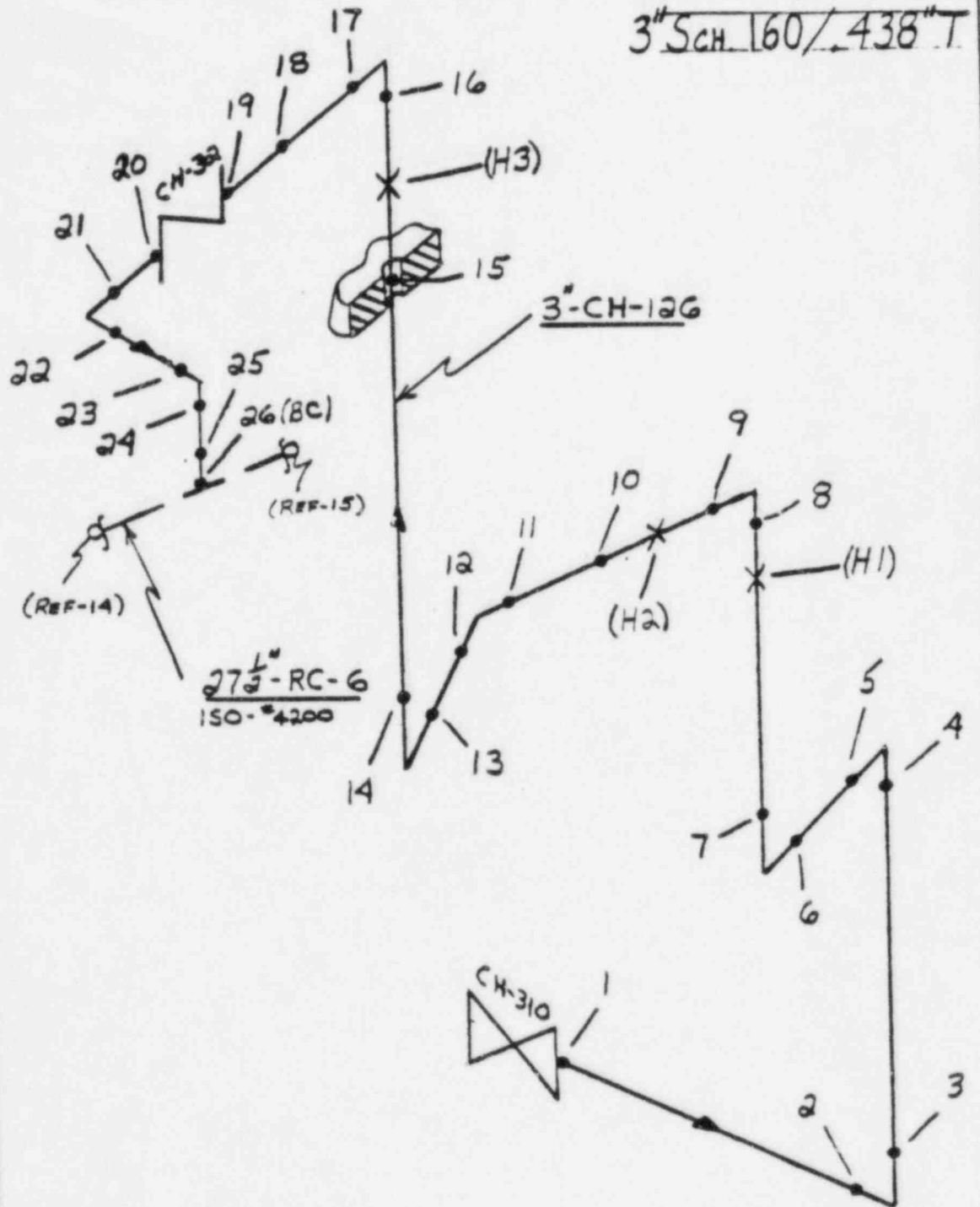


*SEE AMD. 22

9/9/81

DLW-1-4205

LOOP #2 3" CHARGING



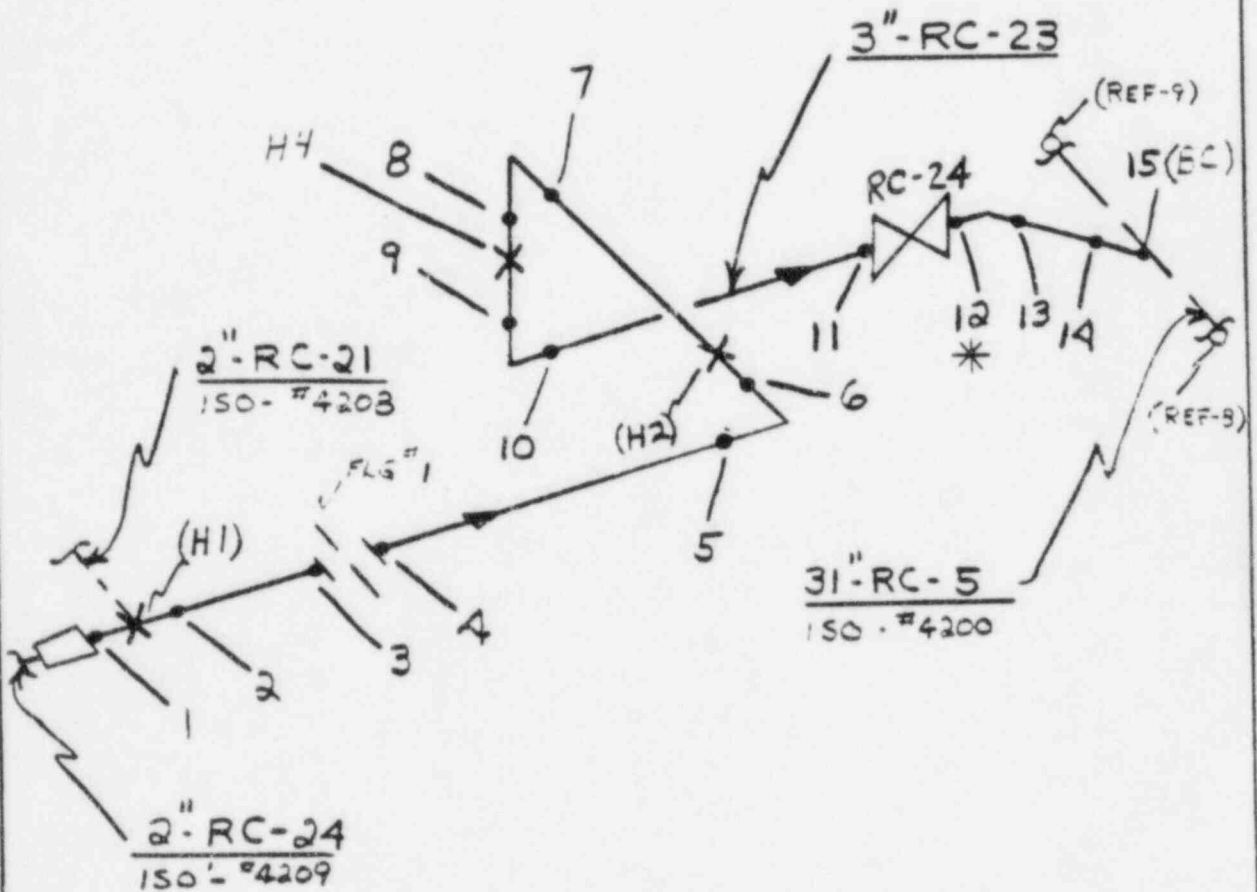
309

9/9/81

DLW-1-4206

LOOP #2 3" R.T.D RETURN

3" SCH. 160 / .438" T

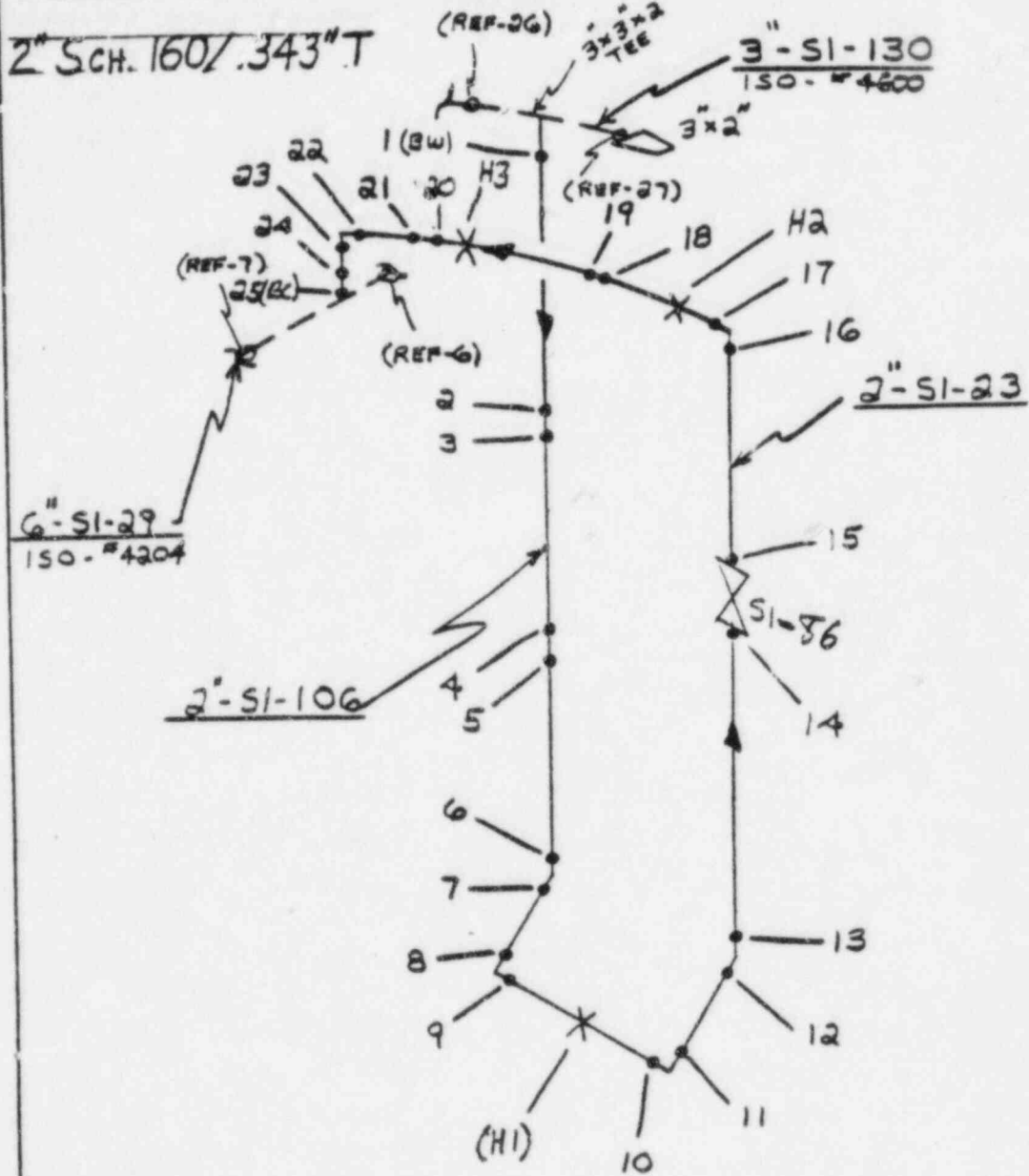


*SEE AMD. 22

9/9/81

DLW-I-4207

LOOP #2 2" HOT LEG HIGH HEAD SIS



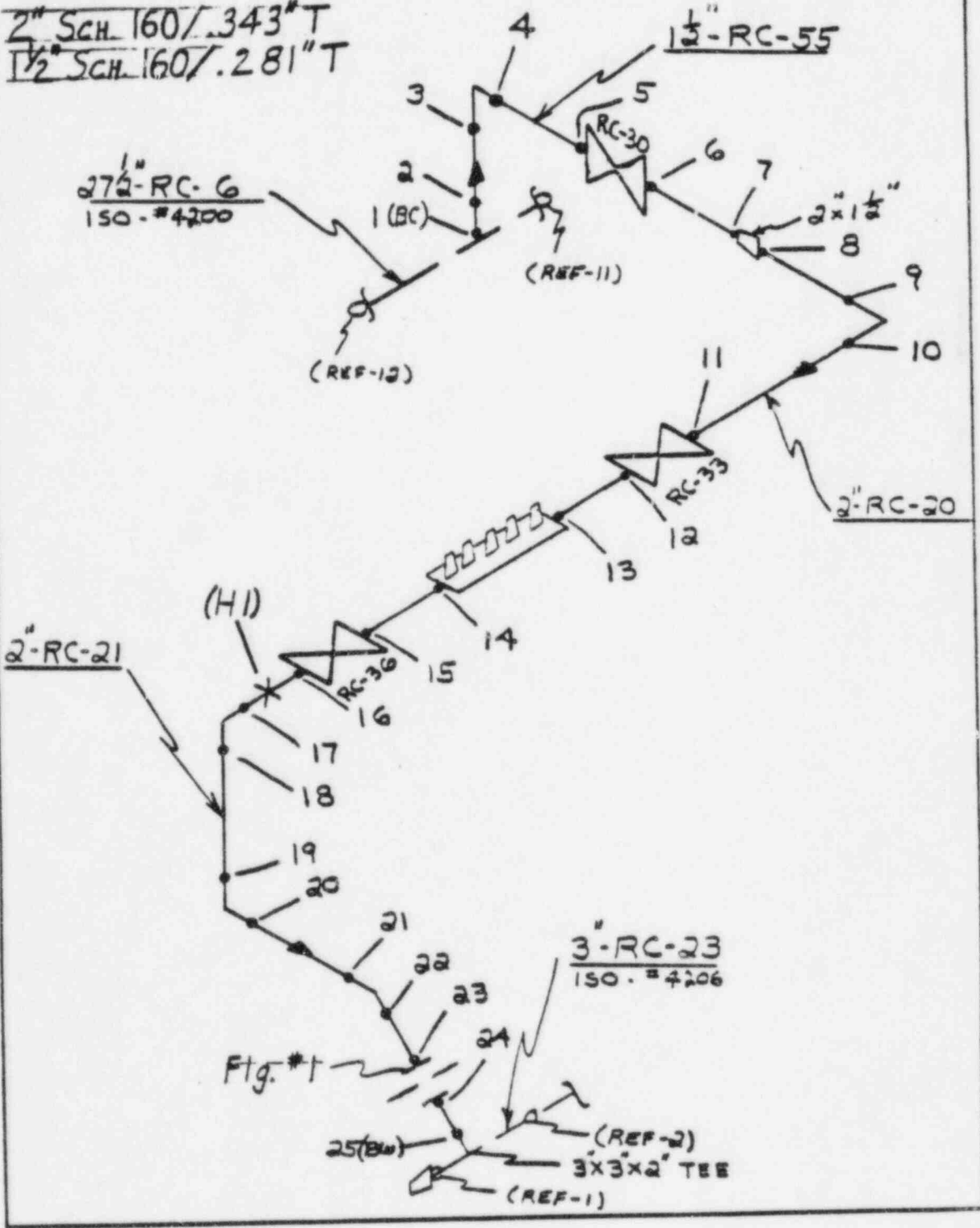
311

9/9/81

DLW-I-4208

LOOP #2 COLD LEG 1 1/2" + 2" R.T.D. TAKE-OFF

2" SCH. 160 / .343" T
1 1/2" SCH. 160 / .281" T

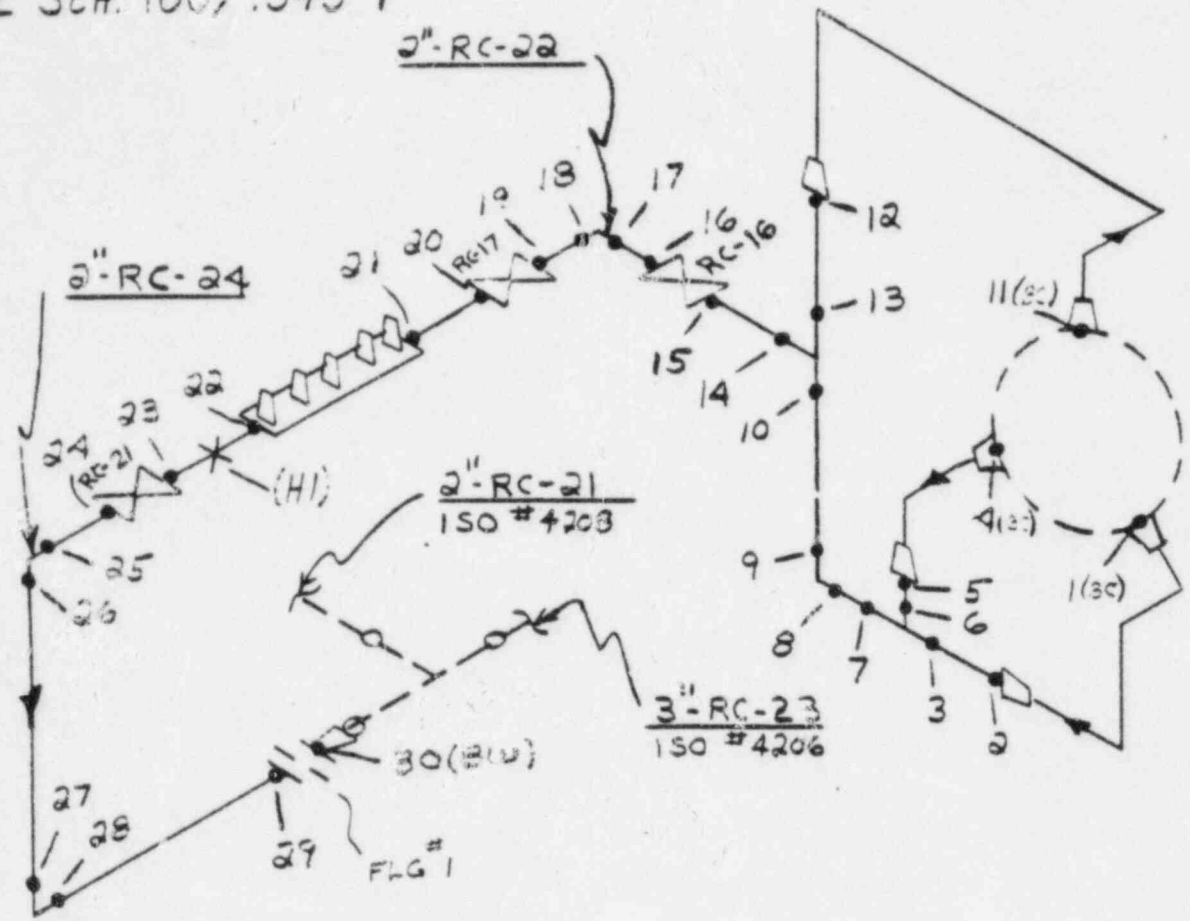


3/2

9/9/81

DLW-1-4209

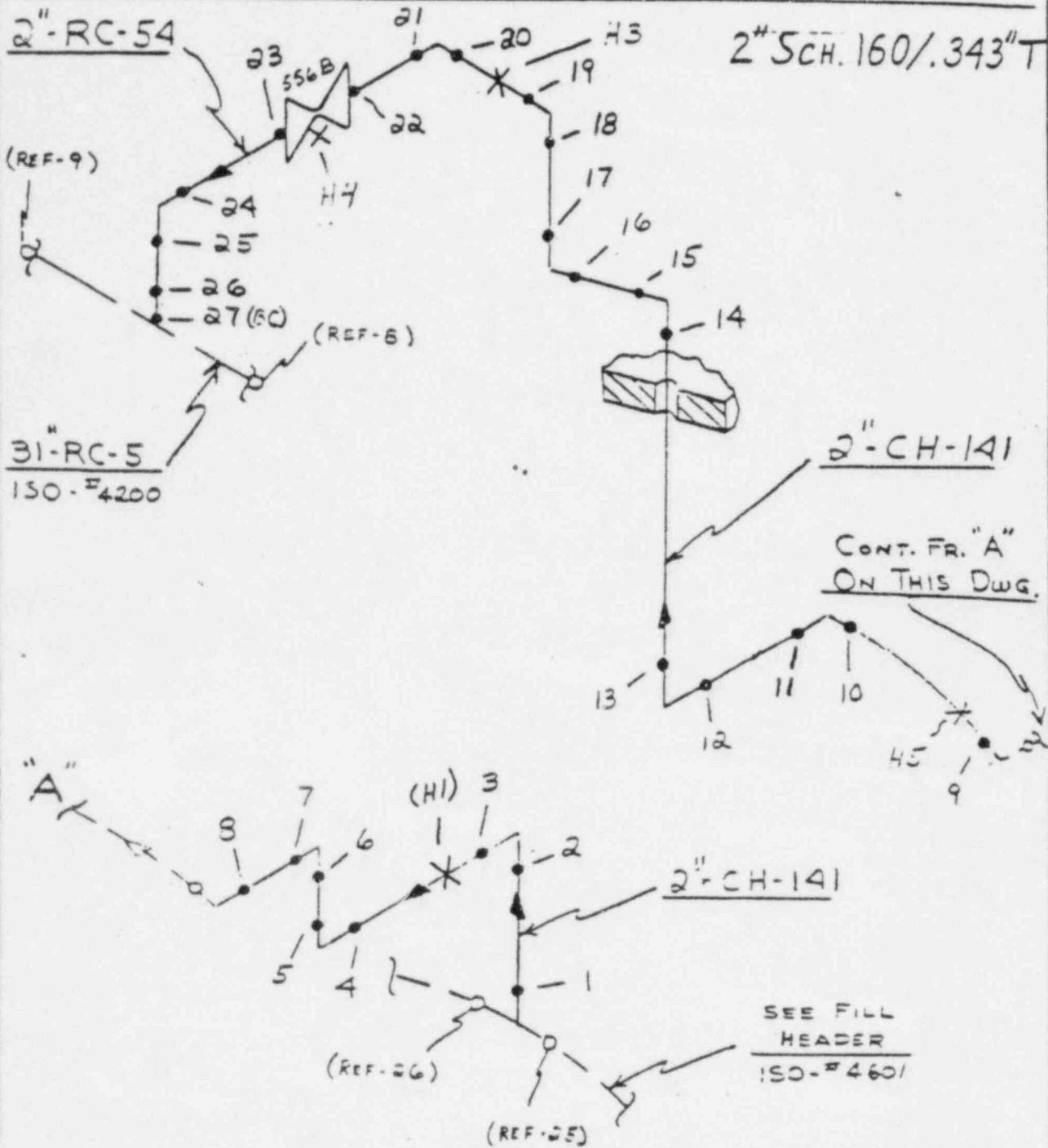
Loop #2 Hot Leg 2" R.T.D. TAKE-OFF
2" SCH. 160/.343" T



9/9/71

DLW-1-4210

LOOP #2 2" FILL LINE



314

TYPP-1

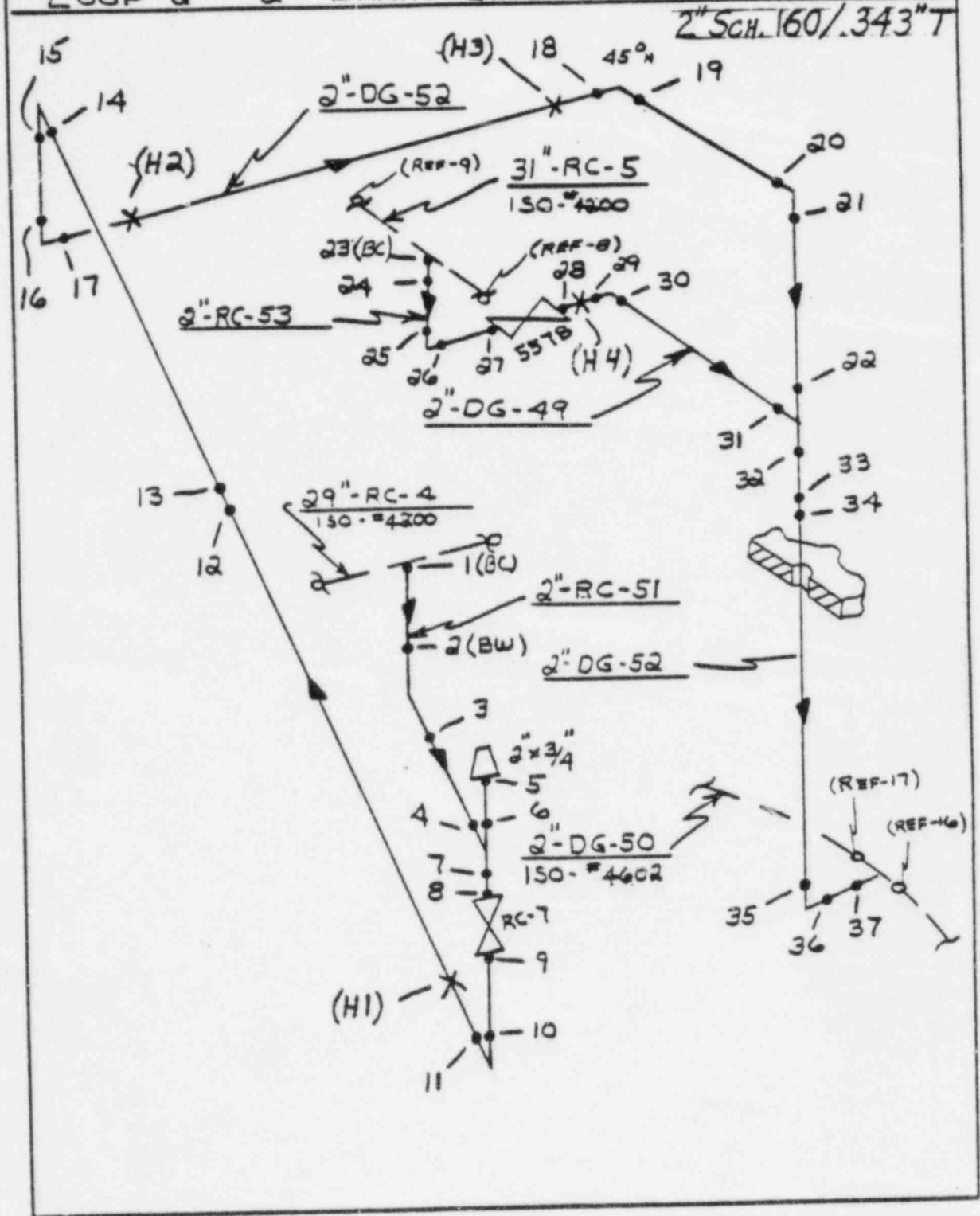
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Rev. 2

9/9/81

DLW-I-4211

LOOP #2 2" DRAIN LINE

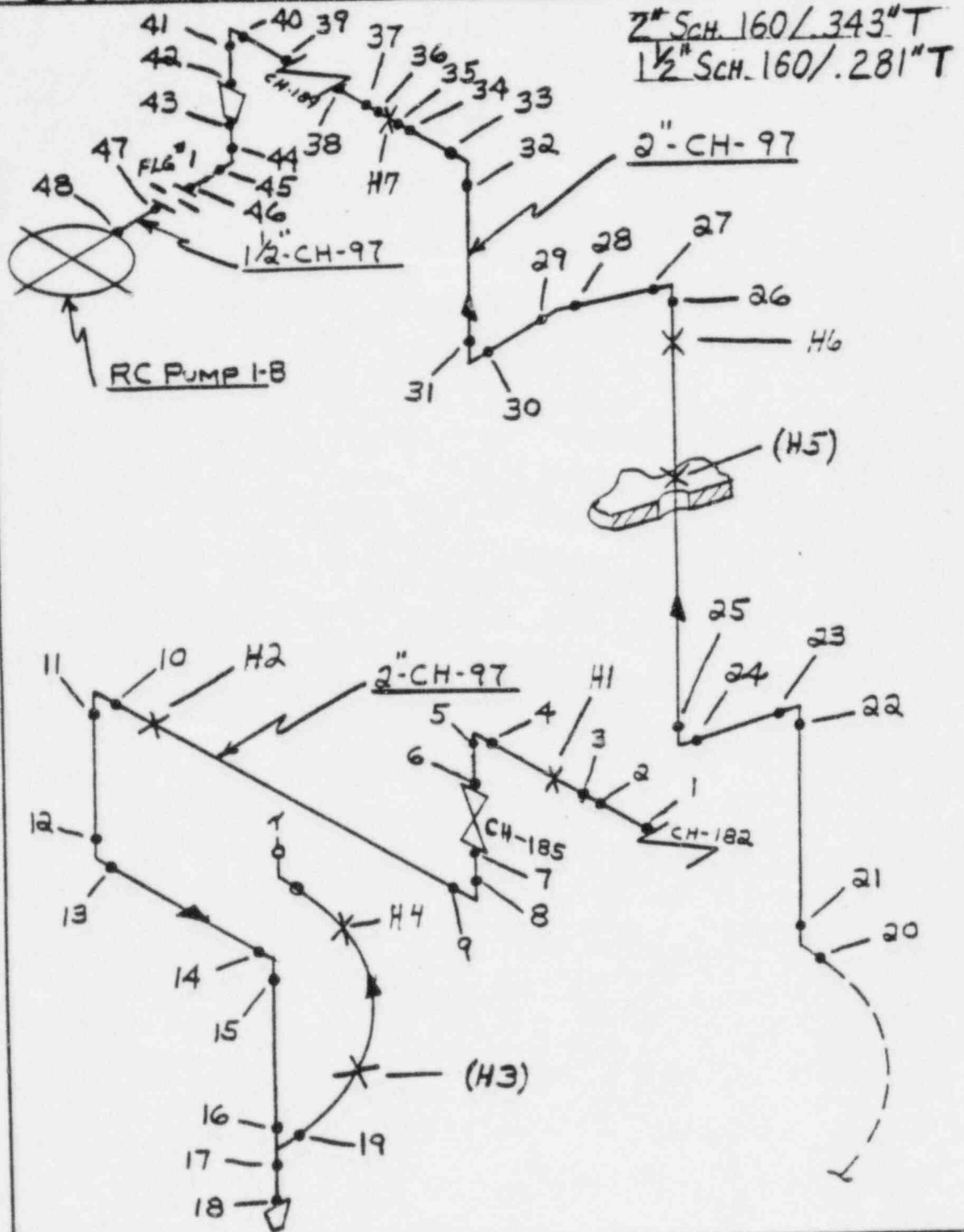


315

9/9/81

DLW-1-4212

LOOP #2 2" → 1 1/2" SEAL INJECTION

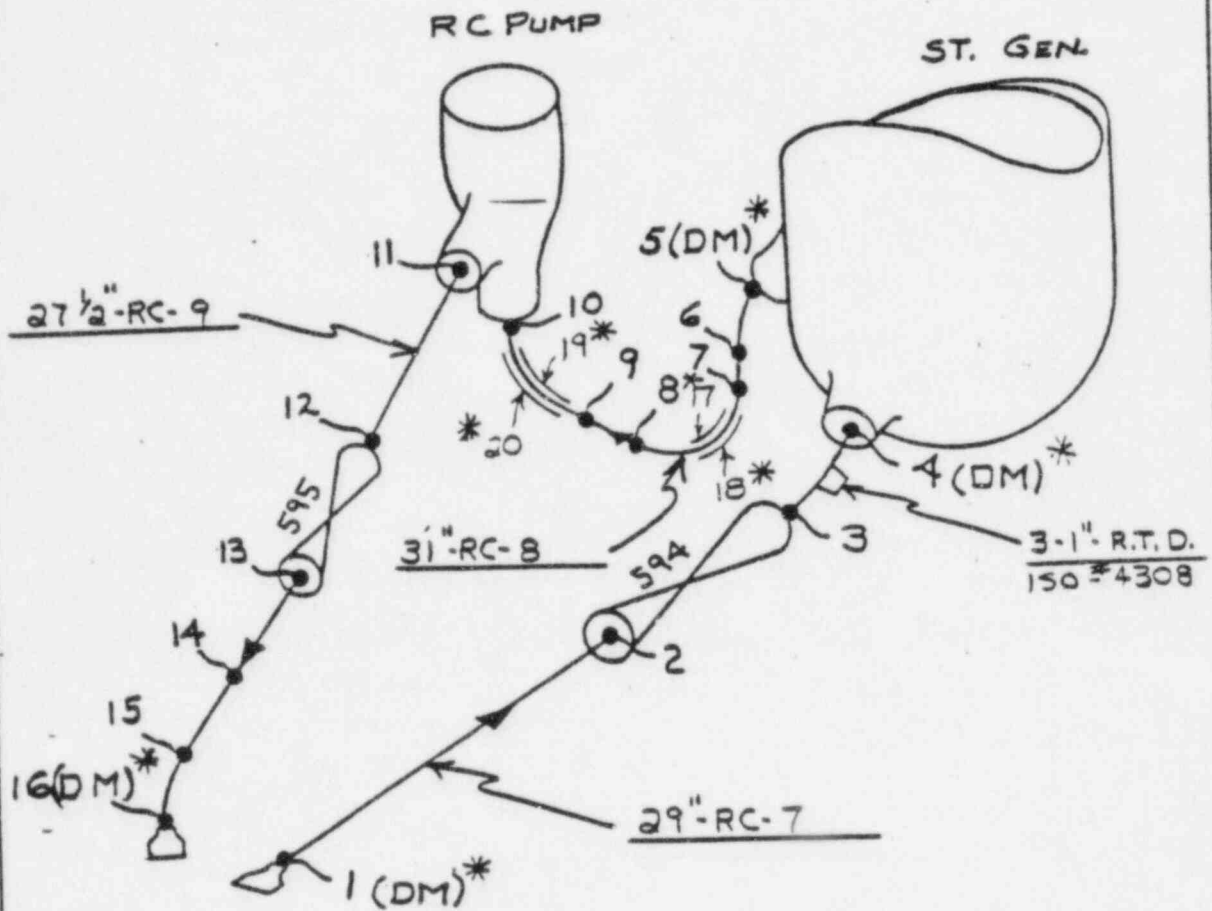


3/6

9/9/81

DLW-I-4300

LOOP #3 REACTOR COOLANT PIPE



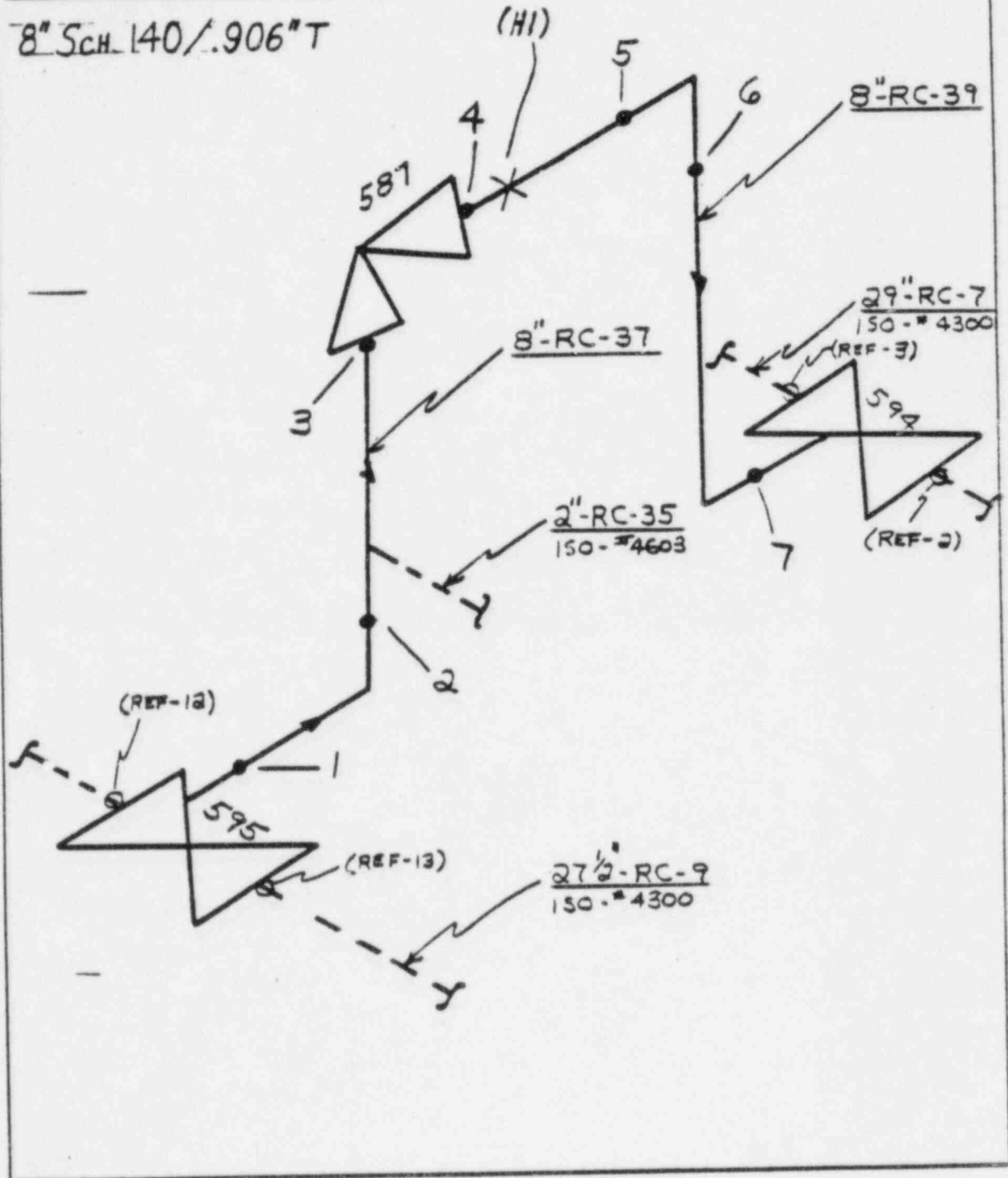
* NOTE:
WELDS 17 THRU 20 - LONGITUDINAL WELDS
IN 90° ELBOWS: See AMD. 22

9/9/81

DLW-1-4302

Loop #3 8" BY-PASS

8" Sch. 140 / .906" T



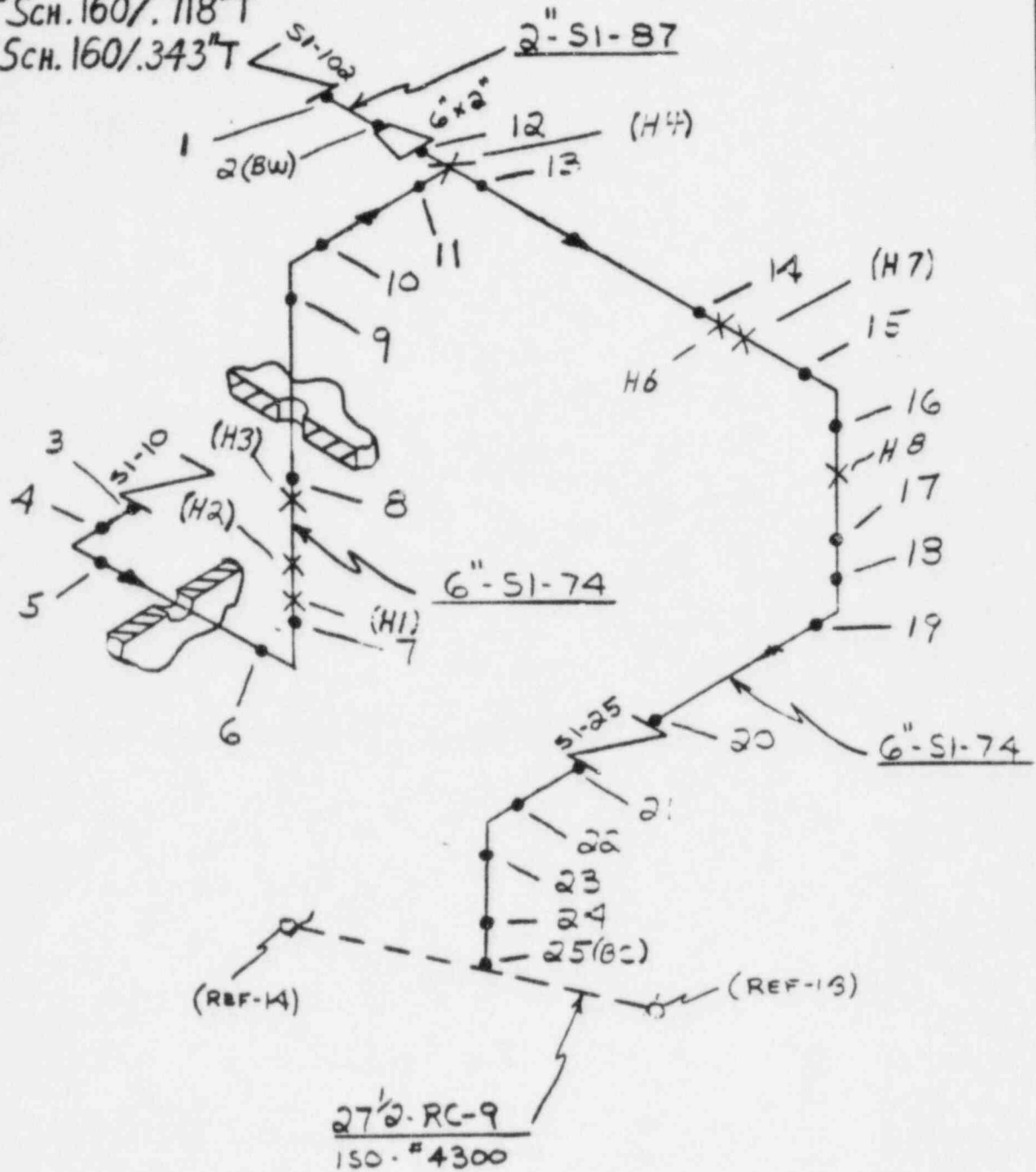
319

9/9/81

DLW-1-4303

LOOP #3 COLD LEG 6" x 2" LOW HEAD SIS

6" Sch. 160/.718" T
2" Sch. 160/.343" T



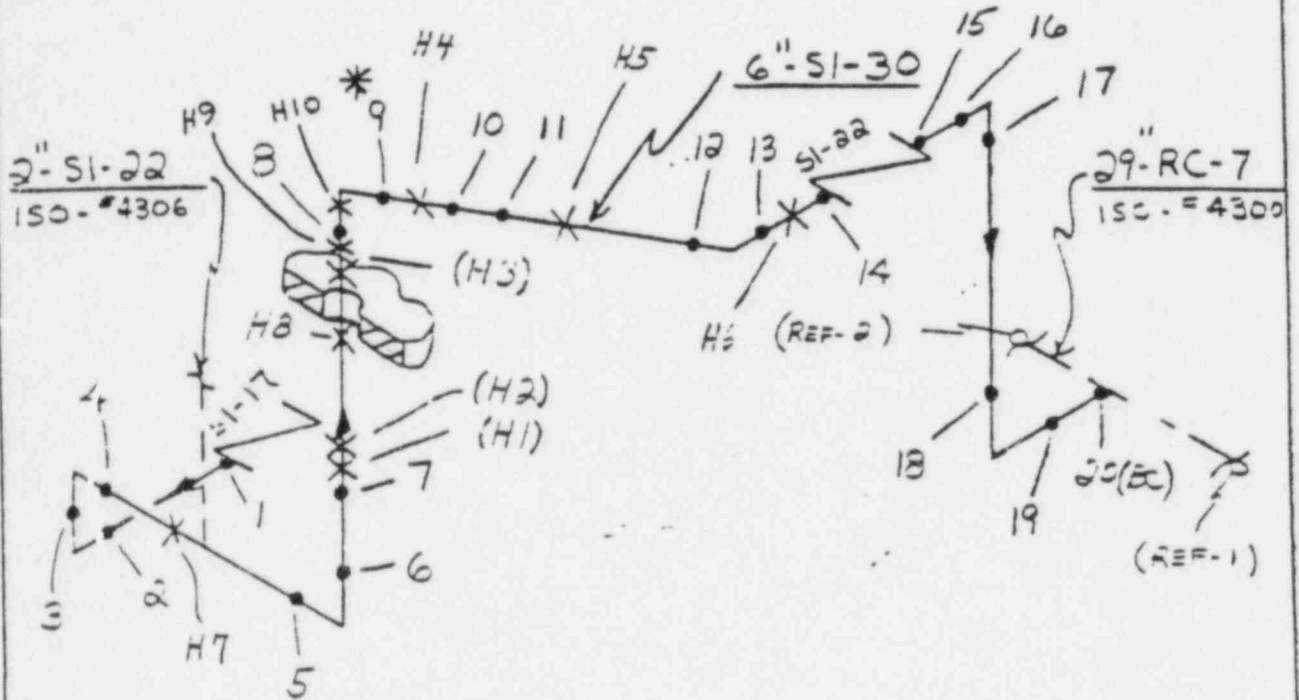
320

9/9/51

DLW-1-4304

Loop #3 Hot Leg 6" Low Head SIS

6" Sch. 160/.718" T



*SEE AMD. 22

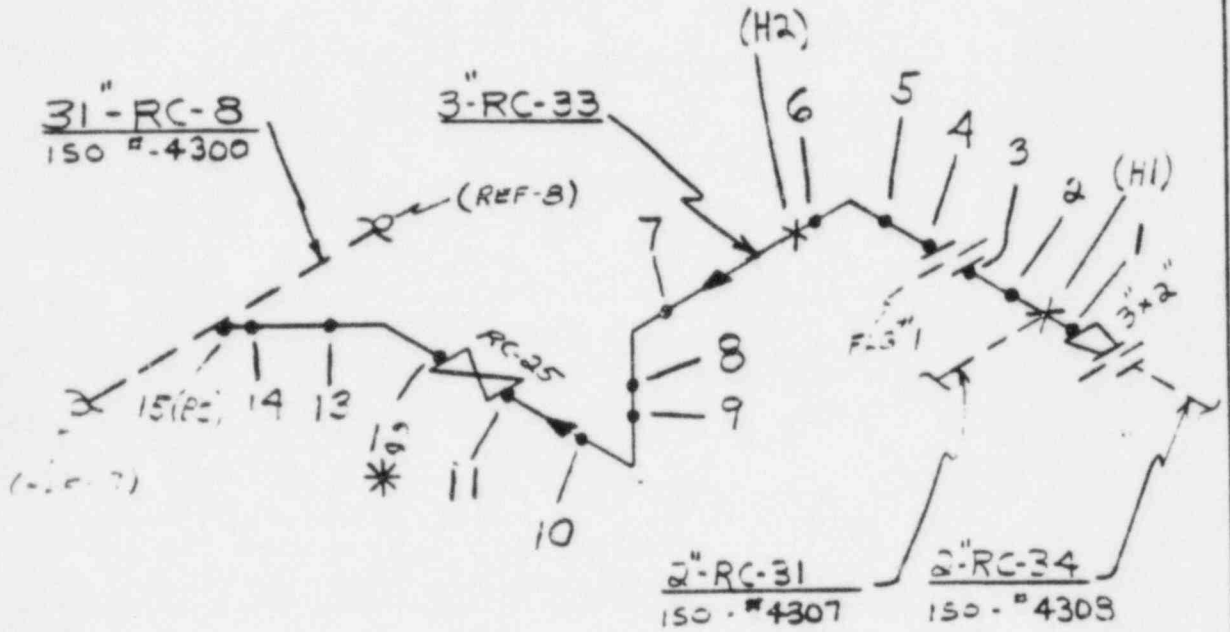
321

9/9/81

DLW-I-4305

LOOP #3 3" R.T.D RETURN

3" SCH. 160/.438" T



* SEE AMD. 22

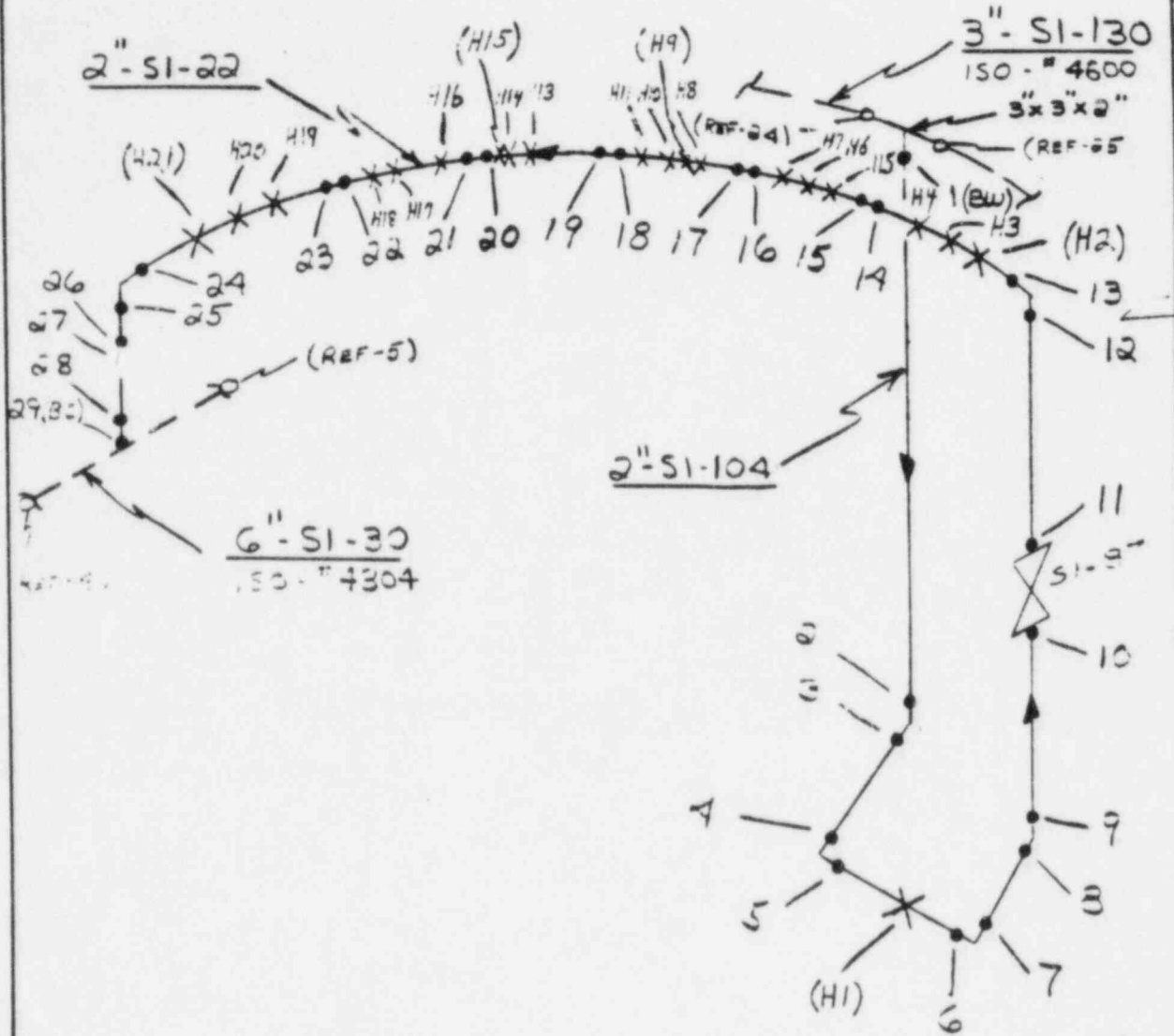
322

9/9/81

DLW-I-4306

LOOP #3 2" HOT LEG HIGH HEAD SIS

2" SCH. 160/.343" T



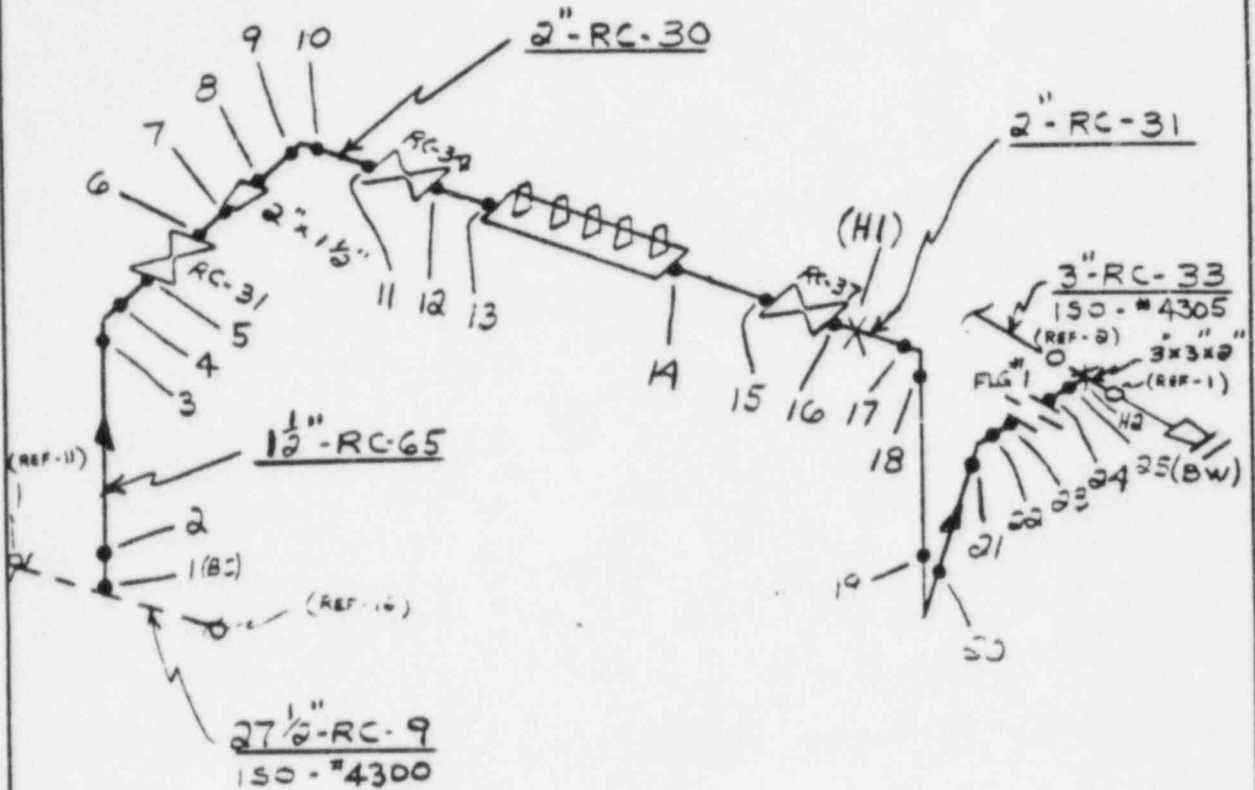
323

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DLW-1-4307

LOOP #3 COLD LEG 2" + 1 1/2" R.T.D. TAKE-OFF

2" SCH. 160 / .343" T
1 1/2" SCH. 160 / .281" T



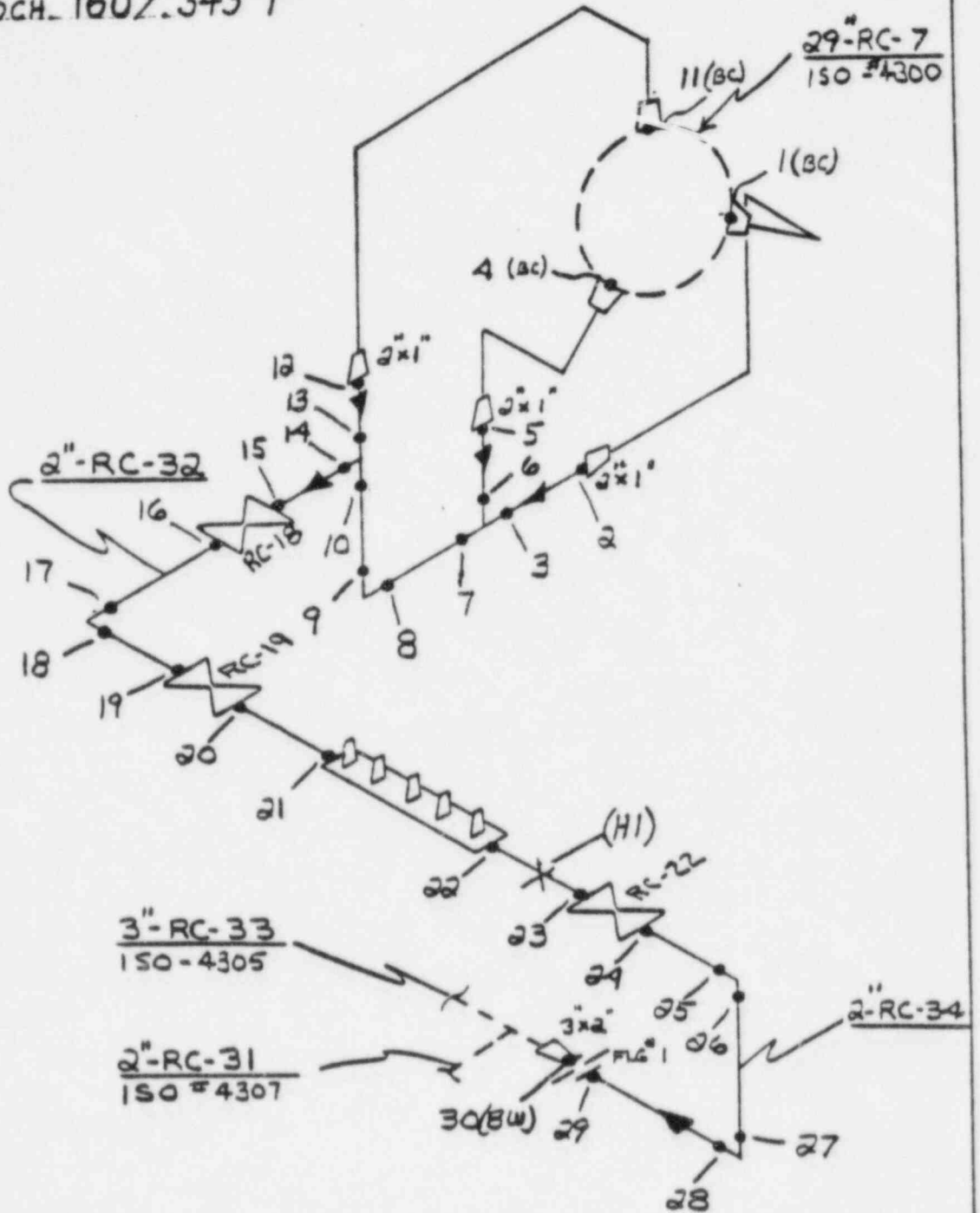
324

9/9/81

DLW-1-4308

Loop #3 HOT LEG 2" R.T.D TAKE-OFF

2" SCH. 160 / .343" T



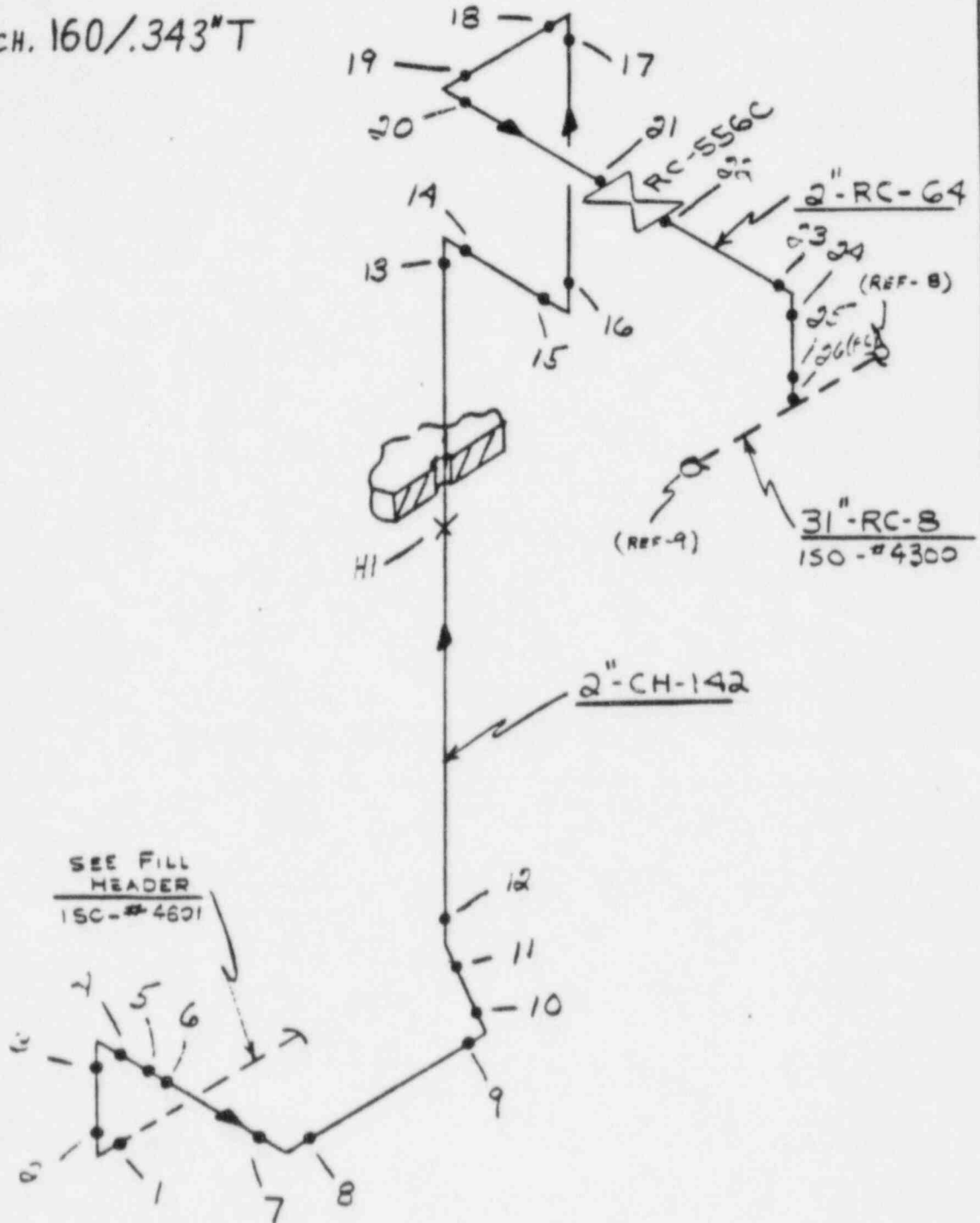
325

9/9/81

DLW-I-4309

LOOP #3 2" FILL LINE

2" Sch. 160/.343" T



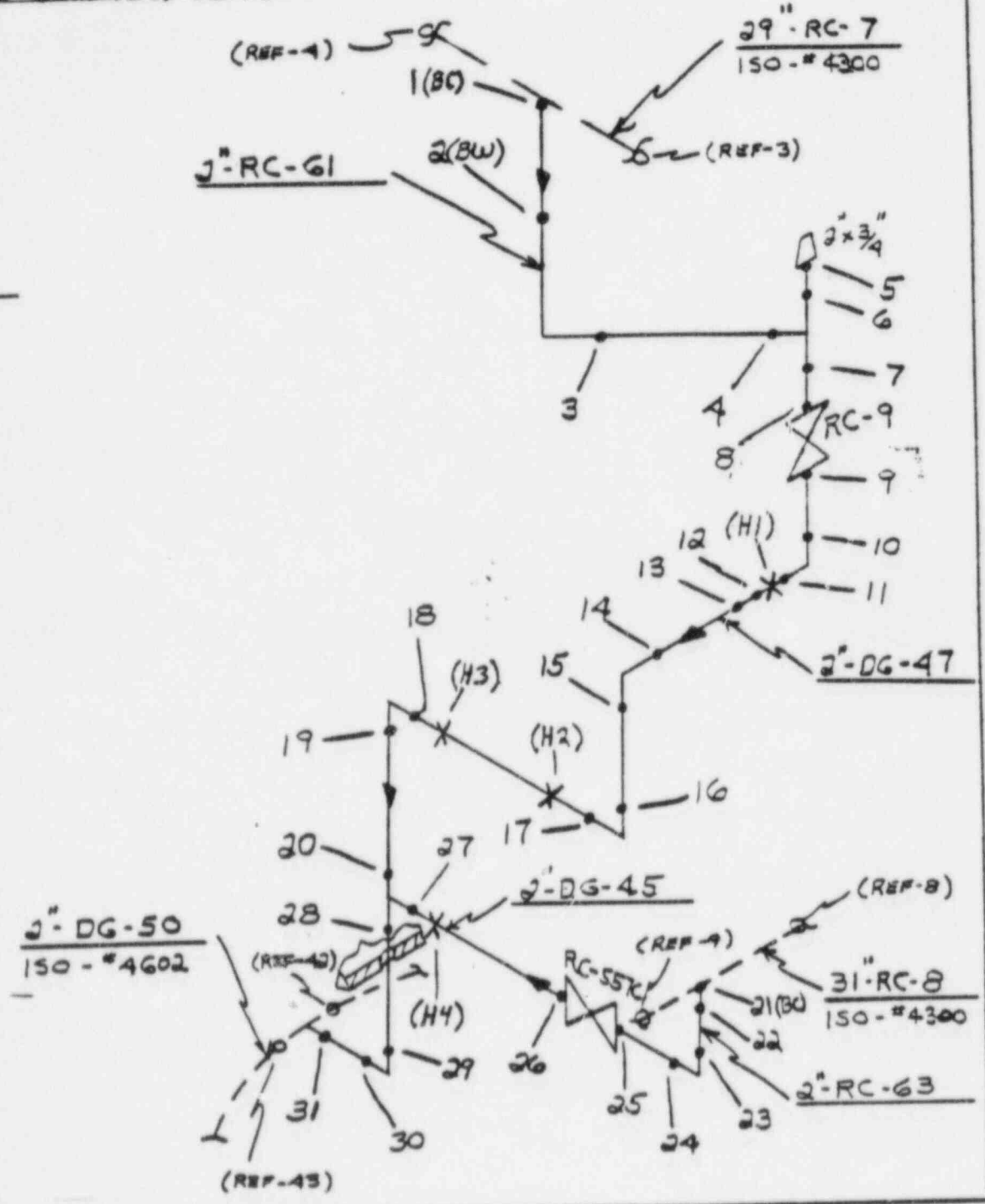
32C

9/9/81

DLW-1-4310

Loop #3 2" - DRAIN LINE

2" SCH. 160/.343" T



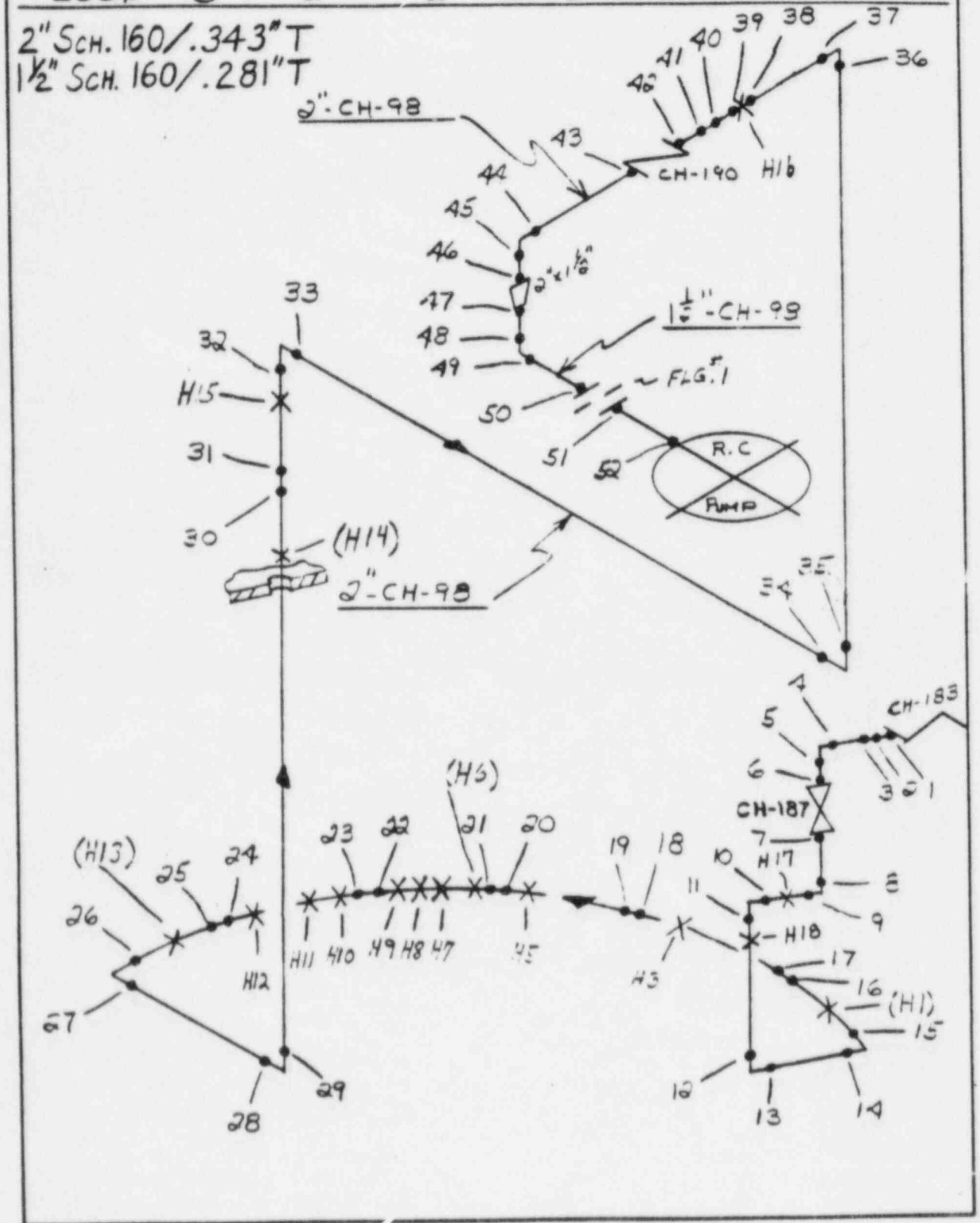
327

9/9/81

DLW-1-4311

Loop # 3 2" + 1 1/2" SEAL INJECTION

2" Sch. 160/.343" T
1 1/2" Sch. 160/.281" T



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TYPP-1

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Rev. 2

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DLW-I-4500

14" PRESSURIZER SURGE

14" SCH 160 / 1.406" T

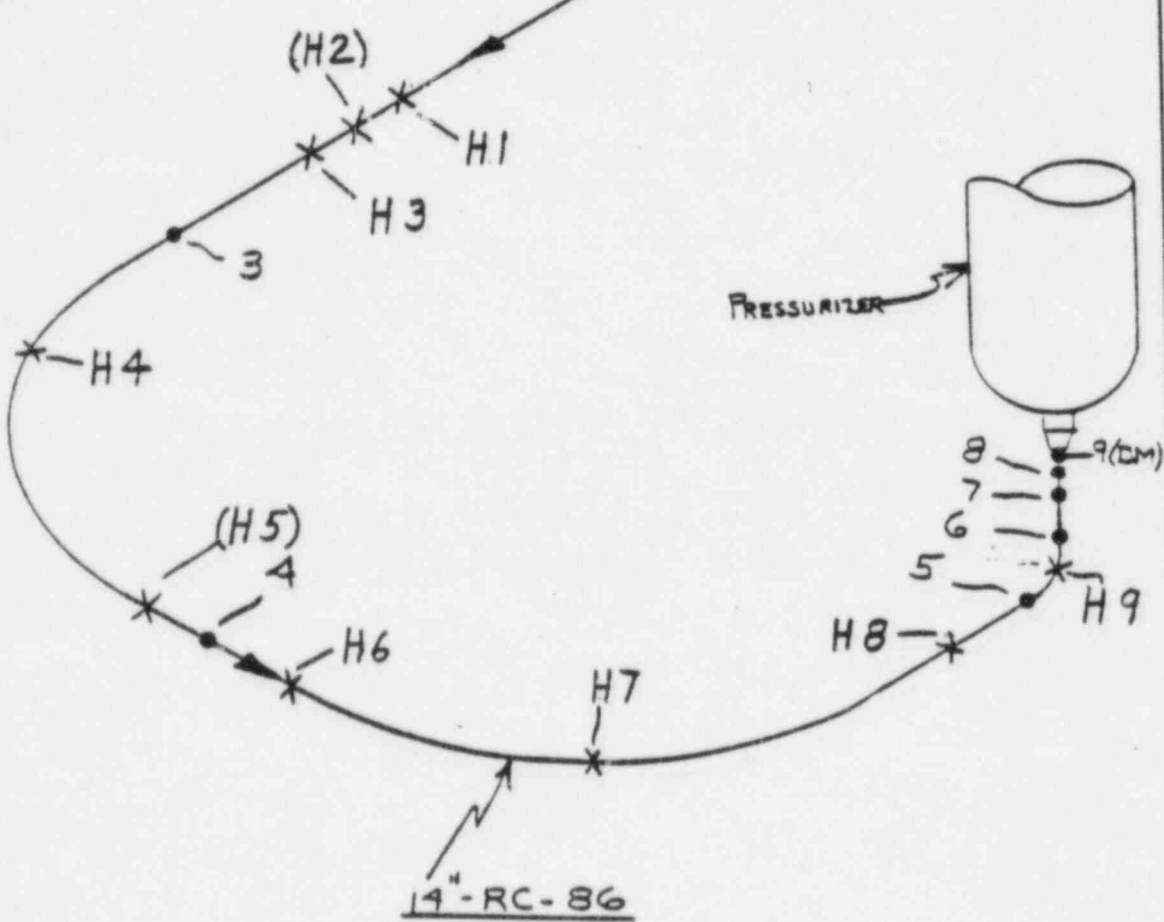
29" RC-7
150 - #4300

(REV-1)

2

1(BG)

(REV-2)



329

TYPP-1

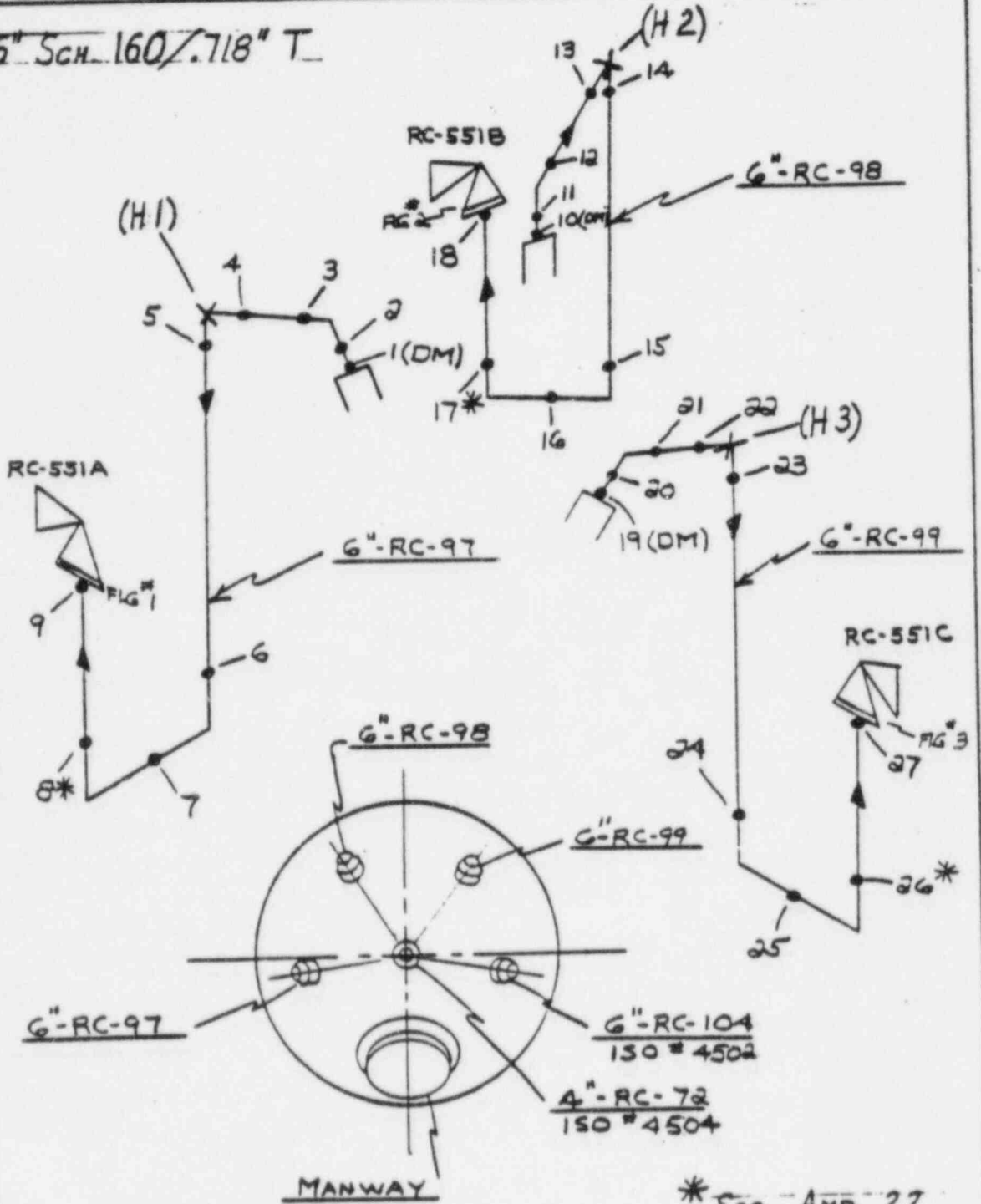
page IV-52

Rev. 2

DLW-I-4501

6" PRESSURIZER SAFETY

6" SCH. 160 / .718" T

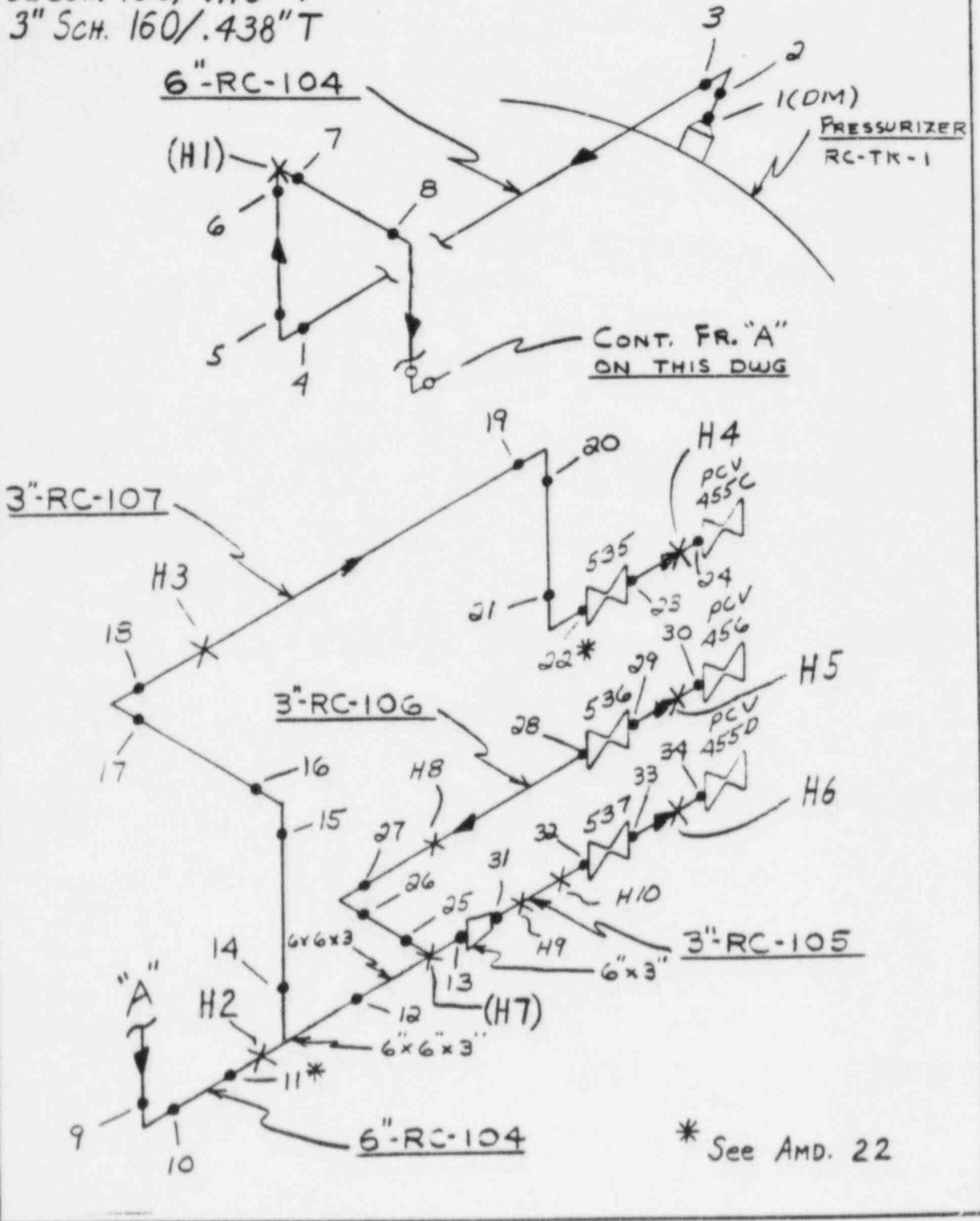


9/9/31

DLW-I-4502

6" & 3" PRESSURIZER RELIEF

6" Sch. 160/.718" T
3" Sch. 160/.438" T

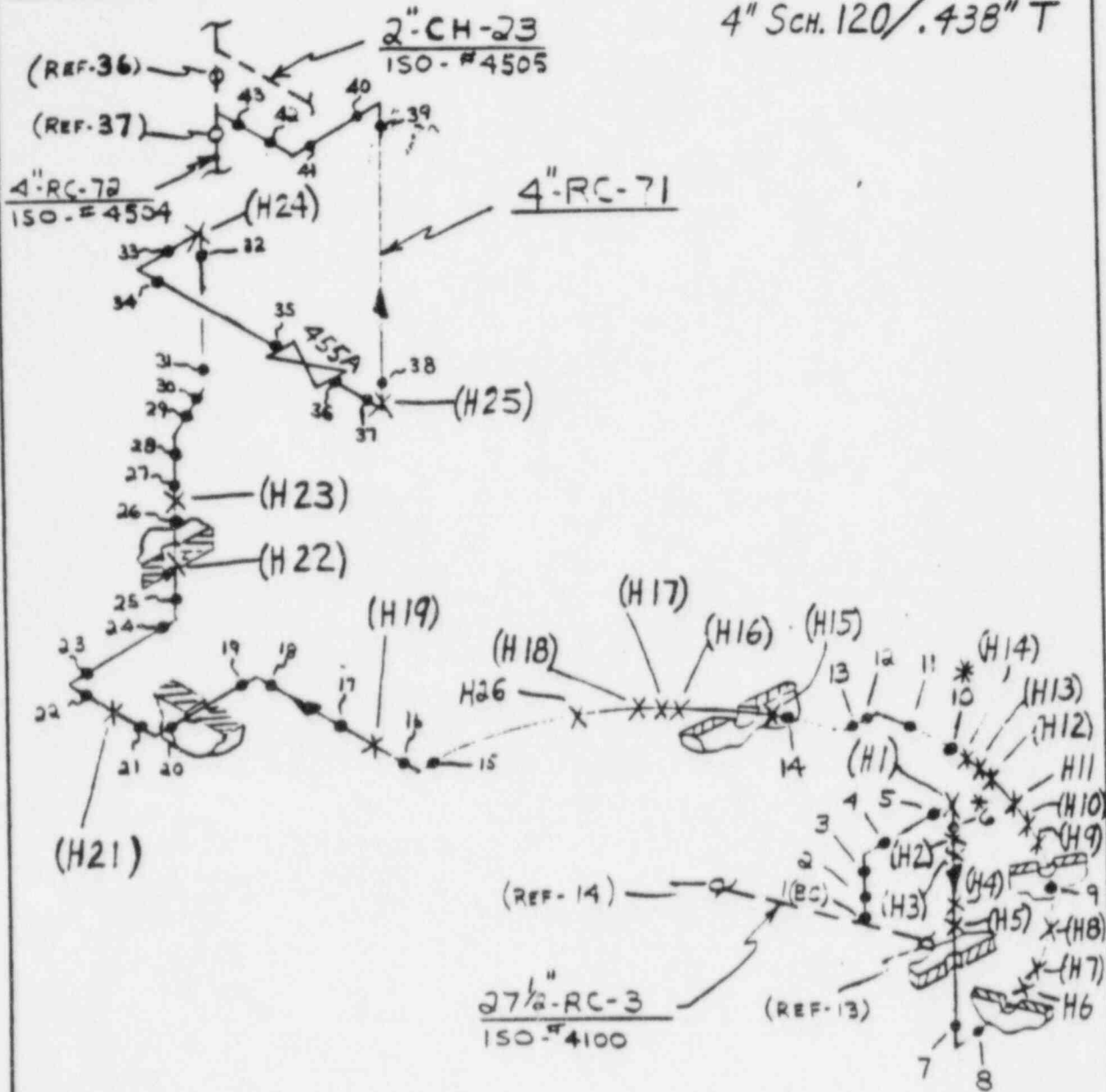


33/

9/9/81

DLW-I-4503

LOOP # 1 COLD LEG 4" PRESSURIZER SPRAY



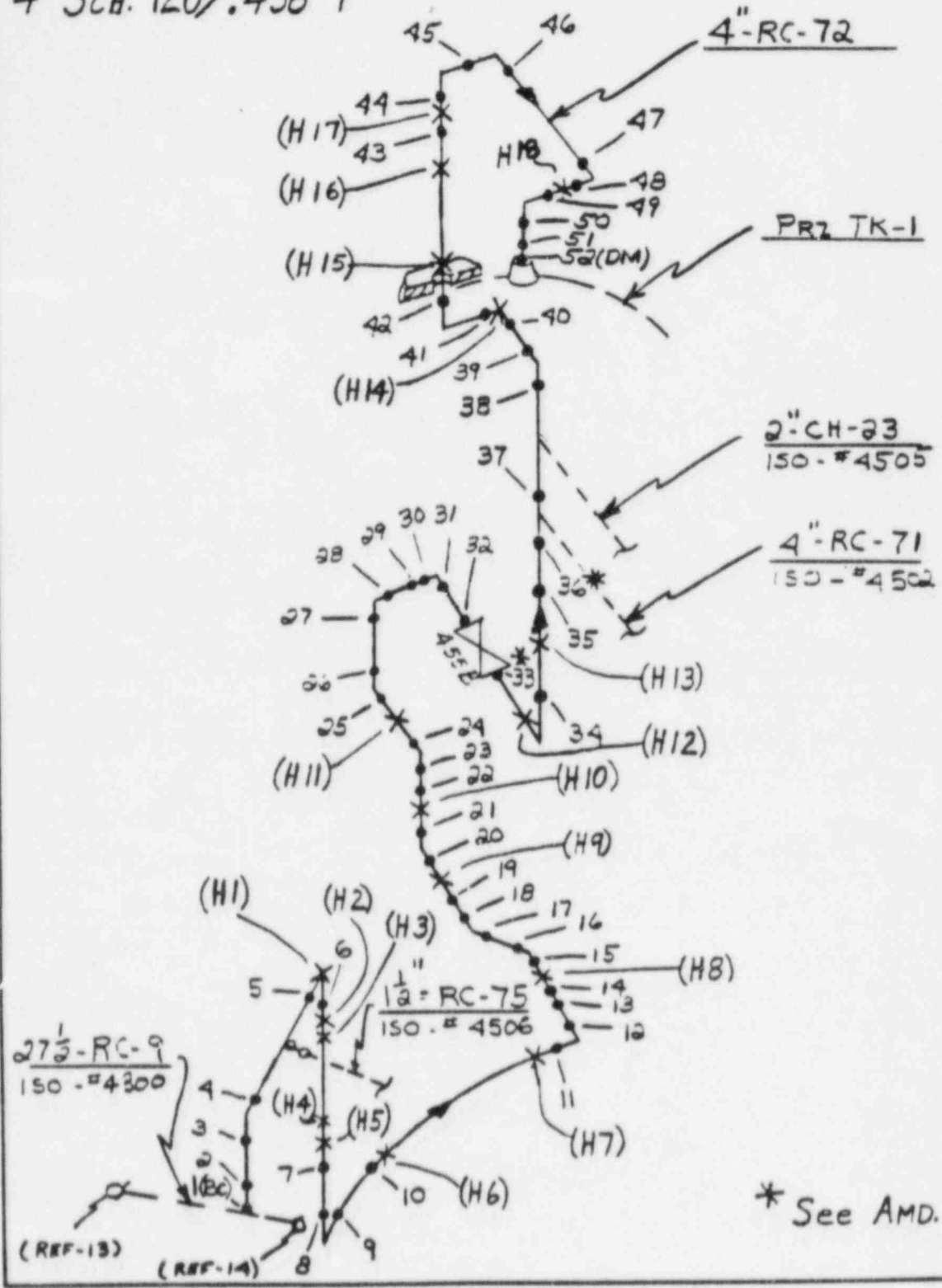
* See AMD. 22

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DLW-I-4504

Loop #3 COLD LEG 4" PRESSURIZER SPRAY
4" SCH. 120/.438" T

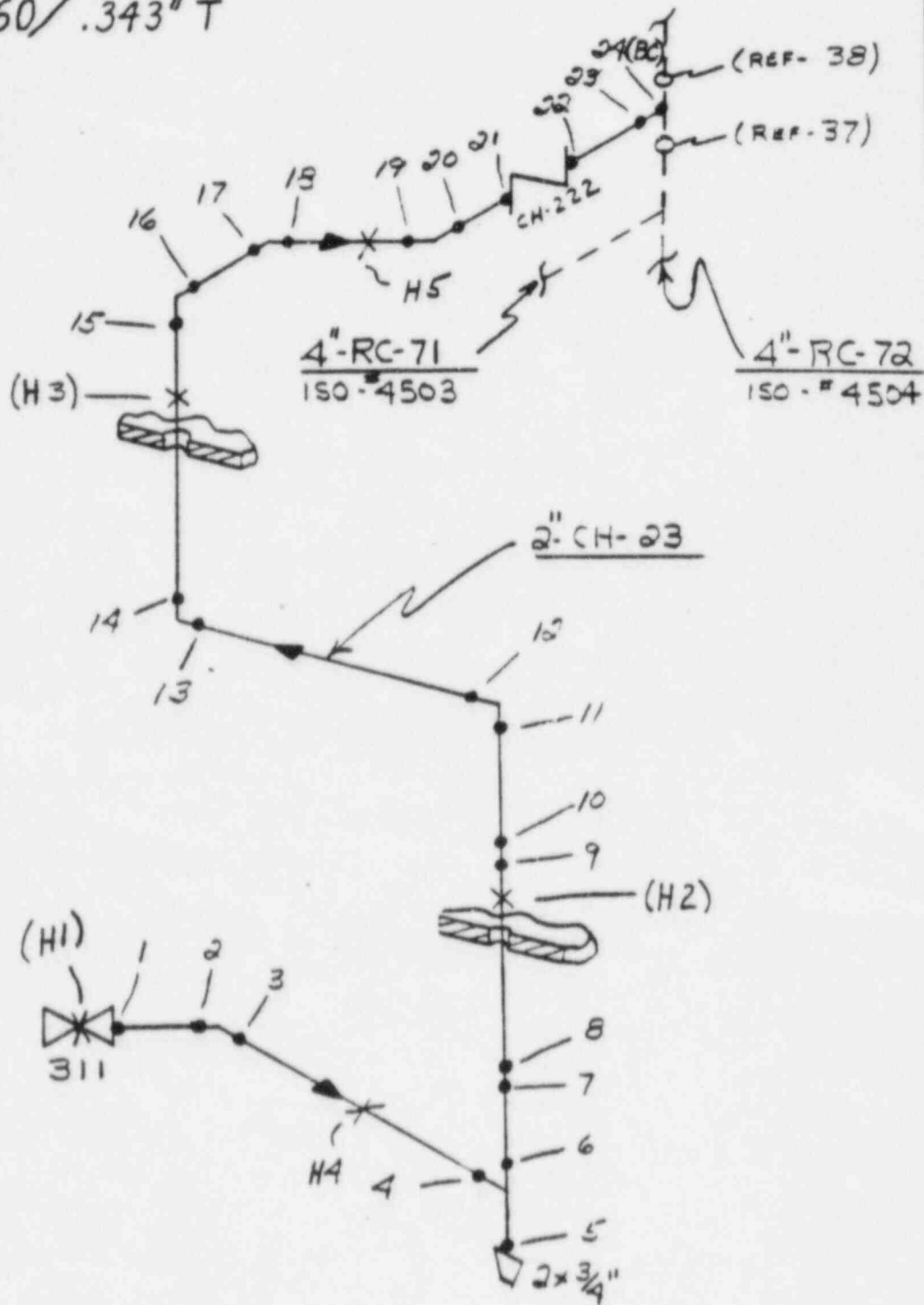


* See AMD. 22

9/9/81

DLW-I-4505

2" - AUXILIARY SPRAY
2" SCH. 160 / .343" T

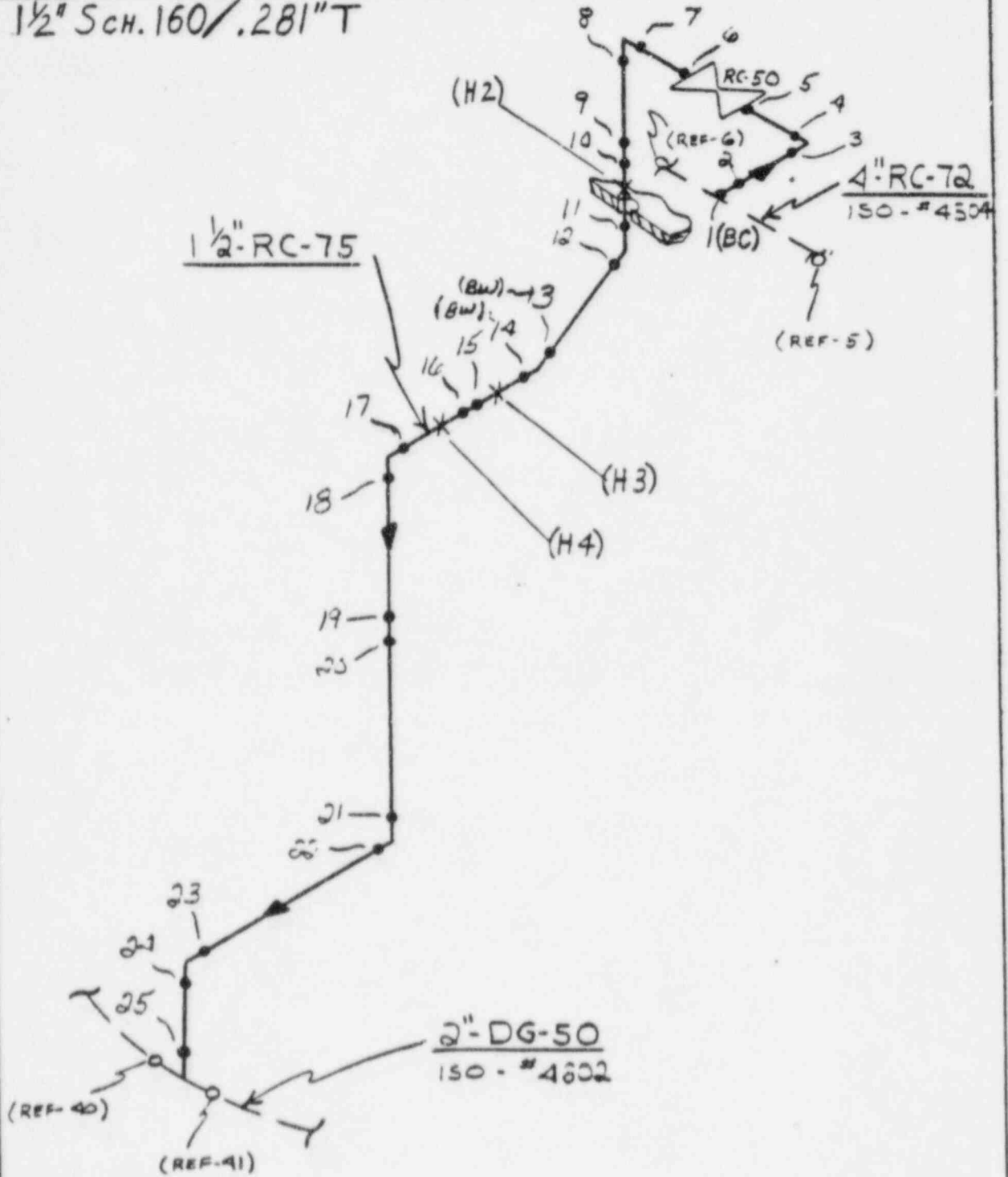


33y

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DLW-1-4506

1 1/2" PRESSURIZER SPRAY LINE DRAIN
1 1/2" Sch. 160 / .281" T



F

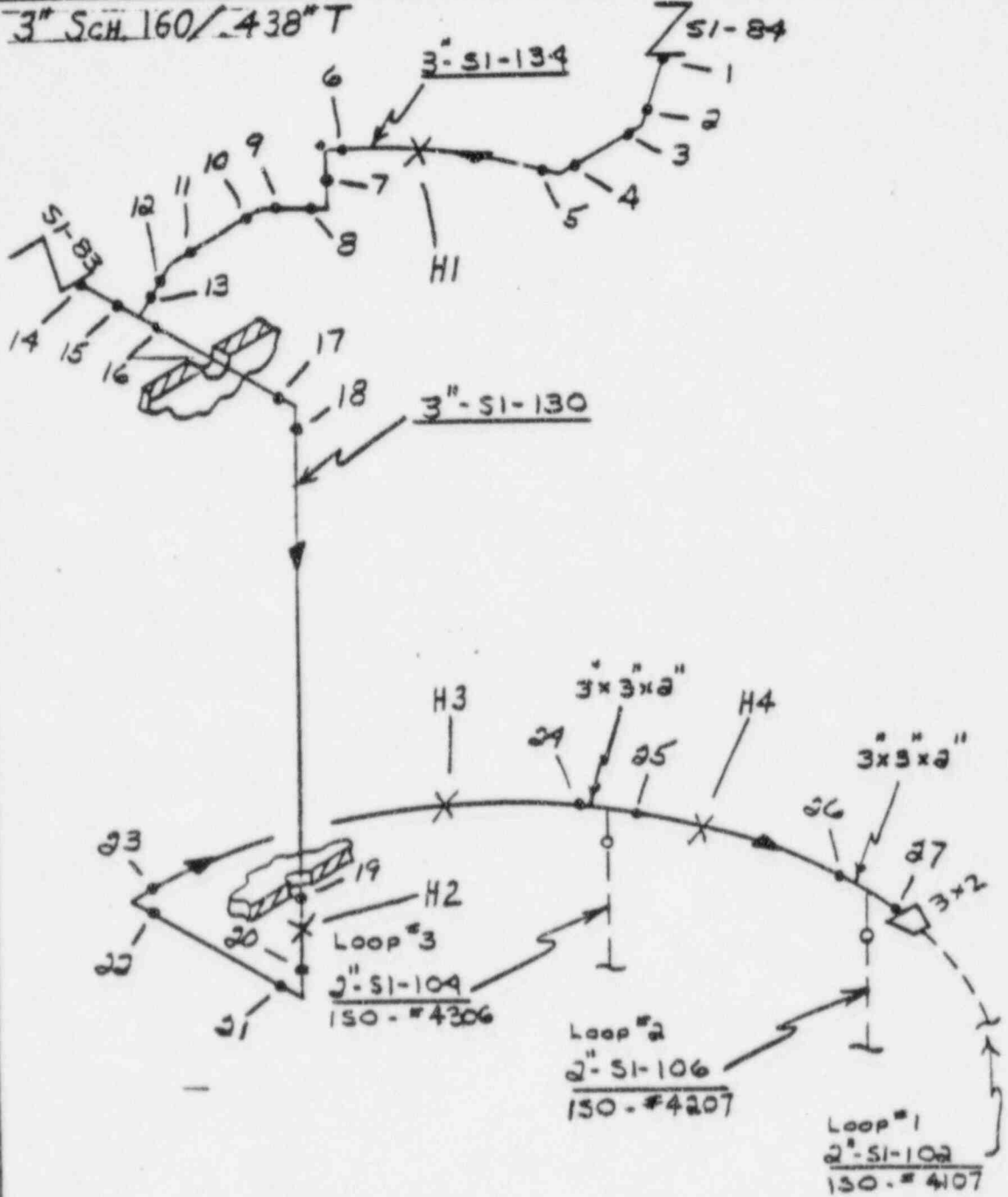
335

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DLW-1-4600

3" HIGH HEAD HOT LEG SIS

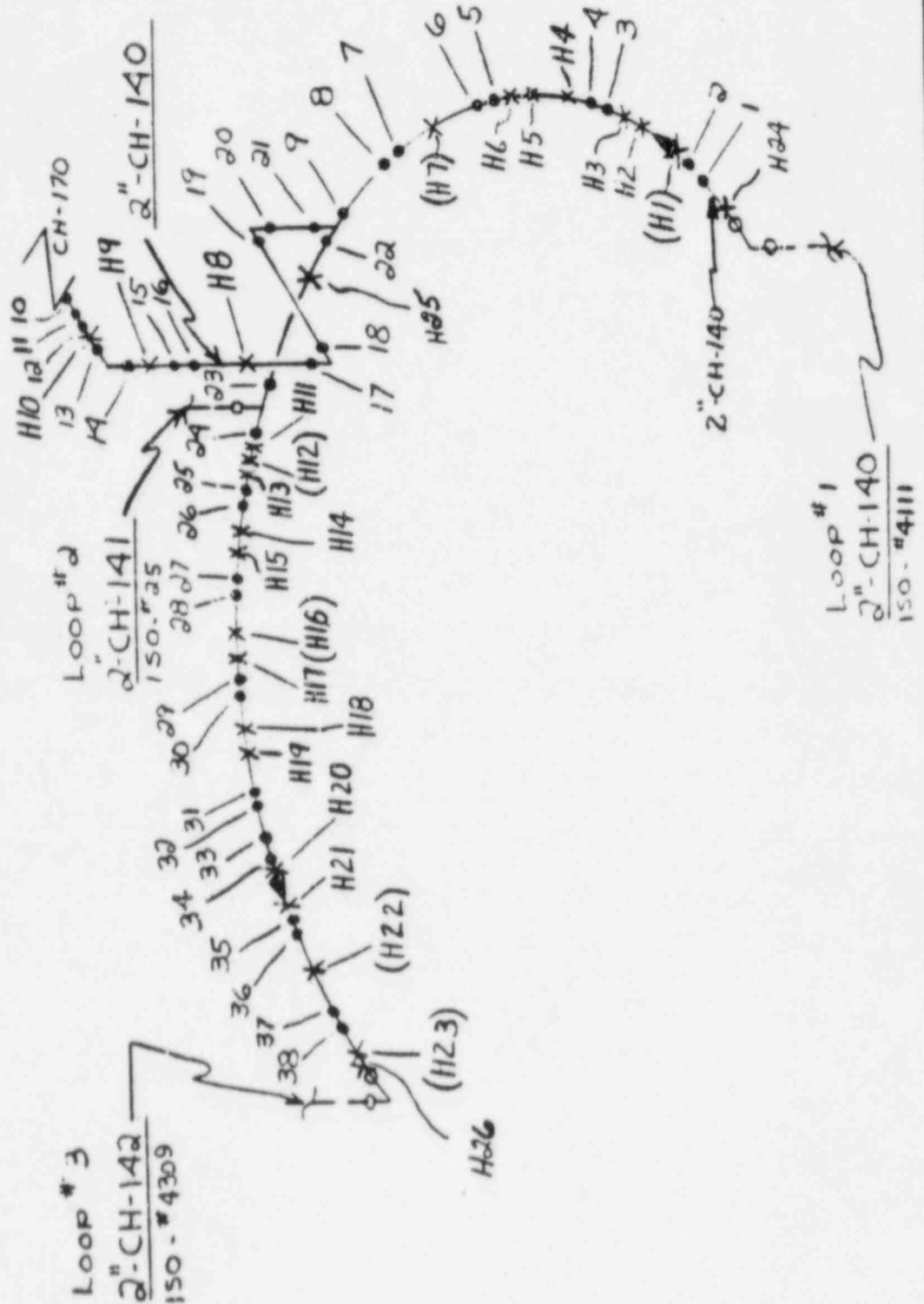
3" SCH. 160 / 438" T



9/9/71

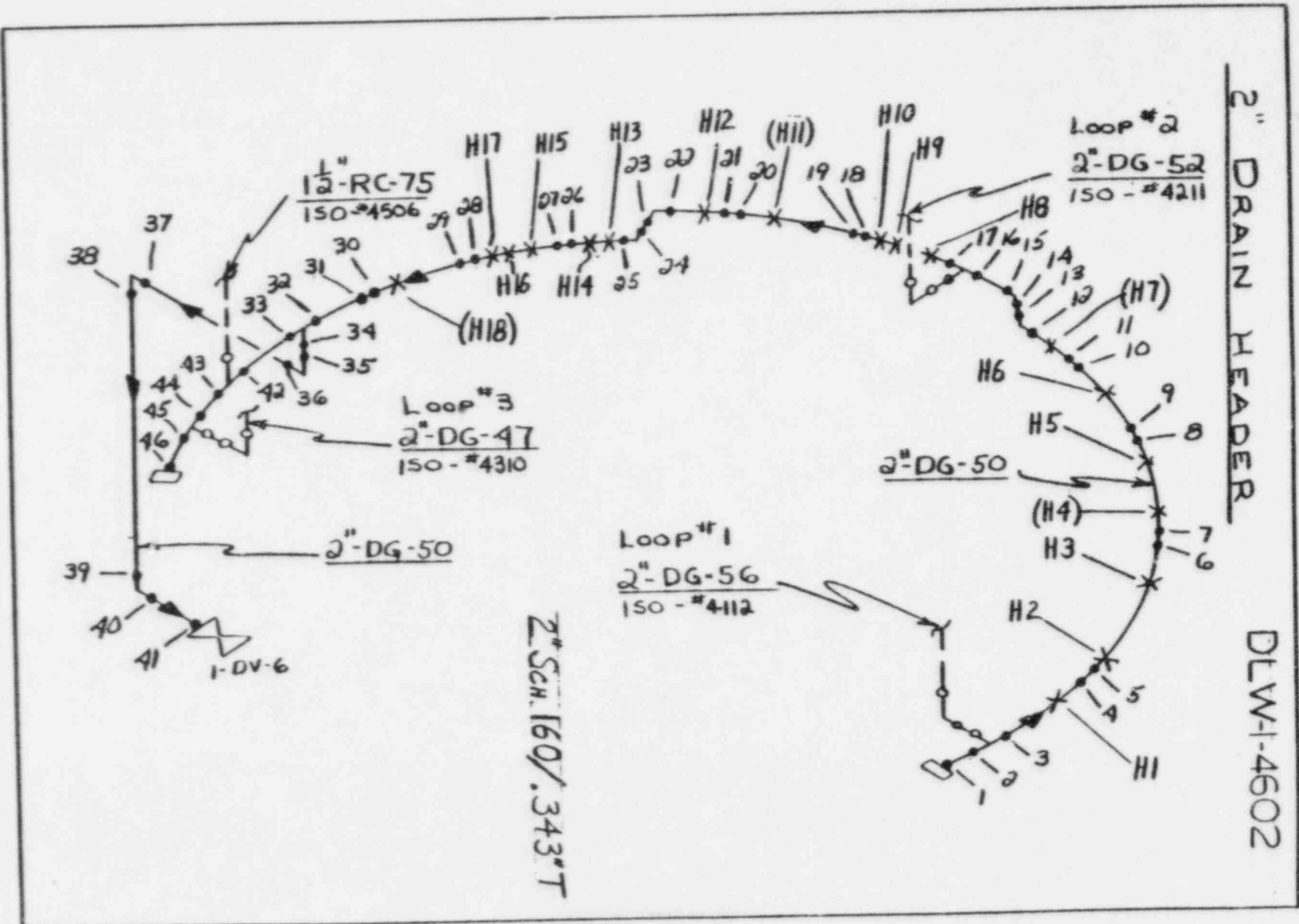
DLW-I-4601

2" FILL HEADER
2" SCH. 160/.343" T



2" DRAIN HEADER

DLW-1-4602



2" SCH. 160/.343" T

JST

TRPP-1

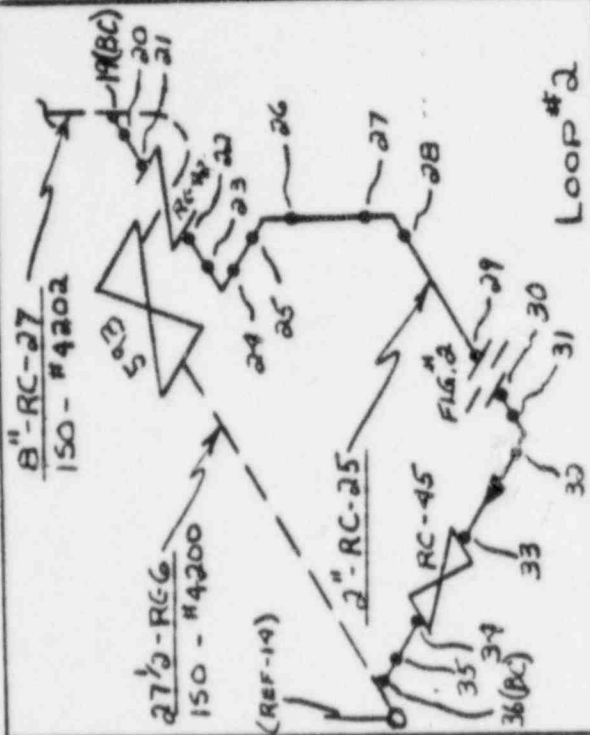
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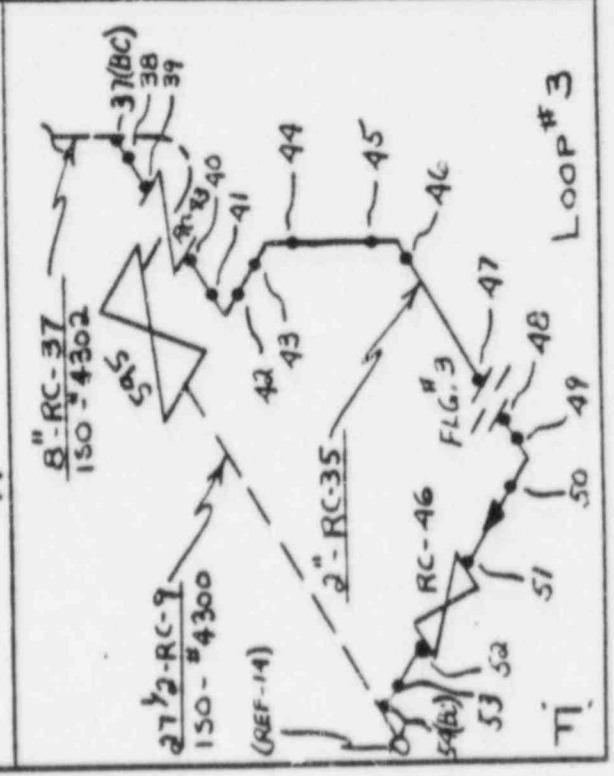
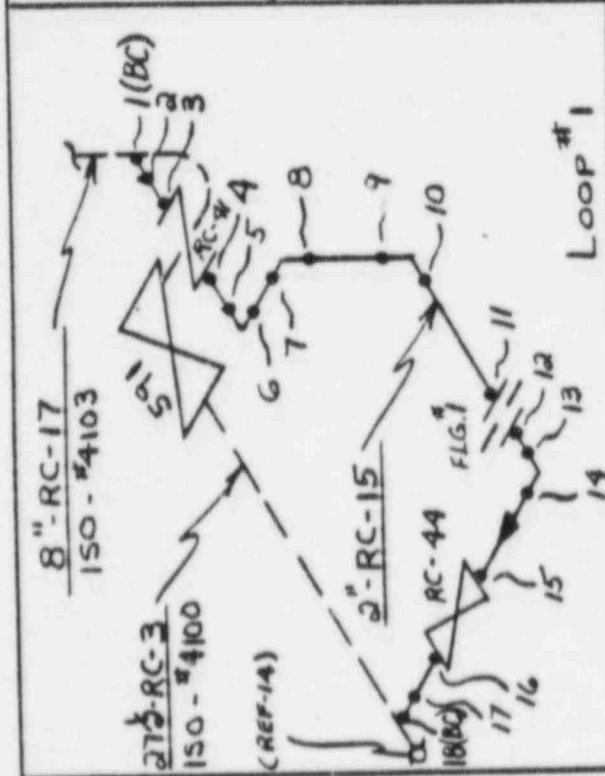
9/9/51

DLW-1-4603

2" PRESSURE EQUALIZATION



2" SCH 160 / 343°T



DLW-1-4700

ORIFICE FLANGE BOLTING

<u>ITEM NO.</u>	<u>ISO</u>	<u>LOCATION</u>	<u>NO. BOLTS</u>
1	1-4106	Between welds 3 and 4	8
2	1-4108	Between welds 23 and 24	8
3	1-4109	Between welds 29 and 30	8
4	1-4113	Between welds 44 and 45	4
5	1-4603	Between welds 11 and 12	8
6	1-4206	Between welds 3 and 4	8
7	1-4208	Between welds 23 and 24	8
8	1-4209	Between welds 29 and 30	8
9	1-4212	Between welds 46 and 47	4
10	1-4603	Between welds 29 and 30	8
11	1-4305	Between welds 3 and 4	8
12	1-4307	Between welds 23 and 24	8
13	1-4308	Between welds 29 and 30	8
14	1-4311	Between welds 50 and 51	4
15	1-4603	Between welds 47 and 48	8
16	1-4501	Valve Mounting Flange - 551A	12
17	1-4501	Valve Mounting Flange - 551B	12
18	1-4501	Valve Mounting Flange - 551C	12

DLW 1-4800

HANGERS AND SUPPORTS

ITEM NO.	ISO'S	H&S	ITEM NO.	ISO'S	H&S	ITEM NO.	ISO'S	H&S
1	1-4101	(H1)	35	1-4105	H8	68	1-4113	H7
2		H2	36		--	69		H8
3		(H3)	37		H9	70		H9
4		(H4)	38		H10	71		H10
5		(H5)	39		--	72		H11
6	1-4102	(H1)	40		H11	73		H12
7		(H2)	41	1-4106	(H1)	74		H13
8		(H3)	42		(H2)	75		H14
9		--	43		(H3)	76		H15
10		H4	44	1-4107	H1	77		(H16)
11		H5	45		(H2)	78		H17
12		H6	46		H3	79		H18
13		(H7)	47	1-4108	(H1)	80	1-4201	(H1)
14		H8	48	1-4109	(H1)	81		H2
15		(H9)	49		(H2)	82		(H3)
16		(H10)	50	1-4110	(H1)	83		(H4)
17	1-4103		50A		H2	84		--
18		(H2)	51	1-4111	H1	85		H6
19	1-4104	H1	52		H2	86		(H7)
20		(H2)	53		(H3)	87		H8
21		(H3)	54		H4	88		(H9)
22		(H4)	55		(H5)	89		(H10)
23		H5	56		--	90		--
24		(H6)	57		H7	91		(H12)
25		H7	58	1-4112	(H1)	91A		H13
26		(H8)	59		(H2)	92		(H1)
27		H9	60		(H3)	92A	1-4202	H2
27A		H10	61		(H4)	93	1-4203	--
28	1-4105	H1	61A		H5	93A		H1A
29		H2	62	1-4113	H1	94		(H2)
30		H3	63		(H2)	95		--
31		(H4)	64		H3	96		--
32		H5	65		H4	97		(H5)
33		H6	66		H5	98		H6
34		(H7)	67		H6			

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DLW 1-4800 HANGERS AND SUPPORTS

ITEM NO.	ISO'S	H&S	ITEM NO.	ISO'S	H&S	ITEM NO.	ISO'S	H&S
99	1-4203	(H7)	130	1-4212	H1	161	1-4305	(H2)
99A		H8	131		H2	162		--
99B		H9	132		(H3)	163	1-4306	(H1)
99C		H10	133		H4	164		(H2)
100	1-4204	--	134		(H5)	165		H3
101		--	135		H6	166		H4
102		--	136		H7	167		H5
103		--	137	1-4301	(H1)	168		H6
104		(H5)	138		--	169		H7
105		H6	139		(H3)	170		H8
106		--	140		(H4)	171		(H9)
107		H8	141		H5	172		H10
108		H9	142		--	173		H11
109		H10	143		(H7)	174		--
110	1-4205	(H1)	144		(H8)	175		H13
111		(H2)	145		(H9)	176		H14
112		(H3)	145A		H10	177		(H15)
113	1-4206	(H1)	146	1-4302	(H1)	178		H16
114		(H2)	147	1-4303	(H1)	179		H17
115		--	148		(H2)	180		H18
116		H4	149		(H3)	181		H19
117	1-4207	(H1)	150		(H4)	182		H20
118		H2	151		--	183		(H21)
119		H3	152		H6	184	1-4307	(H1)
120	1-4208	(H1)	153		(H7)			
121	1-4209	(H1)	153A		H8	185	1-4308	(H1)
122	1-4210	(H1)	154	1-4304	(H1)	186	1-4309	H1
123		--	155		(H2)	187		--
124		H3	156		(H3)	188		--
125		H4	157		H4	189	1-4310	(H1)
125A		H5	158		H5	190		(H2)
126	1-4211	(H1)	159		H6	191		(H3)
127		(H2)	159A		H7	192		(H4)
128		(H3)	159B		H8	193	1-4311	(H1)
129		(H4)	160	1-4305	(H1)			

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DLW 1-4800

HANGERS AND SUPPORTS

ITEM NO.	ISO'S	H&S	ITEM NO.	ISO'S	H&S	ITEM NO.	ISO'S	H&S
194	1-4311	--	226	1-4502	H4	256	1-4504	(H2)
195		H3	227		H5	257		(H3)
196		--	228		H6	258		(H4)
197		H5	229		(H7)	259		(H5)
198		(H6)	229A		H8	260		(H6)
199		H7	229B		H9	261		(H7)
200		H8	229C		H10	262		(H8)
201		--	230	1-4503	(H1)	263		(H9)
202		H9	231		(H2)	264		(H10)
203		H10	232		(H3)	265		(H11)
204		H11	233		(H4)	266		(H12)
205		H12	234		(H5)	267		(H13)
206		(H13)	235		H6	268		(H14)
207		(H14)	236		(H7)	269		(H15)
208		--	237		(H8)	270		(H16)
209		H15	238		(H9)	271		(H17)
210		H16	239		(H10)	271A		H18
210A		H17	240		H11	272	1-4505	(H1)
210B		H18	241		(H12)	273		(H2)
211	1-4500	H1	242		(H13)	274		(H3)
212		(H2)	243		(H14)	274A		H4
213		H3	244		(H15)	274B		H5
214		H4	245		(H16)	275	1-4506	--
215		(H5)	246		(H17)	276		(H2)
216		H6	247		(H18)	277		(H3)
217		H7	248		(H19)	278		(H4)
218		H8	249		--	279	1-4600	H1
219		H9	250		(H21)	280		H2
220	1-4501	(H1)	251		(H22)	281		H3
221		(H2)	252		(H23)	282		H4
222		(H3)	253		(H24)	283	1-4601	(H1)
223	1-4502	(H1)	254		H25	284		H2
224		H2	254A		H26	285		H3
225		H3	255	1-4504	(H1)	286		H4

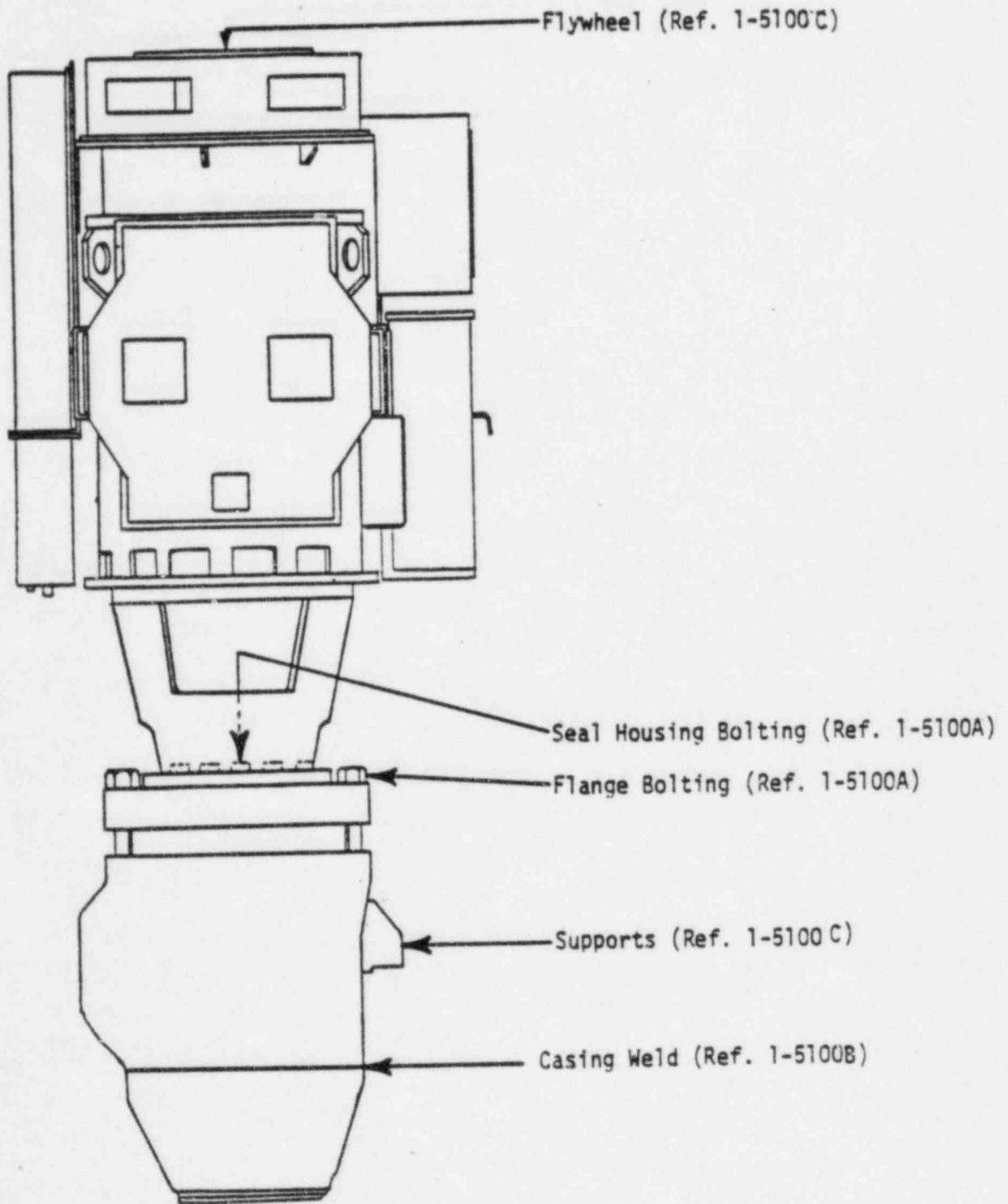
HANGERS AND SUPPORTS

ITEM NO.	ISO'S	H&S	ITEM NO.	ISO'S	H&S	ITEM NO.	ISO'S	H&S
287	1-4601	H5	318	1-4602	(H11)			
288		H6	319		H12			
289		--	320		--			
290		(H7)	321		H13			
291		H8	322		H14			
292		H9	323		H15			
293		H10	324		H16			
294		H11	325		H17			
295		--	326		(H18)			
296		(H12)	527	1-4304	H-9			
297		H13	328		H-10			
298		H14						
299		H15						
300		(H16)						
301		H17						
302		H18						
303		H19						
304		H20						
305		H21						
306		(H22)						
307		(H23)						
307A		H24						
307B		H25						
307C		H26						
308	1-4602	H1						
309		H2						
310		H3						
311		(H4)						
312		H5						
313		H6						
314		(H7)						
315		H8						
316		H9						
317		H10						

ILLUSTRATIVE ONLY

DLW-1-5100

RC. PUMP



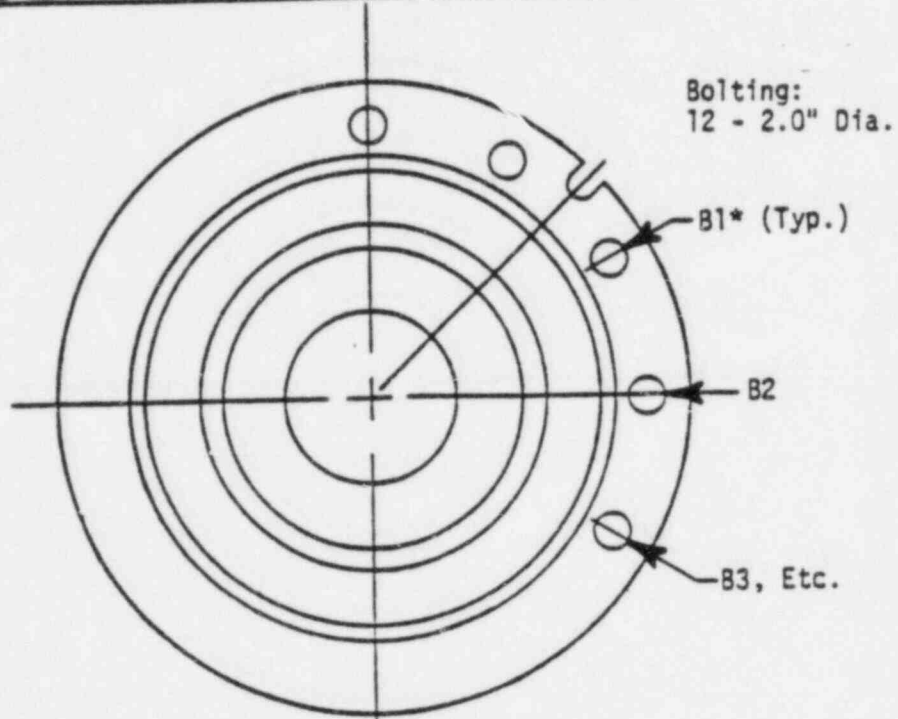
345

TYPP-1

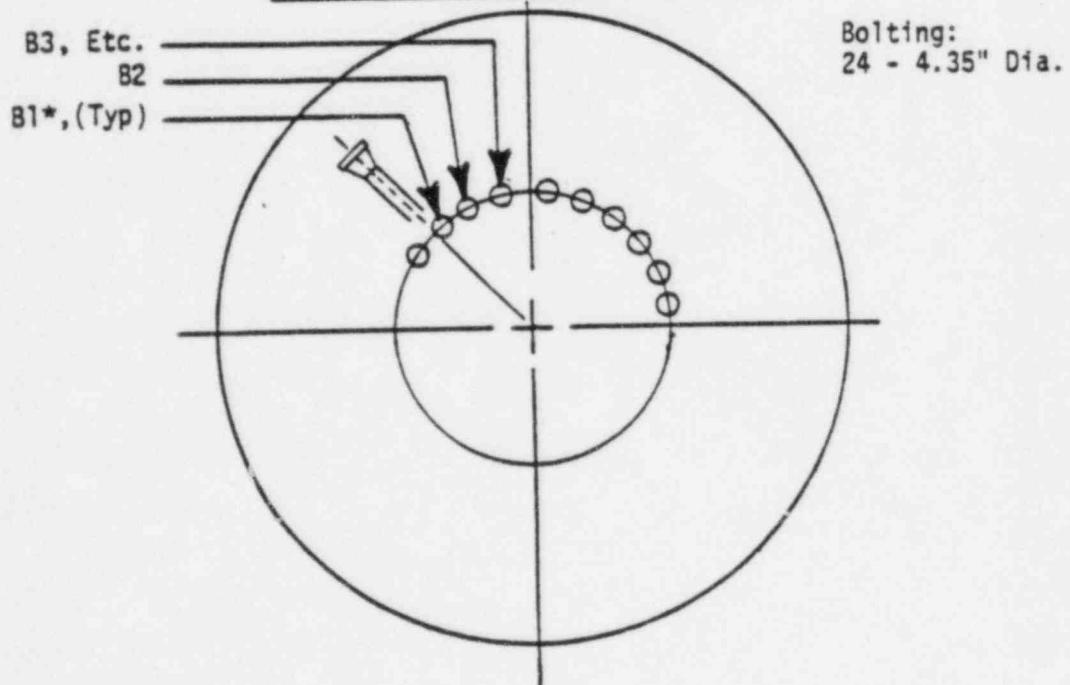
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Rev. 1

R.C. PUMP BOLTING
SEAL HOUSING BOLTING

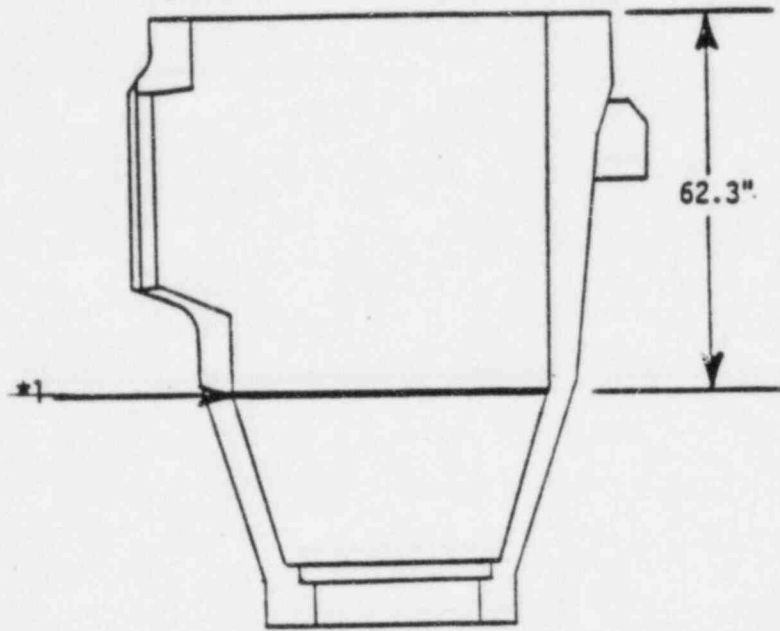


FLANGE BOLTING



* Number is preceded by (1-), (2-) or (3-) as applicable.

PUMP CASING WELD DLW-I-5100B



* Number is preceded by (1-), (2-) or (3-) as applicable.

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TYPP-1

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Rev. 1

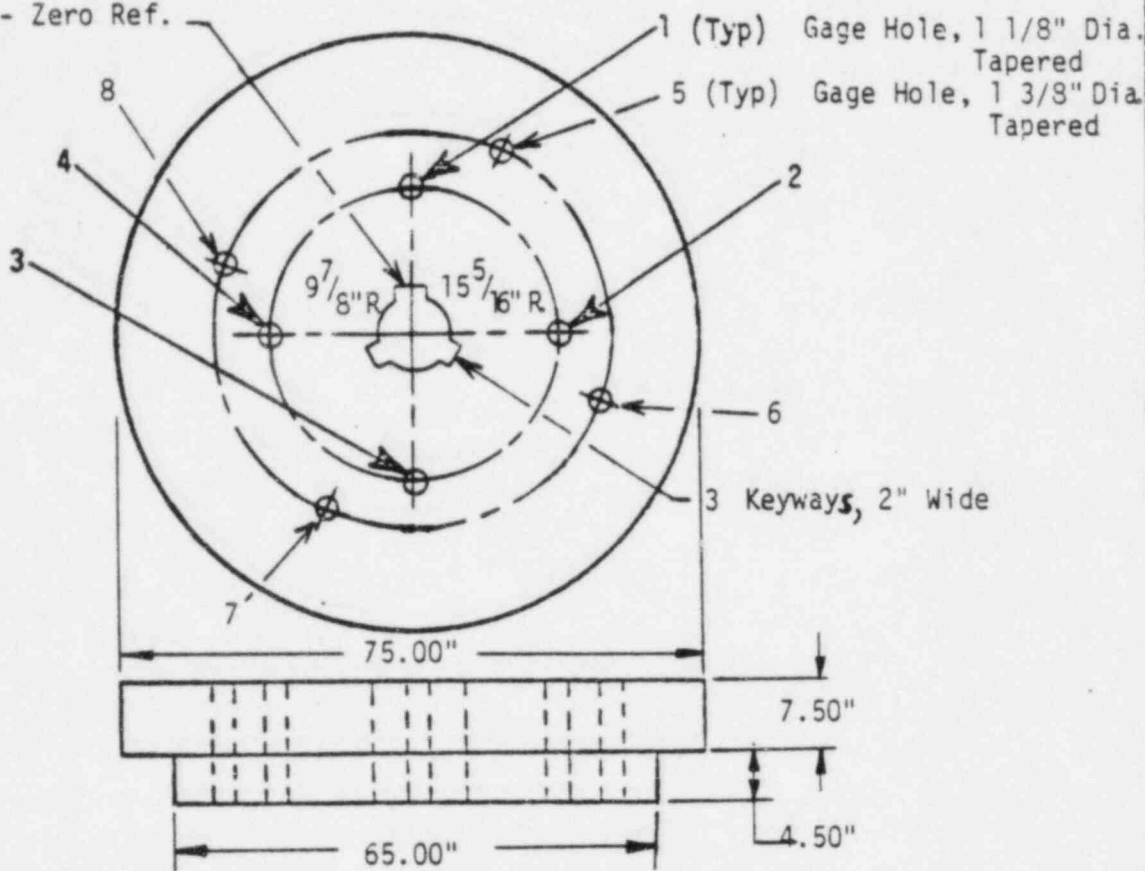
9/9/81

ILLUSTRATIVE ONLY

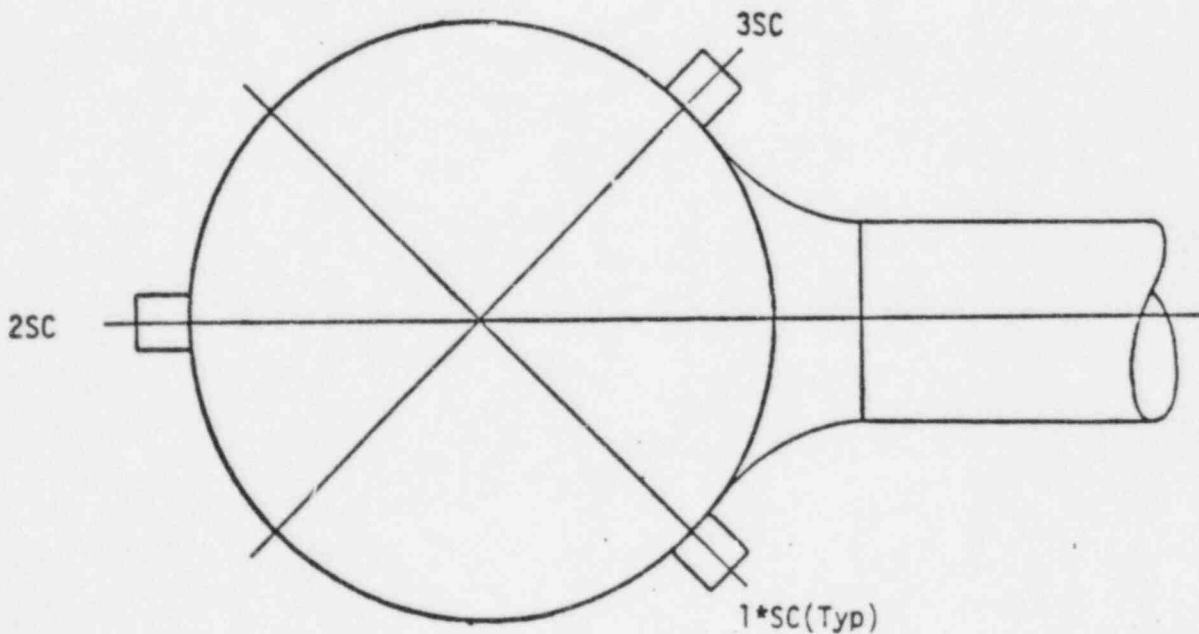
DLW-1-5100C

FLYWHEEL

"Main Keyway" - Zero Ref.

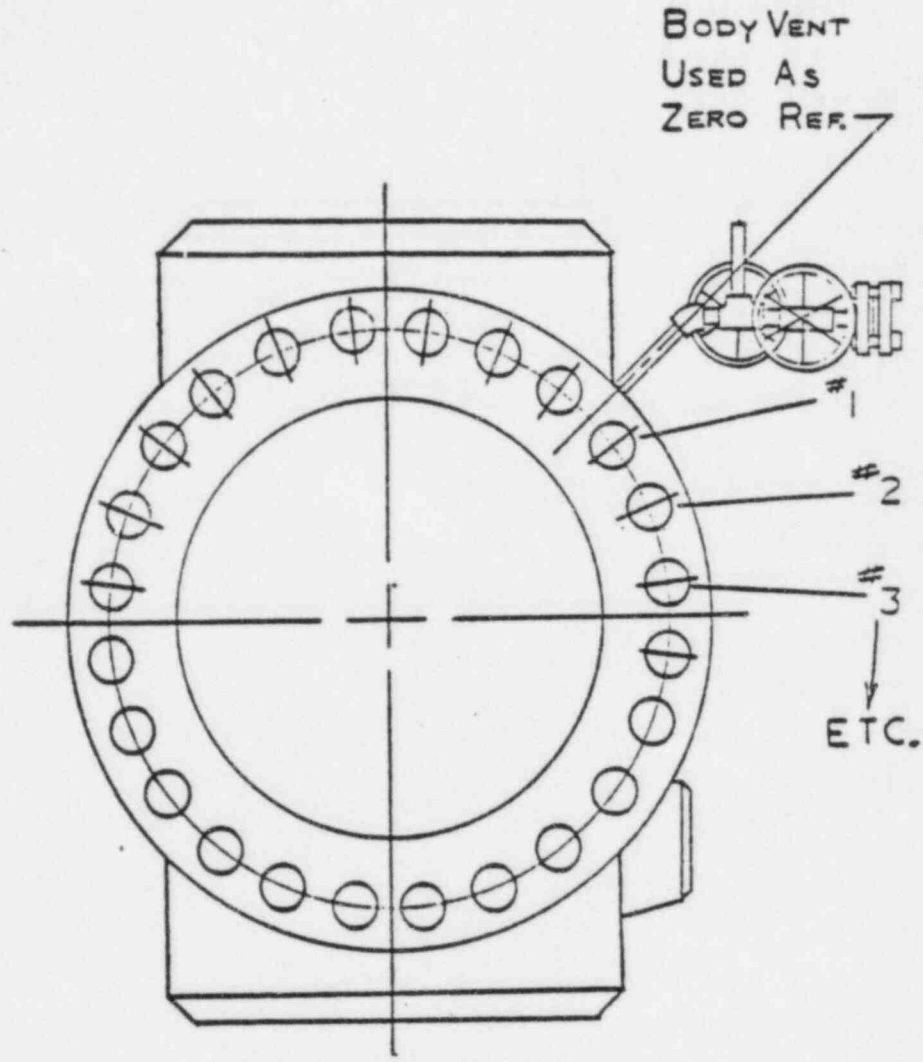


R.C. PUMP SUPPORTS



* Number is preceded by (1-), (2-) Or (3-) as applicable.

LOOP STOP VALVE DLW-1-6100



Bolting: 24 - 2.8" Dia.

ITEM NO.	LOOP	VALVE	BOLTS/LIGS.*
1	1	590	1-1 to 1-24
2		591	1-25 to 1-48
3	2	592	2-1 to 2-24
4		593	2-25 to 2-48
5	3	594	3-1 to 3-24
6		595	3-25 to 3-48

* Number is preceded by 'B' (bolts) or 'Lig' (Ligaments) as applicable.

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DLW-1-6200

VALVE BODIES

<u>ISO</u>	<u>ITEM NO.</u>	<u>VALVE NO.</u>	<u>VENDOR</u>	<u>SIZE</u>
1-4101	1	RH-700	Copes Vulcan	14"
	2	RH-701		14"
1-4102	3	SI-48	Darling	12"
	4	SI-51		12"
1-4103	5	585	Edward	8"
1-4104	6	SI-12	Velan	6"
	7	SI-23	Velan	6"
1-4105	8	SI-15	Velan	6"
	9	SI-20		6"
1-4201	10	SI-49	Darling	12"
	11	SI-52		12"
	12	720A		10"
1-4202	13	586	Edward	8"
1-4203	14	SI-11	Velan	6"
	15	SI-24	Velan	6"
1-4204	16	SI-16	Velan	6"
	17	SI-21		6"
1-4301	18	SI-50	Darling	12"
	19	SI-53		12"
	20	720-B		10"
1-4302	21	587	Edward	8"
1-4303	22	SI-10	Velan	6"
	23	SI-25		6"
1-4304	24	SI-17	Velan	6"
	25	SI-22		6"
1-4501	26	RC-551A	Target Roc.	6"
	27	RC-551B		6"
	28	RC-551C		6"

DLW-1-6300

VALVE BONNET BOLTING

<u>ISO</u>	<u>ITEM NO.</u>	<u>VALVE NO.</u>	<u>NUMBER OF BOLTS</u>
1-4101	1	RH-700	16
	2	RH-701	16
1-4102	3	SI-48	16
	4	SI-51	16
1-4103	5	585	4
1-4104	6	SI-12	12
	7	SI-23	12
1-4105	8	SI-15	12
	9	SI-20	12
1-4106	10	RC-23	12
1-4201	11	SI-49	16
	12	SI-52	16
	13	720A	16
1-4202	14	586	4
1-4203	15	SI-11	12
	16	SI-24	12
1-4204	17	SI-16	12
	18	SI-21	12
1-4205	19	CH-32	16
	20	CH-310	16
1-4206	21	RC-24	12
1-4301	22	SI-50	16
	23	SI-53	16
	24	720-B	16
1-4302	25	587	4
1-4303	26	SI-10	12
	27	SI-25	12
1-4304	28	SI-17	12
	29	SI-22	12
1-4305	30	RC-25	12
1-4501	31	RC-551A	8
	32	RC-551B	8
	33	RC-551C	8

9/9/81

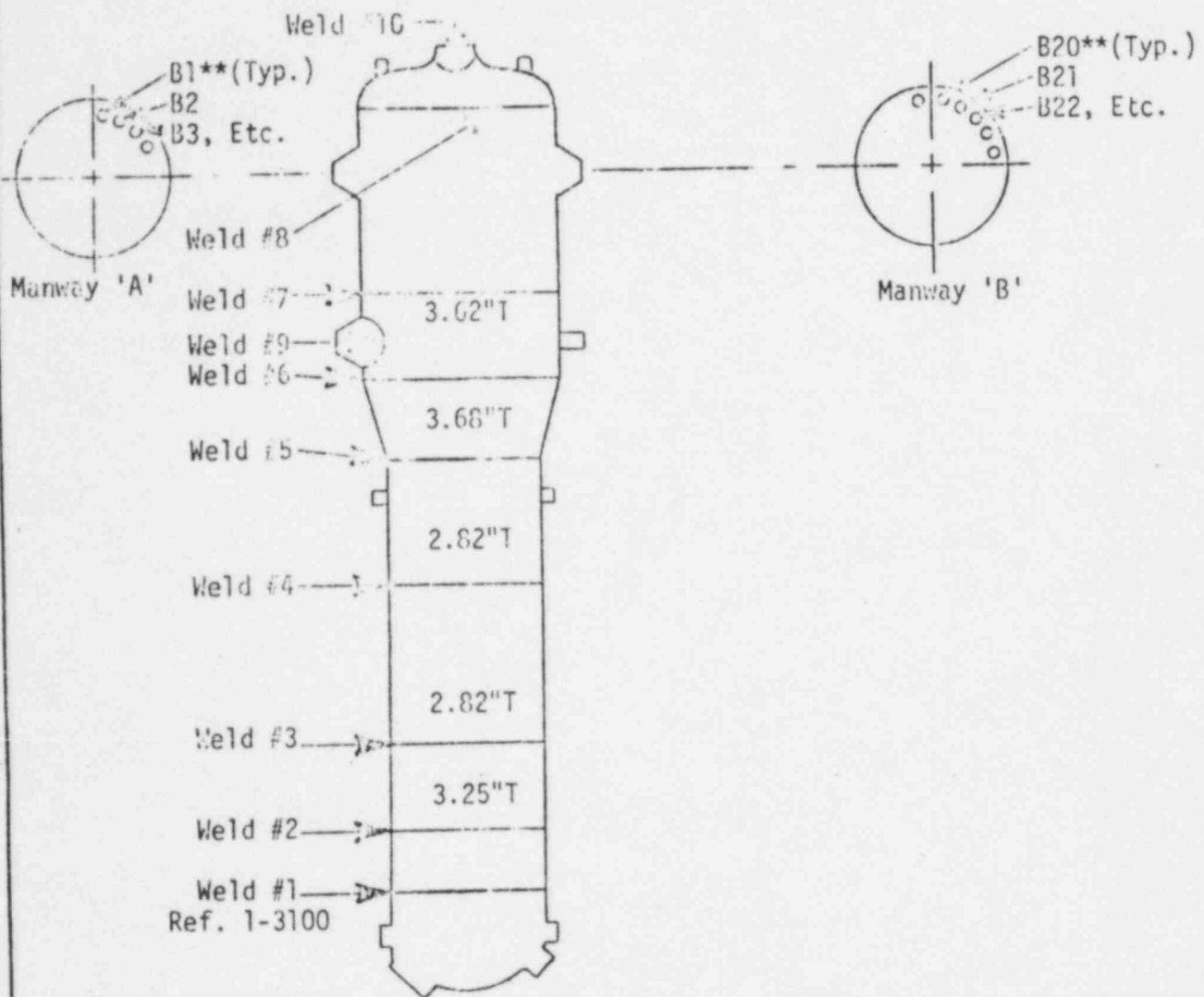
DLW-1-6300

VALVE BONNET BOLTING

<u>ISO</u>	<u>ITEM NO.</u>	<u>VALVE NO.</u>	<u>NUMBER OF BOLTS</u>
1-4502	34	535	12
	35	455C	8
	36	536	12
	37	456	8
	38	537	12
	39	455D	8
	1-4503	40	455A
1-4504	41	455B	8
1-4600	42	SI-83	12
	43	SI-84	12
1-6100	44	590	24
	45	591	24
	46	592	24
	47	593	24
	48	594	24
	49	595	24

352

STEAM GENERATOR

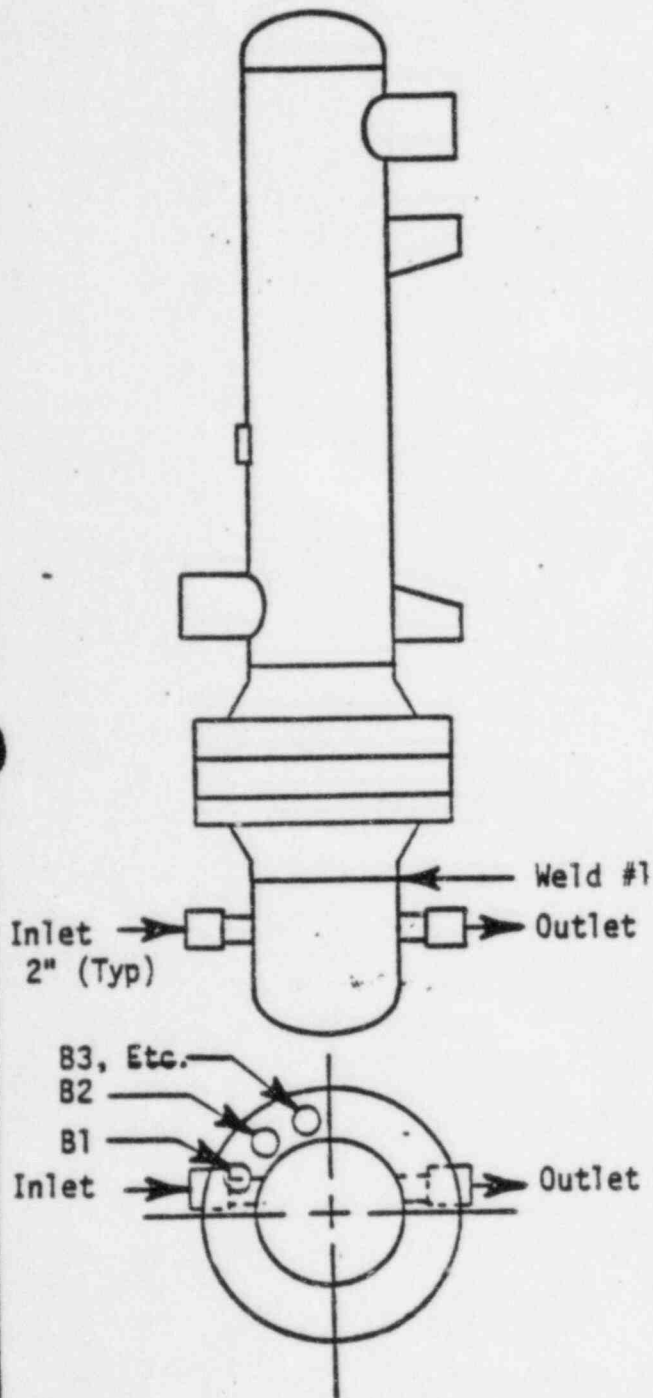


S.G.	WELDS	ZERO REF.*	MANWAY	BOLTS/LIGS.**
1	1-2		A	1-1 to 1-20
	1-3		B	1-21 to 1-40
2	2-5		A	2-1 to 2-20
	2-6		B	2-21 to 2-40
	2-9			
3	3-8		A	3-1 to 3-20
	3-10		B	3-21 to 3-40

* Located in field.
 ** Number is preceded by 'B' (Bolts) or 'Lig' (Ligaments) as applicable.
 Welds 4 & 7 not a structural discontinuity.

EXCESS LETDOWN HEAT EXCHANGER

Material: .750" T SA-240 TP316
Dia.: 9.5" O.D.
Circ.: 29.85"
Bolting: 12 - 1.625" Dia.



Zero reference centerline of Inlet Nozzle

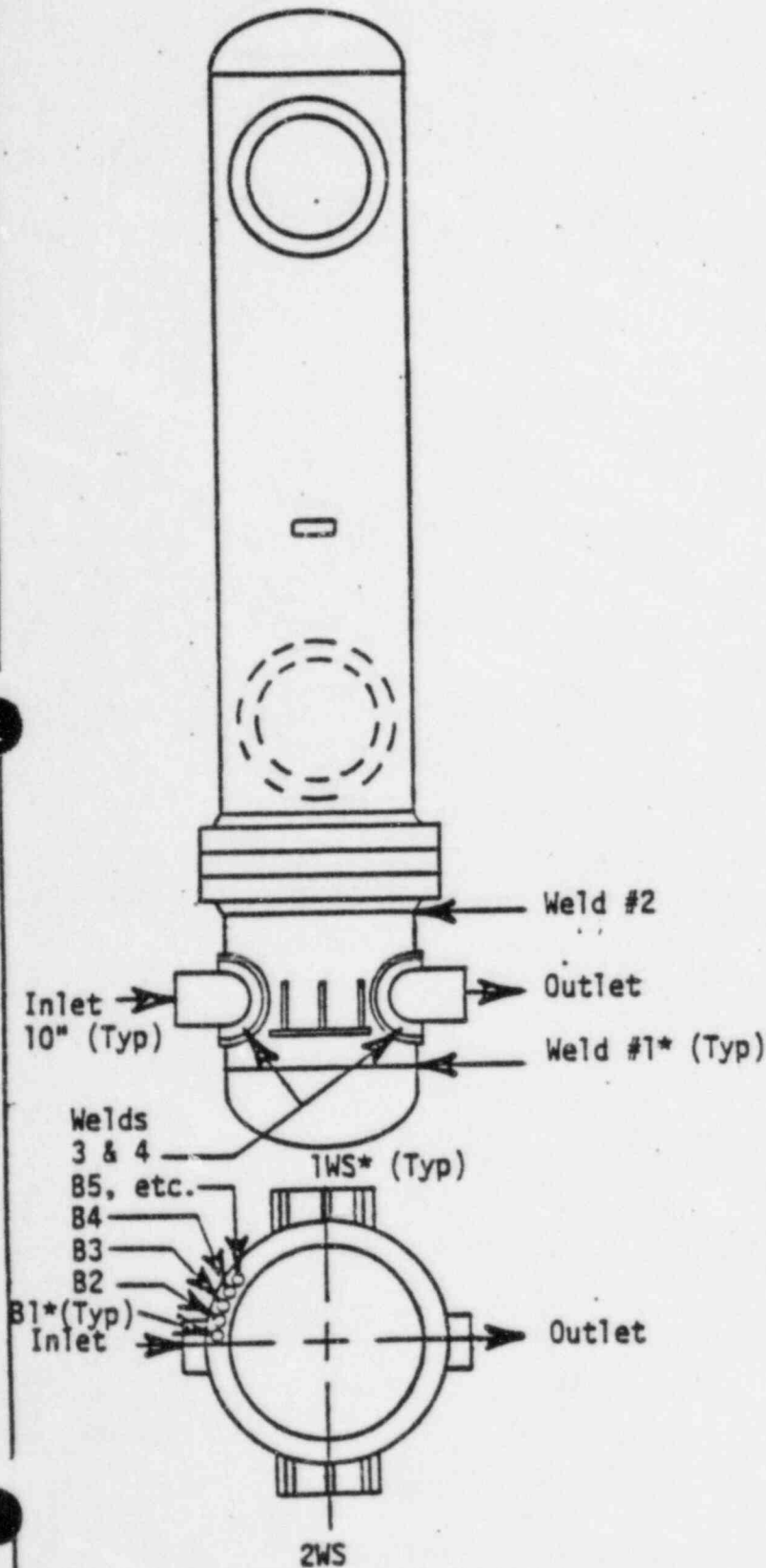
Rev. T 12/11/80
Deleted Weld #1
Changed Weld #2 to #1

RESIDUAL HEAT EXCHANGERS

Material: .875" T SA-240 TP 304
 Dia.: 39.75" O.D.
 Circ.: 124.88"
 Bolting: 48 - 1.375" Dia.
 Supports: 2 Integrally Welded

* Number is preceded by (1-) or (2-) as applicable.

Welds 3 & 4 (nozzle to vessel welds) not accessible for examination.

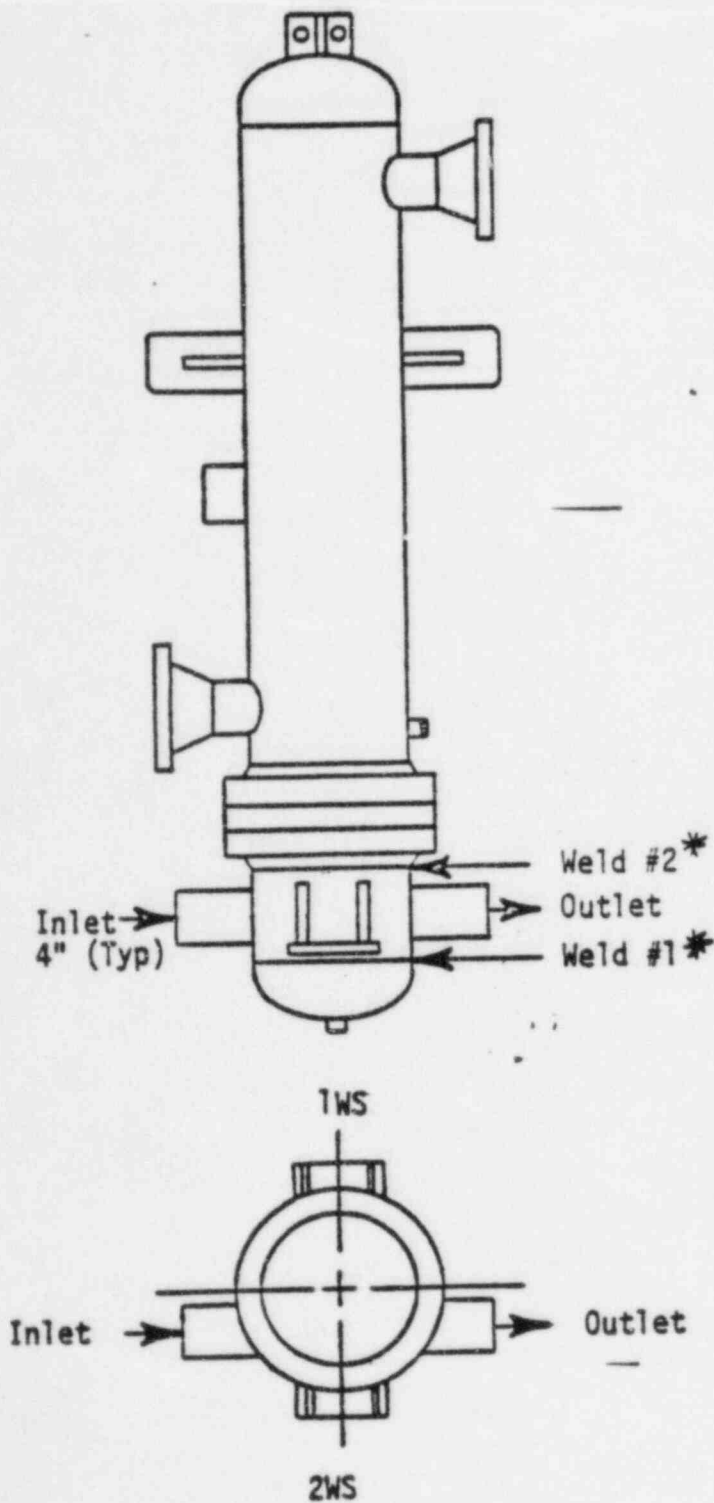


Welds #3 & #4: See AMD 22

Zero reference centerline of Inlet Nozzle

SEAL WATER HEAT EXCHANGER

Material: .1875" T SA-240 TP 304
Dia.: 14.0" O.D.
Circ.: 43.98"
Bolting: 16 - .750" Dia.
Supports: 2 Integrally Welded

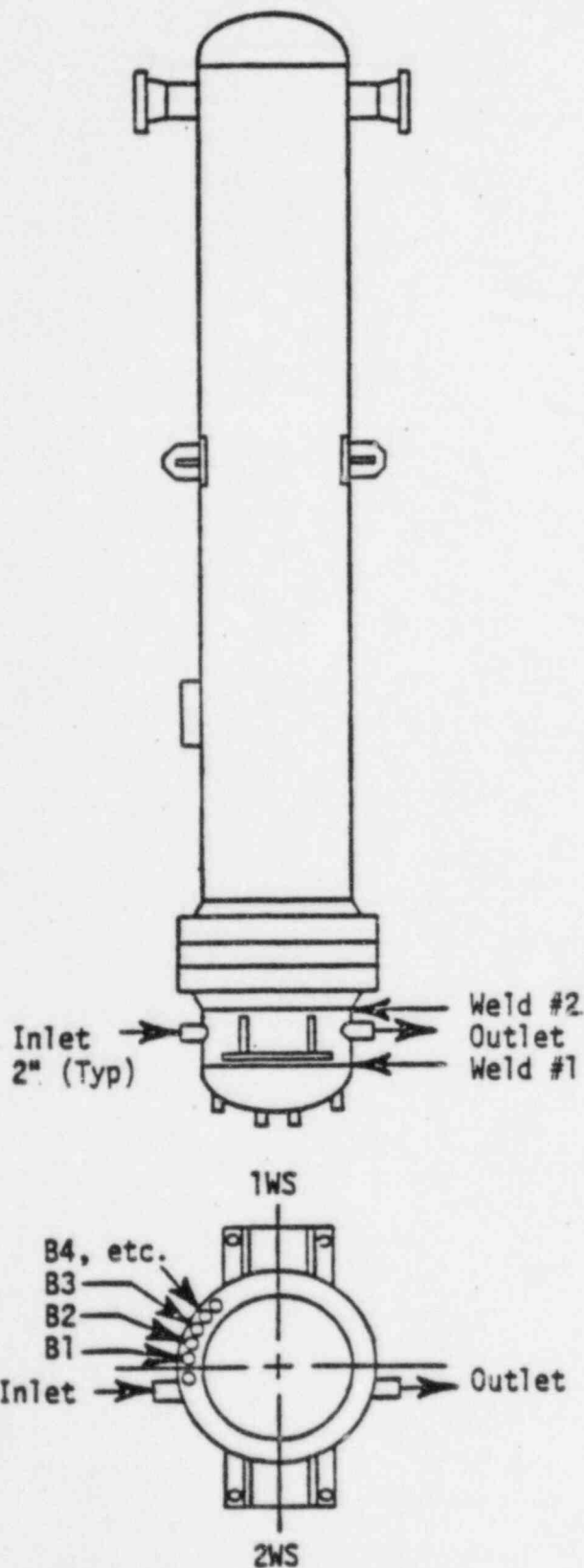


See AMD 22

Zero reference centerline of Inlet Nozzle

NON REGENERATIVE LETDOWN HEAT EXCHANGER

Material: .625" T SA-240 TP 304
Dia.: 27.0" O.D.
Circ.: 84.82"
Bolting: 36 - 1.125" Dia.
Supports: 2 Integrally Welded

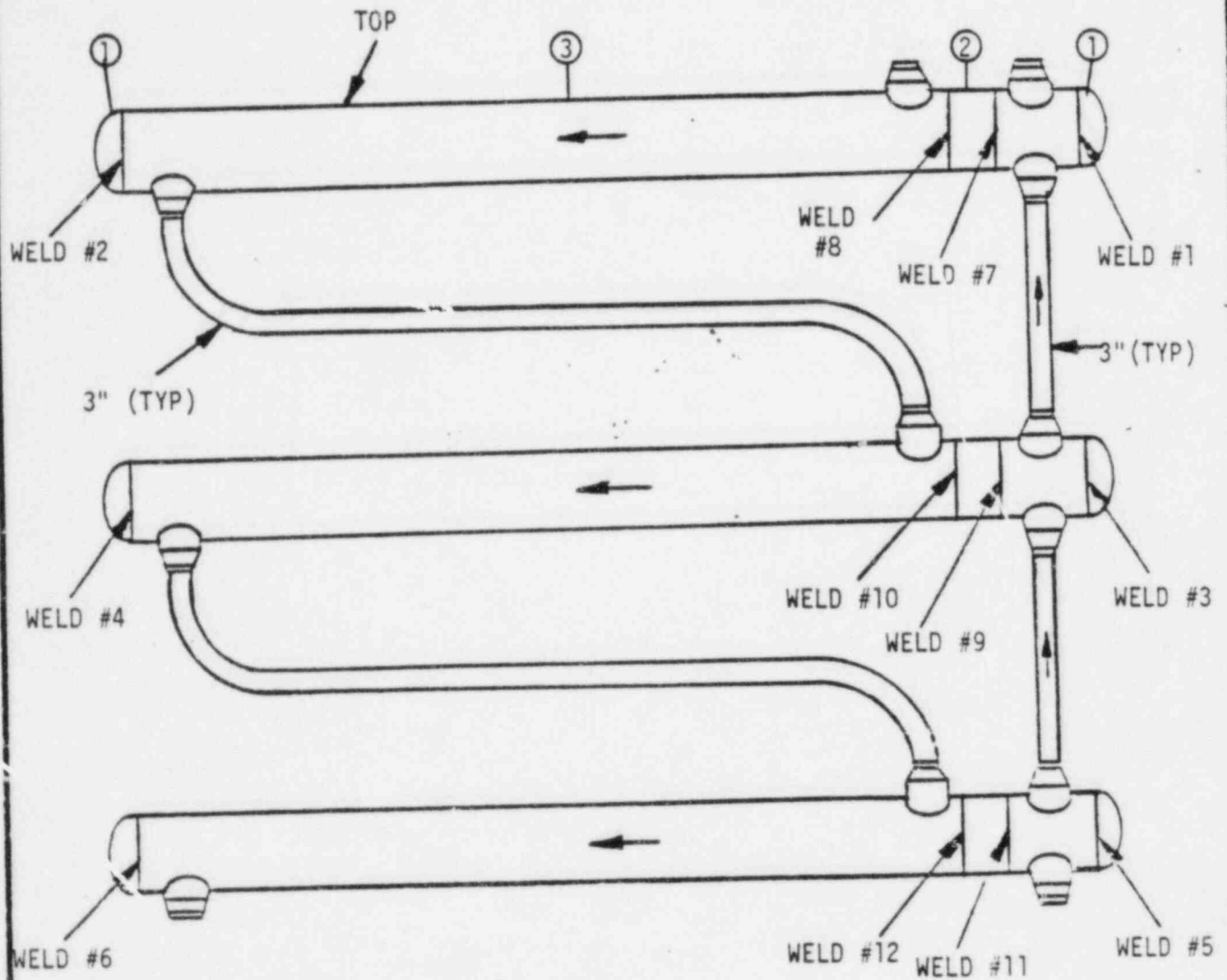


Zero reference centerline of Inlet Nozzle

ILLUSTRATIVE ONLY

DLW-2-1150

REGENERATIVE HEAT EXCHANGER



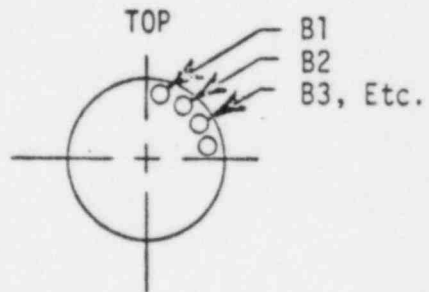
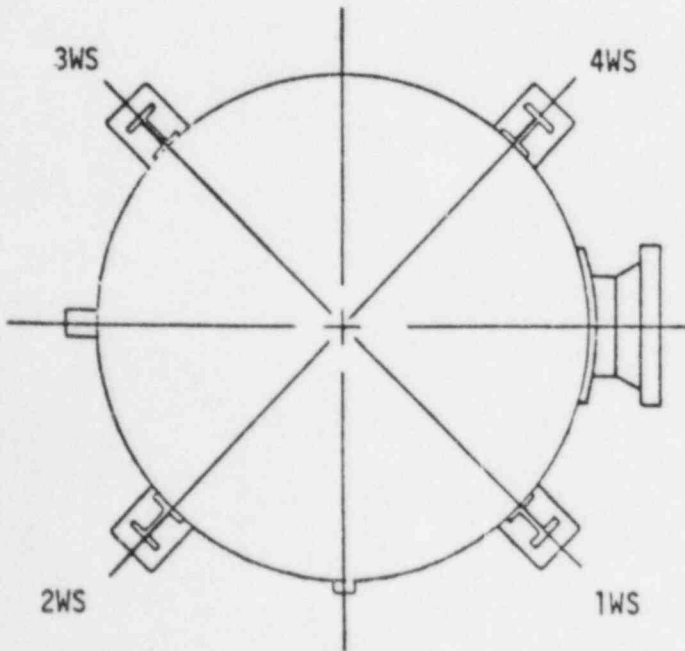
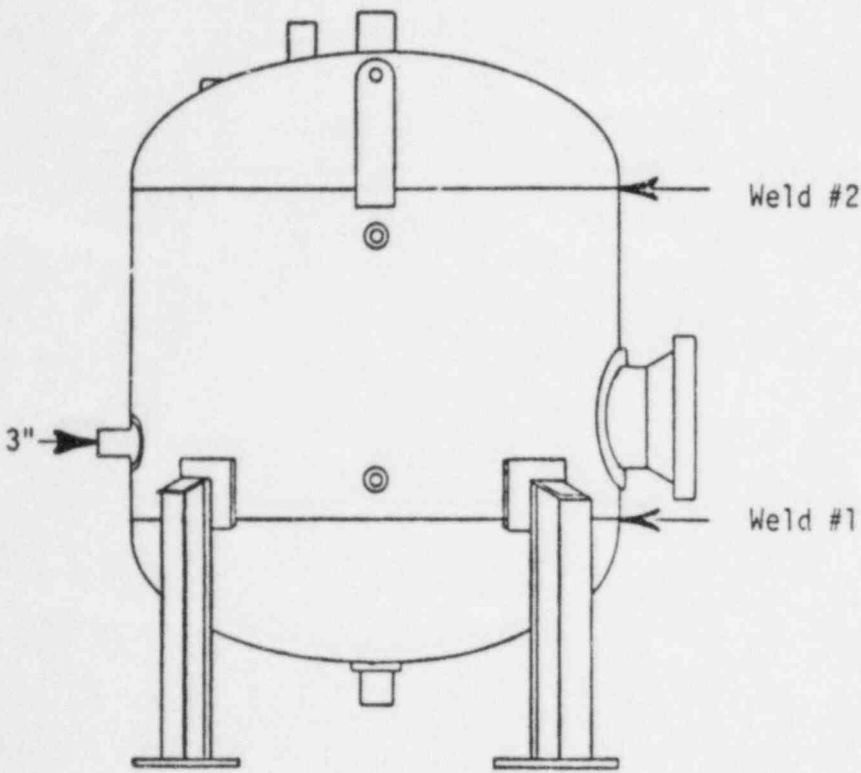
Materials: ① .900" T SA-240 TP 304
 Typ. ② .933" T SA-182 TP 304
 ③ .938" T SA-351-CF8
 Dia.: 9.55" O.D.
 Circ.: 30.0"

Zero reference is top dead centerline of each shell pass

Welds #1-12 : See AMD.22

VOLUME CONTROL TANK

Material: .313" T SA-240 TP 304
 Dia.: 84.0" O.D.
 Circ.: 263.89"
 Bolting: 16 - 1.125" Dia.
 Supports: 4 Integrally Welded

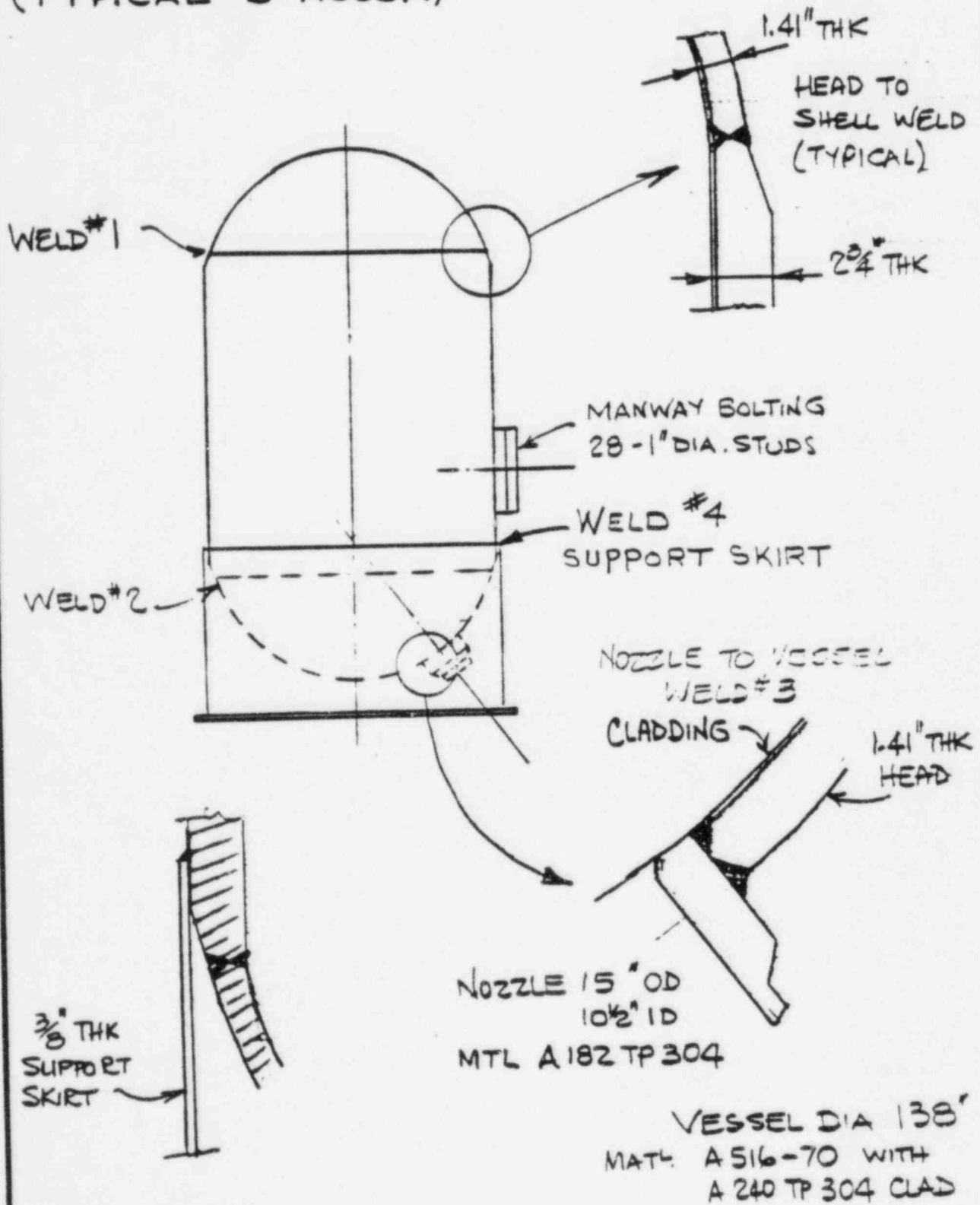


1/8/82

SIS ACCUMULATOR

DLW2-1210

(TYPICAL 3 ACCUM)



ZERO REFERENCE = $\frac{1}{2}$ MANWAY.
CIRC 433"

FORM 4844

BORON INJECTION TANK

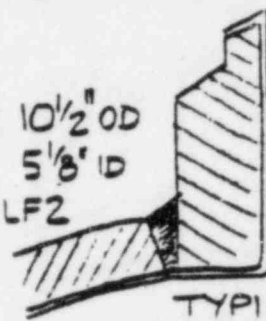
DLW2-1220

Ref. DLW 2-2511

WELD#1

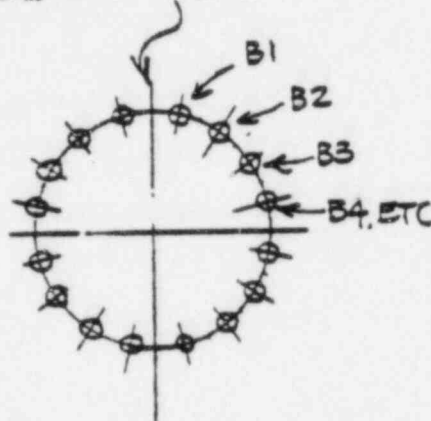
WELD#3

NOZZLE 10 1/2" OD
5 1/8" ID
SA350LF2



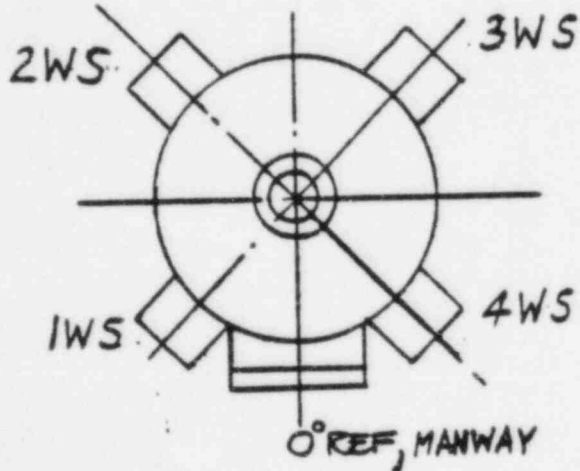
TYPICAL
DETAIL

MANWAY BOLTING
16 - 2 1/2" DIA STUDS



WELD#2

WELD#4

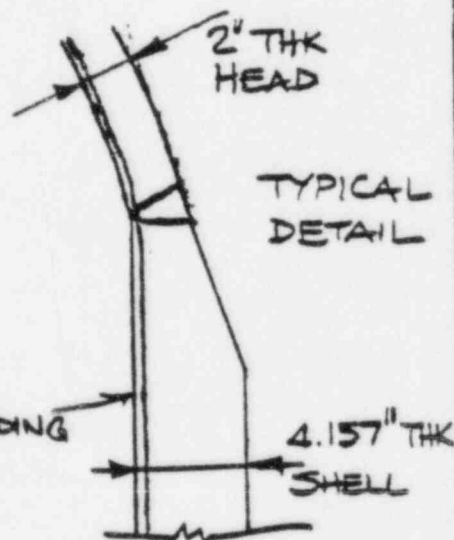


2" THK
HEAD

TYPICAL
DETAIL

CLADDING

4.157" THK
SHELL



VESSEL 48" I.D., HEAD 24 7/8" INSIDE RAD.
MTL: A516-70 WITH A240 TP 304 CLAD
Head AD. Circum. = 168.9"

1/8/82

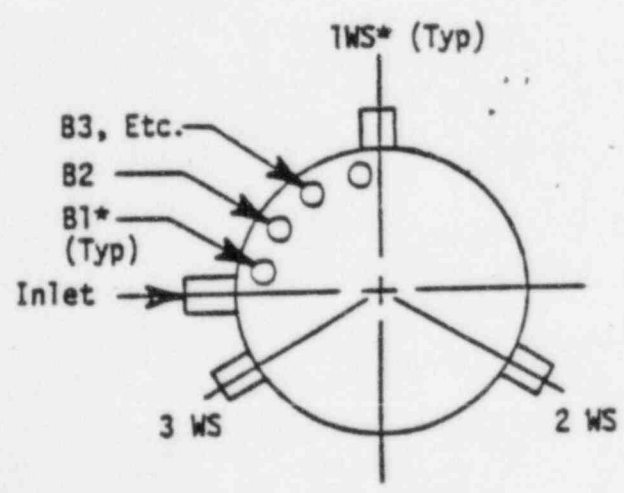
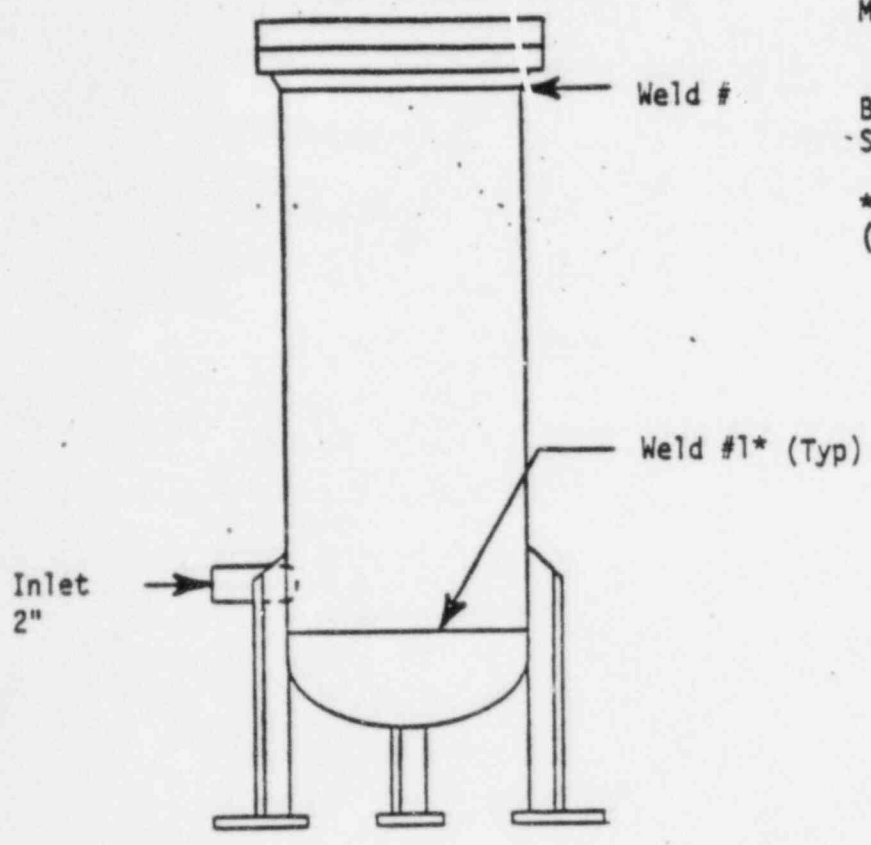
DLW-2-1300

ILLUSTRATIVE ONLY

SEAL WATER INJECTION FILTERS

Material: .875" T TP 304
 Dia.: 10.75" O.D.
 Circ.: 33.77"
 Bolting: 16 - 1.25" Dia.
 Supports: 3 Integrally Welded

* Number is preceded by (1-) or (2-) as applicable.



Welds #1 & #2 : See AMD. 22

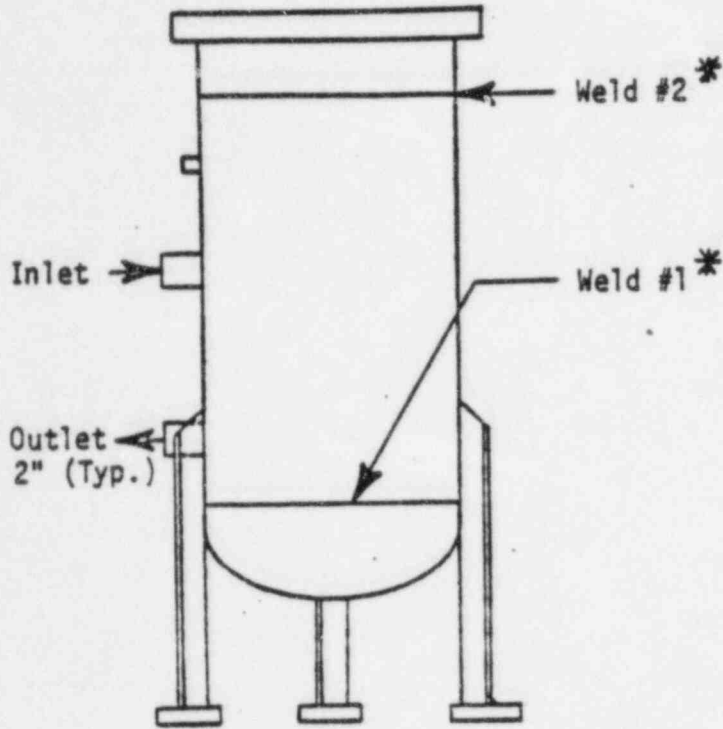
Zero reference centerline of Inlet Nozzle

1/8/82

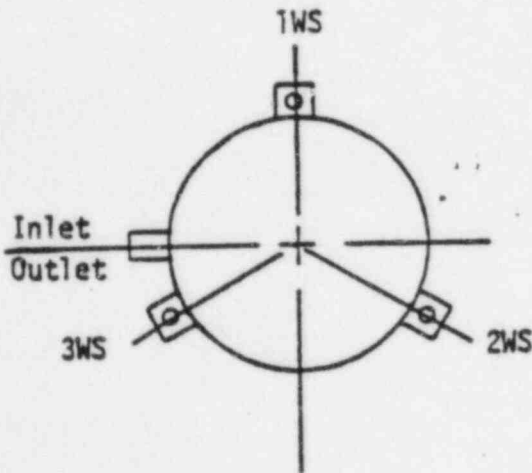
ILLUSTRATIVE ONLY

DLW-2-1310

REACTOR COOLANT FILTER



Material: .165" T TP304
 Dia.: 10.75" O.D.
 Circ.: 33.77"
 Bolting: 6 - .750" Dia.
 Supports: 3 Integrally Welded



*See AMD. 22

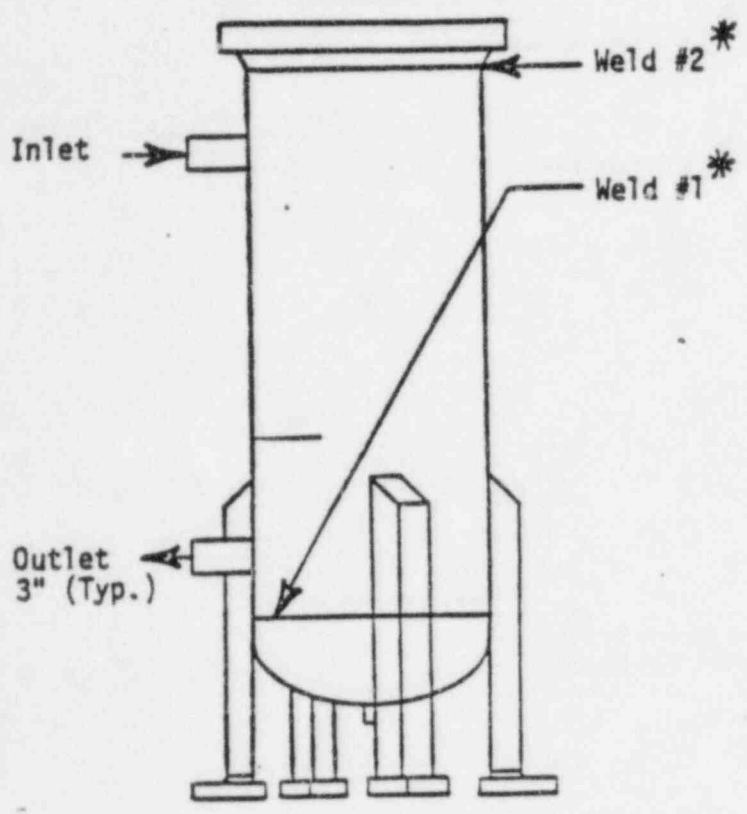
Zero reference centerline of Outlet Nozzle

1/8/82

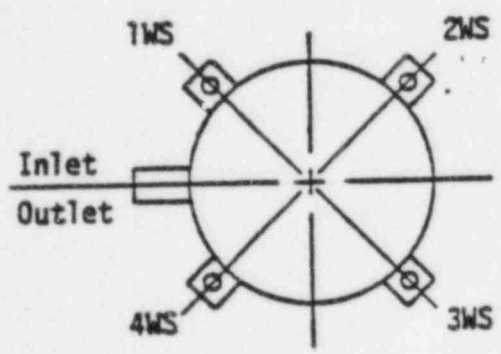
DLW-2-1320

ILLUSTRATIVE ONLY

SEAL WATER RETURN FILTER



Material: .188" T TP 304
 Dia.: 16.0" O.D.
 Circ.: 50.27"
 Bolting: 8 - .750" Dia.
 Supports: 4 Integrally Welded



* See AMD. 22

Zero reference centerline of Outlet Nozzle

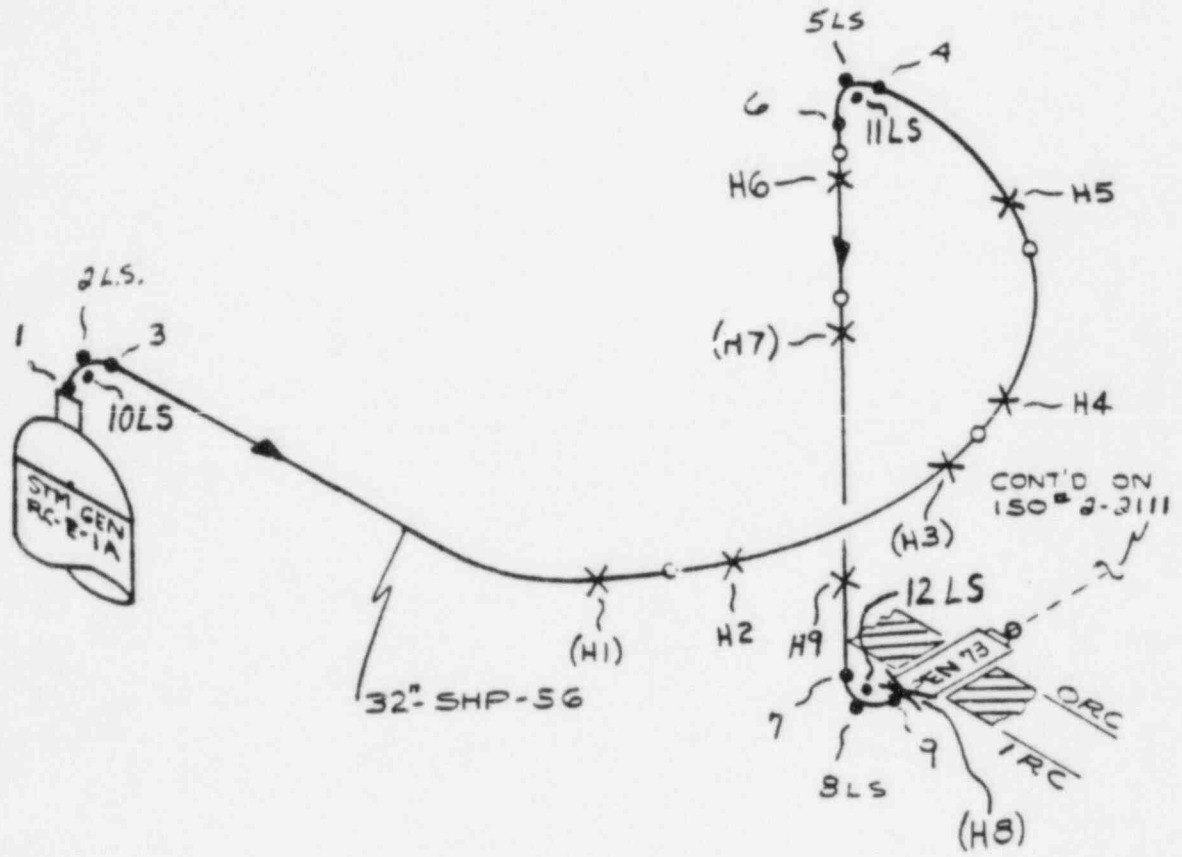
MAIN STEAM

DLW-2-2110

LOOP #1 INSIDE CONT.

REF DWG SWF-1

32" SHP-56 1.000" WALL
MATL. A155 CL I - GR CHS75

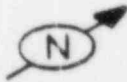
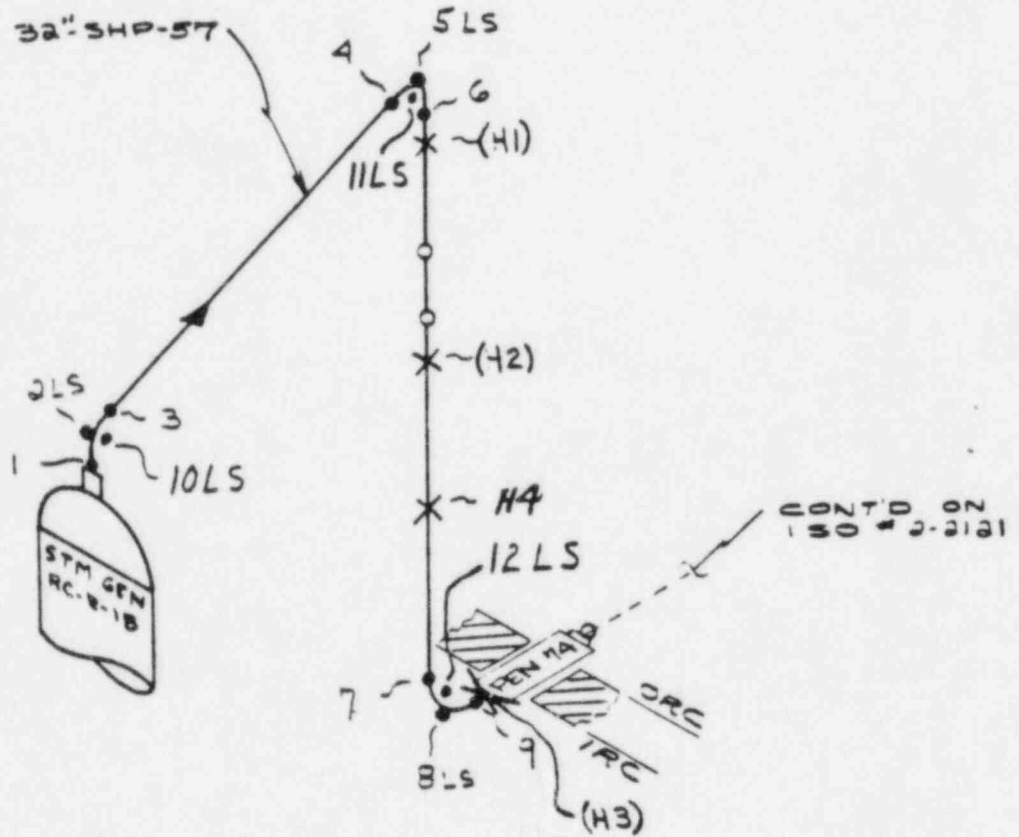


MAIN STEAM

DLW-2-2120

LOOP #2 INSIDE CONT.
32" SHP-57 1.000" WALL
MATL: A155 CLI-GR CMS75

REF DWG SWF-1



MAIN STEAM

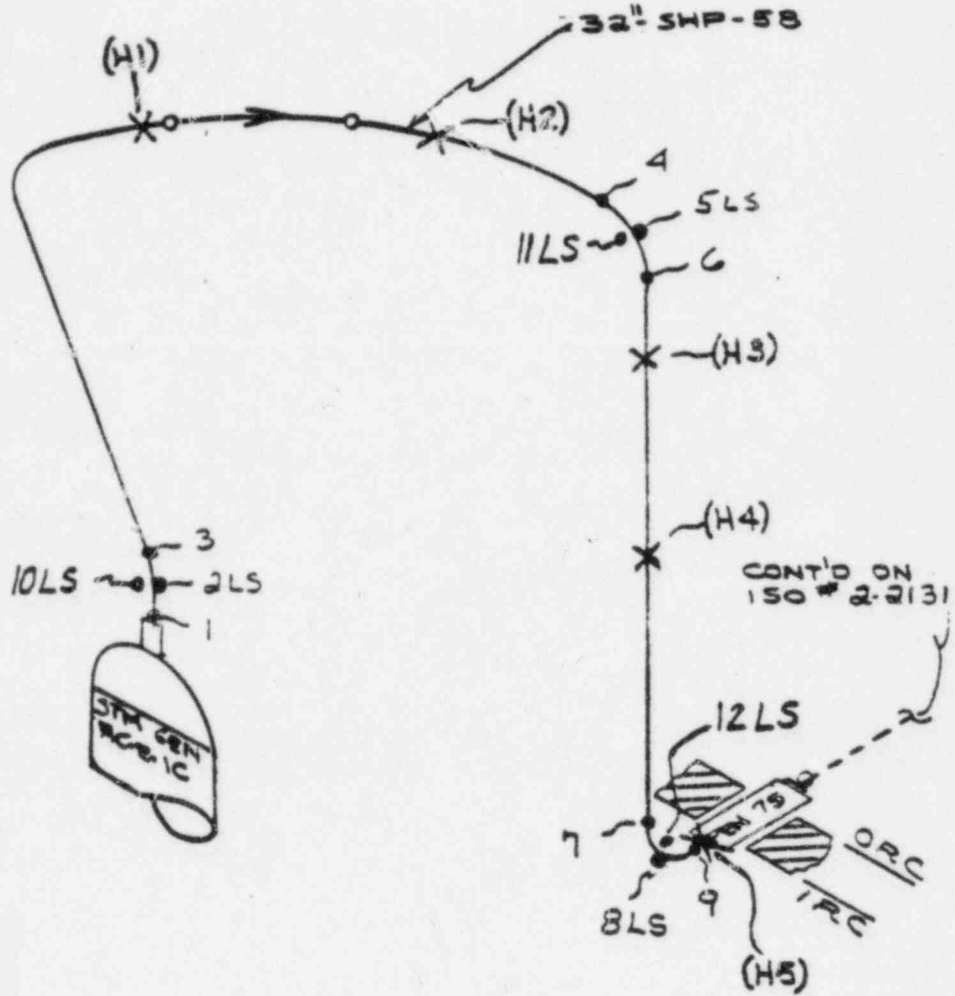
DLW-2-2130

LOOP # 3 INSIDE CONT.

REF DWG SWF-1

32" SHP-58 1.000" WALL

MATL: A-153 CL- CMS 75



Rev.1 12/11/80
Added 10LS, 11LS, 12LS
WS-5



MAIN STEAM

LOOP #3 OUTSIDE CONT.

32" SHP-24 1,000 WALL

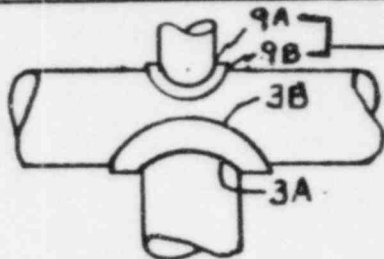
32" SHP-58 " "

MATL: A-182 CL1 EM515

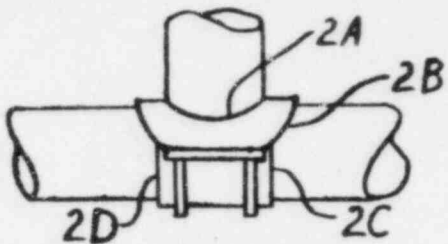
6" SHP-1 THRU 5 SCH 80

MATL: A106 SMLS GRB

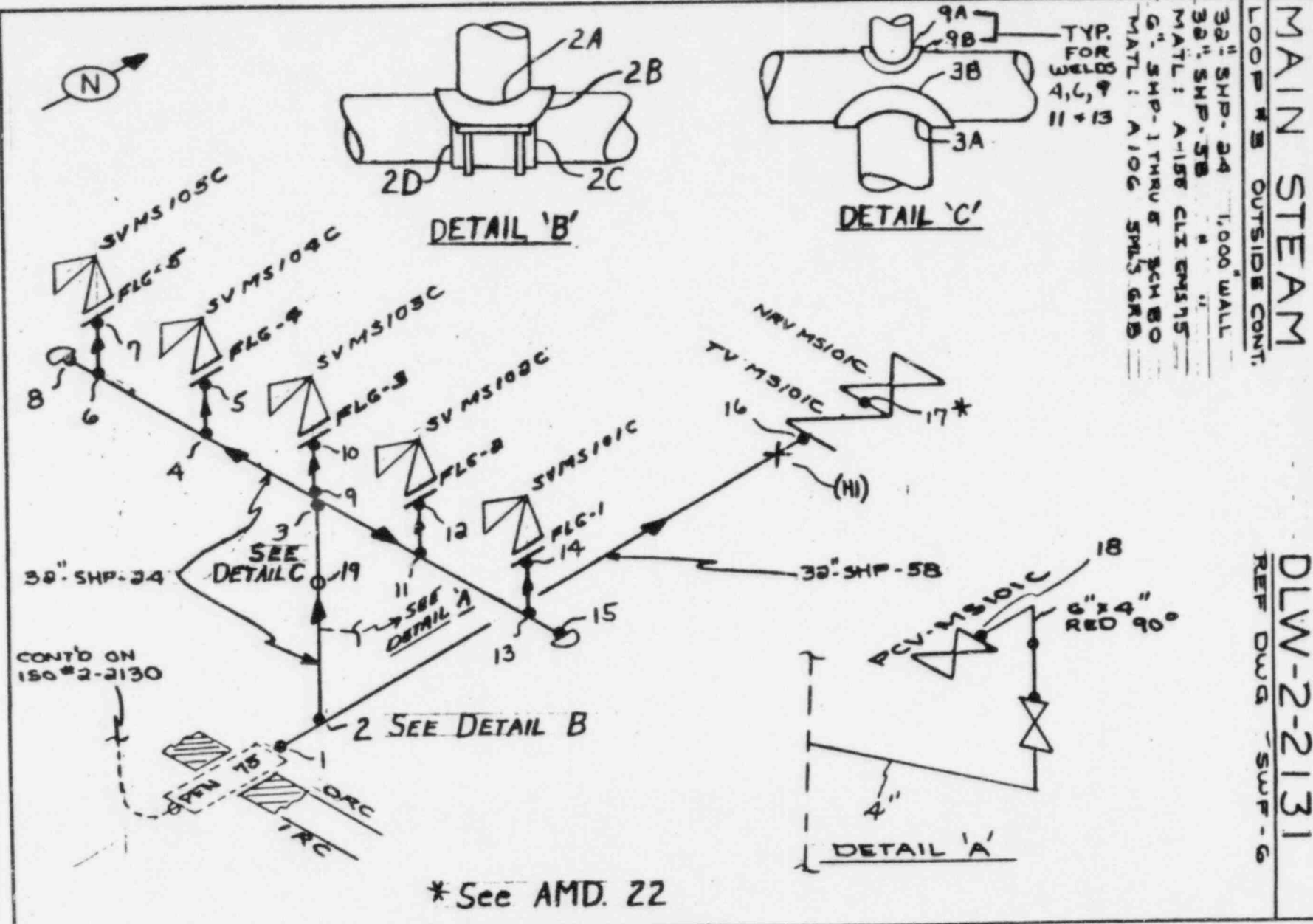
TYP FOR
WELDS
4, 6, 9
11 + 13



DETAIL 'C'



DETAIL 'B'



DLW-2-2131
REF DWG SUP-6

369

TYPP-1

Page V-18

Rev. 2

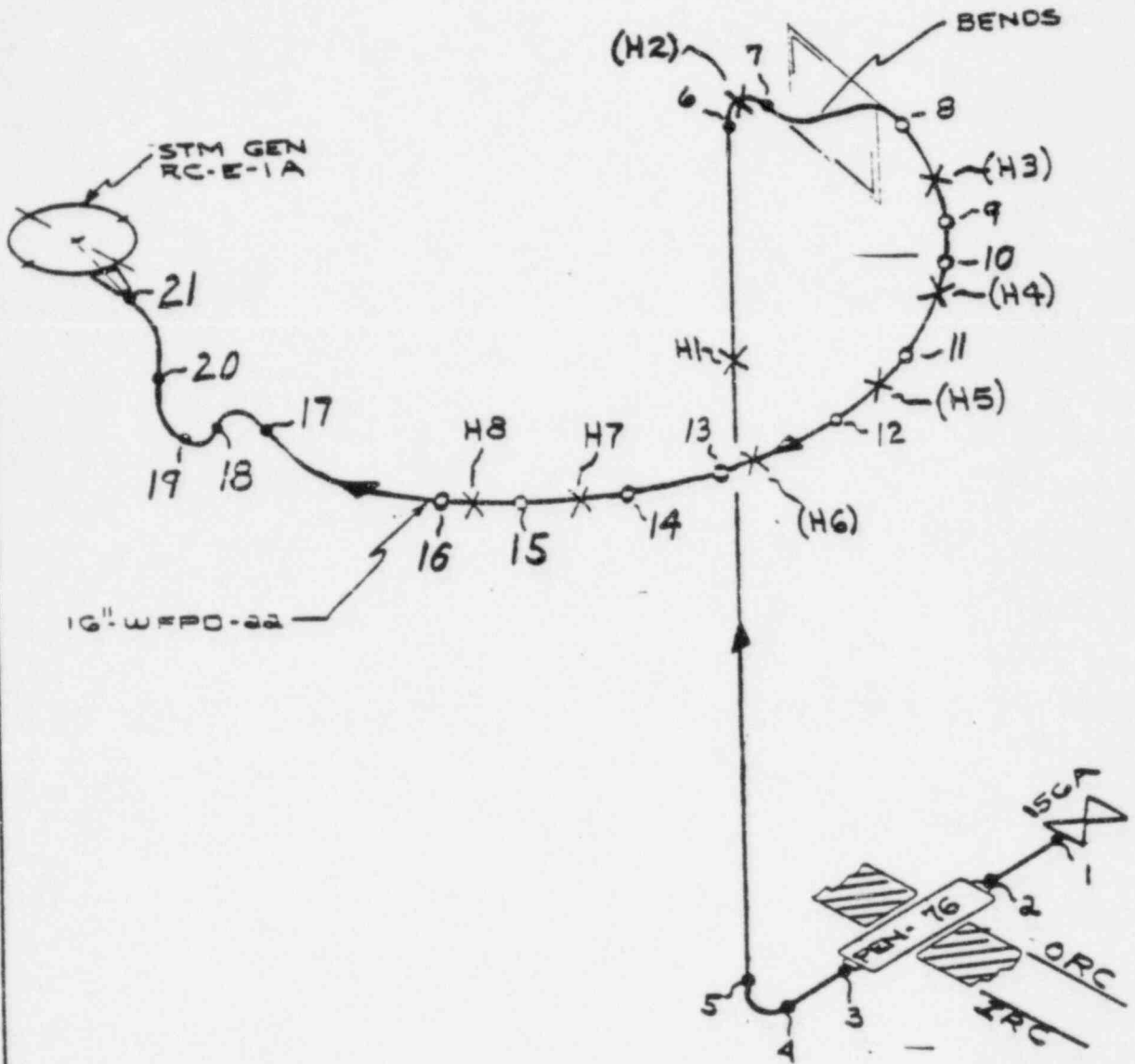
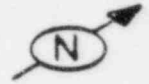
FEEDWATER

DLW-2-2210

LOOP # 1

REF DWG SWF-62

16" WFPO-22 SCH 100
MATL: A106 GRB



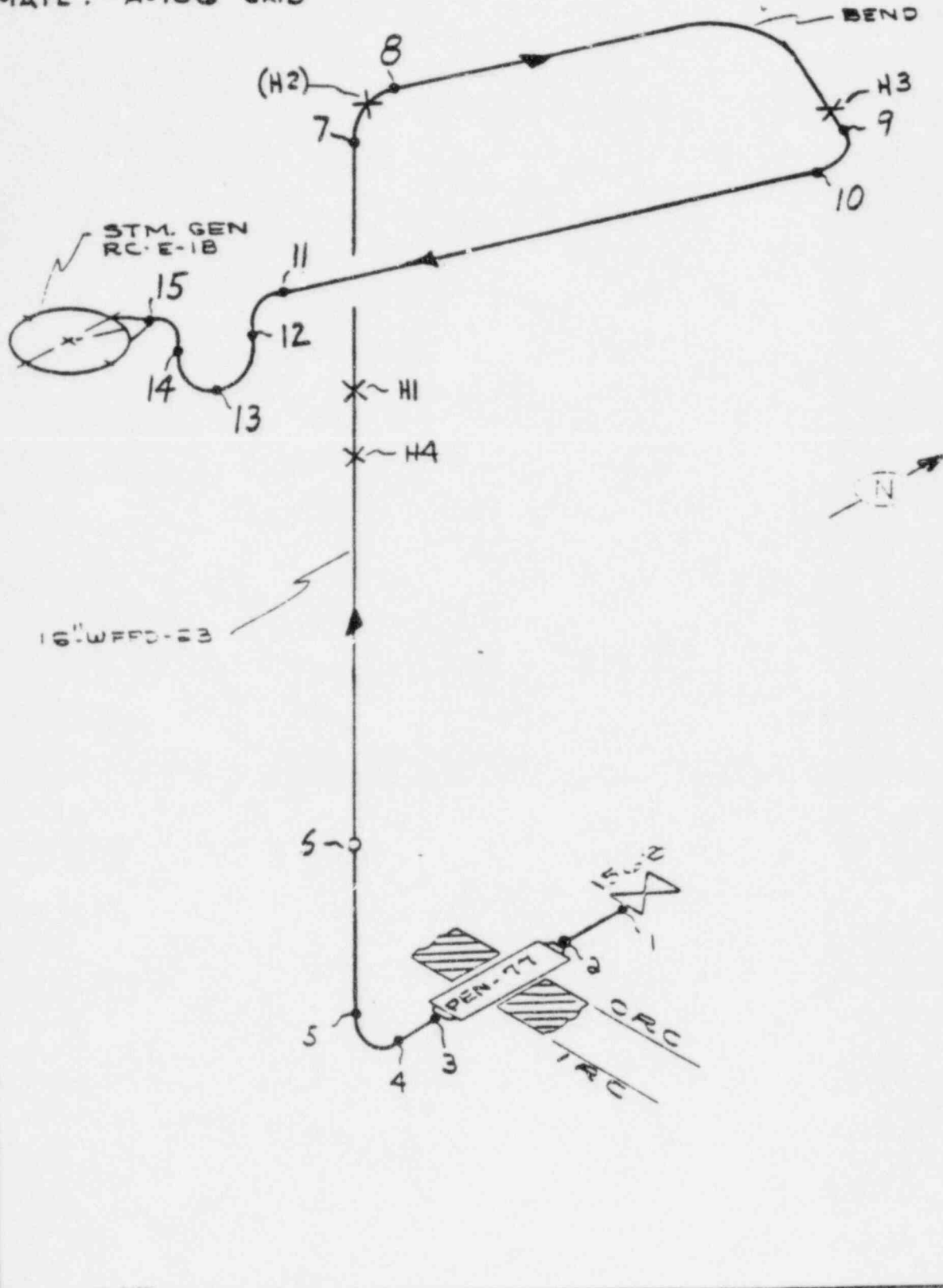
FEEDWATER

DLW-2-2220

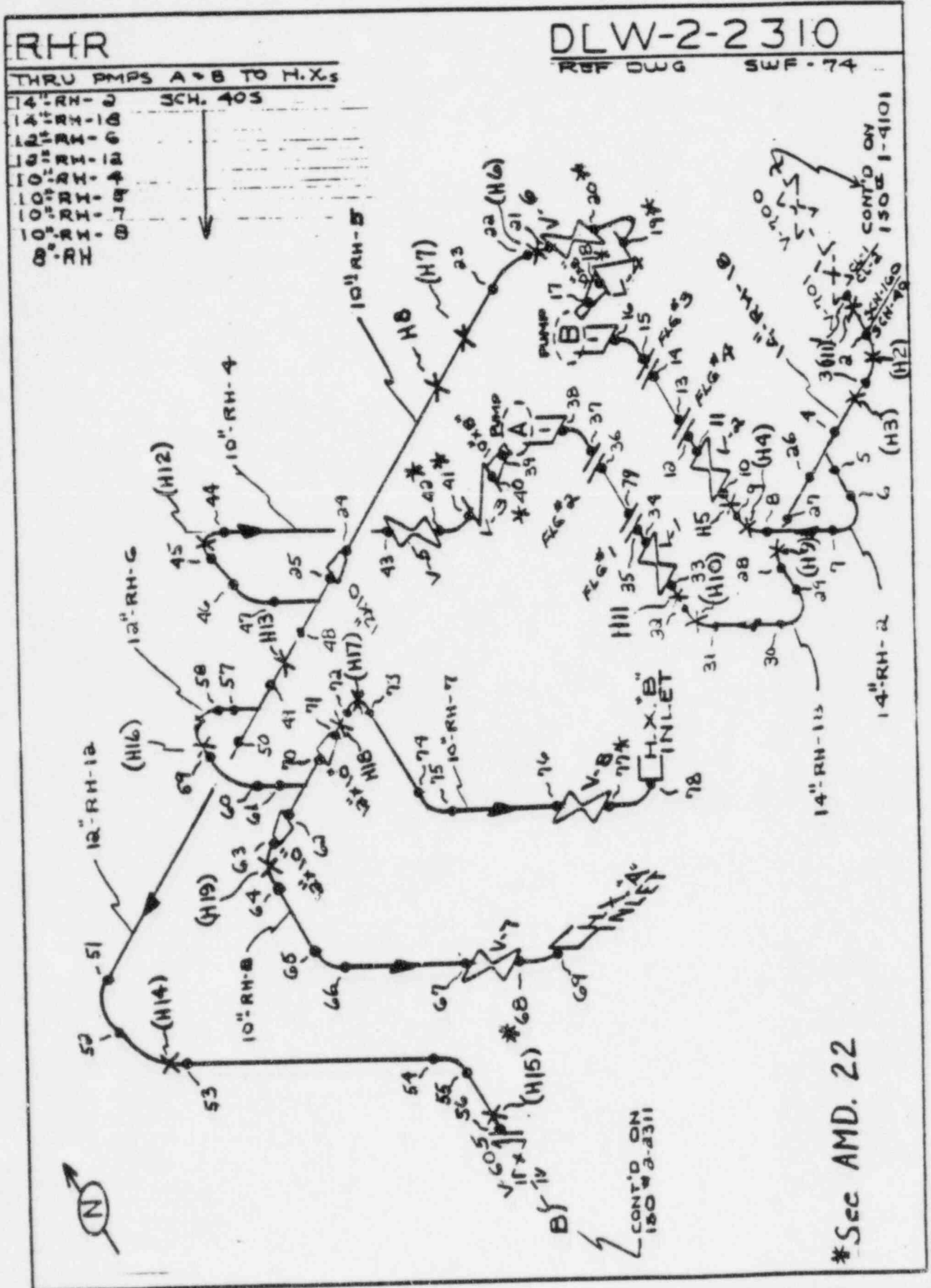
LOOP # 2

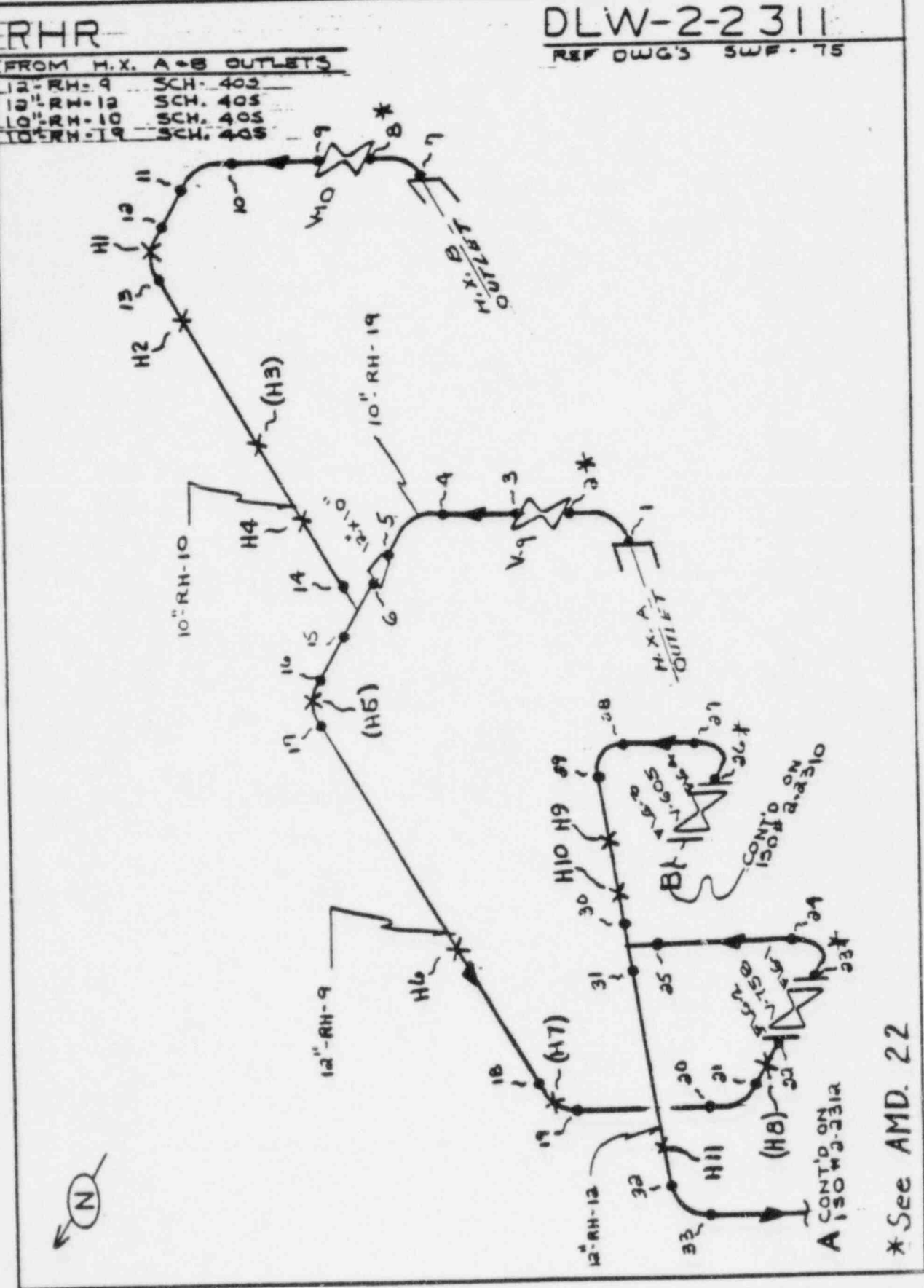
REF DWG SWF-62

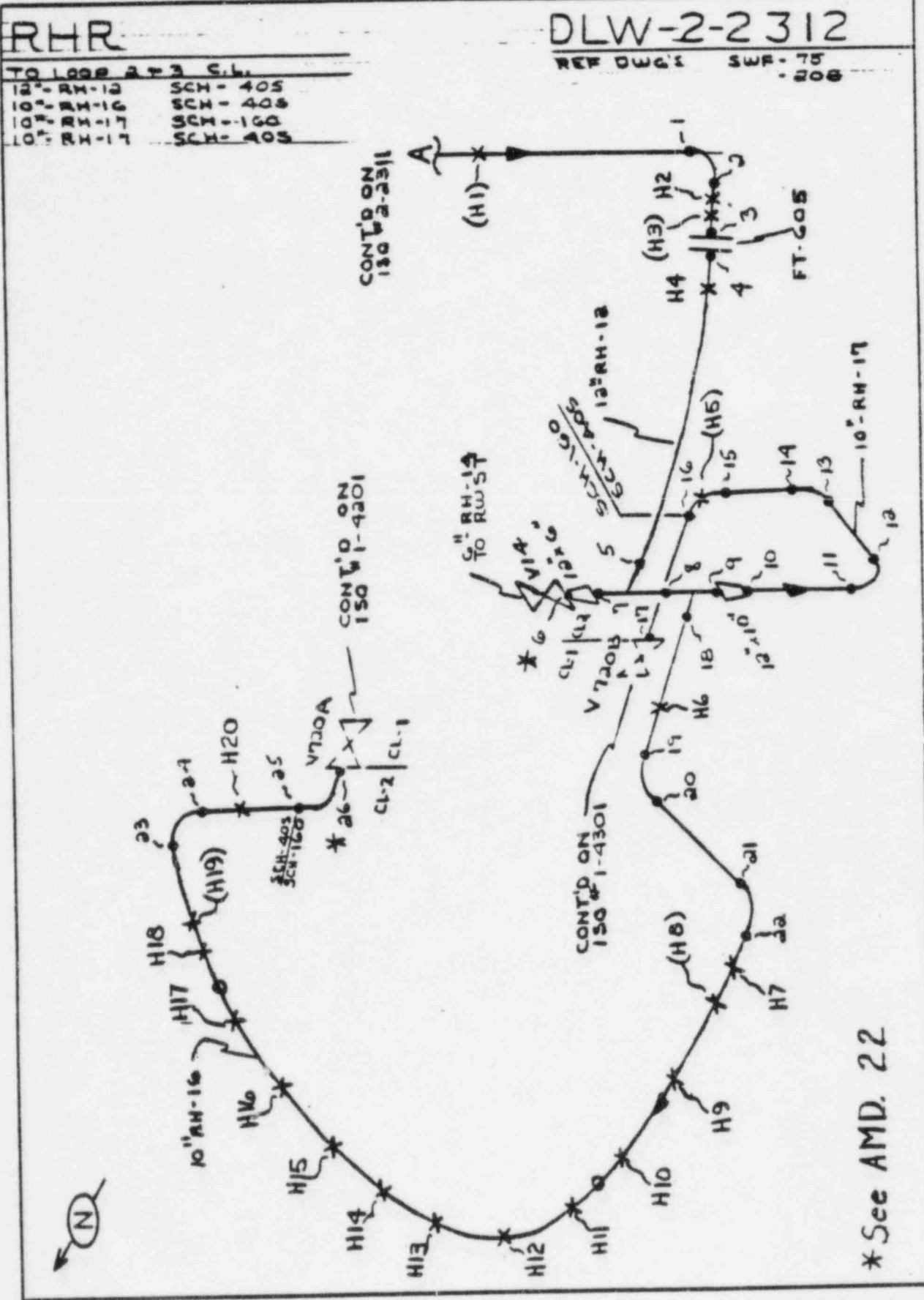
16" WFPD-23 SCH-100
MATL: A-106 GR.B



1/8/82







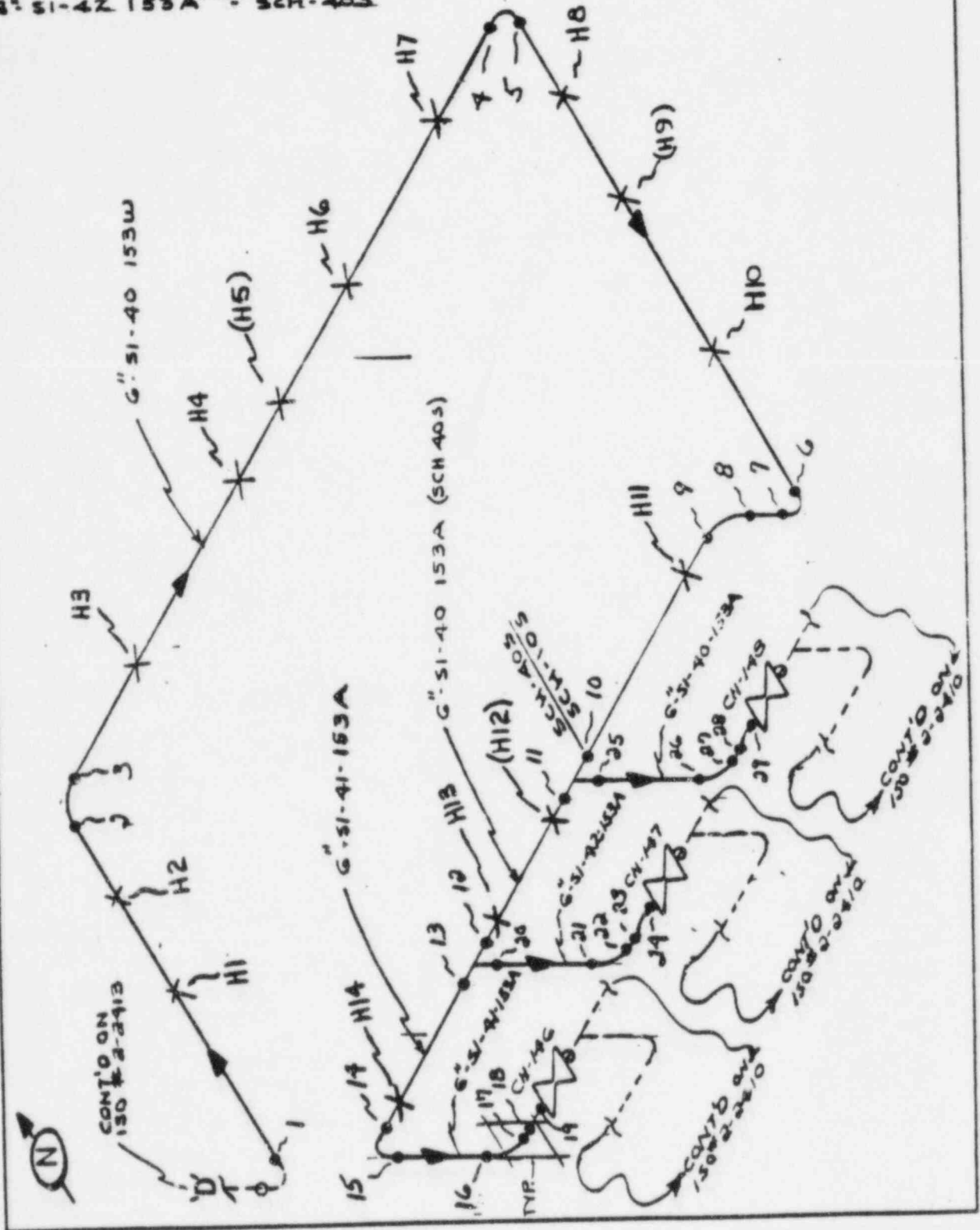
CVCS

DLW-2-2411

CHARGING PUMP SECTION

REF. DWG. SWF - 276
279

6" 51-40-153W	SCH-105
6" 51-40-153A	SCH-405
6" 51-41-153A	SCH-405
6" 51-42-153A	SCH-405



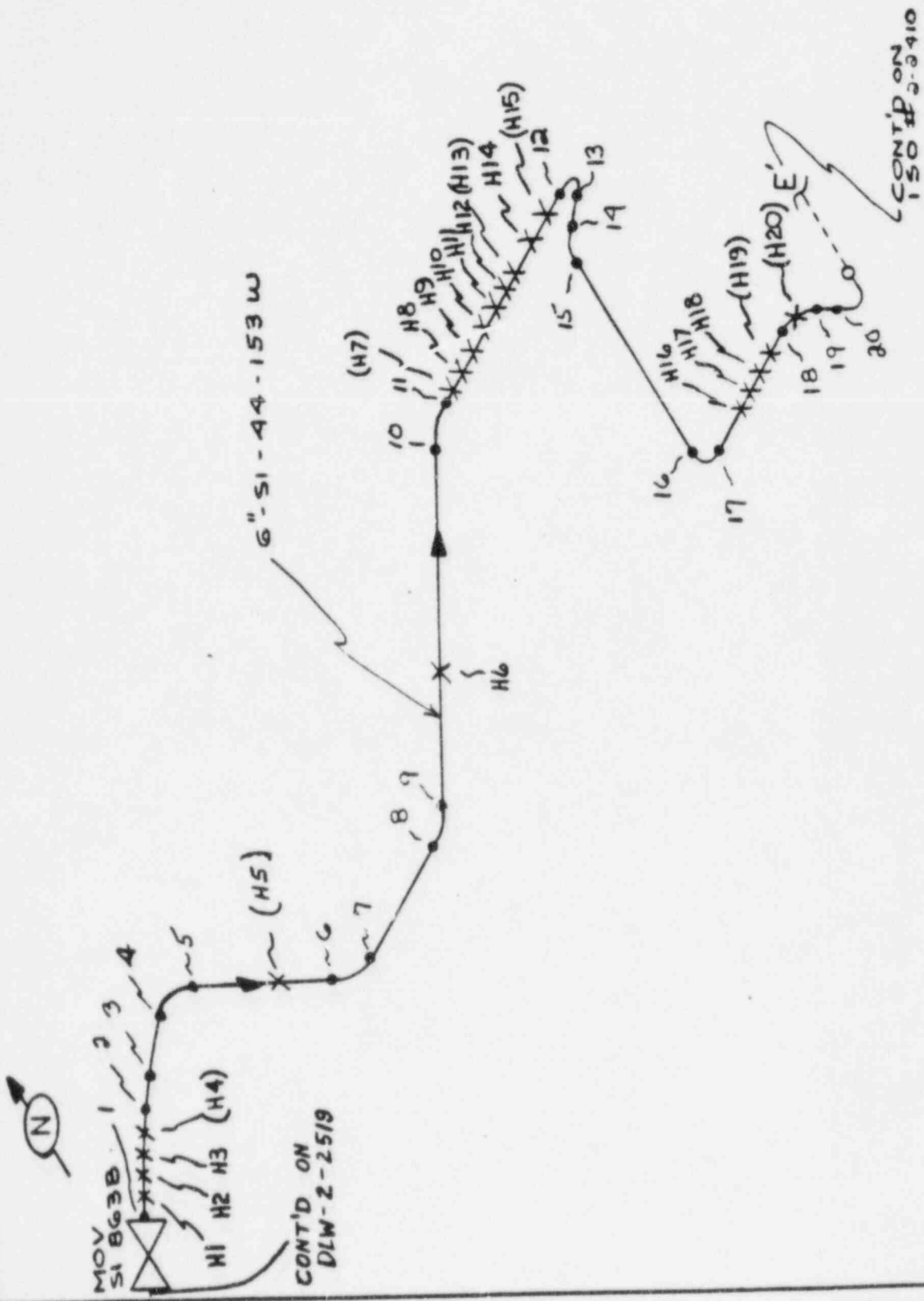
CVCS

DLW-2-2412

CHARGING PUMP SUCTION

REF DWG SWF-114
279

6"-SI-44 SCH-10S



CVCS

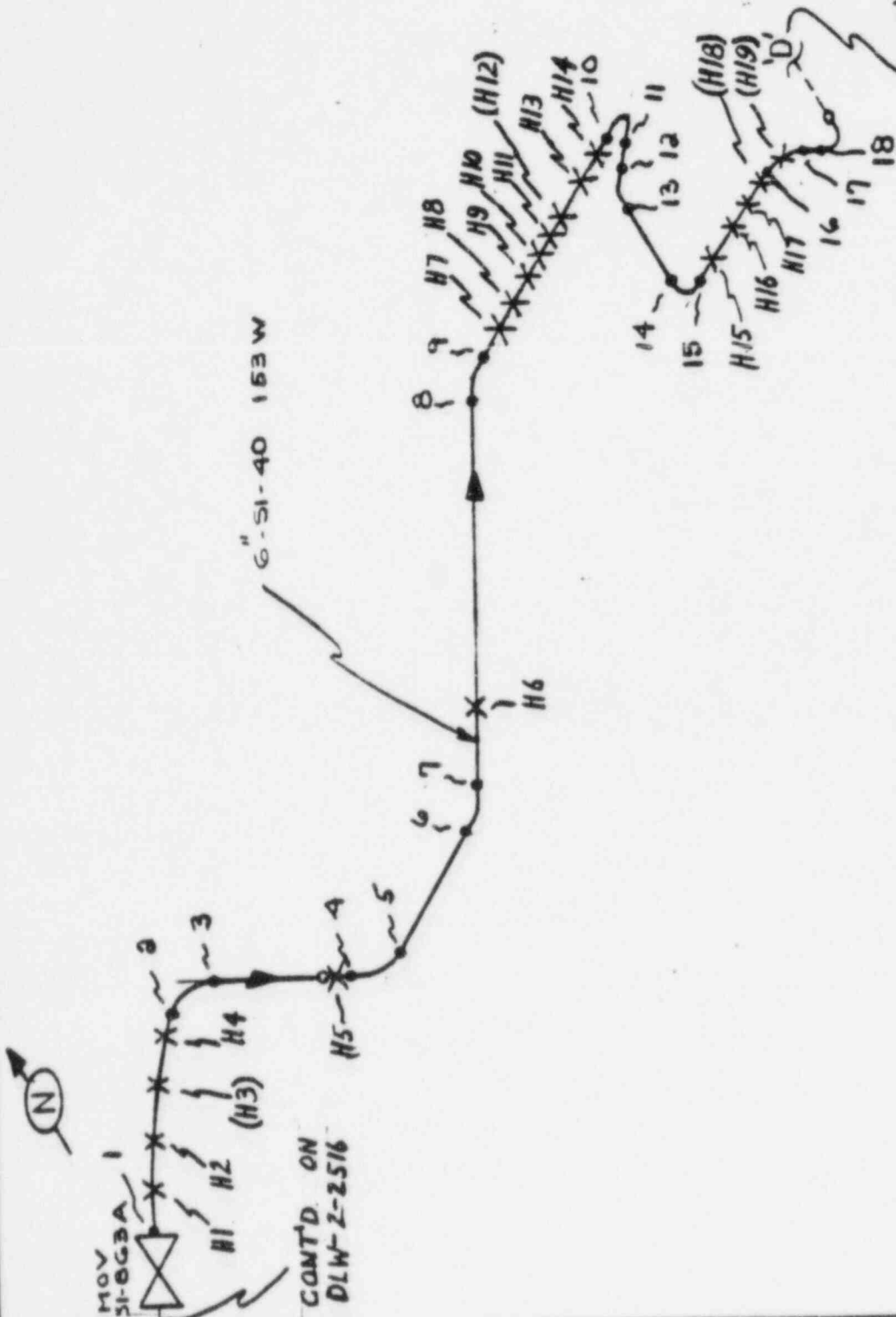
DLW-2-2413

CHARGING PUMP SUCTION

REF DWG SWF-115

6" SI-40 - SCH. 10S

CONT'D ON
150# 2-2411

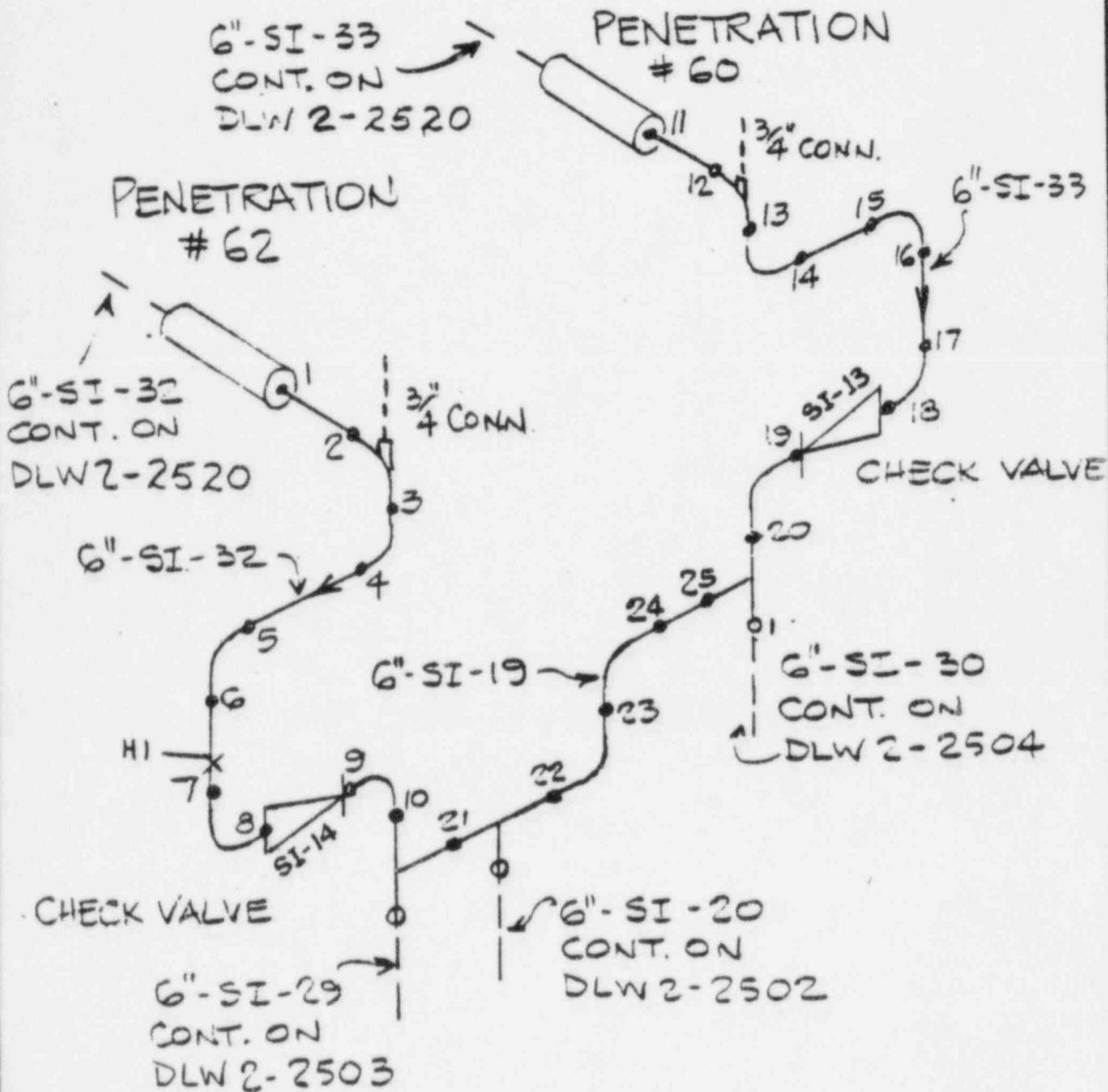


V/S/72

WESTINGHOUSE ELECTRIC CORPORATION

HOT LEG LOW HEAD SIS DLW 2-2501

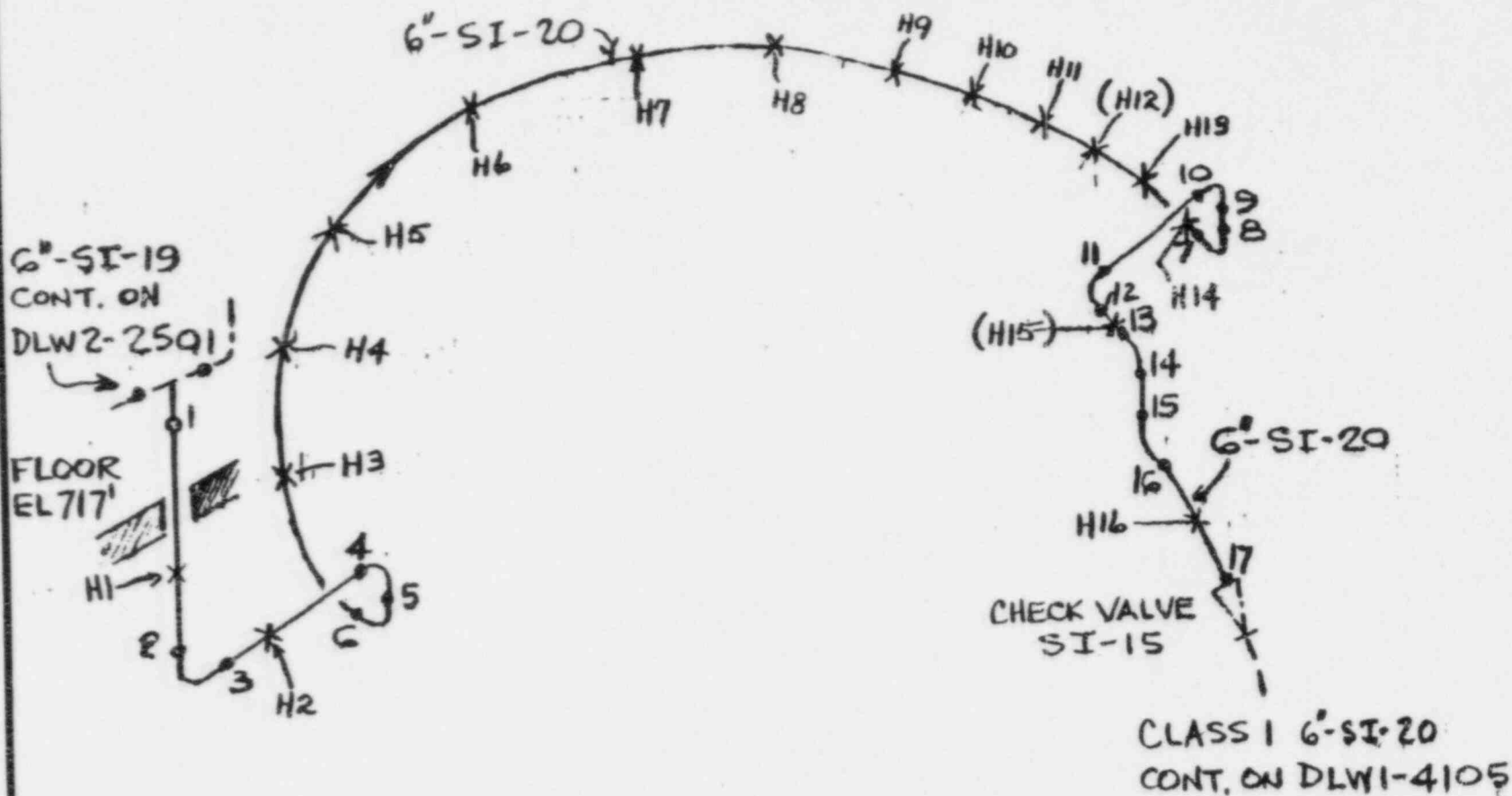
FORM 48446



MATERIAL: 6" SCH 160; A 376 TP 316 SMLS

LOOP 1 HOT LEG SIS.

DLW2-2502



MATERIAL. 6" SCH 160 A376 TP 316 SMLS.

TYPP-1

page V-30

Rev 2

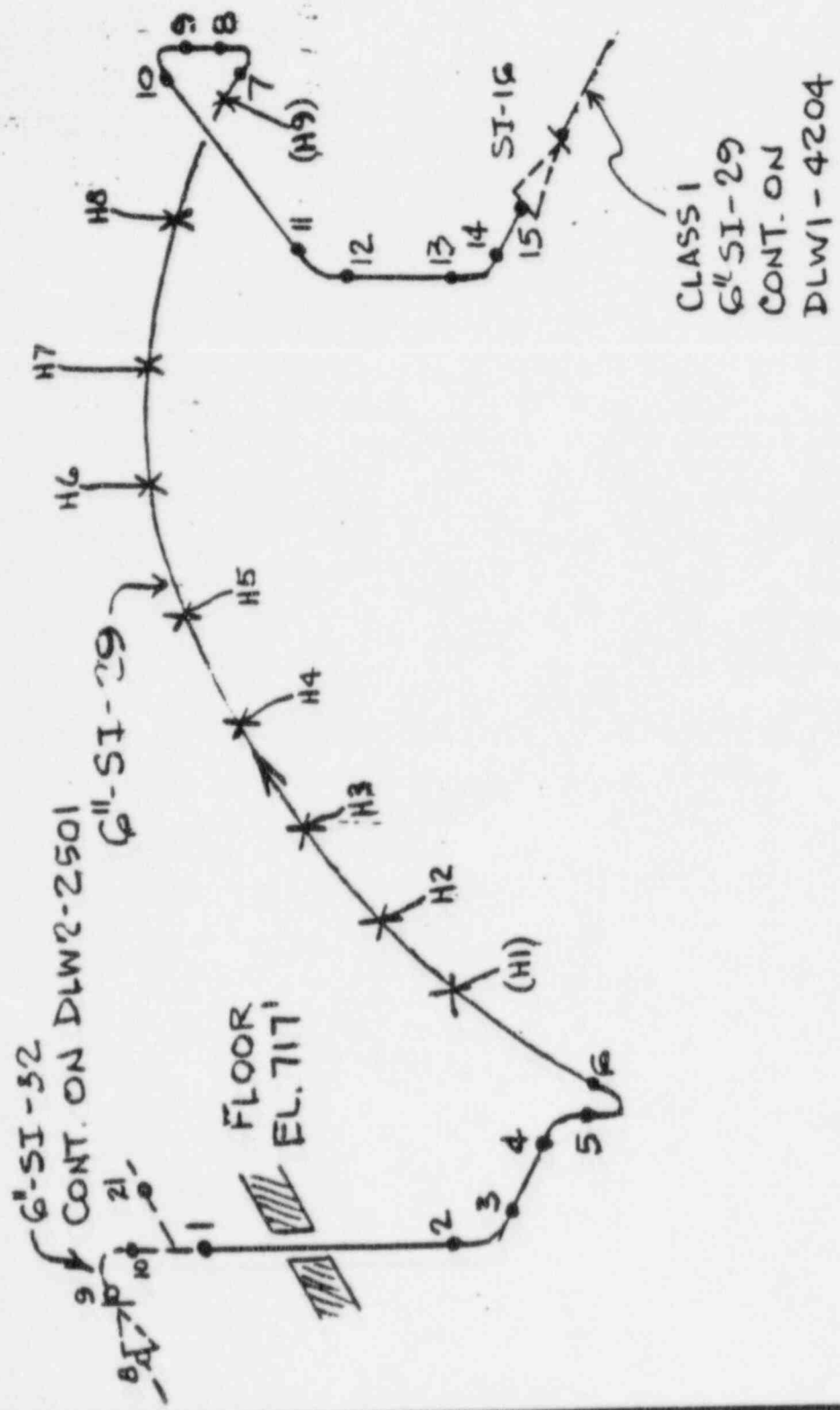
11/2/62

1/8/72

WESTINGHOUSE ELECTRIC CORPORATION

LOOP 2 HOT LEG SIS.

DLW 2-2503



MATERIAL: 6" SCH 160; A376 TP 316 SMLS

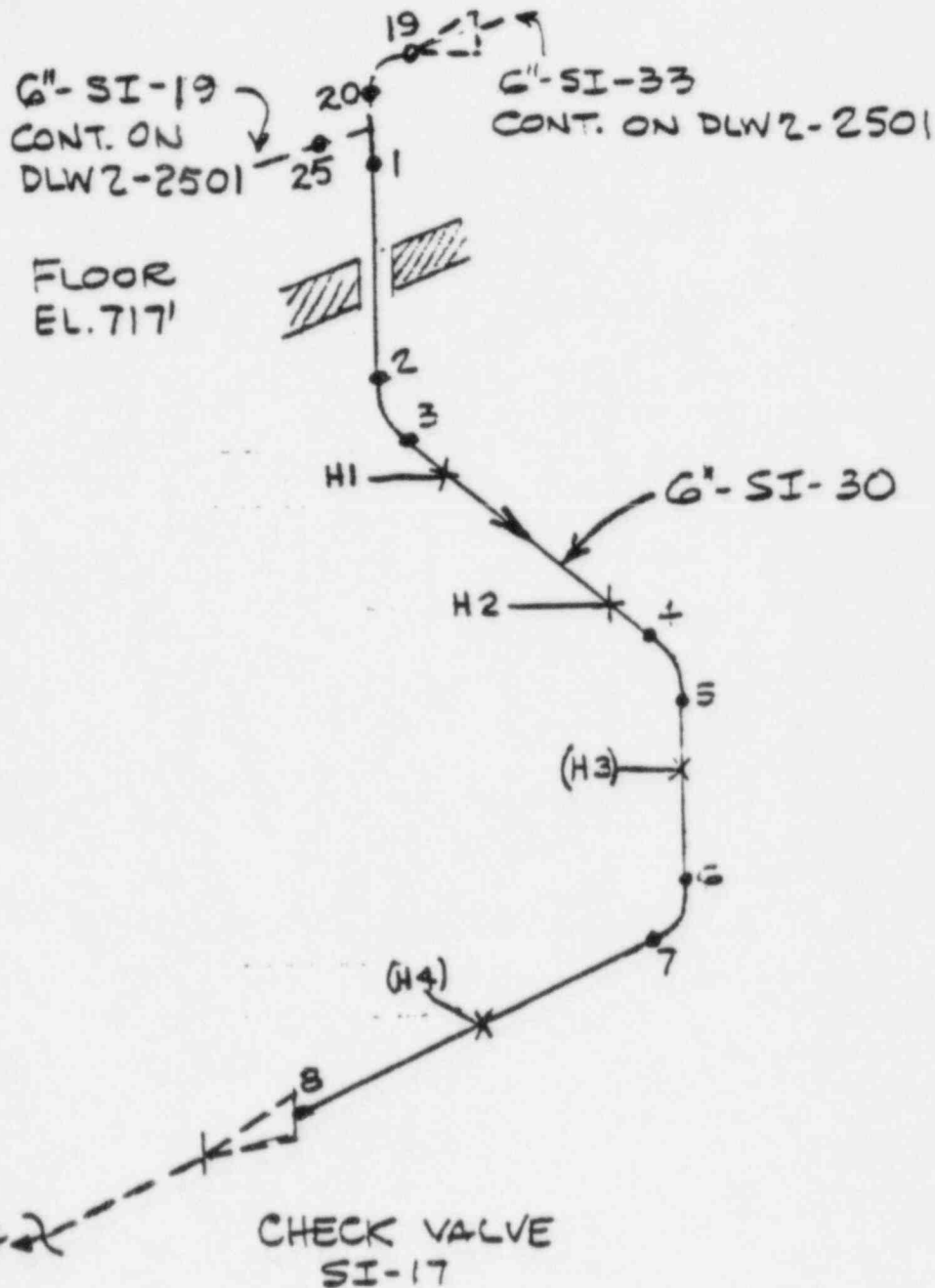
FORM 48446

1/8/82

WESTINGHOUSE ELECTRIC CORPORATION

LOOP 3 HOT LEG SIS

DLW2-2504



CLASS I
G'' SI-30
CONT. ON
DLW1-4304

CHECK VALVE
SI-17

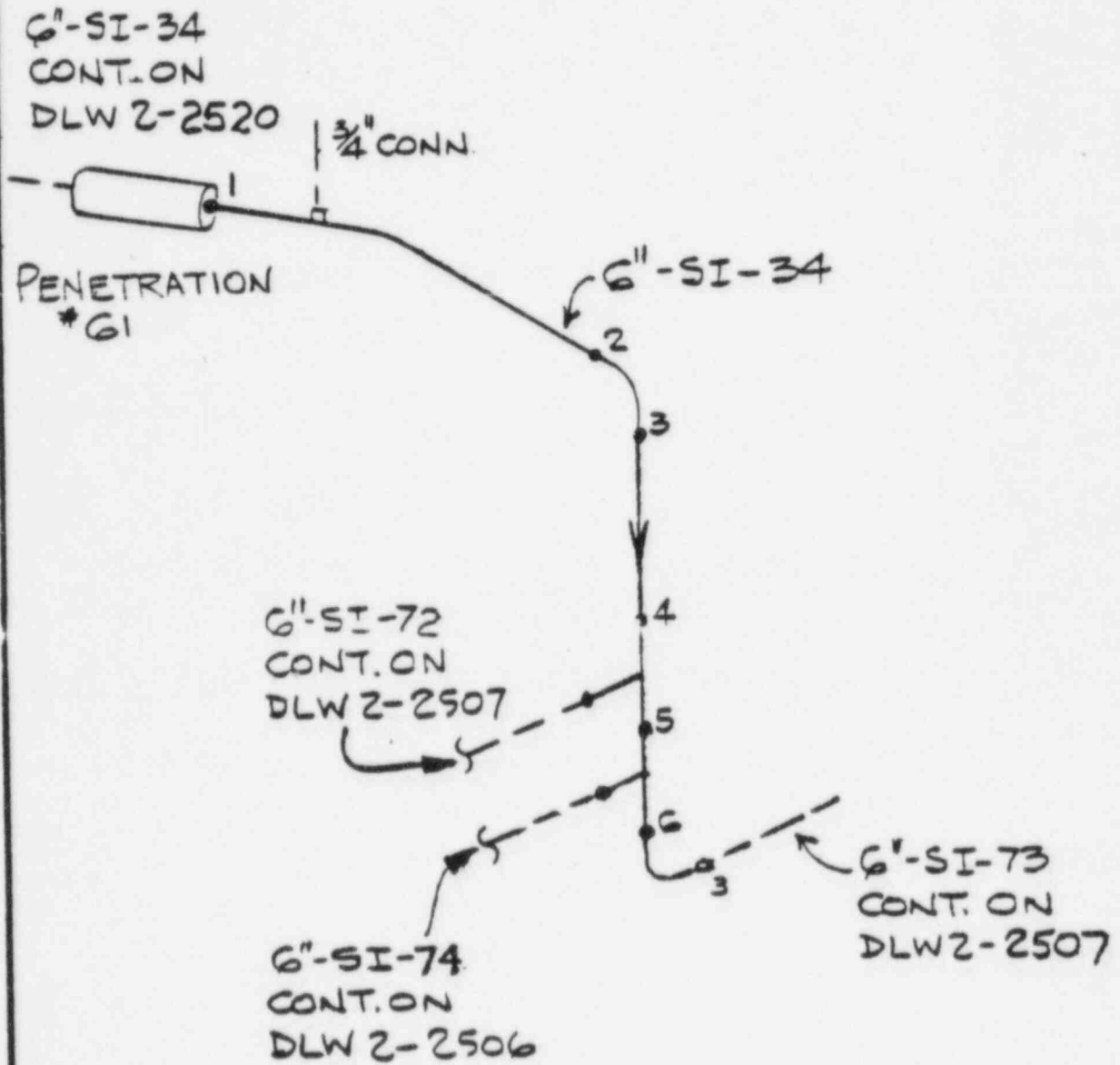
MATERIAL: 6" SCH 160 ; A376 TP 316 SMLS.

1/8/82

WESTINGHOUSE ELECTRIC CORPORATION

COLD LEG LOW HEAD SIS DLW 2-2505

FORM 48446

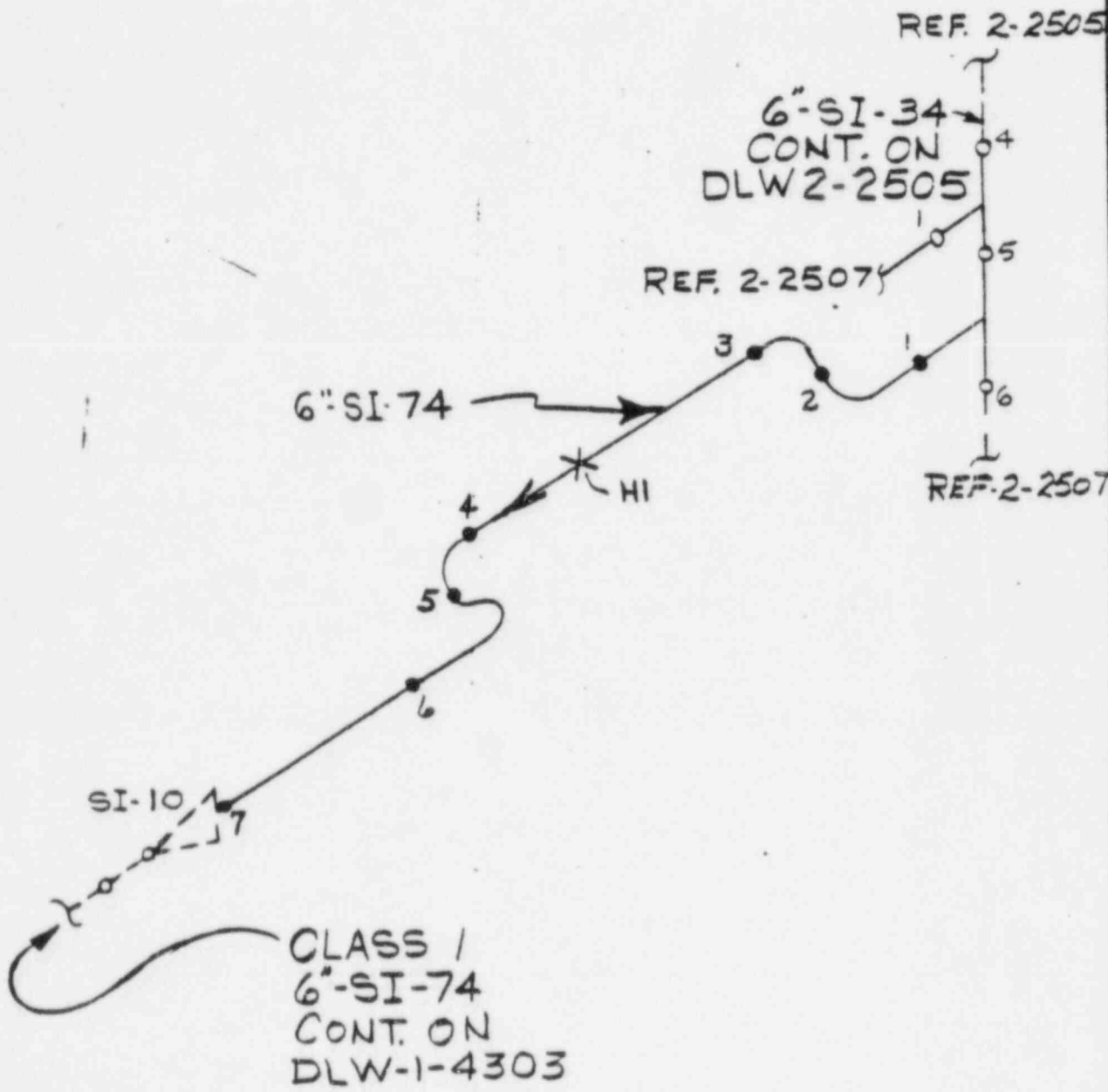


MATERIAL: 6" SCH 160 : A376 TP 316 SMLS

LOOP 1 COLD LEG SIS

DLW-2-2506

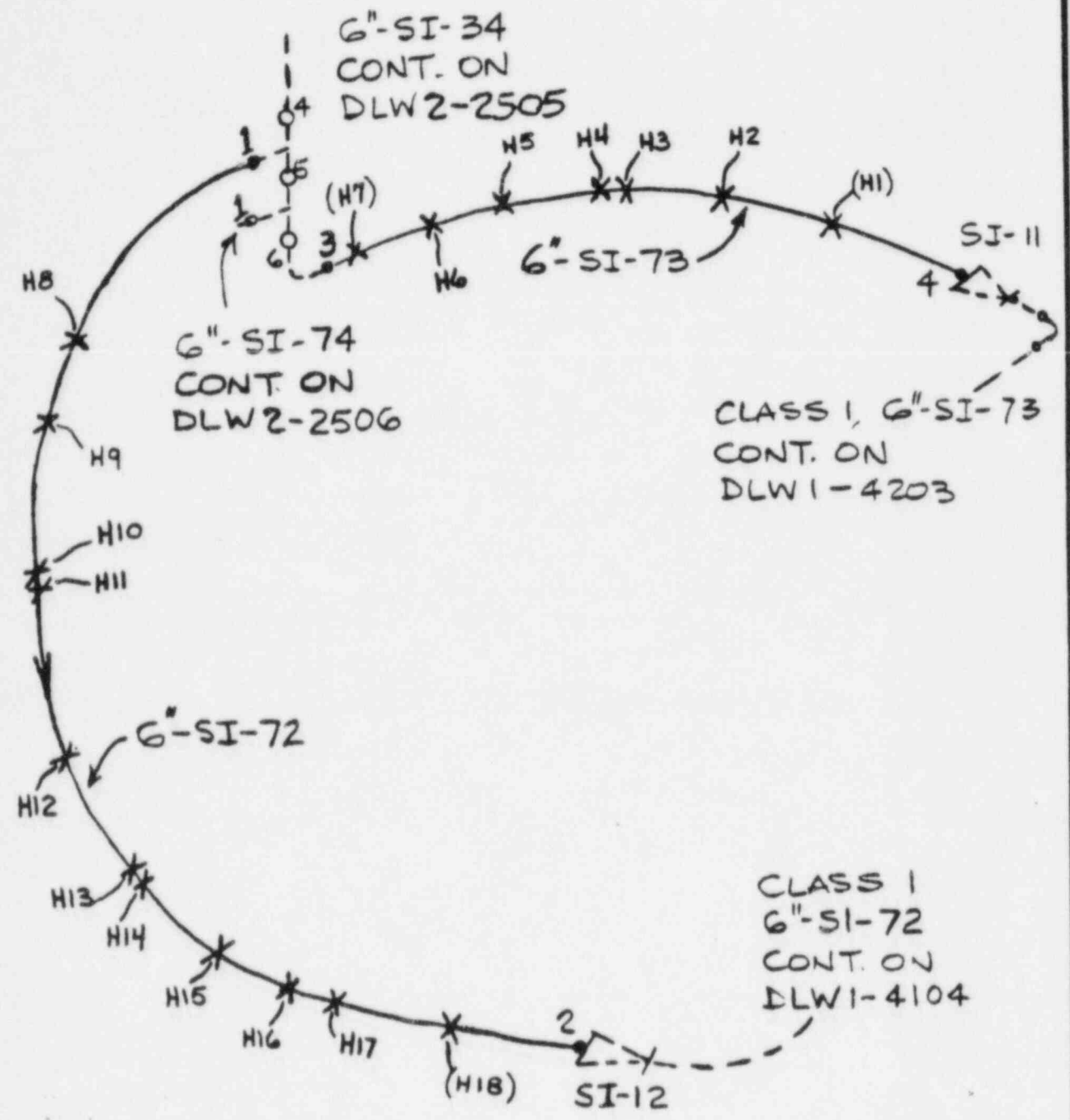
FORM 46446



MATERIAL: 6" SCH 160; A376, TP 316 SMLS.

LOOPS 2 & 3 COLD LEG SIS. DLW 2-2507

FORM 484



MATERIAL: 6" SCH 160; A376 TP 316 SMLS

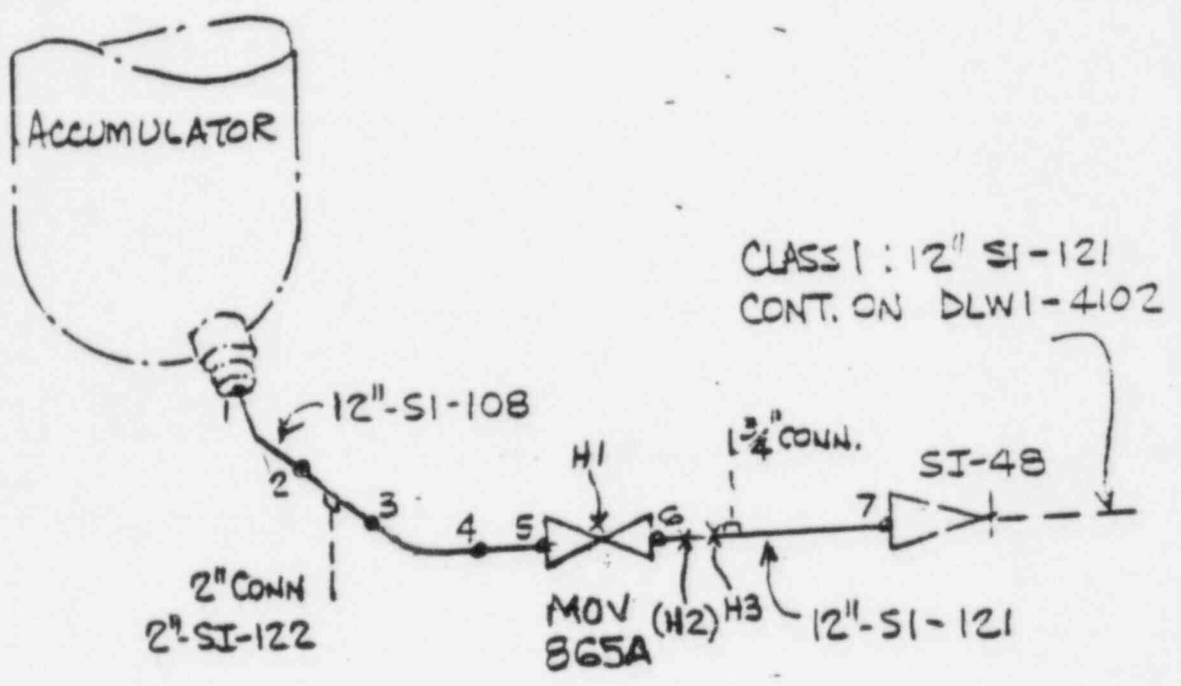
1/8/82

WESTINGHOUSE ELECTRIC CORPORATION

LOOP 1 ACCUMULATOR
DISCHARGE

DLW 2-2508

FORM 46446



MATERIAL:	12" SI-108	12" SCH 40	A376 TP 304 SMLS
	12" SI-121	12" SCH 160	A376 TP 316 SMLS

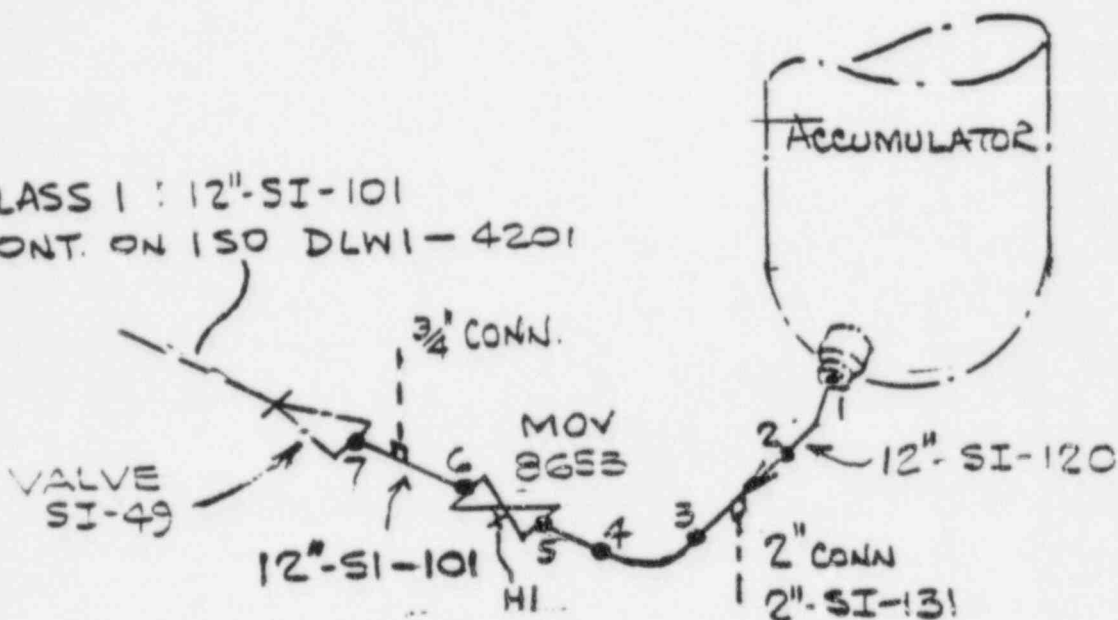
1/8/82

LOOP 2 ACCUMULATOR DISCHARGE

DLW 2-2509

FORM 4844B

CLASS 1 : 12"-SI-101
CONT. ON ISO DLW1-4201



MATERIAL:	12-SI-120	12" SCH 40	A376 TP 304 SMLS
	12-SI-101	12" SCH 160	A376 TP 316 SMLS

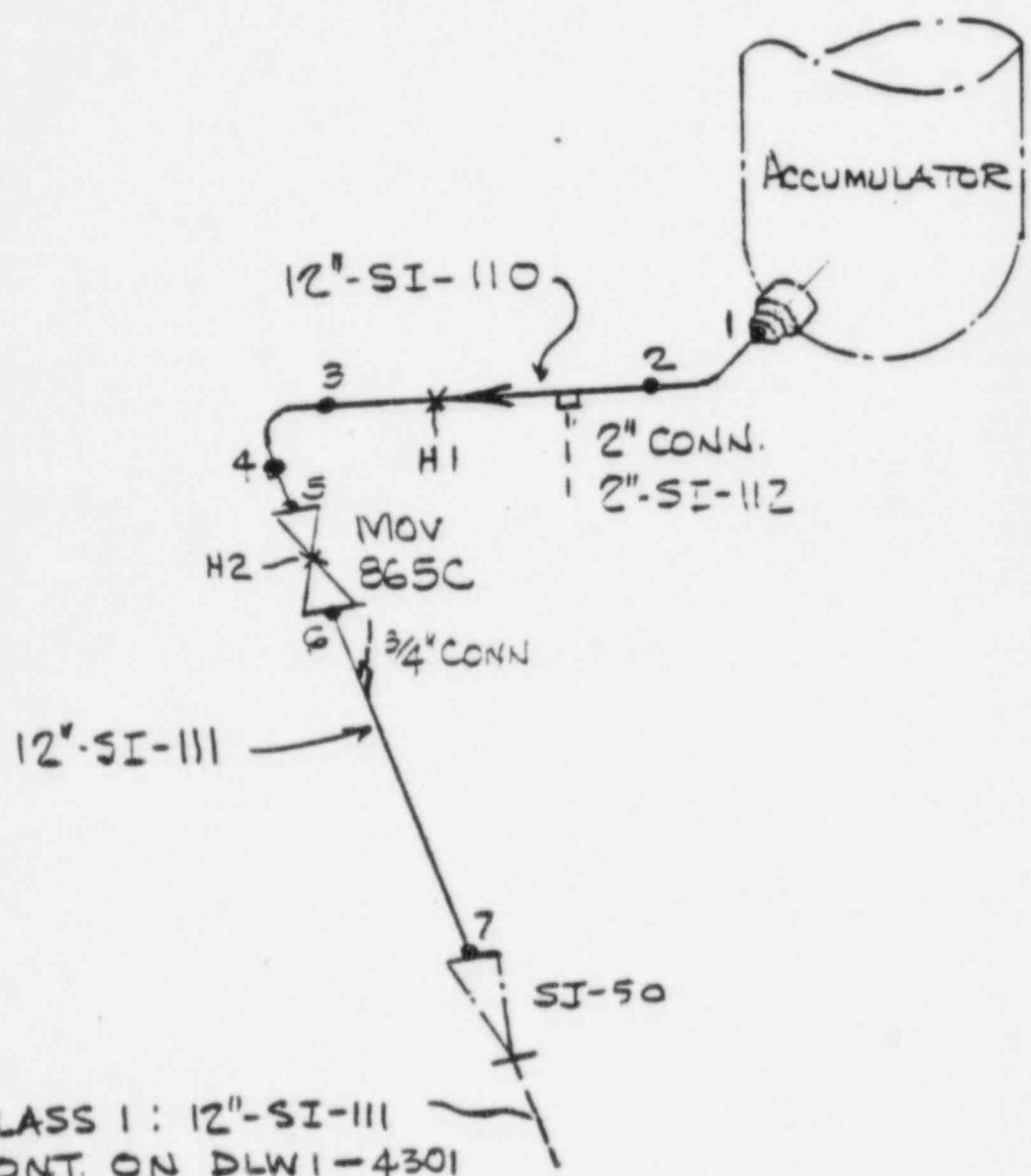
1/8/72

WESTINGHOUSE ELECTRIC CORPORATION

LOOP 3 ACCUMULATOR DISCHARGE

DLW 2-2510

FORM 48446



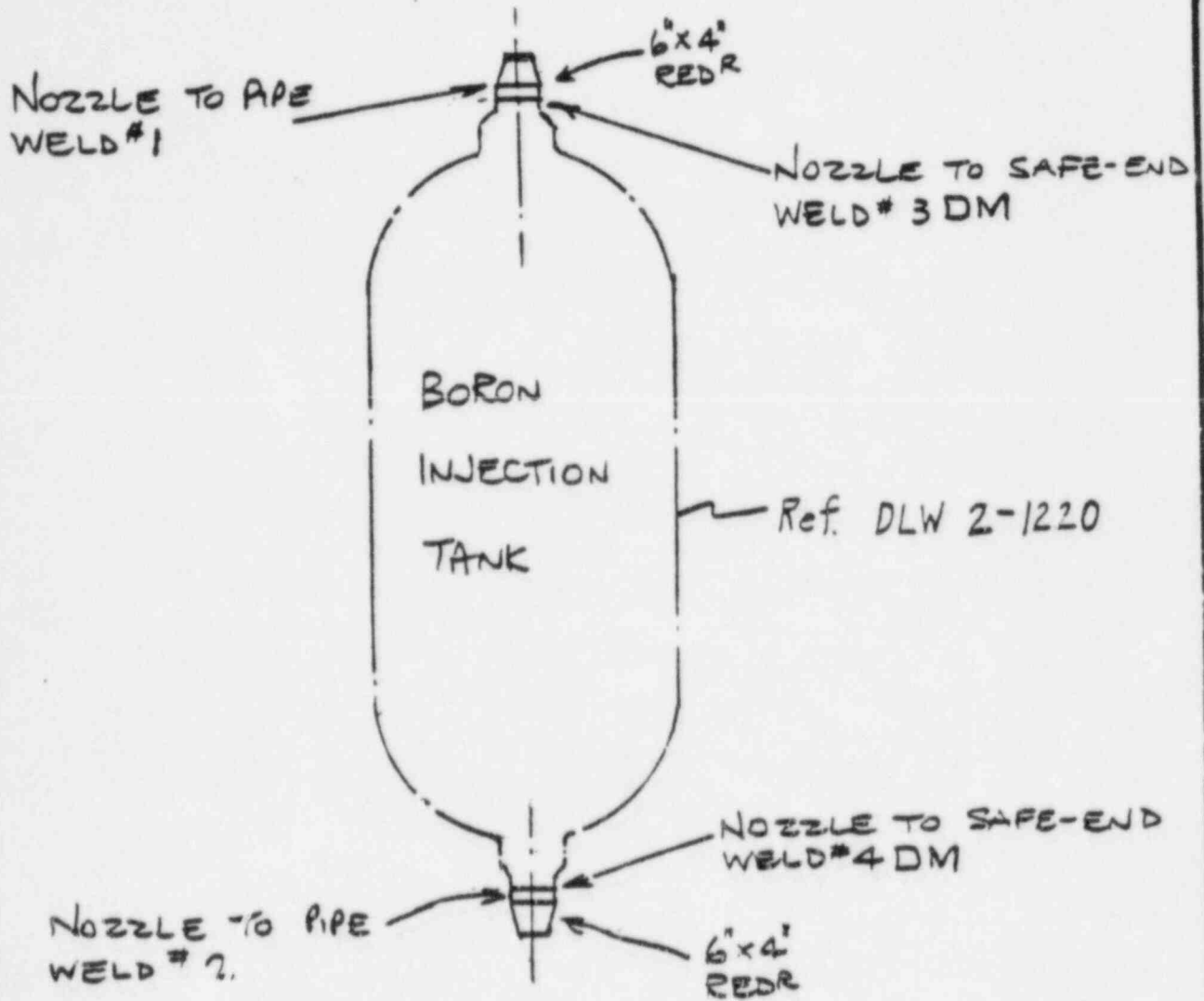
CLASS I: 12"-SI-111
CONT. ON DLW1-4301

MATERIAL:	12" SI-110	12" SCH 40	A376 TP 304 SMLS
	12" SI-111	12" SCH 160	A376 TP 316 SMLS

BORON INJECTION TANK

DLW 2-2511

FORM 48446



1/1/72

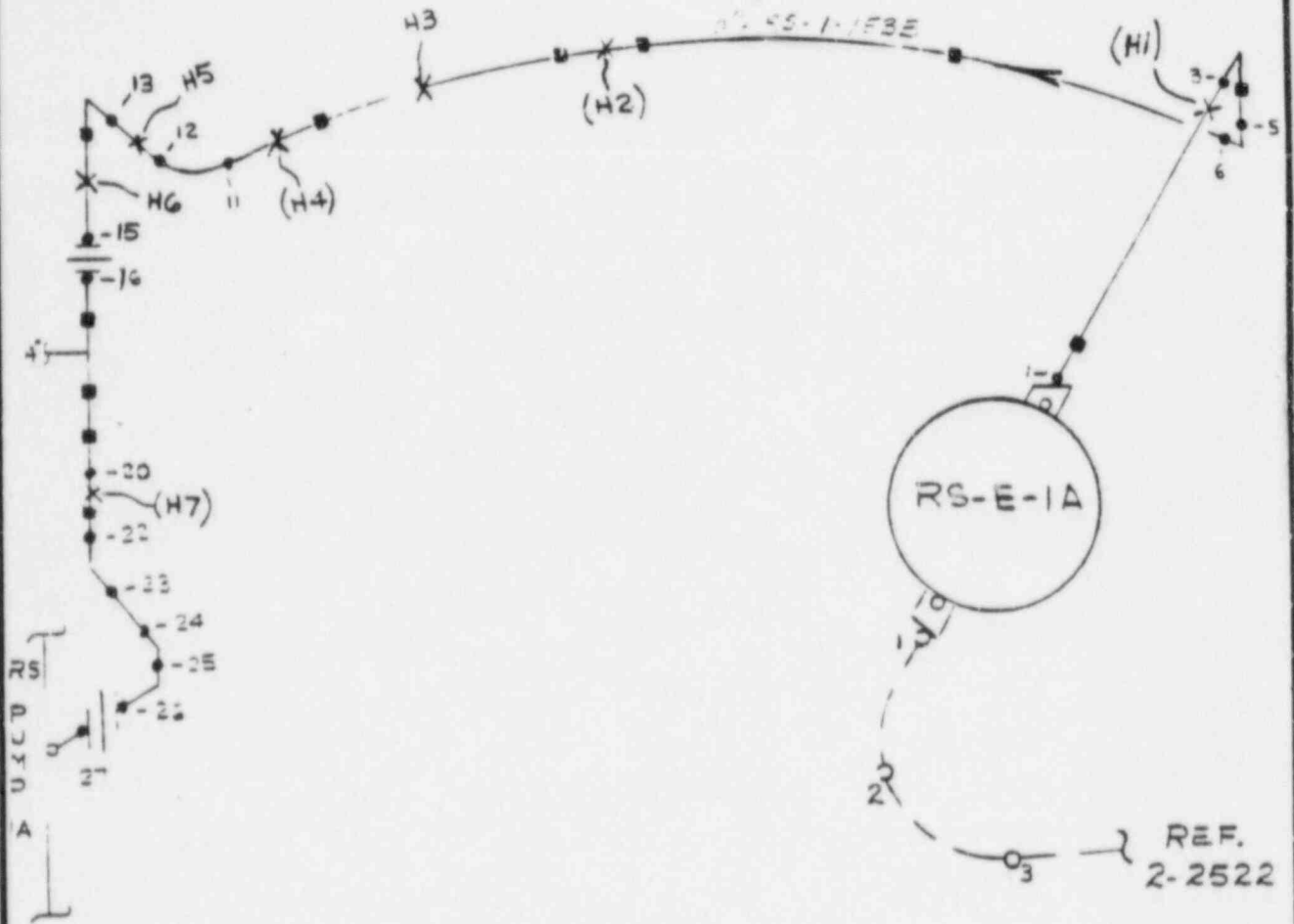
WESTINGHOUSE ELECTRIC CORPORATION

DLW-2-2512

RECIRCULATION SPRAY

10"-.165"T

FORM 484



X ALIGNMENT CONNECTOR
 • BUTT WELDS

1/3/52

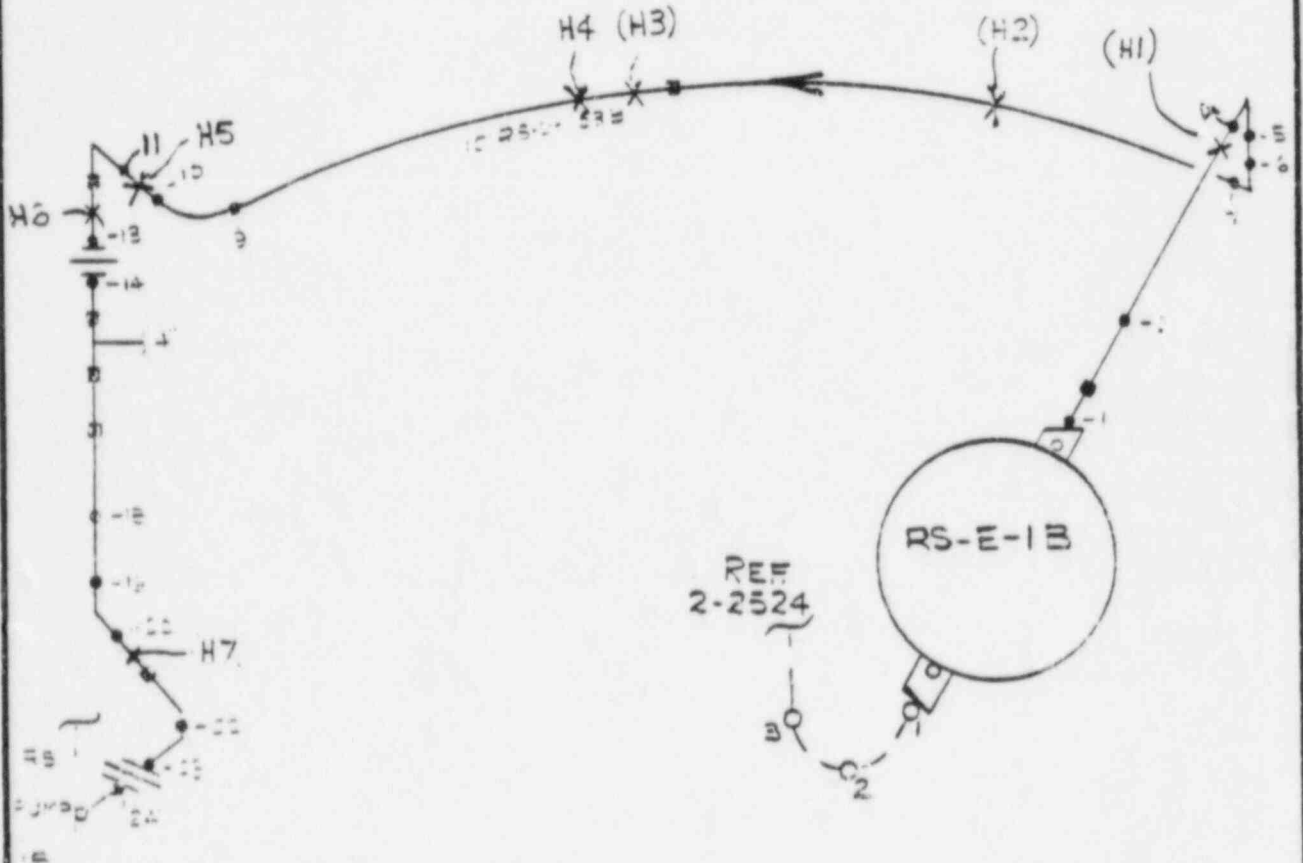
WESTINGHOUSE ELECTRIC CORPORATION

DLW-2-2513

RECIRCULATION SPRAY

10"-.165"T

FORM 4844



○ ALIGNMENT CONNECTORS
 ○ BUTT WELDS

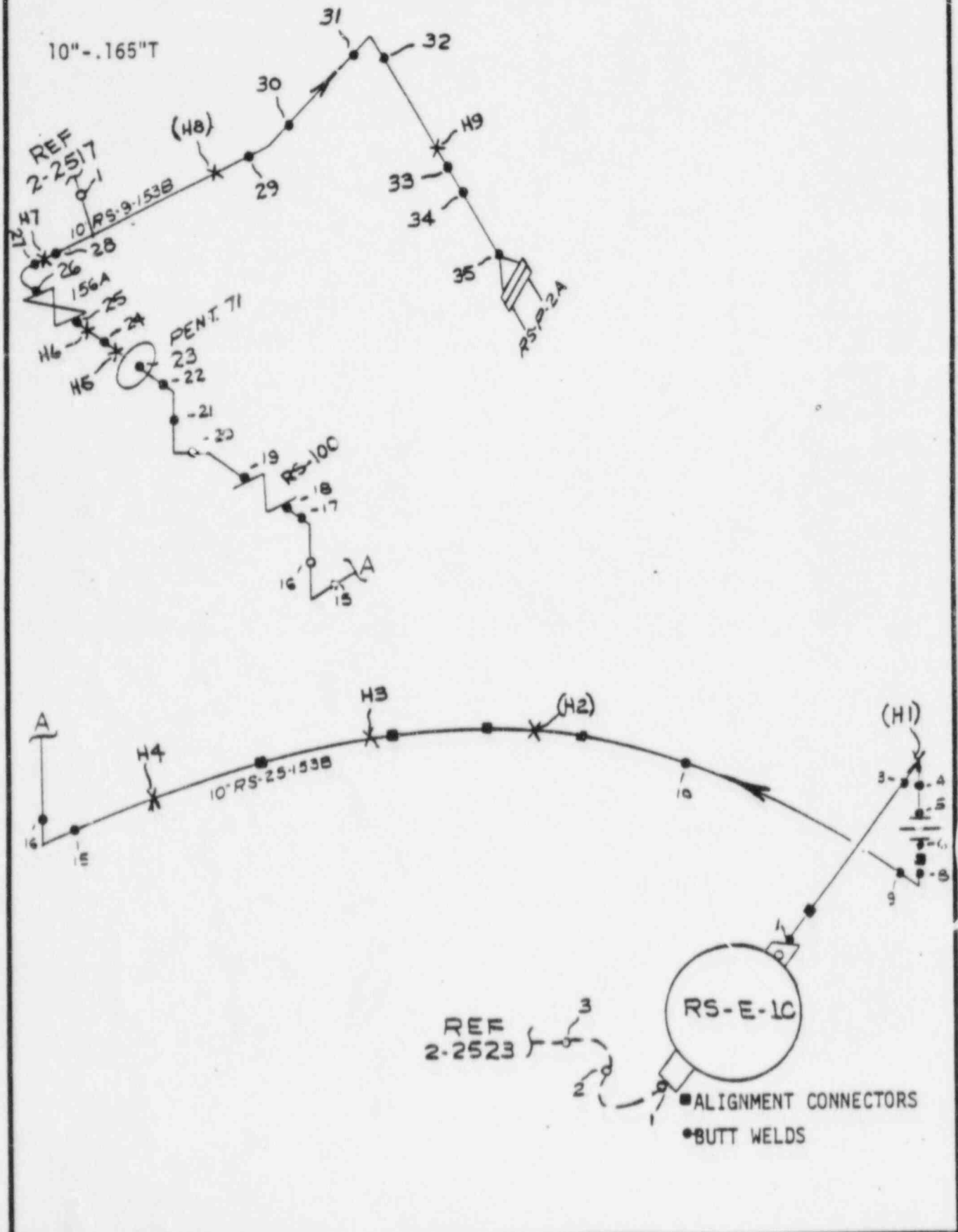
1/8/52

WESTINGHOUSE ELECTRIC CORPORATION

DLW-2-2514

RECIRCULATION SPRAY

FORM 46446



1/7/52

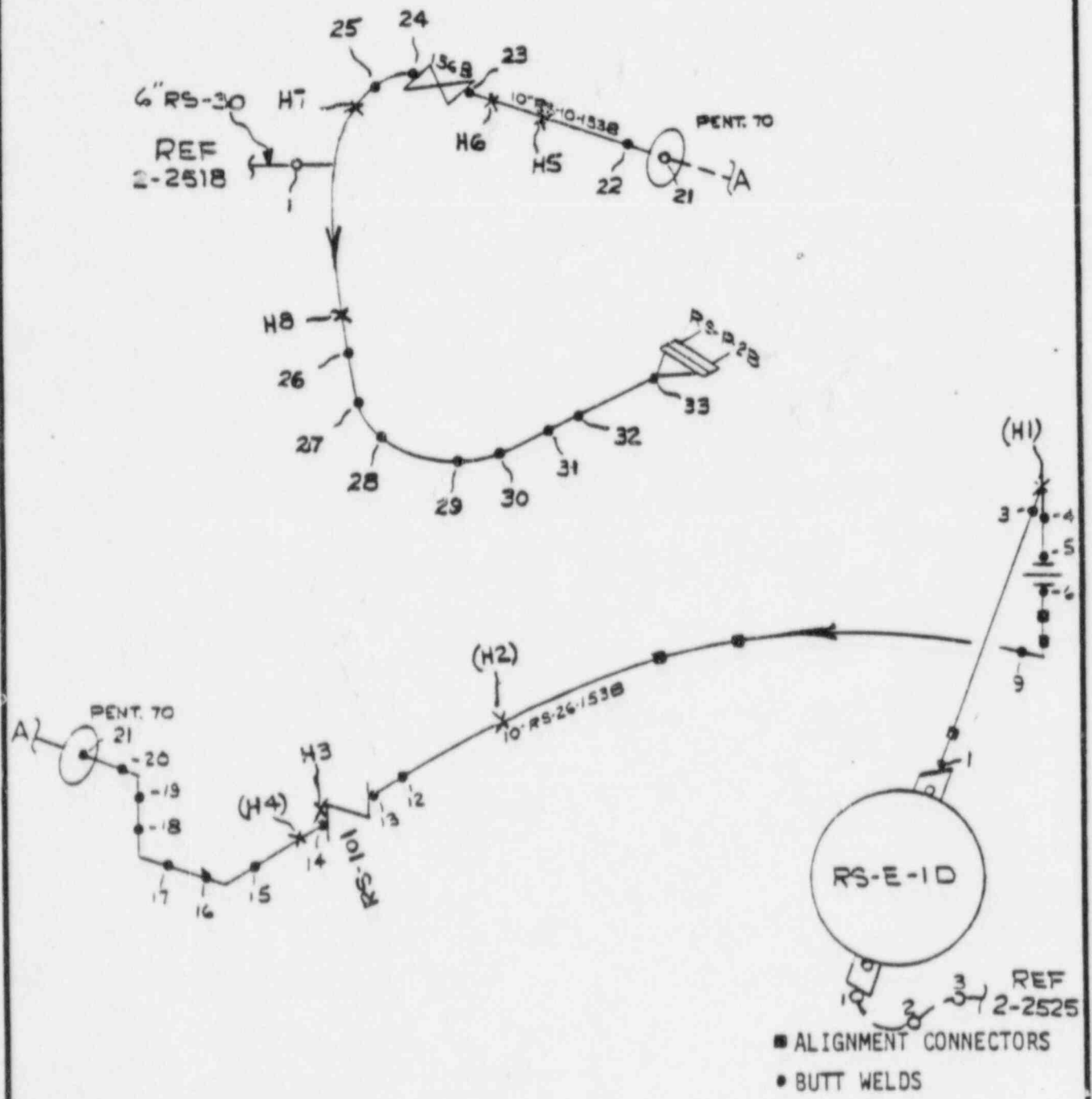
WESTINGHOUSE ELECTRIC CORPORATION

DLW-2-2515

RECIRCULATION SPRAY

10"-.165"±

FORM 46446



- ALIGNMENT CONNECTORS
- BUTT WELDS

1/8/72

WESTINGHOUSE ELECTRIC CORPORATION

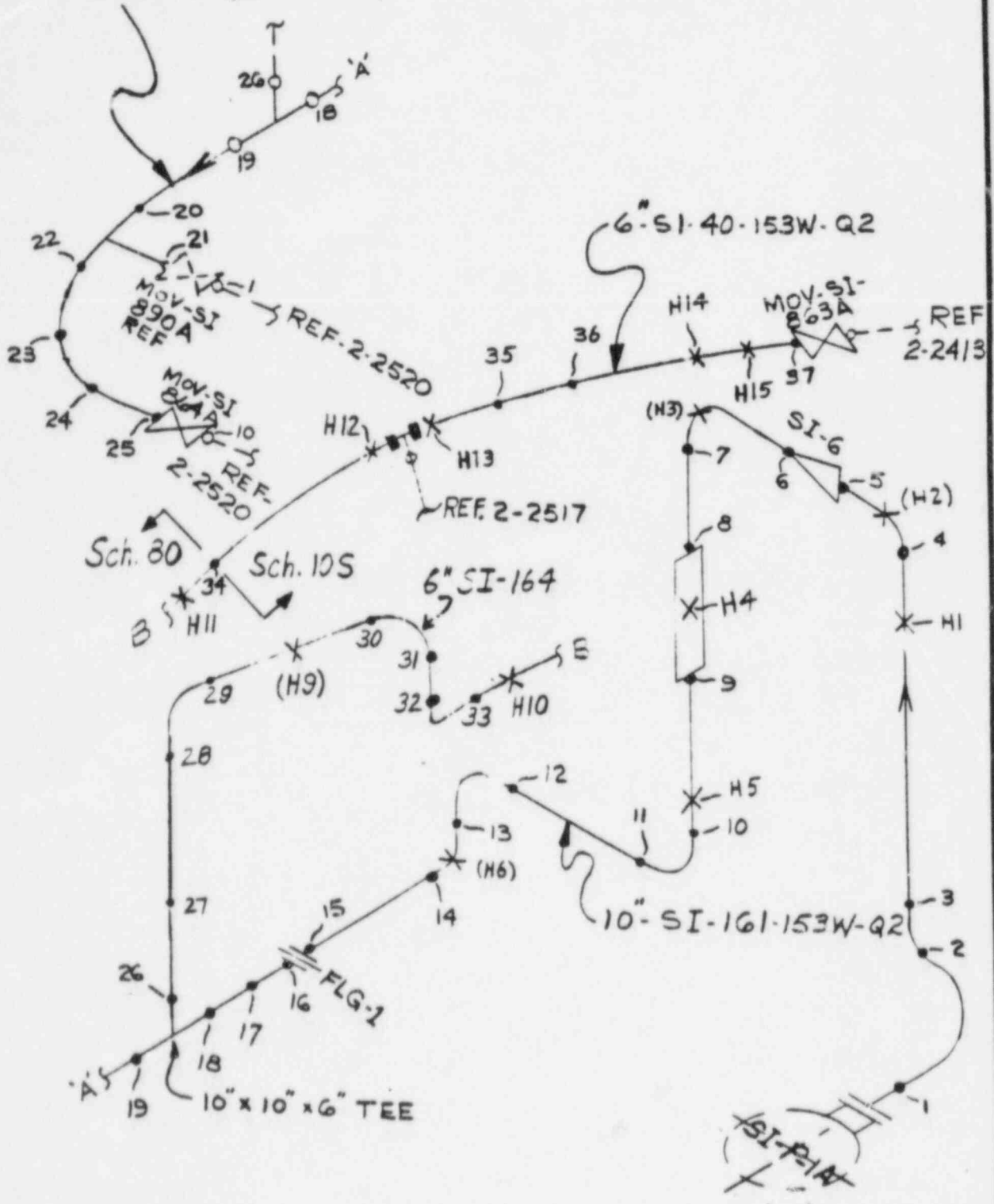
DLW-2-2516

6" SCH-10S
6" SCH-80
10" SCH-40

S.I.S.

FORM 4844B

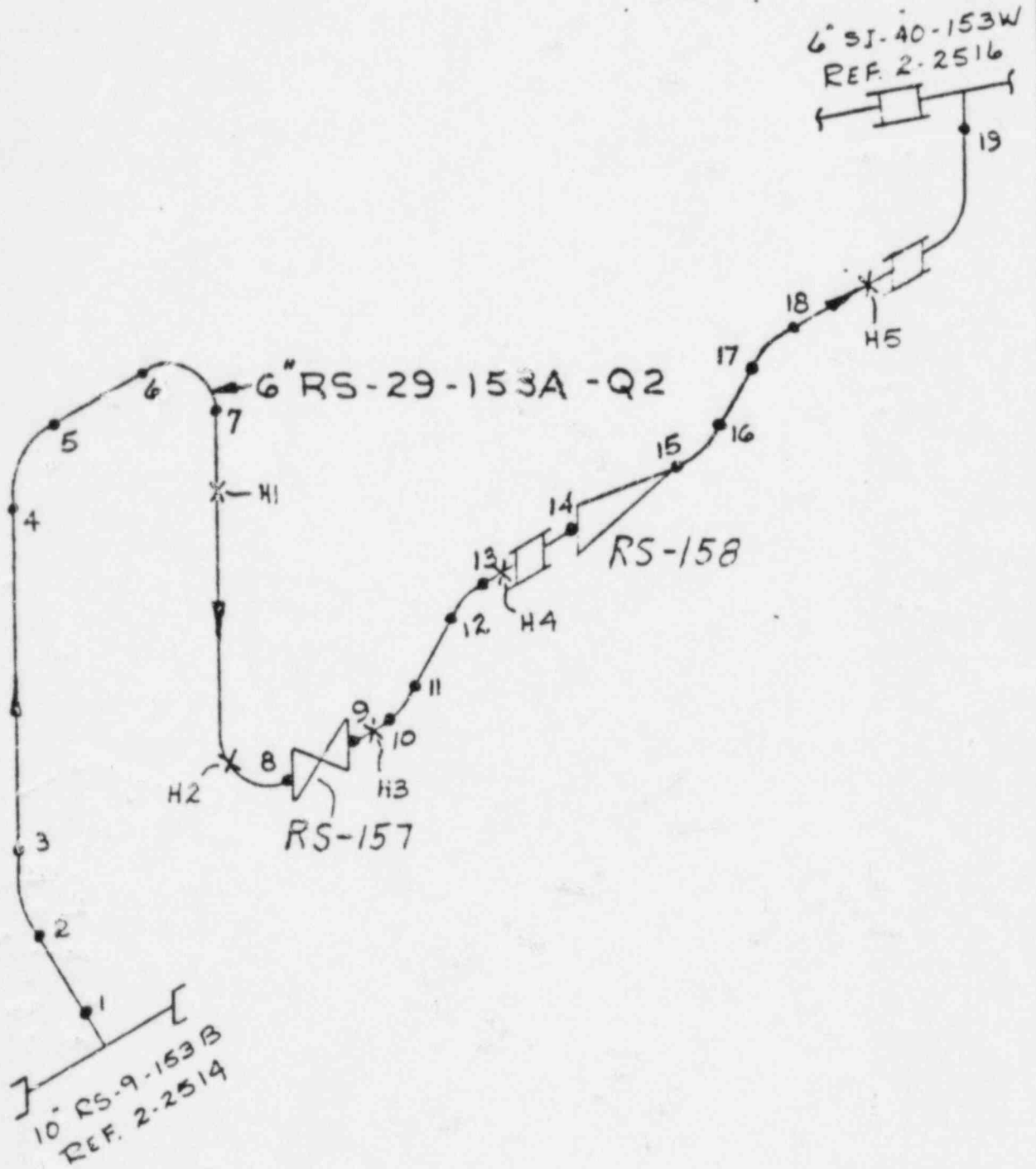
10"-SI-16-153W-Q2



6" RECIRC. SPRAY SYSTEM DLW-2-2517

6" SCH-40 S

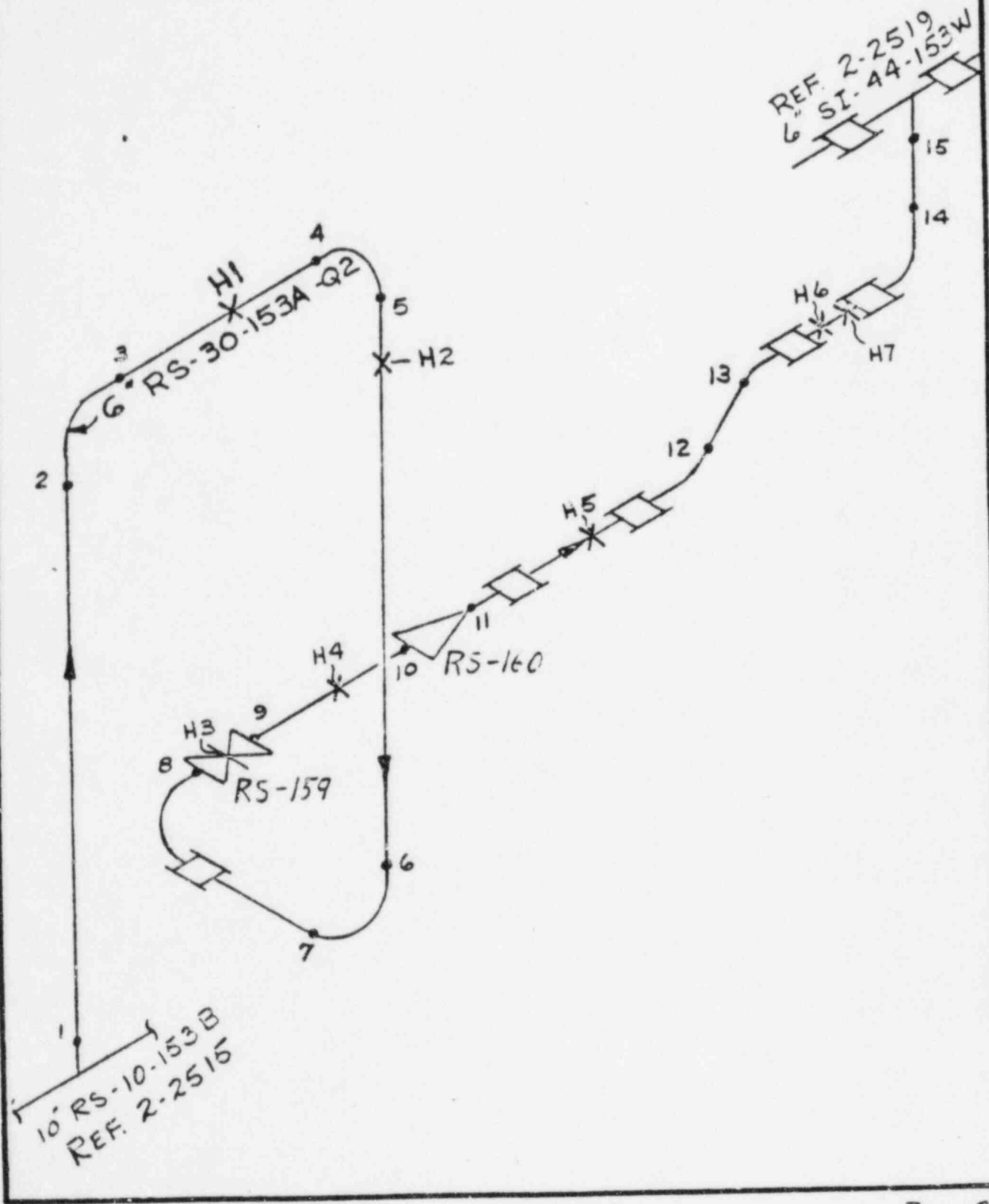
FORM 8844E



6" RECIRC. SPRAY SYSTEM-DLW-2-2518

6" SCH-40 S

FORM 4844E

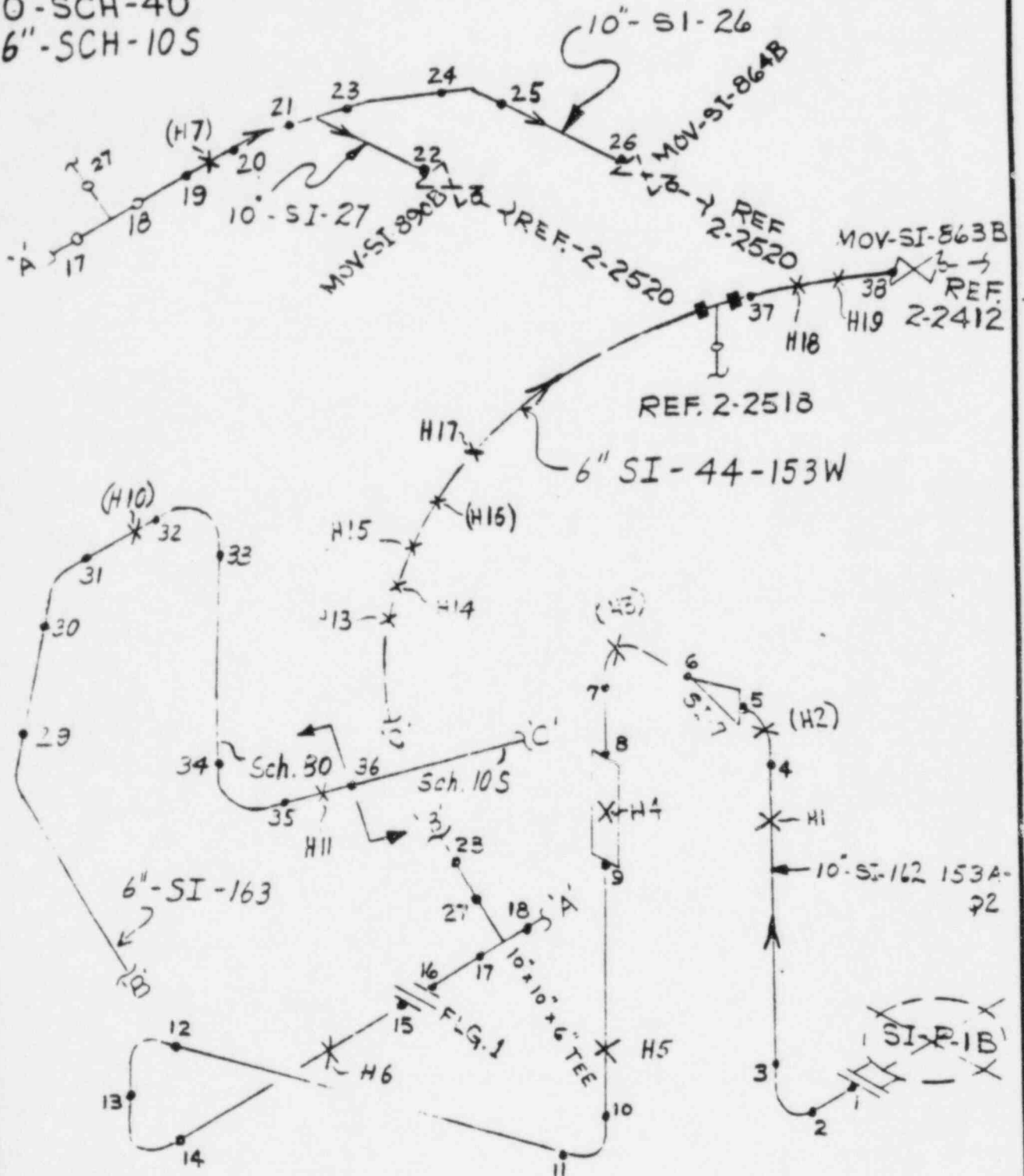


WESTINGHOUSE ELECTRIC CORPORATION

DLW-2-2519

S.I.S.

6" SCH-80
10" SCH-40
6" SCH-105

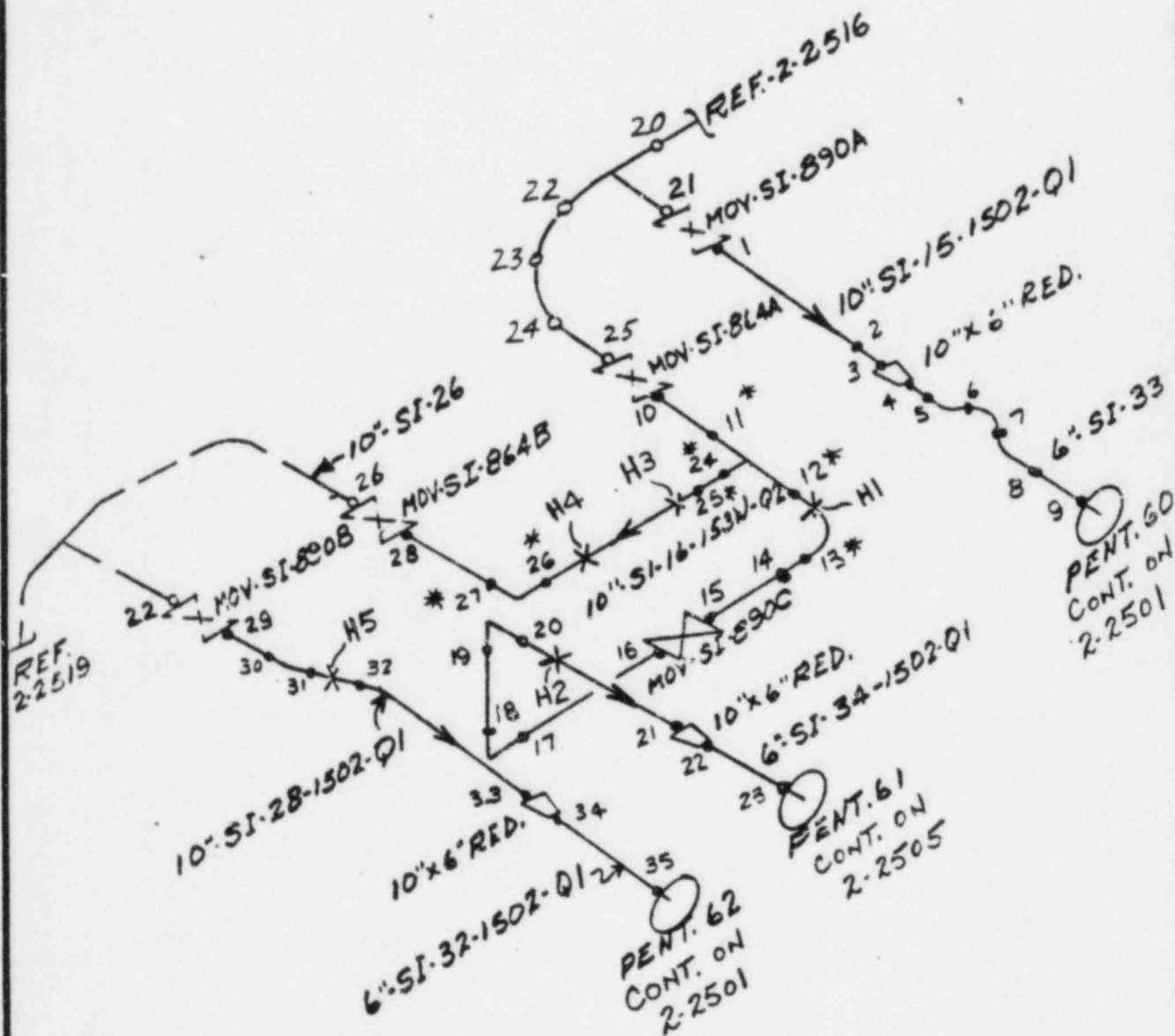


FORM 46446

S.I.S.

6" SCH. 80
10" SCH. 40
10"-SCH 105 *

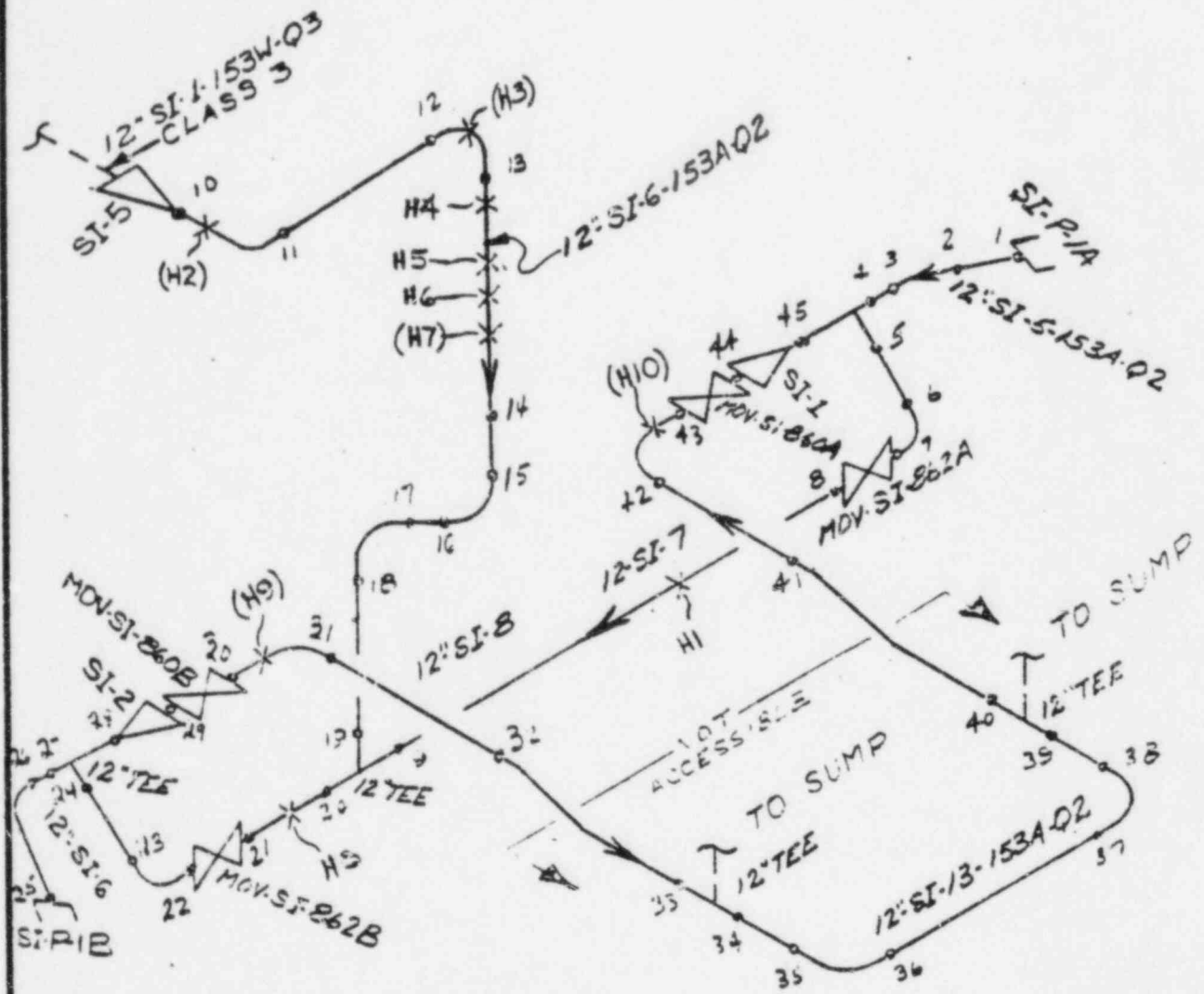
FORM 424



LOW HEAD SAFETY INJECTION PUMP

12" SCH. 40S

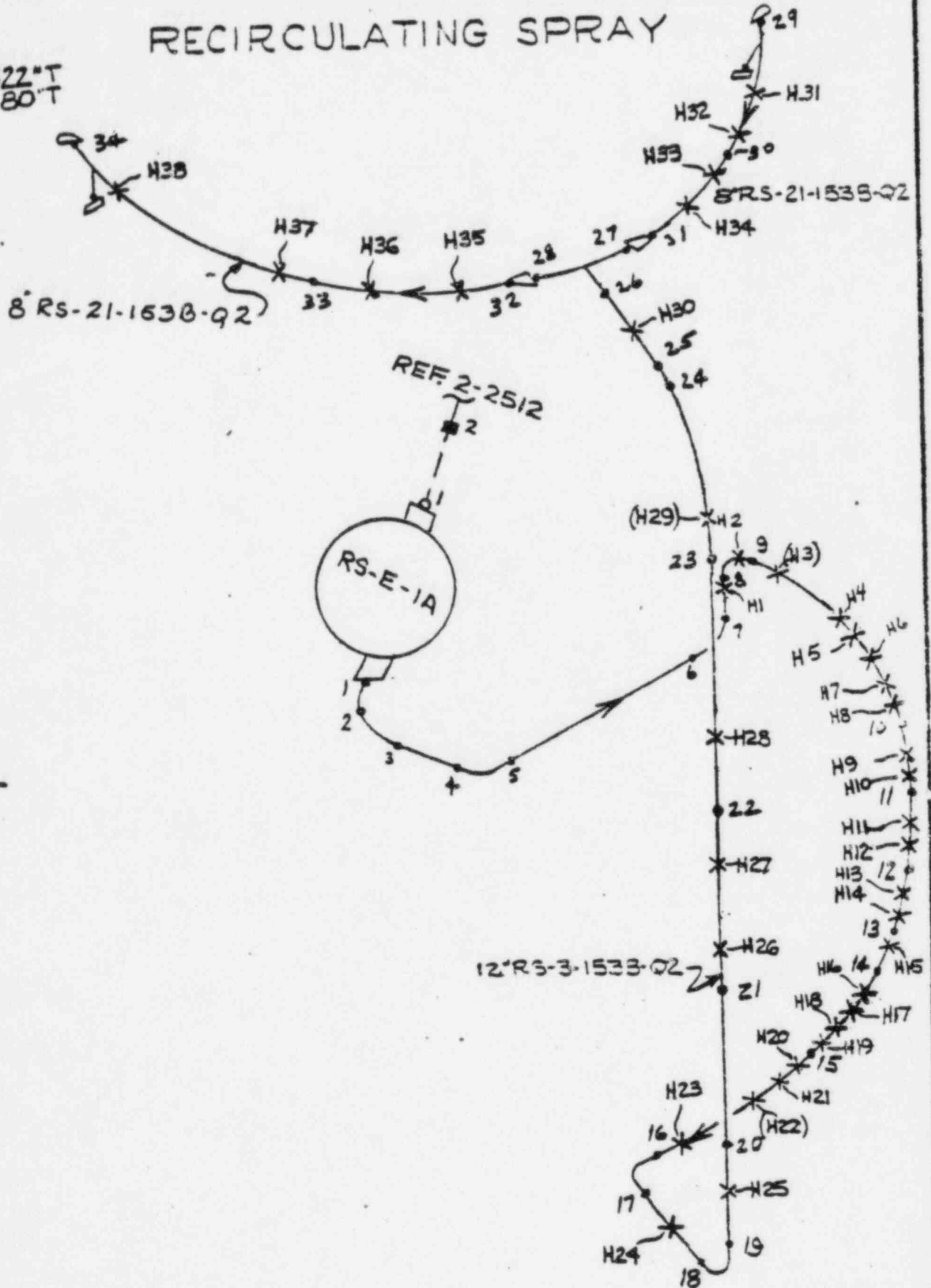
FORM #4



DLW-2-2522

RECIRCULATING SPRAY

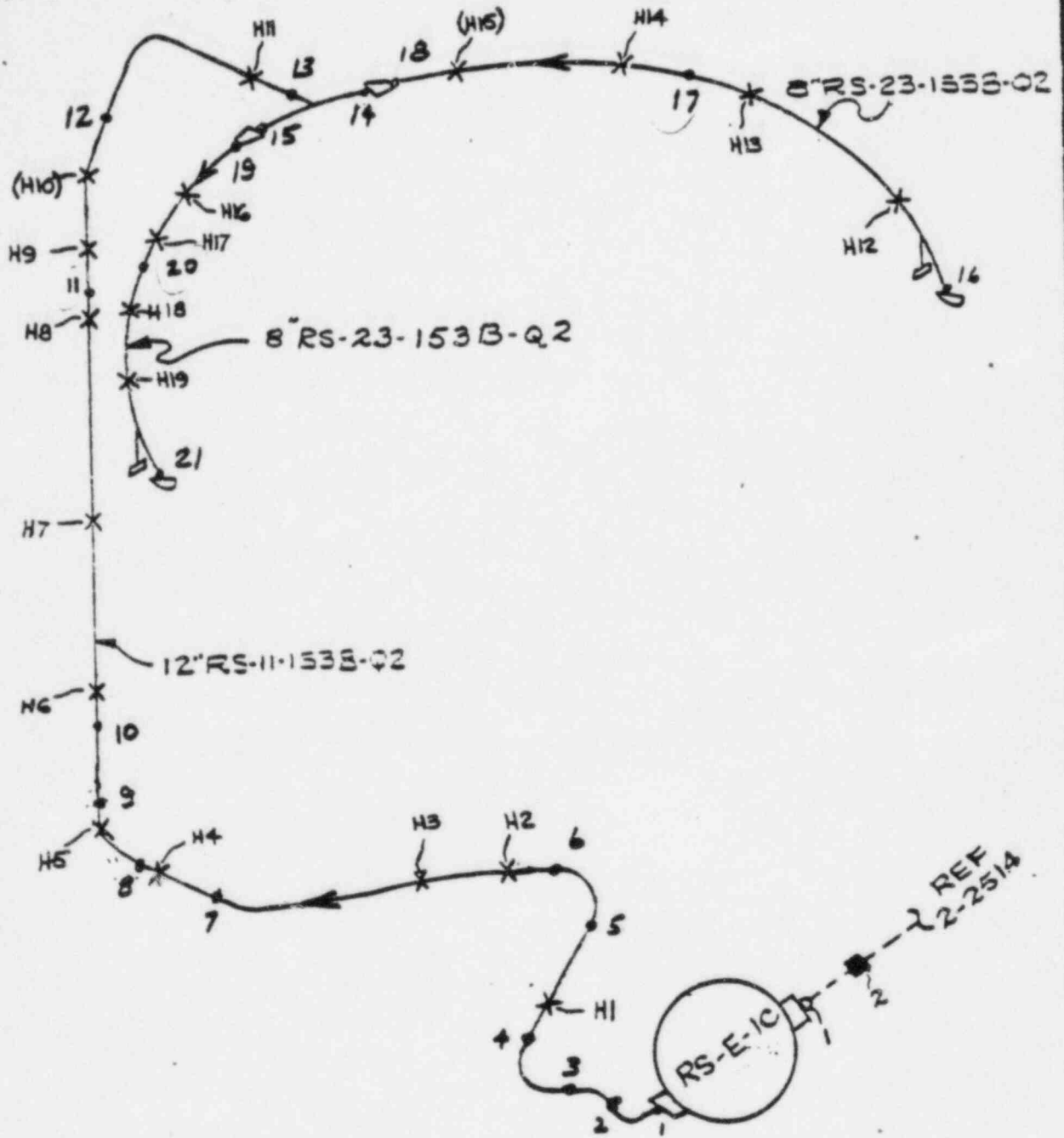
8" - 322° T
12" - 180° T



FORM 484

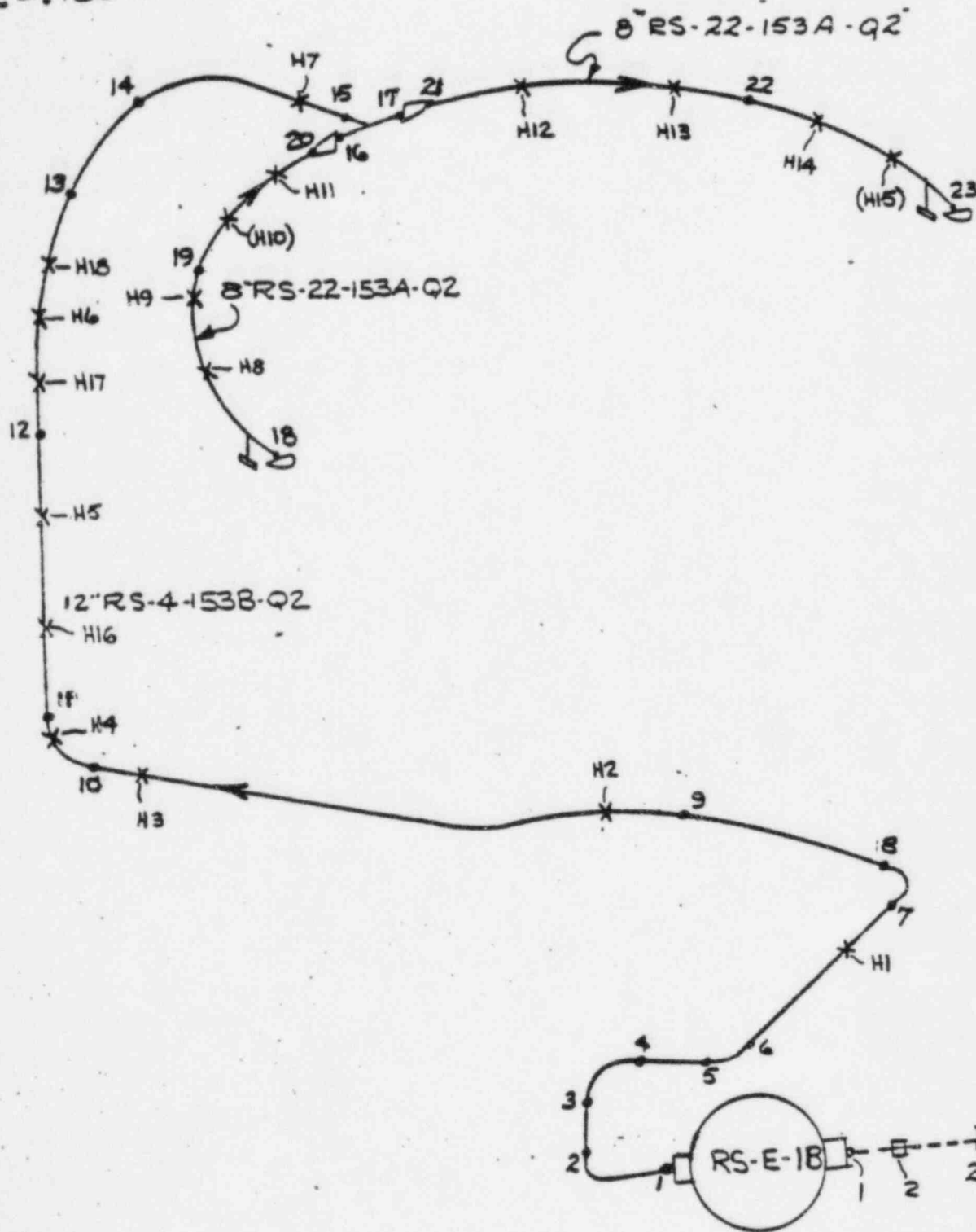
RECIRCULATING SPRAY

8"-.322" T
12"-.180" T



RECIRCULATING SPRAY

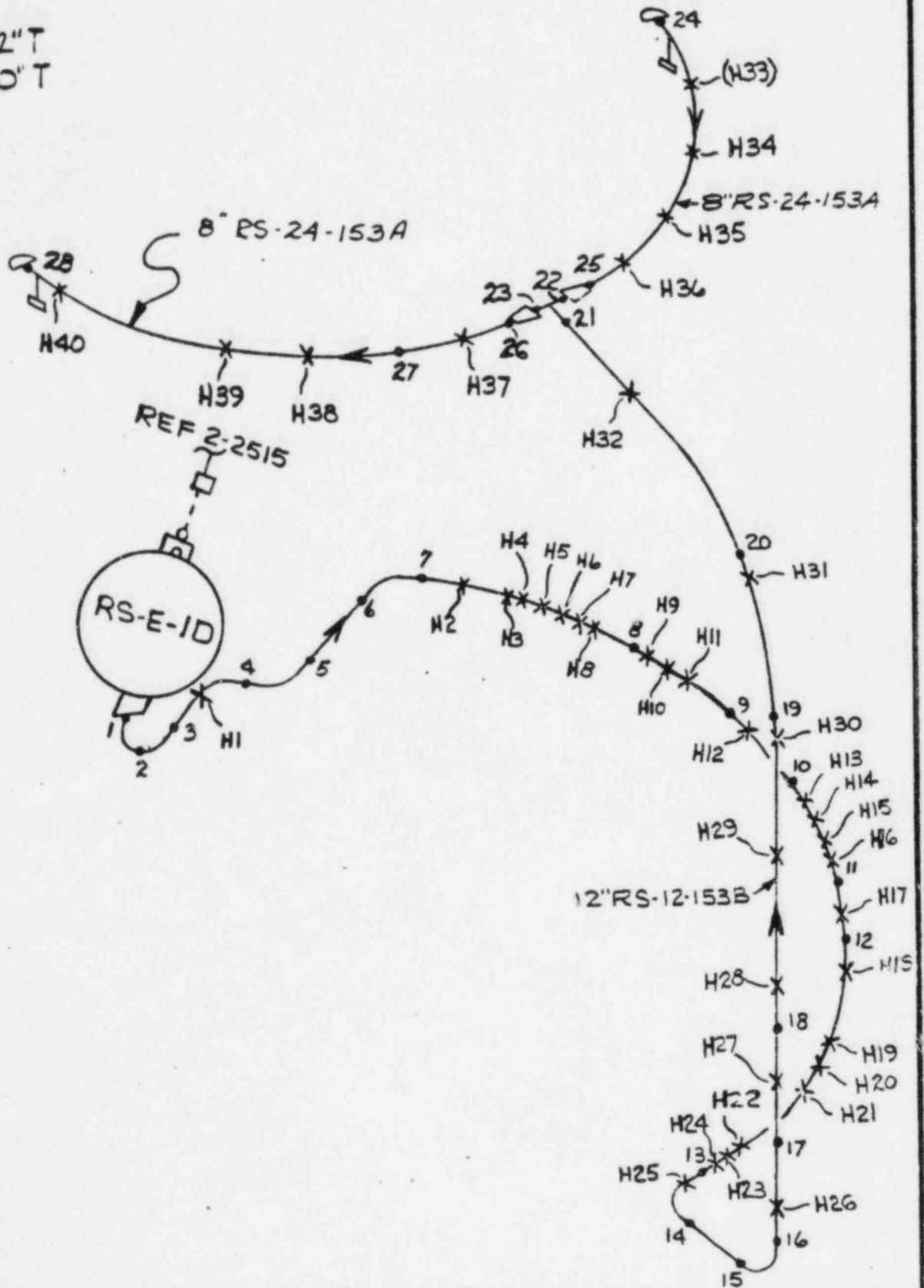
8"-.322" T
12"-.180" T



FORM 48447

RECIRCULATING SPRAY

8"-.322" T
12"-.180" T



FORM 484

DLW-2-2600

PIPING PRESSURE RETAINING BOLTING

ITEM NO.	FLANGE NO.	QUANTITY	DLW NO.	REMARKS
1	Flange #1	10S & 20N	2-2310	Stud Dia. over 1"
2	Flange #2	10S & 20N	2-2310	Stud Dia. over 1"
3	Flange #3	10S & 20N	2-2310	Stud Dia. over 1"
4	Flange #4	10S & 20N	2-2310	Stud Dia. over 1"
5	Flange #1	10S & 20N	2-2311	Stud Dia. over 1"
6	Flange #2	10S & 20N	2-2311	Stud Dia. over 1"
7	Flange #3	10S & 20N	2-2311	Stud Dia. over 1"
8	Flange #4	10S & 20N	2-2311	Stud Dia. over 1"
9	FT-605	16S & 32N	2-2312	Stud Dia. over 1"
10	Flange #1		2-2111	Stud Dia. over 1"
11	Flange #2		2-2111	Stud Dia. over 1"
12	Flange #3		2-2111	Stud Dia. over 1"
13	Flange #4		2-2111	Stud Dia. over 1"
14	Flange #5		2-2111	Stud Dia. over 1"
15	Flange #1		2-2121	Stud Dia. over 1"
16	Flange #2		2-2121	Stud Dia. over 1"
17	Flange #3		2-2121	Stud Dia. over 1"
18	Flange #4		2-2121	Stud Dia. over 1"
19	Flange #5		2-2121	Stud Dia. over 1"
20	Flange #1		2-2131	Stud Dia. over 1"
21	Flange #2		2-2131	Stud Dia. over 1"
22	Flange #3		2-2131	Stud Dia. over 1"
23	Flange #4		2-2131	Stud Dia. over 1"
24	Flange #5		2-2131	Stud Dia. over 1"

() Indicates Welded Supports

DLW 2-2700

HANGERS & SUPPORTS

ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S
1	2-2110	(H1)	30	2-2220	H3	58	2-2311	(H5)
2		(H2)	30A		H4	59		H6
3		(H3)	31	2-2230	(H1)	60		(H7)
4		(H4)	32		H2	61		(H8)
5		(H5)	33		(H3)	62		H9
6		(H6)	34		H4	63		H10
7		(H7)	34A		H5	64		H11
			34B		H6	65	2-2312	(H1)
			35	2-2310	(H1)	66		H2
9	2-2111	(H1)	36		(H2)	67		(H3)
10	2-2120	(H1)	37		(H3)	68		H4
11		(H2)	38		(H4)	69		(H5)
12		(H3)	39		H5	70		H6
12A		H4	40		(H6)	71		H7
13	2-2121	(H1)	41		(H7)	72		(H8)
14	2-2130	(H1)	42		H8	73		H9
15		(H2)	43		(H9)	74		H10
16		(H3)	44		(H10)	75		H11
17		(H4)	45		H11	76		H12
18		(H5)	46		(H12)	77		H13
19	2-2131	(H1)	47		H13	78		H14
20	2-2210	H1	48		(H14)	79		H15
21		(H2)	49		(H15)	80		H16
22		(H3)	50		(H16)	81		H17
23		(H4)	51		(H17)	82		H18
24		(H5)	52		H18	83		(H19)
25		(H6)	53		(H19)	84		H20
26		H7	54	2-2311	H1	85	2-2410	(H1)
27		H8	55		H2	86		H2
28	2-2220	H1	56		(H3)	87		(H3)
29		(H2)	57		H4	88		H4

Sheet 1 of 5

() Indicates Welded Supports

DLW 2-2700

HANGERS & SUPPORTS

ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S
89	2-2410	(H5)	121	2-2412	H3	153	2-2413	H15
90		H6	122		(H4)	154		H16
91		H7	123		(H5)	155		H17
92		(H8)	124		H6	156		(H18)
93		H9				157		(H19)
94		H10	126		(H8)	158	2-2501	H1
95		H11	127		H9	159	2-2502	H1
96		(H12)	128		(H10)	160		H2
97		H13	129		H11	161		H3
98		H14	130		H12	162		H4
99		H15	131		(H13)	163		H5
100		(H16)	132		H14	164		H6
101		H17	133		(H15)	165		H7
102		H18	134		H16	166		H8
103		H19	135		H17	167		H9
104		H20	136		H18	168		H10
105	2-2411	H1	137		(H19)	169		H11
106		H2	138		(H20)	170		(H12)
107		H3	139	2-2413	H1	171		H13
108		H4	140		H2	172		H14
109		(H5)	141		(H3)	173		(H15)
110		H6	142		H4	174		H16
111		H7	143		H5	175	2-2503	(H1)
112		H8	144		H6	176		H2
113		(H9)	145		H7	177		H3
114		H10	146		H8	178		H4
115		H11	147		H9	179		H5
116		(H12)	148		H10	180		H6
117		H13	149		H11	181		H7
118		H14	150		(H12)	182		H8
119	2-2412	H1	151		H13	183		(H9)
120		H2	152		H14			

Sheet 2 of 5

() Indicates Welded Supports

DLW 2-2700

HANGERS & SUPPORTS

ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S		
184	2-2504	H1	215	2-2512	H3	246	2-2516	(H3)		
185		H2	216		(H4)	247		H4		
186		(H3)	217		H5	248		H5		
187		(H4)	218		H6	249		(H6)		
188		2-2506	H1		219	(H7)		250	--	
189	2-2507	(H1)	220	2-2513	(H1)	251	--			
190		H2	221		(H2)	252	(H9)			
191		H3	222		(H3)	253	H10			
192		H4	223		H4	254	H11			
193		H5	224		H5	255	H12			
194		H6	225		H6	256	H13			
195		(H7)	226		(H7)	257	H14			
196		H8	227		2-2514	(H1)	258	2-2517	H15	
197		H9	228			--	259		H1	
198		H10	229			H3	260		H2	
199		H11	230			H4	261		H3	
200		H12	231			H5	262		H4	
201		H13	232			H6	263		H5	
202		H14	233			H7	264		2-2518	H1
203		H15	234			(H8)	265			H2
204		H16	235			H9	266			H3
205		2-2508	H17			236	2-2515		(H1)	267
206	(H18)		237	(H2)	268	H5				
207	(H1)		238	H3	269	H6				
208	H2		239	(H4)	270	H7				
209	(H3)		240	H5	271	H1				
210	2-2509		H1	241	H6	272		(H2)		
211	2-2510		H1	242	H7	273		(H3)		
212			H2	243	H8	274		H4		
213	2-2512	(H1)	244	2-2516	H1	275	H5			
214		(H2)	245		(H2)	276	H6			

Sheet 3 of 5

() Indicates Welded Supports

DLW 2-2700

HANGERS & SUPPORTS

ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S
277	2-2519	(H7)	308	2-2522	H4	339	2-2522	H35
278		--	309		H5	340		H36
279		--	310		H6	341		H37
280		(H10)	311		H7	342		H38
281		H11	312		H8	343	2-2523	H1
282		--	313		(H9)	344		H2
283		H13	314		(H10)	345		H3
284		H14	315		H11	346		H4
285		H15	316		H12	347		H5
286		H16	317		H13	348		H6
287		(H17)	318		H14	349		H7
288		H18	319		H15	350		H8
289		H19				351		H9
290	2-2520	H1	321		H17	352		(H10)
291		H2	322		H18	353		H11
292		H3	323		(H19)	354		H12
293		H4	324		H20	355		H13
294		H5	325		(H21)	356		H14
295	2-2521	H1	326		(H22)	357		(H15)
296		(H2)	327		H23	358		H16
297		(H3)	328		H24	359		H17
298		H4	329		H25	360		H18
299		H5	330		H26	361		H19
300		H6	331		H27	362	2-2524	H1
301		(H7)	332		H28	363		H2
302		H8	333		(H29)	364		H3
303		(H9)	334		H30	365		H4
304		(H10)	335		H31	366		H5
305	2-2522	H1	336		H32	367		H6
306		H2	337		H33	368		H7
307		(H3)	338		H34	369		H8

Sheet 4 of 5

() Indicates Welded Supports

DLW 2-2700

HANGERS & SUPPORTS

ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S	ITEM NO.	SKETCH	H&S
370	2-2524	H9	402	2-2525	H23			
371		(H10)	403		H24			
372		H11	404		H25			
373		H12	405		H26			
374		H13	406		H27			
375		H14	407		H28			
376		(H15)	408		H29			
377		H16	409		H30			
378		H17	410		H31			
379		H18	411		H32			
380	2-2525	H1	412		(H33)			
381		H2	413		H34			
382		H3	414		H35			
383		H4	415		H36			
384		H5	416		H37			
385		H6	417		H38			
386		H7	418		H39			
387		H8	419		H40			
388		H9						
389		H10						
390		H11						
391		H12						
392		H13						
393		H14						
H4		H15						
395		H16						
396		H17						
397		H18						
398		H19						
399		H20						
400		H21						
401		H22						

Sheet 5 of 5

1/8/82

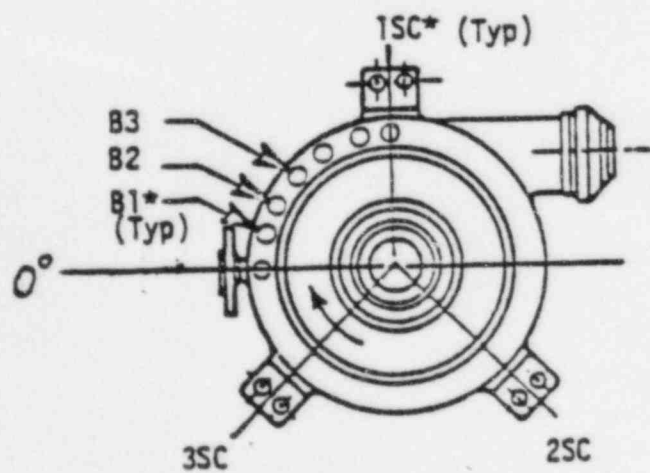
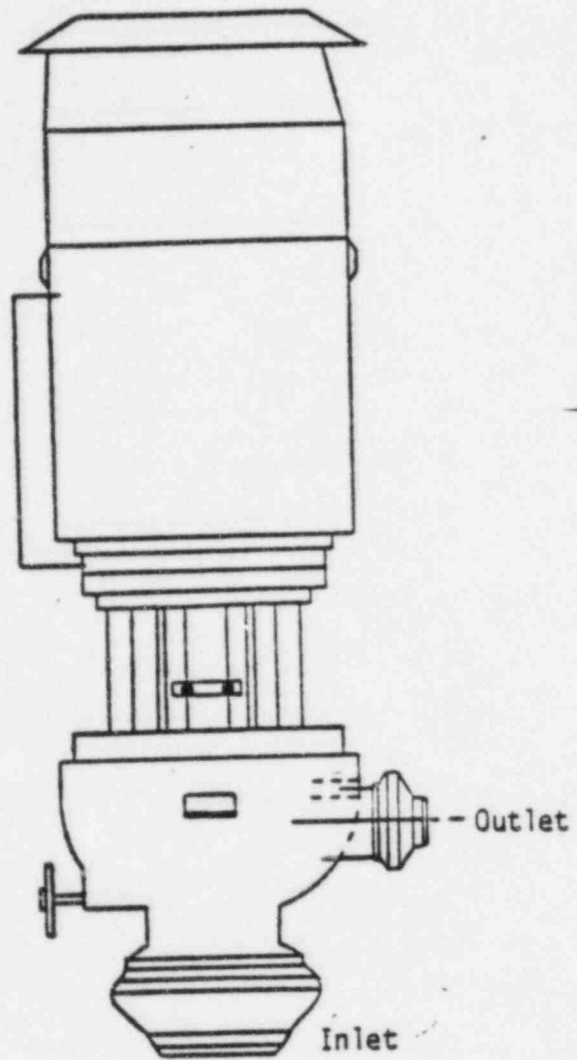
DLW-2-3100

ILLUSTRATIVE ONLY

RESIDUAL HEAT REMOVAL PUMPS

Bolting : 24 - 1.125" Dia.
Supports: 3 Integrally Cast

* Number is preceded by
(1-) or (2-) as applicable.



Zero reference centerline of pump marked 0°

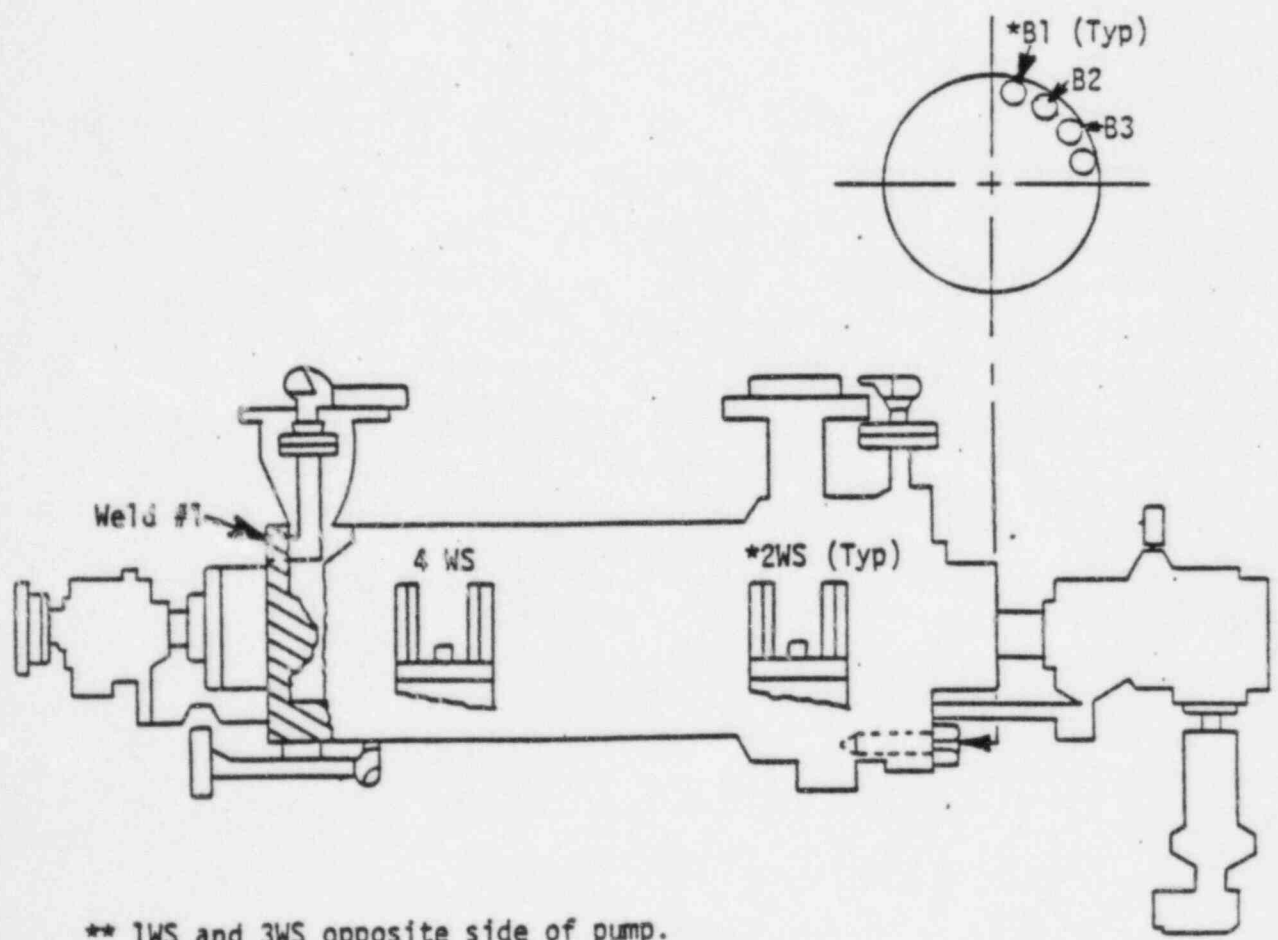
1/8/82

CENTRIFUGAL CHARGING PUMPS DLW-2-3110

Material: SA-276
Bolting : 16 - 1.125" Dia.
Supports: 4 - Integrally Welded

* Number is preceded by (1-), (2-) or (3-) as applicable.

Weld 1 (pump casing weld) not accessible for examination.
See AMD. 22



** 1WS and 3WS opposite side of pump.
Zero reference centerline of pump bolting

Illustrative Only

DLW 2-3120

LOW HEAD SIS PUMP (2)

(Inside Containment)

Casing Welds: #1, #2, #3, & #4

Dia: 10"

Circ: 33.77"

Matl: *

Thick: *

Bolting:

Welded Supports: *

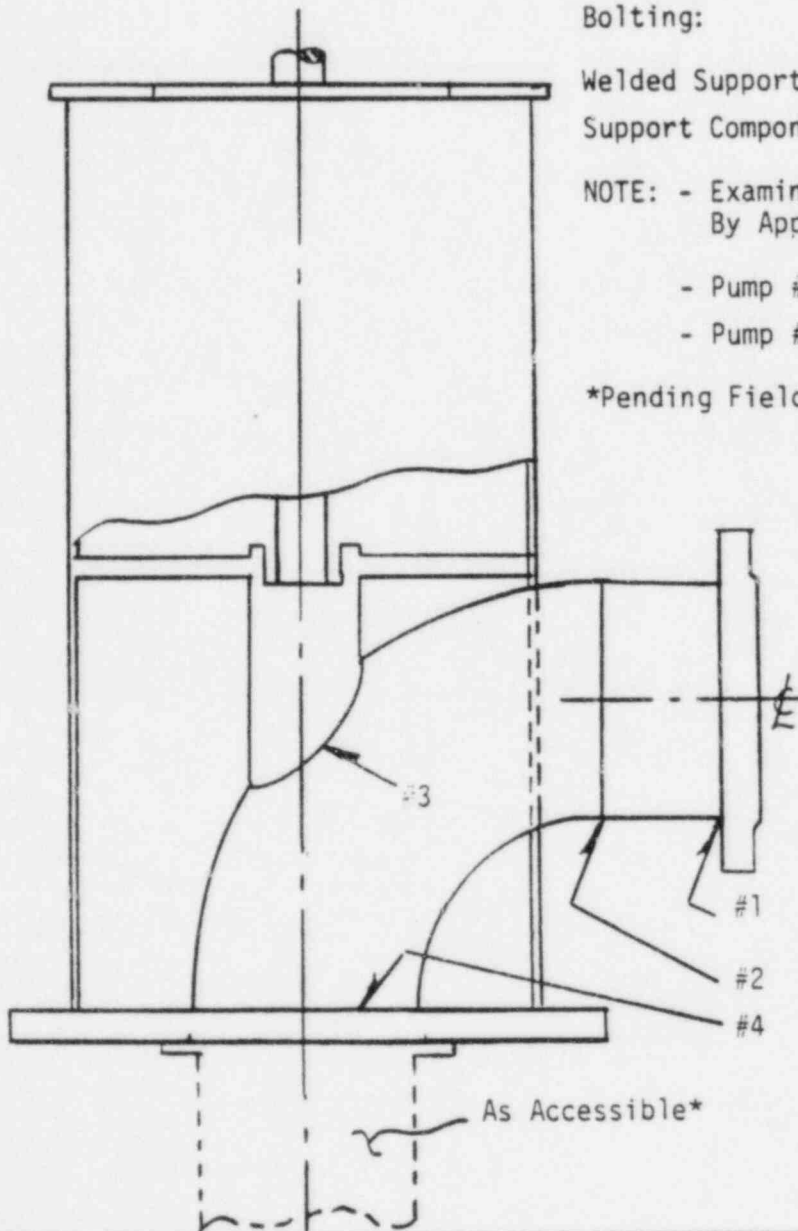
Support Components: *

NOTE: - Examination Ident. Preceded
By Appropriate Pump Ident.

- Pump #1 = SI-P-1A

- Pump #2 = SI-P-1B

*Pending Field Verification

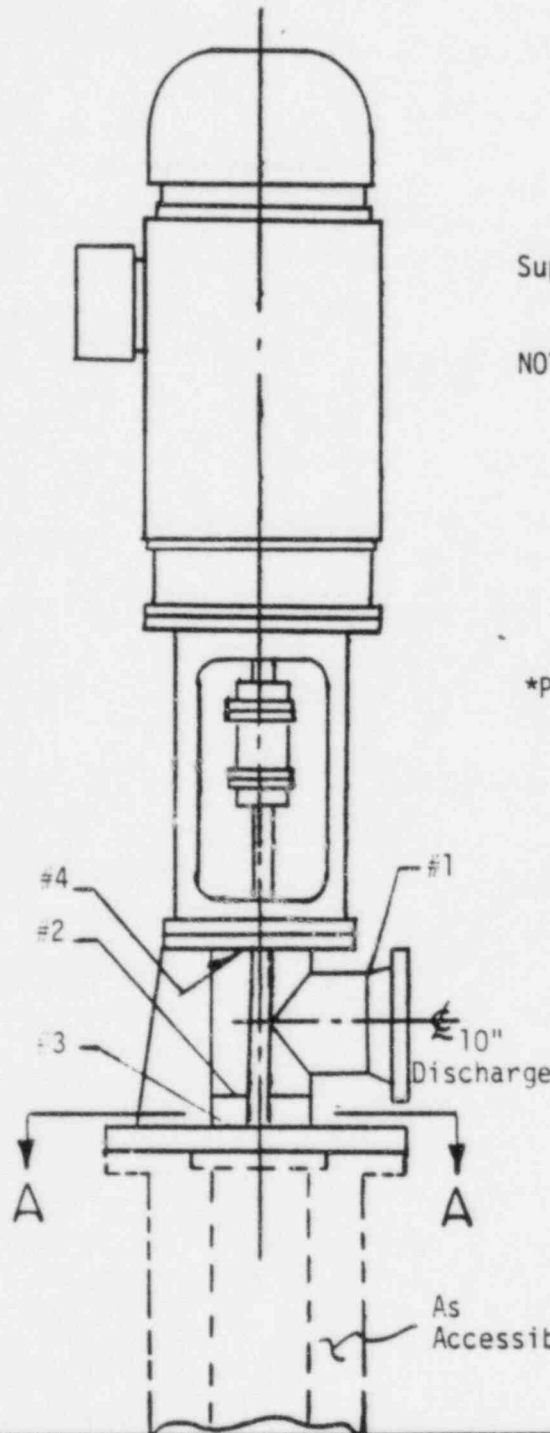


Illustrative Only

DLW2-3130

RECIRCULATION SPRAY PUMP (2)

(Outside Containment)

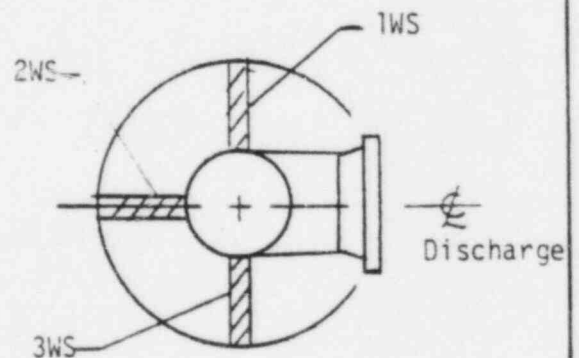


Casing Welds: #1, #2, #3, & #4
Dia: 10"
Circ: 33.77"
Matl: A 351 CF8
Thick: *
Bolting: Discharge - 7/8" Dia.
Suction - N/A

Welded Supports: 3
Support Components: No Access

NOTE: - Examination Ident. preceded
by Appropriate Pump Ident.
- Pump #1 = RS-P-2A
- Pump #2 = RS-P-2B

*Pending Field Verification



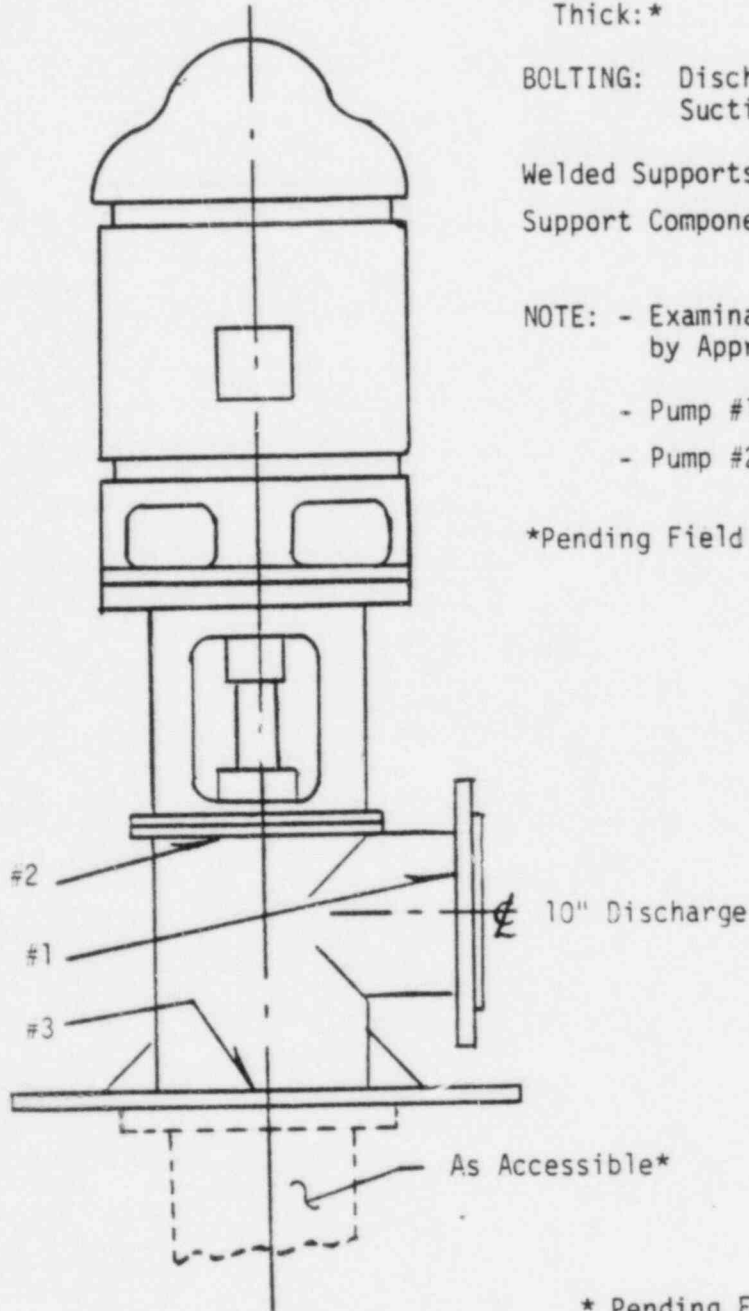
VIEW A-A

Illustrative Only

DLW2-3140

RECIRCULATION SPRAY PUMP (2)

(Inside Containment)



CASING WELDS: #1, #2, & #3

Dia.: 10"

Circ.: 33.77"

Matl.: *

Thick: *

BOLTING: Discharge 7/8" Dia.
Suction N/A

Welded Supports: *

Support Components: *

NOTE: - Examination Ident. Preceded
by Appropriate Pump Ident.

- Pump #1 = RS-P-1A

- Pump #2 = RS-P-1B

*Pending Field Verification

* Pending Field Verification

VALVE BODIES & DLW-2-4110						
VALVE PRESSURE RET. BOLTING						
ITEM No.	VALVE No.	QUANTITY BOLTING	DLW SKETCH	MANUFACTURER	DIA.	REMARKS
1	NRV-MS101A		2-2111		32"	
2	NRV-MS101B		2-2121		32"	
3	NRV-MS101C		2-2131		32"	
4	TV-MS101A		2-2111		32"	
5	TV-MS101B		2-2121		32"	
6	TV-MS101C		2-2131		32"	
7	PCV-MS101A		2-2111		6"	
8	PCV-MS101B		2-2121		6"	
9	PCV-MS101C		2-2131		6"	STUD
10	SV-MS101A		2-2111		6"	OVER
11	SV-MS102A		2-2111		6"	1"
12	SV-MS103A		2-2111		6"	DIA.
13	SV-MS104A		2-2111		6"	
14	SV-MS105A		2-2111		6"	
15	SV-MS101B		2-2121		6"	
16	SV-MS102B		2-2121		6"	
17	SV-MS103B		2-2121		6"	
18	SV-MS104B		2-2121		6"	
19	SV-MS105B		2-2121		6"	
20	SV-MS101C		2-2131		6"	
21	SV-MS102C		2-2131		6"	
22	SV-MS103C		2-2131		6"	
23	SV-MS104C		2-2131		6"	
24	SV-MS105C		2-2131		6"	
25	156A		2-2210		16"	
26	156B		2-2220		16"	
27	156C		2-2230		16"	
28	V-1		2-2310		14"	
29	V-2		2-2310		14"	
30	V-3		2-2310		10"	
31						
32	V-4		2-2310		10"	
33	V-5		2-2310		10"	
34	V-6		2-2310		10"	
35	V-7		2-2310		10"	
36	V-8		2-2310		10"	
37	V-9		2-2311		10"	
38	V-10		2-2311		10"	
39	V-605		2-2311		12"	
40	V-758		2-2311		12"	
41	V-14		2-2312		6"	
42	CH-19		2-2410		6"	
43	CH-20		2-2410		6"	
44	CH-21		2-2410		6"	
45	115D		2-2410		8"	

VALVE BODIES & DLW-2-4110

VALVE PRESSURE RET. BOLTING

Item No.	VALVE No.	QUANTITY BOLTING	DLW SKETCH	MANUFACTURER	DIA.	REMARKS
46	115B		2-2410		8"	
47	CH-146		2-2411		6"	
48	CH-147		2-2411		6"	
49	CH-148		2-2411		6"	
50	SI-13		2-2501		6"	
51	SI-14		2-2501		6"	
52	SI-865A		2-2508		12"	
53	SI-865B		2-2509		12"	
54	SI-865C		2-2510		12"	
55	SI-890A		2-2516		10"	
56	RS-158		2-2517		6"	
57	RS-160		2-2518		6"	
58	SI-890B		2-2519		10"	
59	SI-890C		2-2520		10"	