

ATTACHMENT A

ASME SECTION XI COMPONENT TEST PROGRAM

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT 2

The Component Testing Program shall be conducted in accordance with subsections IWB, IWC, and IWD, Section XI of the 1977 Edition of the ASME Boiler and Pressure Vessel Code through the Summer, 1978 Addenda, except for specific Relief Request in accordance with 10CFR50.55(g) (5)(iii) which are identified in Table 1. H. B. Robinson Unit 2 piping systems and associated components were designed and fabricated before Section XI examination requirements were formalized. Therefore, examinations for this program will be performed to the extent practical. Major limiting features which have been identified to date are noted in the comments column on the data sheets.

The interval for which this Component Testing Program is applicable begins on March 7, 1981, and ends on March 7, 1991.

The Component Testing Program was developed employing the classification guidelines contained in 10CFR50.2(V) for Quality Group A and Regulatory Guide 1.26, Revision 2 for Quality Groups B and C along with ANSI N18.2, 1973 and N18.2a, 1975. Quality Groups A, B, and C are the same as ASME Classes 1, 2, and 3. Successive inspections for the Component Testing Program will be performed utilizing Table IWB-2412-1, Table IWC-2412-1, and Table IWD-2500-1 of Section XI of the ASME Code.

The list of drawings identifies the drawings used to develop the system classification for the Component Testing Program. These drawings were transmitted by letter on March 10, 1981.

Welds in the residual heat removal and emergency core cooling system are not included in the 1977 Edition, through the 1978 addenda of the ASME Code, Section XI Table IWC-2500-1. These systems will be inspected by reference to 10CFR50.55a(b)(2)(iv) which invokes the 1974 Edition and addenda through the Summer 1975 of Section XI of the ASME Code.

ATTACHMENT A

TABLE 1

H. B. ROBINSON UNIT 2

1. Specific Relief Request:

Examination categories B-J, C-B, C-F require certain examinations to be surface and volumetrically inspected.

Applicable to:

Category B-J, 4 inches and greater circumferential welds and longitudinal welds, also branch pipe connection welds greater than 2 inches in diameter. Category C-B nozzles in vessels over 1/2 inches in nominal thickness. Category C-F pressure retaining piping welds over 0.375 inch nominal wall thickness, both circumferential and longitudinal welds.

In Lieu of Test:

The welds will receive either a full volumetric or a surface and volumetric examination where applicable.

Justification:

The volumetric examination of the total weld is a more demanding examination. Current requirements call for a surface examination and volumetric examination of the lower 1/3 "T" of the weld. By allowing the use of either method, we contend that we are not decreasing the integrity of our In-service Inspection Program.

2. Specific Relief Request:

Basic calibration blocks shall contain circumferential and longitudinal notches in accordance with Appendix III-3430.

Applicable to:

Calibration reflectors to establish a primary reference response of the equipment and to construct a distance-amplitude correction curve.

In Lieu of Test:

Use of calibration block with drilled holes in accordance with Section XI of the 1974 Edition of the ASME Boiler and Pressure Vessel Code through the Summer, 1975 Addendum.

Justification:

Primary reference can be determined within the required guidelines using a basic calibration block as described in the 1975 Edition of the ASME Boiler and Pressure Vessel Code.

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL-101, 101A, B, C

Flow Diagram No. 5379-1971 SH 1 of 2

Coordinates H-9

System REACTOR COOLANT

Description REACTOR VESSEL

Main Flow Path Line Size 24", 27.5"

Operating Pressure 2235

Operating Temperature 611°

Line Size \_\_\_\_\_ Material Type ASTM A302B Material Thickness \_\_\_\_\_

Pressure Test Category B-P

Pressure Test Item No. B15.10, B15.11

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
LOWER SHELL TO INTERMEDIATE SHELL CIRC. WELDS		B-A	B1.11	VOL.		
INTERMEDIATE SHELL COURSE LONG. WELDS		B-A	B1.12	VOL.		
17						
18						
19						
LOWER SHELL COURSE LONG. WELDS		B-A	B1.12	VOL.		
20						
21						
22						

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
CLOSURE HEAD MERIDIONAL WELDS 8 9 10 11 12 13		B-A	B1.22	VOL.		
UPPER SHELL COURSE TO INTERMEDIATE SHELL COURSE CIRC. WELD 4		B-A	B1.11	VOL.		
UPPER SHELL COURSE LONG. WELDS 14		B-A	B1.12	VOL.		
LOWER HEAD TO SHELL WELD 6		B-A	B1.21	VOL.		
CLOSURE HEAD TO FLANGE WELD 2		B-A	B1.40	VOL.		
VESSEL-TO-FLANGE WELD 3		B-A	B1.30	VOL.		
NOZZLE TO SHELL WELDS 30 31 32 33 34 35		B-D	B3.90	VOL.		
AIR WELDS						No repair Welds on Vessel

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
WELDS IN CRD HOUSING		B-O	B14.10	VOL. OR SUR.		
1						
2						
3						
CRD NOZZLES (PART. PEN.)		B-E	B4.13	VIS. VT-2		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
16						
CLOSURE STUDS (IN PLACE)		B-G-I	B6.20	VOL.		
1						
2						
3						
.						
.						
.						
48						
49						
50						

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
CLOSURE STUDS (REMOVED)		B-G-1	B6.30	SUR. & VOL.		
1						
2						
3						
.						
.						
48						
49						
50						
CLOSURE HEAD NUTS		B-G-1	B6.10	SUR.		
1						
2						
.						
.						
49						
50						
VESSEL FLANGE LIGAMENTS		B-G-1	B6.40	VOL.		
1						
2						
3						
.						
.						
48						
49						
50						
CLOSURE WASHERS		B-G-1	B6.50	VT-1		
1						
2						
3						
.						
.						
48						
49						
50						

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
CONOSEAL BOLTING		B-G-2	B7.10	VT-1		
A						
B						
C						
D						
E						
INTEGRALLY WELDED VESSEL SUPPORTS		B-H	B8.10	VOL. OR SUR.		
36						
37						
38						
39						
40						
41						
VESSEL INTERIOR		B-N-1	B13.10	VT-3		
CORE SUPPORT STRUCTURE		B-N-3	B13.13	VT-3		
CRD HOUSING WELDS		B-0	B14.10	VOL OR SUR.		
1						
2						
3						
LOWER HEAD MERIDIONAL WELDS		B-A	B1.22	VOL.		
23						
24						
25						
26						
27						
28						

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
NOZZLE INSIDE RADIUS SECTION  30 31 32 33 34 35  INSTRUMENTATION NOZZLES  1 2 3 4 5 6 7 8 11 12 13		B-D          BE	B3.100          B4.14	VOL.          VT-2		



H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL - 103  
 Flow Diagram No. 5379-1971 SH. 2 of 2 Coordinates F-14  
 System REACTOR COOLANT  
 Description PRESSURIZER  
 Main Flow Path Line Size 12", 4"  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size \_\_\_\_\_ Material Type STEEL-SA-302 GR.B Material Thickness \_\_\_\_\_  
 Pressure Test Category B-P Pressure Test Item No. B15.20, B15.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
CIRC. - SHELL WELD 6 7 8		NA	NA	NA		NOT APPLICABLE
ALL TO HEAD WELD 5 9		BB	B2.11	VOL.		
HEAD WELDS LONG. WELD		BB	B2.12	VOL.		
1 4 2 3		NA	NA	NA		
INTEGRALLY WELDED ATTACHMENTS 10		BH	B8.20	VOL. OR SUR. AS APPLICABLE		

ITEM TYPE ID/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
MANWAY BOLTS		B-G-2	B7.20	VISUAL VT-2		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
NOZZLE-TO- VESSEL WELDS						NOT APPLICABLE
WATER PENETRATION WELDS		B-E	B4.20	VT-2		
PRESSURE RETAINING BOLTING						NOT APPLICABLE

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL - 105  
 Flow Diagram No. 5379-1971 SH. 1 of 2 Coordinates A-3  
 System REACTOR COOLANT  
 Description STEAM GENERATOR A  
 Main Flow Path Line Size 29", 31"  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size \_\_\_\_\_ Material Type \_\_\_\_\_ Material Thickness 5.25" (lower head)  
 Pressure Test Category B-P Pressure Test Item No. B15.30, B15.31

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
TUBESHEET TO HEAD WELD		B-B	B2.40	VOLUMETRIC		
1						
HOT LEG MANWAY		B-G-2	B7.30	VISUAL VT-1		
TS						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
HEAD WELDS						NOT APPLICABLE

ITEM TYPE ID/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
COLD LEG MANWAY BOLTS		B-G-2	B7.30	VISUAL VT-1		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
NOZZLE-TO- SHELL WELDS						NON APPLICABLE
SSURE RETAINING BOLTING						NON APPLICABLE
INTEGRALLY WELDED SUPPORTS						NON APPLICABLE

R. D. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL - 105A  
 Flow Diagram No. 5379-1971 SH 1 of 2 Coordinates I-3  
 System REACTOR COOLANT  
 Description STEAM GENERATOR B  
 Main Flow Path Line Size 29", 31"  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size \_\_\_\_\_ Material Type \_\_\_\_\_ Material Thickness 5.25" (lower head)  
 Pressure Test Category B-P Pressure Test Item No. B15.30, B15.31

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
TUBESHEET TO HEAD WELD 1		B-B	B2.40	VOLUMETRIC		
HOT LEG MANWAY BOLTS		B-G-2	B7.30	VISUAL VT-1		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
HEAD WELDS						NOT APPLICABLE

ITEM TYPE ID/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
COLD LEG MANWAY BOLTS		B-G-2	B7.30	VISUAL VT-1		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
NOZZLE-TO- SHELL WELDS						NON APPLICABLE
SSURE RETAINING BOLTING						NON APPLICABLE
INTEGRALLY WELDED SUPPORTS						NON APPLICABLE

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL - 105B  
 Flow Diagram No. 5379-1971 SH 1 of 2 Coordinates E-17  
 System REACTOR COOLANT  
 Description STEAM GENERATOR C  
 Main Flow Path Line Size 29", 31"  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size \_\_\_\_\_ Material Type \_\_\_\_\_ Material Thickness 5.25" (lower head)  
 Pressure Test Category B-P Pressure Test Item No. B15.30, B15.31

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
TUBE SHEET TO HEAD WELD 1		B-B	B2.40	VOLUMETRIC		
HOT LEG MANWAY TS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		B-G-2	B7.30	VISUAL VT-1		
HEAD WELDS						NOT APPLICABLE

ITEM TYPE ID/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
COLD LEG MANWAY BOLTS		B-G-2	B7.30	VISUAL VT-1		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
NOZZLE-TO- SHELL WELDS						NON APPLICABLE
PRESSURE RETAINING BOLTING						NON APPLICABLE
INTEGRALLY WELDED SUPPORTS						NON APPLICABLE



H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL - 106  
 Flow Diagram No. 5379-685 SH 1 of 3 Coordinates D-5  
 System CHEMICAL AND VOLUME CONTROL SYSTEM  
 Description REGENERATIVE HEAT EXCHANGER  
 Main Flow Path Line Size 3"  
 Operating Pressure 2560 Operating Temperature 510°  
 Line Size \_\_\_\_\_ Material Type 304 or 316 SS Material Thickness .900t  
 Pressure Test Category B-P Pressure Test Item No. B15.40, B15.41

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
CIRC. WELD. 1 2 5 6		B-B	B2.51	VOL.		
NOZZLE-TO- VESSEL WELDS 13 14 15 16 17 18		B-D	B3.150	VISUAL & SURFACE		
NOZZLE INSIDE RADIUS SECTION 13 14 15 16 17 18		B-D	B3.160			NOT POSSIBLE

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL-144, 144A

Flow Diagram No. 5379-1971 SH 1 of 2

Coordinates E-3

System REACTOR COOLANT

Description REACTOR COOLANT PUMP A

Main Flow Path Line Size 31" I.D. 27½" I.D.

Operating Pressure 2235

Operating Temperature 555

Line Size \_\_\_\_\_ Material Type \_\_\_\_\_ Material Thickness \_\_\_\_\_

Pressure Test Category B-P Pressure Test Item No. B15.60, B15.61

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
PUMP CASING WELD A - Bottom B - Middle C - Top		B-L-1	B12.10	Sur. & Vol.		
PUMP CASING		B-L-2	B12.20	VISUAL VT-3		
COMPONENT SUPPORTS		B-K-2	B11.20	VISUAL VT-3 VISUAL VT-4		
A B C						
INTEGRALLY WELDED FEET		B-K-1	B10.20	VOL. OR SUR. AS APPLICABLE		
A B C						

ITEM TYPE ID/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
MAIN FLANGE BOLTS & STUDS IN PLACE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		B-G-1	B6.180	VOLUMETRIC		
MAIN FLANGE BOLTS & STUDS, REMOVED 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		B-G-1	B6.190	SURFACE & VOLUMETRIC		

ITEM TYPE D/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
MAIN FLANGE BOLTS & STUDS, REMOVED 20 21 22 23 24		B-G-1	B6.190	SURFACE & VOLUMETRIC		
MAIN FLANGE BOLTING 1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19 20 21 22 23 24		B-G-1	B6.200	VISUAL VT-1		
SEAL HOUSING BOLTS, STUDS, & NUTS 1 2 3 4 5 6 7 8		B-G-2	B7.60	VISUAL VT-1		

ITEM TYPE AND/OR NO.	EXEPNT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
SEAL HOUSING BOLTS, STUDS, & NUTS  12 13 14 15 16 17 18		B-G-2	B7.60	VISUAL VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL-144, 144A  
 Flow Diagram No. 5379-1971 SH 1 of 2 Coordinates L-3  
 System REACTOR COOLANT  
 Description REACTOR COOLANT PUMP B  
 Main Flow Path Line Size 31" I.D. 27½" I.D.  
 Operating Pressure 2235 Operating Temperature 555  
 Line Size \_\_\_\_\_ Material Type \_\_\_\_\_ Material Thickness \_\_\_\_\_  
 Pressure Test Category B-P Pressure Test Item No. B15.60, B15.61

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
PUMP CASING WELD A - Bottom B - Middle C - Top		B-L-1	B12.10	Sur. & Vol.		
PUMP CASING		B-L-2	B12.20	VISUAL VT-3		
COMPONENT SUPPORTS		B-K-2	B11.20	VISUAL VT-3 VISUAL VT-4		
A B C						
INTEGRALLY WELDED FEET		B-K-1	B10.20	VOL. OR SUR. AS APPLICABLE		
A B C						

ITEM TYPE ND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
MAIN FLANGE BOLTS & STUDS IN PLACE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 23 24		B-G-1	B6.180	VOLUMETRIC		
MAIN FLANGE BOLTS & STUDS, REMOVED 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		B-G-1	B6.190	SURFACE & VOLUMETRIC		

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
MAIN FLANGE BOLTS & STUDS, REMOVED 20 21 22 23 24		B-G-1	B6.190	SURFACE & VOLUMETRIC		
MAIN FLANGE BOLTING 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		B-G-1	B6.200	VISUAL VT-1		
SEAL HOUSING BOLTS, STUDS, & NUTS 1 2 3 4 5 6 7 8 9		B-G-2	B7.60	VISUAL VT-1		



ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
SEAL HOUSING BOLTS, STUDS, & NUTS  12 13 14 15 16 17 18		B-G-2	B7.60	VISUAL VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 1

Isometric No. CPL-144, 144A

Flow Diagram No. 5379-1971 SH 1 of 2

Coordinates C-18

System REACTOR COOLANT

Description REACTOR COOLANT PUMP C

Main Flow Path Line Size 31" I.D. 27½" I.D.

Operating Pressure 2235

Operating Temperature 555

Line Size \_\_\_\_\_ Material Type \_\_\_\_\_ Material Thickness \_\_\_\_\_

Pressure Test Category B-P

Pressure Test Item No. B15.60, B15.61

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
PUMP CASING WELD A - Bottom B - Middle Top		B-L-1	B12.10	Sur. & Vol.		
PUMP CASING		B-L-2	B12.20	VISUAL VT-3		
COMPONENT SUPPORTS		B-K-2	B11.20	VISUAL VT-3 VISUAL VT-4		
A B C						
INTEGRALLY WELDED FEET		B-K-1	B10.20	VOL. OR SUR. AS APPLICABLE		
A B C						

ITEM TYPE ID/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
MAIN FLANGE BOLTS & STUDS IN PLACE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		B-G-1	B6.180	VOLUMETRIC		
MAIN FLANGE BOLTS & STUDS, REMOVED 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		B-G-1	B6.190	SURFACE & VOLUMETRIC		

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
MAIN FLANGE BOLTS & STUDS, REMOVED 20 21 22 23 24		B-G-1	B6.190	SURFACE & VOLUMETRIC		
MAIN FLANGE BOLTING 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		B-G-1	B6.200	VISUAL VT-1		
SEAL HOUSING BOLTS, STUDS, & NUTS 1 2 3 4 5 6 7 8 9		B-G-2	B7.60	VISUAL VT-1		

ITEM TYPE D/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
SEAL HOUSING BOLTS, STUDS, & NUTS  12 13 14 15 16 17 18		B-G-2	B7.60	VISUAL VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-107

Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates SH. 1 - C16 center of loop  
System Reactor Coolant System

Description Reactor Coolant System "A", Line #'s - RC-3, RC-6, RC-9

Operating Pressure 2235 Operating Temperature 611, 555°

Line Size See comments Material Type A376 TP 316 Material Thickness

Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Nozzle-To-Safe End Welds		BF	B5.10	Sur. & Vol.		Line from steam generator to reactor coolant pump 31" I.D.
1DM						Line from reactor coolant pump to reactor vessel 27.5" I.D.
14DM			B.5.30			Line from reactor vessel to steam generator 29" I.D.
4DM						
5DM						
Pipe Weld		BJ	B9.11	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-107A  
 Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates SH. 1 C-3 center of loop  
 System Reactor Coolant System  
 Description Reactor Coolant System B, Line #'s - RC-2, RC-5, RC-8  
 Operating Pressure 2235 Operating Temperature 611, 555°  
 Line Size See comments Material Type A376 TP 316 Material Thickness \_\_\_\_\_  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Nozzle-To-Safe End Welds		BF	B5.10	Sur. & Vol.		Line from steam generator to reactor coolant pump 31" I.D.
1DM						
14DM						Line from reactor coolant pump to reactor vessel
4DM			B5.30			27.5" I.D.
5DM						Line from reactor vessel to steam generator
Pipe Weld		BJ	B9.11	Sur. & Vol.		29" I.D.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-107B  
 Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates SH. 1 - K-4 center of loop  
 System Reactor Coolant System  
 Description Reactor Coolant System C, Line #'s - RC-1, RC-4, RC-7  
 Operating Pressure 2235 Operating Temperature 611, 555°  
 Line Size See comments Material Type A376 TP 316 Material Thickness \_\_\_\_\_  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Nozzle-To-Safe End Welds		BF	B5.10	Sur. & Vol.		Line from steam generator to reactor coolant pump 31" I.D.
1DM						Line from reactor coolant pump to reactor vessel 27.5" I.D.
14DM			B5.30			Line from reactor vessel to steam generator 29" I.D.
4DM						
5DM						
Pipe Weld		BJ	B9.11	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-108

Flow Diagram No. 1971 Sh. 2 of 2

Coordinates I-14

System Safety Injection System

Description 14" & 12" Press. Surge Line, Line #'s - 12-RC-10

Operating Pressure 2235

Operating Temperature 555°

Line Size 14" & 12"

Material Type A376 TP 316 Material Thickness 1.125/1.250

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER TWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
CIRC. Pipe Weld  1A 2 3 4		BJ	B9.11	Sur. & Vol.		-Instrumentation Connection at 90°
Dissimilar Metal Weld  4DM		BF	B5.20	Sur. & Vol.		Limited - Welded lugs on nozzle
Pipe Support  A B C D E F		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Branch Connection  1BC		BJ	B9.31	Sur. & Vol.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-109

Flow Diagram No. 5379-1484

Coordinates SH1-L16

System Auxiliary Coolant System

Description Loop B 14" RHR Take-Off, Line #'s - 14-RC-15

Operating Pressure 350

Operating Temperature 380°

Line Size 14"

Material Type A376 TP 316 Material Thickness 1.250"

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection		BJ	B9.31	Sur. & Vol.		
1BC						
Weld		BJ	B9.11	Sur. & Vol.		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
Pipe Support		B-K-2	B11.10	Visual VT-3 Visual VT-4		
A						
B						
C						
Bolting-Valve 750		B-G-2	B7.70	VT-1		
1						
2						
3						
4						
5						
6						
7						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
8 9 10 11 12 13 14 15 16  Bolting-Valve 751  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-110

Flow Diagram No. 5379-1082 Sh. 2 of 2

Coordinates SH2-J-1

System Safety Injection System

Description Loop A 10" Accum. Dischg. Line, Line #'s - 10-S1-47, 10-RC-23

Operating Pressure 2235

Operating Temperature 47-555° , 23-611°

Line Size 10"

Material Type A376 TP 316 Material Thickness 1.00"

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection		BJ	B9.31	Sur. & Vol.		
1BC						
Weld		BJ	B9.11	Sur. & Vol.		
2						
3						
3A						
4						
5						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
Pipe Support		B-K-2	B11.10	Visual VT-3 Visual VT-4		
C						
D						
G						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Bolting-Valve 875D  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		B-G-2	B7.70	VT-1		
Bolting-Valve 875A  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-111

Flow Diagram No. 5379-1082 Sh. 2 of 2

Coordinates SH2-K-3

System Safety Injection System

Description Loop B 10" Accum. Dischg. Line, Line #'s - 10-S1-48, 10-RC-21

Operating Pressure 2235

Operating Temperature 555°

Line Size 10"

Material Type A376 TP 316 Material Thickness 1.00"

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection		BJ	B9.31	Sur. & Vol.		
1BC						
Weld		BJ	B9.11	Sur. & Vol.		
2						
3						
3A						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
Pipe Support		B-K-2	B11.10	Visual VT-3 Visual VT-4		
G						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Bolting-Valve 875B  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		B-G-2	B7.70	VT-1		
Bolting-Valve 875E  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-112  
 Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates SH2-M2  
 System Safety Injection System  
 Description Loop C 10" Accum. Dischg. Line, Line #'s - 10-S1-54, 10-RC-37  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 10" Material Type A376 TP 316 Material Thickness 1.00"  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection		BJ	B9.31	Sur. & Vol.		
1Bc						
Welds		BJ	B9.11	Sur. & Vol.		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
						-Tee Interference -Weld Patch and Intrados -Intrados



ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Supports  B C D E F		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Pipe Supports Welded  B-WS		B-K-1	B10.10	VOL. OR SURF. AS APPLICABLE		
Bolting-Valve 875C  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		B-G-2	B7.70	VT-1		
Bolting-Valve 875F  1 2 3 4 5 6 7 8 9 10 11 12 13		B-G-2	B7.70	VT-1		

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
14 15 16						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-113  
 Flow Diagram No. 5379-1082 SH2 Coordinates SH2-D-6  
 System Safety Injection System  
 Description Loop A-8" RHR Return, Line #'s - 8-S1-37  
 Operating Pressure 2235 Operating Temperature 555  
 Line Size 8 Material Type A376 TP 316 Material Thickness 0.718  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld						
1		BJ	B9.11	Sur. & Vol.		Inaccessible
Fltng - Valve		B-G-2	B7.70	VT-1		
876 A						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-114  
 Flow Diagram No. 5379-1082 SH2 Coordinates SH2-G-6  
 System Safety Injection System  
 Description Loop B-8" RHR Return, Line #'s - 8-S1-38  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 8" Material Type A376 TP 316 Material Thickness 0.718  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld 1 2 3		B-J	B9.11	Sur. & Vol.		Inaccessible, Pipe Interference Inaccessible
Pipe Support A		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Bolting Valve 876B 1 2 3 4 5 6 7 8 9 10 11 12		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-115  
 Flow Diagram No. 5379-1082 Sh. 2 Coordinates SH2-J-6  
 System Safety Injection System  
 Description Loop C-8" RHR Return, Line #'s - B-S1-39  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 8" Material Type A376 TP 316 Material Thickness 0.718  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld 1 2 3 4		BJ	B9.11	Sur. & Vol.		
Pipe Support A B		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Bolting - Valve 876C 1 2 3 4 5 6 7 8 9 10 11 12		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-116

Flow Diagram No. 1971 Sh. 2 of 2

Coordinates E-9

System Reactor Coolant System

Description Loop C-4" Spray Line, Line #'s - 4-RC-29

Operating Pressure 2235

Operating Temperature 555°

Line Size 4 Material Type A376 TP 316 Material Thickness 0.438

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connections						
1BC		BJ	B9.31	Sur. & Vol.		
Pipe Weld		BJ	B9.11			
2A						
2B						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
Pipe Support		B-K-2	B11.10	Visual VT-2 Visual VT-3		
D						
E						
H						
M						
N						
Q						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  T U V W Y		B-K-2	B11.10	Visual VT-3  Visual VT-4		
Pipe Support Welded  E-WS Q-WS		BK1	B10.10	Vol. or Sur. as Applicable		
Bolting - Valve 455B  1 2 3 4 5 6 7 8		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-116A  
 Flow Diagram No. 5379-1971 Sh. 1 & 2 Coordinates SH1 K8, SH-2 F-9  
 System Reactor Coolant System  
 Description Loop B-4" Spray Line, Line #'s - 4-RC-28  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 4 Material Type A376 TP 316 Material Thickness 0.438"  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection  1BC  Pipe Weld  1A 2 3 4 5 6 7  Pipe Supports  C P S W		BJ         B-K-2	B9.31         B11.10	Sur. & Vol.         Visual VT.3 Visual VT.4		
Pipe Support Welded  P-WS		B-K-1	B10.10	Vol. or Sur. As Applicable		Support Thickness Unknown



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-116B  
 Flow Diagram No. 5379-1971 Sh. 2 Coordinates SH2-D-9  
 System Reactor Coolant System  
 Description Loops B&C-4" Spray Line, Line #'s - 4-RC-30  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 4" Material Type A376 TP 316 Material Thickness 0.436  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld						
8		BJ	B9.11	Sur. & Vol.		-Limited by Valve Body
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
Dissimilar Metal Weld						
19 DM		BF	B5.20	Sur. & Vol.		
Pipe Support						
E		B-K-2	B11.10	Visual VT-3		
F				Visual VT-4		

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Bolting - Valve 455A  1 2 3 4 5 6 7 8		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-117  
 Flow Diagram No. 5379-1971 Sh. 2 of 2 Coordinates SH2-D-16  
 System Reactor Coolant System  
 Description 4" Pressure Relief Line, Line #'s - 4-RC-46  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 4" Material Type A376 T316 Material Thickness 0.438"  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1 2 3 4		BJ	B9.11	Sur. & Vol.		
Dissimilar Metal Weld  1 DM		BJ	B5.20	Sur. & Vol.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-117A

Flow Diagram No. 5379-1971 Sh. 2 of 2

Coordinates SH2 D-16

System Reactor Coolant System

Description 4" Pressure Relief Line,

Line #'s - 3-RC-54, 3-RC-54A

Operating Pressure 2235

Operating Temperature 555°

Line Size 4"

Material Type A376 TP 316

Material Thickness 0.438"

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		BJ	B9.11	Sur. & Vol.		
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
Bolting - Valve		B-G-2	B7.70	VT-1		
535						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Bolting - Valve 536 1 2 3 4 5 6 7 8 9 10 11 12		B-G-2	B7.70	VT-1		
Bolting - Valve 456 1 2 3 4 5 6		B-G-2	B7.70	VT-1		
Bolting - Valve 455-C 1 2 3 4 5 6		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-118  
 Flow Diagram No. 5379-1971 Sh. 2 of 2 Coordinates SH2 C12  
 System Reactor Coolant System  
 Description 4" Pressurized Safety Line, Line, #'s - 4-RC-42  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 4" Material Type A376 TP 316 Material Thickness 0.438"  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Dissimilar Metal Weld						
1 DM		BF	B5.20	Sur. & Vol.		
Pipe Weld						
1		BJ	B9.11	Sur. & Vol.		
2						
3						
4						
5						
6						
7						
8						
Bolting - Valve 551-A		B-G-2	B7.70	VT-1		
1						
2						
3						
4						
5						
6						
7						
8						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-118A

Flow Diagram No. 5379-1971 Sh. 2 of 2

Coordinates SH2 C14

System Reactor Coolant System

Description 4" Pressurized Safety Line, Line #'s - 4-RC-43

Operating Pressure 2235

Operating Temperature 555°

Line Size 4"

Material Type A376 TP 316 Material Thickness 0.438

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Dissimilar Metal Weld						
1DM		BF	B5.20	Sur. & Vol.		
Pipe Weld		BJ	B9.11	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
Bolting - Valve 551-B		B-G-2	B7.70	VT-1		
1						
2						
3						
4						
5						
6						
7						
8						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-118B

Flow Diagram No. 5379-1971 Sh. 2 of 2

Coordinates SH2 C-16

System Reactor Coolant System

Description 4" Pressurized Safety Line, Line # 4-RC-45

Operating Pressure 2235

Operating Temperature 555°

Line Size 4"

Material Type A376 TP 316

Material Thickness 0.438

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Dissimilar Metal Weld						
1DM		BF	B5.20	Sur. & Vol.		
Pipe Weld		BJ	B9.11	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
Bolting - Valve		B-G-2	B7.70	VT-1		
551C						
1						
2						
3						
4						
5						
6						
7						
8						



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-119  
 Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates SH1 G-3  
 System Reactor Coolant System  
 Description Loop-A-3" RTD Return Line, Line #'s - 3-RC-76  
 Operating Pressure 2235 Operating Temperature 555<sup>0</sup>  
 Line Size 3" Material Type A376 TP 316 Material Thickness 0.438"  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection						
1BC		BJ	B9.31	Sur. & Vol.		
Pipe Weld		BJ	B9.21	Sur.		
1A						
2						
3						
4						
5						
6						
7						
8						
Bolting - Valve		B-G-2	B7.70	VT-1		
560A						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Orifice Flange Bolting  1 2 3 4 5 6 7 8		B-G-2	B7.50	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-120

Flow Diagram No. 5379-1971 Sh. 1 of 2

Coordinates SH1 N-3

System Reactor Coolant System

Description Loop B-3" - RTD Return Line, Line #'s - 3-RC-77

Operating Pressure 2235 Operating Temperature 555°

Line Size 3" Material Type A376 TP316 Material Thickness 0.438

Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection						
1BC		BJ	B9.31	Sur. & Vol.		
Pipe Weld						
2		BJ	B9.21	Sur.		
3						
4						
5						
6						
7						
8						
9						
Bolting - Valve						
560B		B-G-2	B7.70	VT-1		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Orifice Flange Bolting  1 2 3 4 5 6 7 8		B-G-2	B7.50	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-121

Flow Diagram No. 5379-1971 Sh. 1 of 2

Coordinates SH1 A6

System Reactor Coolant System

Description Loop C-3" RTD Return Line, Line #'s - 3-RC-78

Operating Pressure 2235

Operating Temperature 555°

Line Size 3

Material Type A376 TP 316 Material Thickness 0.438"

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection						
1BC		BJ	B9.31	Sur. & Vol.		
Pipe Weld		BJ	B9.21	Sur.		
2						
3						
4						
5						
6						
7						
8						
Bolting - Valve		B-G-2	B7.70	VT-1		
560C						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Orifice Flange Bolting  1 2 3 4 5 6 7 8		B-G-2	B7.50	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-122

Flow Diagram No. 5379-685 Sh. 1 of 3

Coordinates SH1-D-2

System Chemical and Volume Control System

Description Loop A 3" ALT. Charging Line, Line #'s - 3-CH-15, 3-RC-28

Operating Pressure 2560

Operating Temperature 510°

Line Size 3" Material Type A376 T316 Material Thickness 0.438"

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection		BJ	B9.31	Sur. & Vol.		
1BC						
Weld		BJ	B9.21	Sur.		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  A B C D E F H J K L M N O P Q		BK-2	B11.10	Visual VT-3 Visual VT-4		
Pipe Support Welded  L-WS O-WS		BK-1	B10.10	VOL. OR SURF. AS APPLICABLE		Support Thickness Unknown
Flaring-Valve 312A  1 2 3 4 5 6 7 8 9 10 11 12		B-G-2	B7.70	VT-1		



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-122A  
 Flow Diagram No. 5379-685 Coordinates D-5  
 System Chemical and Volume Control System  
 Description Loop A 3" Alt. Charging Line, Line #'s - 3-CH-28  
 Operating Pressure 2560 Operating Temperature 510°  
 Line Size 3" Material Type A312-TP304 Material Thickness   
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		BJ	B9.21	Sur.		
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
40A						
40B						
41						
42						
43						
44						
45						
46						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  R U V W X Y Z		BK-2	B11.10	Visual VT-3 Visual VT-4		-Spring, Inaccessible
Pipe Support Welded  W-WS AA-WS		BK-1	B10.10	Vol. or Sur.		Support Thickness Unknown
Bolting-Valve 310A  1 2 3 4 5 6		B-G-2	B7.70	VT.1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-123

Flow Diagram No. 5379-685 Sh. 1 of 3

Coordinates Sh. 1 C-6

System Chemical and Volume Control System

Description Loop B 3" Changing Line (1 of 3), Line #'s - 3-CH-14

Operating Pressure 2560

Operating Temperature 130

Line Size 3"

Material Type A312-TP304

Material Thickness 0.438

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		BJ	B9.21	Sur.		
53						
54						
57						
58						
61						
62						
63						
63A						
64						
65						
66						
67						
68						
69						
69A						
70						
70A						
71						
72						
Socket Welds		BJ	B9.40	Surface		
51						
52						
55						
56						
59						
60						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  HH CC DD EE		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Bolting-Valve 312C  1 2 3 4 5 6 7 8 9 10 11 12		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-123A  
 Flow Diagram No. 5379-685 Sh. 1 of 3 Coordinates E-4  
 System Chemical and Volume Control System  
 Description Loop B 3" Change Line (2 of 3), Line #'s - 3-CH-15A  
 Operating Pressure 2560 Operating Temperature 510  
 Line Size 3" Material Type A376-TP316 Material Thickness 0.438  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  30 30A 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50		BJ	B9.21	Sur.		
Pipe Support O P		BK-2	B11.10	Visual VT-3 Visual VT-4		

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  Q R S T U V W X Z BB		BK-2	B11.10	Visual VT-3 Visual VT-4		
Pipe Support Welded  P-WS X-WS BB-WS		BK-2	B10.10	Vol or Sur. as Applicable		Support Thickness Unknown
Bolting-Valve 310B  1 2 3 4 5 6		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-124

Flow Diagram No. 5379-685 Sh. 1 of 3 Coordinates Sh. 1 - E-3

System Chemical and Volume Control System

Description Loop B 3" Chging Line 3 of 3, Line #'s - 3-CH-15A

Operating Pressure 2560 Operating Temperature 510

Line Size 3" Material Type A376-TP316 Material Thickness 0.438

Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion		BJ	B9.31	Sur. & Vol.		
1BC						
Pipe Weld		BJ	B9.21	Surface		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						-Pipe Interference (50% Scan)
16						-Pipe Interference (80% Scan)
17						
18						Intrados
19						Intrados
20						
21						Intrados
22						Intrados
23						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  24 25 26 26A 27 27A 28 28A 29 29A		BJ	B9.31	Sur. & Vol		
Pipe Supports  B D E El F G H I J K L M N		BK-2	B11.10	Visual VT-3 Visual VT-4		
Pipe Support Welded  B-WS J-WS		BK-1	B10.10	Vol. or Sur. as Applica- ble		Support Thickness Unknown
Bolting - Valve 312-B  1 2 3 4 5 6 7 8 9 10 11 12		B-G-2	B7.70	VT-1		



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-125

Flow Diagram No. 5379-1971 Sh. 1 of 2

Coordinates SH. 1- D7

System Reactor Coolant System

Description Loop A 2" Letdown Line, Line #'s - 2-CH-17

Operating Pressure 2350

Operating Temperature 555

Line Size 2

Material Type A376-TP316

Material Thickness 0.343

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion		BJ	B9.32	Sur.		
1BC						
Pipe Welds		BJ	B9.21	Sur.		
2						
3						
4						
5						
6						
7						
8						
9						
10						
Pipe Support		B-K-2	B11.10	Visual VT-3 Visual VT-4		
A						
Bolting - Valve		B-G-2	B7-70	VT-1		
309-D						
1						
2						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Bolting - Valve 460-A  1 2 3 4 5 6		B-G-2	B7.70	VT-1		
Bolting - Valve 460-B  1 2 3 4 5 6		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-126

Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates Sh. 1 F-2

System Reactor Coolant System

Description Loop A-2" Drain Line, Line #'s - 2-RC-40

Operating Pressure 2235 Operating Temperature 555

Line Size 2" Material Type A312-T316 Material Thickness 0.343

Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion		BJ	B9.32	Sur.		
1BC						
pe Weld		BJ	B9.21	Sur.		
2						
3						
4						
5						
6						
7						
Bolting - Valve 505-A		B-G-2	B7.70	VT-1		
1						
2						
Bolting - Valve 505-B		B-G-2	B7.70	VT-1		
1						
2						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-127  
 Flow Diagram No. 1971 Sh. 1 of 2 Coordinates M-2  
 System Reactor Coolant  
 Description Loop B - 2" Drain Line, Line #'s 2-RC-39  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 2" Material Type A312-T316 Material Thickness 0.343"  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion		BJ	B9.32	Surface		
1BC						
Pipe Weld		BJ	B9.21	Surface		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
Bolting-Valve 508A		B-G-2	B7.70	VT-1		
1						
2						
Bolting - Valve 508-B		B-G-2	B7.70	VT-1		
1						
2						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-128

Flow Diagram No. 5379-1971 Sh. 1 of 2

Coordinates Sh. 1 F-9

System Reactor Coolant System

Description Loop C-2" Drain Line, Line #'s - 2-RC-38

Operating Pressure 2235

Operating Temperature 555°

Line Size 2

Material Type A312-TP316

Material Thickness 0.343

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection		BJ	B9.32	Sur.		
1BC						
Weld		BJ	B9.21	Sur.		
2						
3						
4						
5						
6						
7						
Bolting - Valve						
515A		B-G-2	B7.70	VT-1		
1						
2						
Bolting - Valve						
515B		B-G-2	B7.70	VT-1		
1						
2						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-129

Flow Diagram No. 5379-1082 Sh. 2 of 2

Coordinates SH2-I4

System Safety Injection System

Description Loop S-2" Sis B.l.T. Line, Line #'s 2-S1-63

Operating Pressure 2235

Operating Temperature 555°

Line Size 2"

Material Type A376-TP316

Material Thickness 0.343

Pressure Test Category B-P

Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection		BJ	B9.32	Sur.		
1BC						
Welds		BJ	B9.21	Sur.		
1A						
1B						
2						
3						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-130  
 Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates Sh. 2 - K3  
 System Safety Injection System  
 Description Loop B-2" SIS B.I.T. Line, Line #'s - 2-SI-64  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 2 Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER TWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion		BJ	B9.32	Sur.		
1BC						
Pipe Welds		BJ	B9.21	Sur.		
1A						
1B						
2						
3						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-131  
 Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates Sh 2 - L2  
 System Safety Injection System  
 Description Loop C-2" - SIS B.l.T. Line, Line #'s - 2-SI-65  
 Operating Pressure 2235 Operating Temperature 555  
 Line Size 2 Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER TWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion		BJ	B9.32	Sur.		
1BC						
Pipe Welds		BJ	B9.21	Sur.		
2						
3						



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-132  
 Flow Diagram No. 5379-685 Sh. 1 of 3 Coordinates Sh. 1 - K-1  
 System Chemical and Volume Control System  
 Description Loop A 2" Seal Injection Line, Line #'s - 2-CH-8C  
 Operating Pressure 2560 Operating Temperature 150  
 Line Size 2" Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  1 2 3 4 4A 4B 4C 4D 5		BJ	B9.21	Sur.		
Orifice Flange Bolting  1 2 3 4		B-G-2	B7.50	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-133  
 Flow Diagram No. 5379-685 Sh. 1 of 3 Coordinates Sh. 1 - K6  
 System Chemical and Volume Control System  
 Description Loop B 2" Seal Injection Line, Line #'s - 2-CH-8B  
 Operating Pressure 2560 Operating Temperature 150  
 Line Size 2 Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1 2 2A 2B 3 3A 3B 4		BJ	B9.21	Sur.		
Orifice Flange Bolting  1 2 3 4		B-G-2	B7.50	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-134  
 Flow Diagram No. 5379-685 Sh. 1 of 3 Coordinates Sh. 1 - K-10  
 System Chemical and Volume Control System  
 Description Loop C 2" Seal Injection Line, Line #'s - 2-CH-8A  
 Operating Pressure 2560 Operating Temperature 150  
 Line Size 2 Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER TWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld 1 1A 1B 2 2A 3 3A 4 5		BJ	B9.21	Sur.		
Orifice Flange Bolting 1 2 3 4		B-G-2	B7.50	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-135  
 Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates Sh. 1 - D-14  
 System Reactor Coolant System  
 Description Loop A 2" Hotleg RTD. Bypass, Line #'s - 2-RC-82  
 Operating Pressure 2235 Operating Temperature 555<sup>0</sup>  
 Line Size 2" Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		BJ	B9.21	Sur.		
1						
2						
3						
4						
5						
6						
7						
7A						
7B						
8						
8A						
9						
10						
11						
12						
12A						
13						
14						
15						
16						
17						
18						
19						
20						
21						
21A						
22						
23						
24						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Supports  B C D		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Orifice Flange Bolting  1 2 . . 7 8		B-G-2	B7.50	VT-1		
Bolting - Valve 554A  1 2		B-G-2	B7.70	VT-1		
Bolting - Valve 556A  1 2		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-136  
 Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates Sh. 1 E-3  
 System Reactor Coolant System  
 Description LP.A 2"X1½" Coldleg RTD. BYP., Line #'s - 2-RC-79, 1½ - RC-85  
 Operating Pressure 2235 Operating Temperature 555  
 Line Size 2"X1½" Material Type A376-TP316 Material Thickness 0.343/0.281  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection		BJ	B9.32	Sur. & Vol.		
IBC						
Be Weld		BJ	B9.21	Sur.		
2						
3						
4						
5						
6						
6A						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
20A						
20B						
20C						
21						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld 22 23 24 25 26 27 28 29 30 31 32 33		BJ	B9.21	Sur.		
Pipe Supports C D		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Orifice Flange Bolting 1 2 . . . 7 8		B-G-2	B7.50	VT-1		
Bolting - Valve 557A 1 2		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-137  
 Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates Sh. 1 L-7  
 System Reactor Coolant System  
 Description Loop B 2" Hotleg RTD. Bypass, Line #'s - 2-RC-83  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 2" Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		BJ	B9.21	Sur.		
1						
2						
3						
3A						
4						
5						
6						
6A						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						



ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld 26		BJ	B9.21	Sur.		
Pipe Support C D E		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Orifice Flange Bolting 1 2 3 4 5 6 7 8		B-G-2	B7.50	VT-1		
Bolting - Valve 554 B 1 2		B-G-2	B7.70	VT-1		
Bolting - Valve 1 2		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-138  
 Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates Sh. 1 - L-4  
 System Reactor Coolant System  
 Description Loop B" 2"X1½" Coldleg RTD. Bypass, Line #'s - 2-RC-80, 1½-RC-86  
 Operating Pressure 2235 Operating Temperature 555  
 Line Size 2"X1½" Material Type A376-T316 Material Thickness 0.343/0.281  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec-		BJ	B9.32	Sur. & Vol.		
1BC						
Weld		BJ	B9.21	Sur.		
2						
3						
4						
5						
6						
6A						
6B						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
21A						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  21B 21C 21D 21E 22 23 24 25 26 27 28 29 30		BJ	B9.21	Sur.		
Pipe Support  B C		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Pipe Support Welded  B-WS		B-K-1	B10.10	Vol. or Sur. as Applicable		Support Thickness Unknown
Orifice Flange Bolting  1 2 . . . 7 8		B-G-2	B7.50	VT-1		
Bolting - Valve 557-B  1 2		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-139  
 Flow Diagram No. 5379-1971 Sh. 1 of 2 Coordinates Sh. 1 - D-15  
 System Reactor Coolant System  
 Description Loop C 2" Hotleg RTD Bypass, Line #'s - 2-RC-81  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 2 Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		BJ	B9.21	Sur.		
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						
26						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support A B C		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Orifice Flange Bolting 1 2 3 4 5 6 7 8		B-G-2	B7.50	VT-1		
Bolting - Valve 554-C 1 2		B-G-2	B7.70	VT-1		
Bolting - Valve 556-C 1 2		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-140  
 Flow Diagram No. 5379-1971 Sh. 1. of 2 Coordinates Sh. 1 - B-6  
 System Reactor Coolant System  
 Description LP.C 2"X1½ CLDleg RTD bypass, Line #'s - 2-RC-87, 1½-RC-87,  
2-RC-84  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 2"X½" Material Type A376-TP316 Material Thickness 0.343/0.281  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		BJ	B9.21	Sur.		
1						
2						
3						
4						
4A						
4B						
5						
6						
6A						
7						
8						
9						
9A						
9B						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld 25 26 27 28		BJ	B9.21	Sur.		
Pipe Support A B		BK-2	B11.10	Visual VT-3 Visual VT-4		
Pipe Support Welded A-WS		BK-1	B10.10	Vol. or Sur. as Applicable		Support Thickness Unknown
Orifice Flange Bolting 1 2 . . 7 8		B-G-2	B7.50	VT-1		
Bolting - Valve 557C 1 2		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-141  
 Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates Sh. 2 - H-2  
 System Safety Injection System  
 Description LP.B 2" SIS HLEG High Head Inj., Line # - 2-SI-56  
 Operating Pressure 2235 Operating Temperature 555°  
 Line Size 2" Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion		BJ	B9.32	Sur.		
1BC						
Pipe Weld		BJ	B9.21	Sur.		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
18C						
18D						
18E						
18F						
19						
20						



ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  B D E F G H I J K L M N O P		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Pipe Support Welded  F-WS O-WS		B-K-1	B10.10	Vol or Sur. as applicable		Support Thickness Unknown
Fltng - Valve 886-B 1 2		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-142  
 Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates Sh. 2 - H-1  
 System Safety Injection System  
 Description Loop C 2" Hotleg High Head Injection, Line # - 2SI-57  
 Operating Pressure 2235 Operating Temperature 555<sup>0</sup>  
 Line Size 2" Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion		BJ	B9.32	Sur.		
1BC						
ape Weld		BJ	B9.21	Sur.		
1A						
2						
3						
5						
6						
7						
8						
8A						
8B						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
18A						
19						
20						
21						
22						
23						

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  24 25 26		BJ	B9.21	Sur.		
Pipe Support  A B C E F H I		B-K-2	B11.10	Visual VT-3 Visual VT-4		
Pipe Support Welded  I-WS		BK-1	B10.10	Vol. or Sur. as applicable		Support Thickness Unknown
Fltng - Valve 866A  1 2		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 1

Isometric No. CPL-143  
 Flow Diagram No. 5379-685 Coordinates                       
 System Chemical and Volume Control System  
 Description 2" Auxiliary Spray Line, Line # - 2-CH-15B  
 Operating Pressure 2200 Operating Temperature 550°  
 Line Size 2" Material Type A376-TP316 Material Thickness 0.343  
 Pressure Test Category B-P Pressure Test Item No. B15.50, B15.51

ITEM TYPE AND/OR NO.	EXEMPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19A 19B 20 21 22 23 24 25 26 27 28 29		BJ	B9.21	Sur.		

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45  Pipe Support  A B D E F G H I J K L M N P R S T Z AA BB		BJ	B9.21	Sur.		
		B-K-2	B11.10	Visual VT-3 Visual VT-4		

ITEM TYPE AND/OR NO.	EXEPT PER IWB-1220	IWB CATEGORY	IWB ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support Welded  D-WS G-WS I-WS S-WS Z-WS  Bolting - Valve 311 1 2 3 4 5 6		BK-1	B10.10	Vol or Sur as applicable		Support Thickness Unknown
		B-G-2	B7.70	VT-1		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 2

Isometric No. CPL-105  
Flow Diagram No. 1971 SH. 1 of 2 Coordinates A-3  
System Reactor Coolant  
Description Steam Generator A

Operating Pressure 2235 Operating Temperature 611°, 555°  
Line Size 29" ID, 31" ID Material Type            Material Thickness 2 5/8" (lower shell)  
Pressure Test Category C-H Pressure Test Item No. C7.10, C7.11

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
3 CIRC. WELD SHELL		CA	C1.10	VOL.		
5 CIRC. WELD HEAD		CA	C1.20	VOL.		
6 TUBESHEET-TO- SHELL WELD		CA	C1.30	VOL.		
2 NOZZLES OVER 1/2" IN NOM. THICKNESS		CB	C2.20 or C2.10	SUR & VOL or SUR.		THICKNESS OF WELD UNKNOWN
7 8 9 INTEGRALLY WELDED SUPPORTS						NOT APPLICABLE

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
PRESSURE RETAINING BOLTING						NOT APPLICABLE



H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 2

Isometric No. CPL-105A

Flow Diagram No. 1971 SH. 1 of 2

Coordinates I-3

System Reactor Coolant

Description Steam Generator B

Operating Pressure 2235

Operating Temperature 611°, 555°

Line Size 29" ID, 31" ID Material Type \_\_\_\_\_ Material Thickness 2 5/8" (lower shell)

Pressure Test Category C-H

Pressure Test Item No. C7.10, C7.11

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
3 CIRC. WELD SHELL		CA	C1.10	VOL.		
4 CIRC. WELD HEAD		CA	C1.20	VOL.		
6 TUBESHEET-TO- SHELL WELDS		CA	C1.30	VOL.		
2 NOZZLES OVER 1/2" IN NOM. THICKNESS		CB	C2.20 or C2.10	SUR. & VOL. or SUR.		THICKNESS OF WELD UNKNOWN
7 8 9 INTEGRALLY WELDED SUPPORTS						NOT APPLICABLE
PRESSURE MAINTAINING BOLTING						NOT APPLICABLE

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 2

Isometric No. CPL-105B

Flow Diagram No. 1971 SH. 1 of 2

Coordinates F-17

System Reactor Coolant

Description Steam Generator C

Operating Pressure 2235

Operating Temperature 611°, 555°

Line Size 29" ID, 31" ID Material Type \_\_\_\_\_ Material Thickness 2 5/8" (lower shell)

Pressure Test Category C-H

Pressure Test Item No. C7.10, C7.11

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
3 CIRC. WELD SHELL		CA	C1.10	VOL.		
6 CIRC. WELD HEAD		CA	C1.20	VOL		
2 TUBESHEET-TO- SHELL WELD		CA	C1.30	VOL.		
7 8 9 NOZZLES OVER 1/2" IN NOM. THICKNESS		CB	C2.20 or C2.10	SUR. & VOL. or SUR.		THICKNESS OF WELD UNKNOWN
INTEGRALLY WELDED SUPPORTS						NOT APPLICABLE

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
PRESSURE RETAINING BOLTING						NOT APPLICABLE

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 2

Isometric No. CPL-106  
 Flow Diagram No. 685 Sh. 1 of 3 Coordinates D-6  
 System Chemical and Volume Control  
 Description Regenerative heat exchanger  
 Operating Pressure 2560 Operating Temperature 130  
 Line Size 3" Material Type 304 ss Material Thickness .900 t  
 Pressure Test Category C-H Pressure Test Item No. C7.10, C7.11

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
All Welds	C					
Supports		C-C&C-E	C3.20	Visual VT-3		Must be inspected because they support a Class 1 object.
A						
B						
C						
D						
E						
F						
Integrally Welded Supports						Not applicable
Pressure Retaining Bolting						Not applicable

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 2

Isometric No. CPL-204  
 Flow Diagram No. 1484 Coordinates C-7, G-7  
 System Aux. Coolant  
 Description RHR Heat Exchangers (2)  
 Operating Pressure 350 Operating Temperature 380  
 Line Size 10" Material Type 304SS Material Thickness 1.00"  
 Pressure Test Category C-H Pressure Test Item No. C7.10, C7.11

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
SHELL CIRC. WELD  1  NOZZLE WELDS IN VESSELS  3 4		CA	C1.10	VOL.		NOT ACCESSIBLE
WELDED SUPPORTS  1 2		C-C & C-E	C3.10	SUR.		NOT APPLICABLE
PRESSURE RETAINING BOLTING						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PRESSURE VESSEL DATA SHEET  
CLASS 2

Isometric No. CPL-207

Flow Diagram No. 685 SH. 1 of 3

Coordinates F-7

System Chemical and Volume Control

Description Excess Letdown Heat Exchanger

Operating Pressure 2200

Operating Temperature 550°

Line Size 3/4"

Material Type 316SS

Material Thickness 0.75"

Pressure Test Category C-H

Pressure Test Item No. C7.10, C7.11

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
SHELL CIRC. WELDS		CA	C1.10	VOL.		
NOZZLES	C					
PRESSURE RETAINING BOLTING						NOT APPLICABLE

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-212  
 Flow Diagram No. G190196 Sh. 1 of 3 Coordinates SH1-I7  
 System Main, Extraction, and Aux. Steam Sys.  
 Description Loop A-26" Main Steam, Line # - 26-MS-A  
 Operating Pressure 730 Operating Temperature 510  
 Line Size 26' Material Type A155-KCSS-1 Material Thickness 1.092"  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.21	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
24						
26						
28						
30						
32						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Welded Pipe Sup- port		CC	C3.40	Sur.		
F-WS R-WS S-WS T-WS O-WS P-WS Q-WS						
Branch Connection		CF	C5.31	Sur.		
23-BC - 25-BC 27-BC 29-BC 31-BC						-Limited, Branch Connection
Pipe Support		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
B C F H J K M O P Q R S T						



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-213  
 Flow Diagram No. G190196 Sh. 1 of 3 Coordinates SH1-E7  
 System Main, Extraction, and Aux. Steam Sys.  
 Description Loop B - 26" Main Steam, Line # - 26-MS-B  
 Operating Pressure 730 Operating Temperature 510°  
 Line Size 26" Material Type A155-KC55-1 Material Thickness 1.092"  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.21	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
20						
22						
24						
26						
28						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Welded Pipe Supports  E-WS K-WS F-WS G-WS H-WS I-WS		CC	C3.40	Sur.		
Branch Connections  19-BC 21-BC 23-BC 25-BC 27-BC		CF	C5.31	Sur.		
Pipe Supports  A C E K F G H I		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-213  
 Flow Diagram No. G190196 Sh. 1 of 3 Coordinates Sh. 1 E7  
 System Main, Extraction and Auxiliary Steam System  
 Description Loop B - 26" Main Steam, Line # - 26-MS-B  
 Operating Pressure 730 Operating Temperature 510  
 Line Size 26" Material Type A155-KC55-1 Material Thickness 1.092"  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.21	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
20						
22						
24						
26						
28						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Welded Pipe Supports		CC	C3.40	Sur.		
E-WS K-WS F-WS G-WS H-WS I-WS						
Branch Connec- tions		CF	C5.31	Sur.		
19-BC - 21-BC 23-BC 25-BC 27-BC						- Limited, Branch Connection.
Pipe Supports		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
A C E K F G H I						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-214  
 Flow Diagram No. G-190196 Sh. 1 of 3 Coordinates SH1-B7  
 System Main Extraction and Aux. Steam System  
 Description Loop C 26" Main Line, Line # - 26-MS-C  
 Operating Pressure 730 Operating Temperature 510  
 Line Size 26" Material Type A155-KC55-1 Material Thickness 1.092  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.21	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
22						
24						
26						
28						
30						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Welded Pipe Support		CC	C3.40	Sur.		
A-WS						
H-WS						
K-WS						
L-WS						
M-WS						
N-WS						
O-WS						
P-WS						
Branch Connection		CF	C5.31	Sur.		
21-BC -						- Limited, Branch Connection
23-BC						
25-BC						
27-BC						
Pipe Supports		CE	C3.50	Visual VT-3		
A						
B						
G						
H						
I						
K						
L						
M						
N						
O						
P						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-215  
 Flow Diagram No. G-190197 Sh. 2 of 3 Coordinates SH2-D3  
 System Feedwater, Condensate, and Air Evacuation System  
 Description Loop A-16" Feedwater  
Line # - 16 -FDW-A  
 Operating Pressure 915 Operating Temperature 441  
 Line Size 16" Material Type A106 Gr.B Material Thickness 1.031  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1 - 2 - 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		CF	C5.21	Sur. & Vol.		- Nozzle Interference - Instrumentation Attachment
Pipe Support  A B D H I J L		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  P T U W X Y Z		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-216  
 Flow Diagram No. G-190197 Sh. 2 of 3 Coordinates SH2-H3  
 System Feedwater, Condensate, and Air Evacuation System  
 Description Loop B 16" Feedwater , Line # - 16-FDW-B  
 Operating Pressure 915 Operating Temperature 441  
 Line Size 16" Material Type A106 GR.B Material Thickness 1.031  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1- 2- 3 4 5 6 7 8 9 10 11 12 13 14 15		CF	C5.21	Sur. & Vol.		- Nozzle Interference - Instrumentation Attachment
Pipe Support  B F G H		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-217  
 Flow Diagram No. G-190197 Coordinates H-5  
 System Feedwater, Condensate, and Air Evacuation System  
 Description Loop C-16" Feedwater, Line # - 16-FDW-C  
 Operating Pressure 915 Operating Temperature 441  
 Line Size 16" Material Type A106-GR.B Material Thickness 1.031  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1- 2- 3 4 5 6 7 8 9 10 11 12 13 14		CF	C5.21	Sur. & Vol.		- Nozzle Interference - Instrumentation Attachment
Pipe Supports  A D G J M N O Q R S T		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-218  
 Flow Diagram No. 5379-1484 Coordinates H-16  
 System Auxiliary Coolant System  
 Description 14" RHR Takeoff, Line # - 14-AC-9  
 Operating Pressure 350 Operating Temperature 380  
 Line Size 14" 12" Material Type A376-GR304 Material Thickness See Comments  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.11	Sur.		14" - 0.438" Thickness 12" - 0.375" Thickness
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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24						
25						
26						
27						
28						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  A B P C D E F G H I J K L N O  Welded Pipe Support  O-WS F-WS		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
		CC	C3.40	Sur.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-219

Flow Diagram No. 5379-1082 Sh. 2 of 2

Coordinates M-6

System Safety Injection System

Description SIS & RHR Return, Line # - 8-SI-38, 10-SI-40

Operating Pressure 2235

Operating Temperature 555

Line Size 8", 10"

Material Type A376-T316

Material Thickness See Comments

Pressure Test Category C-H

Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  183 184 185		CF	C5.11	Sur.		Welds 183, 184, 185 10" - Walls Schedule 40S Mat'l A312-T304
Pipe Weld  181 182 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 -		CF	C5.21	Sur. & Vol.		8" - 0.719" 10" - 1.00"
Pipe Support  A B C		CE	C3.50	Visual VT-3		- Limited, Reducer Taper & Tee Interference

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  D E F G H I J K L M N		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Welded Pipe Sup- port  H-WS		CC	C3.40	Sur		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-219A  
 Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates M-6  
 System Safety Injection System  
 Description SIS & RHR Return, Line # - 8-SI-37  
 Operating Pressure 2235 Operating Temperature 555  
 Line Size 8 Material Type A376-T316 Material Thickness 0.718  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  203 - 204 205 206 207 208 - 209 210 211 212 - 213 214		CF	C5.21	Sur. & Vol.		-Limited, Reducer Taper      -High Radiation   -High Radiation
Pipe Support  O P Q R S T U		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Welded Pipe Support  O-WS P-WS		CC	C3.40	Sur.		

Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

Page 1 of 2



ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  B D E F U V		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Welded Pipe Support  V-WS		CC	C3.40	Sur.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-220A  
 Flow Diagram No. 5379-1484 Coordinates E-12  
 System Auxiliary Coolant System  
 Description Loop B-14" Residual Heat Removal, Line # - 14-AC-11  
 Operating Pressure 350 Operating Temperature 380  
 Line Size 8",10",14" Material Type A312-T304 Material Thickness See Comments  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.11	Sur.		8" - 0.322" thick 10" - 0.365" thick 14" - 0.375" thick
60						
61						
62						
63						
64						
65						
66						
67						
68						
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88						

ITEM TYPE ID/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  I J L M N P Q R T		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Welded Pipe Support  I-WS		CC	C3.40	Sur.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-221  
 Flow Diagram No. 5379-1484 Coordinates I-6 & D-8  
 System Auxiliary Coolant System  
 Description SIS & RHR Return, Line # - 12-AC-3  
 Operating Pressure 350 Operating Temperature 380  
 Line Size 10", 12" Material Type A312-T304SS Material Thickness see comment  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.11	Sur.		10" - 0.365"
105						
106						
107						
157						12" - 0.375"
158						
159						
160						
161						
162						
163						
164						
165						
166						
167						
168						
169						
170						
171						
172						
173						
174						
175						
176						
177 -						- Interference By 1" Nozzle
178						
179						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  DD EE HH II GG		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-221A  
 Flow Diagram No. 5379-1484 Coordinates I-6, D-8  
 System Auxiliary Coolant System  
 Description SIS & RHR Return, Line # - 10-AC-1  
 Operating Pressure 350 Operating Temperature 380  
 Line Size 10" Material Type A312-T304S Material Thickness 0.365"  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld 88A 88B 88C 88D 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114		CF	C5.11	Sur		

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  115 116 117 118 119		CF	C5.11	Sur.		
Pipe Support  K L M N O Q R S U W X Y Z AA		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-221B  
 Flow Diagram No. 5379-1484 Coordinates I-6 & D-8  
 System Auxiliary Coolant System  
 Description SIS & RHR Return, Line # - 10-AC-2  
 Operating Pressure 350 Operating Temperature 380  
 Line Size 10" Material Type A312-T304SS Material Thickness 0.365"  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.11	Sur.		
120						
121						
122						
123 A,B,C, D&E						
124						
125						
126						
127						
128						
129						
130						
131						
132						
133						
134						
135						
136						
137						
138						
139						
140						
141						
142						
143						
144						
145						
146						
147						
148						



ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  149 150 151 152 153 154 155 156		CF	C5.11	Sur.		
Pipe Support  A B C D E 1,2,3 G I J		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Red Pipe Support  J-WS		CC	C3.40	Sur.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-222  
 Flow Diagram No. 1484 Coordinates C-5  
 System Residual Heat Removal  
 Description Line #'S - 8-SI-94, 6-SI-84  
 Operating Pressure 350 Operating Temperature 140  
 Line Size 6"8" Material Type A312-T304SS Material Thickness See comments  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39		CF	C5.11	Sur.		6" - .280 Thick 8" - .322 Thick
Pipe Support  A C D E		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-222A  
 Flow Diagram No. 1484 Coordinates C-5  
 System Residual Heat Removal  
 Description Line #'s 8-SI-95, 6-SI-85  
 Operating Pressure 350 Operating Temperature 140  
 Line Size 6"8" Material Type A312-T304SS Material Thickness See comments  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		CF	C5.11	Sur.		6" - .280 Thick 8" - .322 Thick
Pipe Support  F G H I		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-222B

Flow Diagram No. 1082 Sh. 20F2

Coordinates J-14

System Safety Injection

Description Line #'s - 10-SI-15, 8-SI-94

Operating Pressure 25

Operating Temperature 100

Line Size 10"

Material Type A312-T304SS Material Thickness .365"

Pressure Test Category C-H

Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.11	Sur.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
Pipe Support		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
K						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-223  
 Flow Diagram No. 5379-1484 Sh. 1 Coordinates SHI-D3  
 System Auxiliary Coolant System  
 Description Valve 758 Bypass  
 Operating Pressure \_\_\_\_\_ Operating Temperature \_\_\_\_\_  
 Line Size 6" Material Type A312-T304 Material Thickness 0.280  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connection  1BC 10BC		CF	C5.31	Sur.		
Pipe Weld  1A 2 3 4 5 6 7 8 9		CF	C5.11	Sur.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-224 Vendor Print No. CP-205, 5379-1057  
 Flow Diagram No. 5379-1484 Coordinates G-12, C-12  
 System Auxiliary Coolant System  
 Description Residual Heat Removal Pumps A & B  
 Location Cont. Bldg fl. elev. - 203.00'  
 Operating Pressure 350 Operating Temperature 380  
 Line Size 14", 8" Material Type            Material Thickness             
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Supports  S-1 S-2		C-C	C3.70	Surface		

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PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-225  
 Flow Diagram No. G-190199 Sh. 2 of 7 Coordinates D-8  
 System Service & Cooling Water  
 Description \_\_\_\_\_  
Line Function - Line # - 6-CW-38, 6-CW-22.1  
 Operating Pressure 50 Operating Temperature 105  
 Line Size 6" Material Type SS-TP-304 Material Thickness .134  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
All Welds All Hangers	B B					

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-226  
 Flow Diagram No. G-190199 Sh. 2 of 7 Coordinates C-8  
 System Service & Cooling Water  
 Description \_\_\_\_\_  
Line # - 6-CW-24, 6-CW-40  
 Operating Pressure See comments Operating Temperature See comments  
 Line Size 6" Material Type SS-TP-304 Material Thickness .134  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
All Welds	B					6-CW-24
All Hangers	B					75 psi 95°
						6-CW-40
						50 psi 105°



H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-227  
 Flow Diagram No. G-190199 Sh. 2 of 7 Coordinates B-8  
 System Service & Cooling Water  
 Description \_\_\_\_\_  
Line #'s - 6-CW-25.1, 6-CW-41  
 Operating Pressure See Comments Operating Temperature See Comments  
 Line Size 6" Material Type SS-TP304 Material Thickness .134  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
All Welds	B					6-CW-25.1- 75 psi 95°
All Hangers	B					6-CW-41 50 psi 105°

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-228  
 Flow Diagram No. G-190199 Sh. 2 of 7 Coordinates A-8  
 System Service and Cooling Water  
 Description Line #'s 6-CW-23, 6-CW-39  
 Operating Pressure See Comments Operating Temperature See Comments  
 Line Size 6" Material Type SS-TP304 Material Thickness .134  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
All Welds	B					6-CW-24 75 psi 95°
All Hangers	B					6-CW-39 50 psi 105°

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-229

Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates N-11 sh. 2

System Safety Injection System

Description 14" - CV Sump to RHR Pump

Line #'s - 14-SI-43, 14-SI-42

Operating Pressure 70 Operating Temperature 300  
A-308 or A-312

Line Size 14" Material Type TP 304 Material Thickness .25"

Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.21	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Pipe Support		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
A						
B						
C						
D						

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-230  
 Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates J-17 Sh. 2  
 System Safety Injection System  
 Description RHR Pumps to RWS Tank , Line #'s - 14-SI-1, 16-SI-4  
 Operating Pressure 25 Operating Temperature 100  
 Line Size 14", 16" Material Type A358 or A312 TP 304 Material Thickness .25"  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.21	Sur. & Vol		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
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27						
28						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  A B C D E F G H I J K		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Welded Pipe Support  A-WS H-WS J-WS K-WS		CC	C3.40	Sur.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-231  
 Flow Diagram No. 5379-1082 sh. 1 of 2 Coordinates G 15 sh 1  
 System Safety Injection System  
 Description SI & CS Pump Suction  
 Line #'s - 12-SI-2, 6-SI-9, 6-SI-10, 6-SI-11, 8-SI-28, 8-SI-29  
 Operating Pressure 25 Operating Temperature 100  
 Line Size 12" Material Type A312 TP 304 or A-358061 Material Thickness 12"-.375 6"-.280 8"-.322  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Branch Connec- tion  12BC 18BC 23BC 32BC		CF	C5.31	Sur.		
Pipe Welds  1 2 3 4 5 6 7 8 9 10 11 14 15 17 19 20 21 22 24 25 26		CF	C5.21	Sur. & Vol.		

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  27 28 29 30 31 33 34 35 37 38 39 40 41 42 43		CF	C5.21	Sur. & Vol.		
Pipe Supports  A B C D E		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Weld Pipe Sup- ports  A-WS B-WS D-WS E-WS		CE	C3.40	Surface		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-232  
 Flow Diagram No. 5379-1082 Sh. 1 of 2 Coordinates Sh. 1 J10  
 System Safety Injection System  
 Description CS Pump B to Headers  
Line #'s 6-SI-41, 6-SI-30  
 Operating Pressure 70 Operating Temperature 280  
 Line Size 6" Material Type A312 TP 304 Material Thickness .280  
 Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Dissimilar metal Weld 1 Dm		CF	C5.21	Sur. & Vol.		
Weld		CF	C5.21	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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23						
24						
25						



ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  26 27 28 29 30 31 32 33 34 35 36 37 38		CF	C5.21	Sur. & Vol.		
Pipe Support  A B C D E F G H I J K L M N O P Q R S T U V W X		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Welded Pipe Support  D-WS W-WS		CC	C3.40	Sur.		

H. B. ROBINSON STEAM ELECTRIC PLANT  
PIPING SYSTEM DATA SHEET  
CLASS 2

Isometric No. CPL-233

Flow Diagram No. 5379-1082 Sb. 1 of 2 Coordinates Sh. 1 D14

System Safety Injection System

Description \_\_\_\_\_

Line #'s - 6-SI-88, 6-SI-93

Operating Pressure 25 Operating Temperature 100

Line Size 6" Material Type A312 TP 304 or A358061-105 Material Thickness .280

Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C4.21	Sur. & Vol.		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
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22						
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24						
25						
26						
27						
28						
29						
30						
31						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  A B C D E F G H I  Weld Pipe Support  I-WS		CE          CC	C3.50 or C3.60          C3.40	Visual VT-3 or Visual VT-4          Sur.		

## H. B. ROBINSON STEAM ELECTRIC PLANT

## PIPING SYSTEM DATA SHEET

CLASS 2

Isometric No. CPL-234Flow Diagram No. 5379-1082 Sh. 1 of 2Coordinates Sh 1 M10System Safety Injection SystemDescription CS Pump A to Headers, Line #'s - 6-SI-34, 6-SI-31Operating Pressure 70Operating Temperature 280Line Size 6"Material Type A312 TP 304

40S

Material Thickness .280Pressure Test Category C-HPressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Dissimilar Metal Weld		CF	C5.21	Sur. & Vol.		
1 DM						
e Weld		CF	C5.21	Sur. & Vol.		
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						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  26 27 28 29 30 31 32		CC	C5.21	Sur. & Vol.		
Pipe Support  A B C D E F G H		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Welded Pipe Sup-  E-WS		CC	C3.40	Sur.		

## PIPING SYSTEM DATA SHEET

CLASS 2

Isometric No. CPL-234AFlow Diagram No. 5379-1082 Sh. 1 of 2 Coordinates Sh. 1 M10System Safety Injection SystemDescription CS Pump A to HeadersLine # - 6-SI-34Operating Pressure 70 <sup>A312 T<sub>304</sub></sup> Operating Temperature 280Line Size 6" Material Type 40S Material Thickness .280Pressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld		CF	C5.21	Sur. & Vol.		
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
Pipe Support		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
I						
J						
K						
L						

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Support  M N O P		CE	C3.50 or C3.60	Visual VT-3 or Visual VT-4		
Welded Pipe Support  N-WS		CC	C3.40	Sur.		

## H. B. ROBINSON STEAM ELECTRIC PLANT

## PIPING SYSTEM DATA SHEET

CLASS 2

Isometric No. CPL-235Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates Sh. 2 D8System Safety Injection SystemDescription Loop A-10" Accum. DischargeLine # 10-SI-56, 10-SI-47Operating Pressure See commentsOperating Temperature See commentsLine Size 10" Material Type See comments Material Thickness See commentsPressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1 2 3 4 5- 6		CF	C5.21	Sur. & Vol		10-SI-47 2235 psi 555 <sup>0</sup> A-376-TP 316 Mat'l <u>1.00" Wall thickness</u> 10-SI-50 660 psi 250 <sup>0</sup> A-312-TP 304 Mat'l 0.365" Wall Thickness  - Valve Interference



## H. B. ROBINSON STEAM ELECTRIC PLANT

## PIPING SYSTEM DATA SHEET

CLASS 2

Isometric No. CPL-236Flow Diagram No. 5379-1082 Sh. 2 of 2 Coordinates Sh. 2 G8System Safety Injection SystemDescription Loop B-10" Accum. Discharge, Line # - 10-SI-51, 10-SI-48Operating Pressure See comments Operating Temperature See commentsLine Size 10" Material Type See comments Material Thickness See commentsPressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1 2 3 4 5 6		CF	C5.21	Sur. & Vol.		10-SI-48 2235 psi 555° A-376-TP316 Mat'l <u>1.00" Wall Thickness</u> 10-SI-51 660 psi 250° A-312-TP304 Mat'l 0.365" Wall Thickness

## H. B. ROBINSON STEAM ELECTRIC PLANT

## PIPING SYSTEM DATA SHEET

CLASS 2

Isometric No. CPL-237Flow Diagram No. 5379-1082 Sh 2 of 2 Coordinates J 8System Safety Injection SsystemDescription Loop "C"-10" Accum. DischargeLine # - 10-SI-55, 10-SI-54Operating Pressure See comments Operating Temperature See commentsLine Size 10" Material Type See comments Material Thickness See commentsPressure Test Category C-H Pressure Test Item No. C7.20, C7.21

ITEM TYPE AND/OR NO.	EXEMPT PER IWC-1220	IWC CATEGORY	IWC ITEM NO.	INSPECTION METHOD	RELIEF REQUEST	COMMENTS
Pipe Weld  1- 2 3 4 5 6		CF	C5.21	Sur. & Vol.		10-SI-54 2235 psi 555° A-376-TP316 Mat'l <u>1.00" Wall Thickness</u> 10-SI-55 660 psi 250° A-312-TP304 Mat'l 0.365" Wall Thickness  - Valve Inteference

H. B. ROBINSON STEAM ELECTRIC PLANT  
CLASS 3 COMPONENT DATA SHEET

Flow Diagram No. G-190199

Coordinates See Comments

System Service and Cooling Water

Operating Pressure 50

Operating Temperature 95

ITEM TYPE AND/OR NO.	IWD CATEGORY	IWD ITEM NO.	INSPECTION METHOD	COMMENTS
Piping & Hangers Line #'s as listed				
30-CW-11	D-A D-A	D.1.1 D.1.2 or D.1.3	VT-2 VT-3 or VT-4	I-24
30-CW-5				J-1
30-CW-12				C-1
18-CW-1				M-1
18-CW-2				
18-CW-3				M-2
18-CW-4				M-3 M-4
16-CW-44				M-21
6-CW-43				M-20
Lines 4" or less in diameter	D-A	D.1.1(a) D.1.1(b)	VT-2	

H. B. ROBINSON STEAM ELECTRIC PLANT  
CLASS 3 COMPONENT DATA SHEET

Flow Diagram No. G-190199 Coordinates See Comments

System Service and Cooling Water

Operating Pressure 50 Operating Temperature 95

ITEM TYPE AND/OR NO.	IWD CATEGORY	IWD ITEM NO.	INSPECTION METHOD	COMMENTS
Piping & Hangers Line #'s as listed	DA	D1.1	VT-2	
24-CW-12A	DA	D1.1	VT-3	M-10
20-CW-15		or D.1.2	or VT-4	M-16
20-CW-11A				I-10
24-CW-170				I-19
20-CW-13				I-16
16-CW-42				N-19
6-CW-25				H-8 75 psi
6-CW-166				N-8 40 psi
6-CW-168				J-8 73 psi
12-CW-163				M-7
12-CW-165				L-7 40 psi
12-CW-167				J-7 73 psi

H. B. ROBINSON STEAM ELECTRIC PLANT  
CLASS 3 COMPONENT DATA SHEET

Flow Diagram No. G-190199

Coordinates	See Comments
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System	Service and Cooling Water
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	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Operating Pressure 50 Operating Temperature 95

[illegible]

H. B. ROBINSON STEAM ELECTRIC PLANT  
CLASS 3 COMPONENT DATA SHEET

Flow Diagram No. 5379-376 Coordinates See Comments

System Component Coolant System

Operating Pressure 50 psi Operating Temperature 95° & Comments

ITEM TYPE AND/OR NO.	IWD CATEGORY	IWD ITEM NO.	INSPECTION METHOD	COMMENTS
Piping & Hangers Line #'s as Listed	DA	D1.1	VT-2	
24-AC-26	DA	D1.2 or	VT-3 or	F-11 - 100°
16-AC-28		1.3	VT-4	F-1 - 95°
16-AC-29				E-4 - 95°
16-AC-14				F-1 - 75 psi - 150°
18-AC-150				E-16 120°
16-AC-30				B-6 120°
16-AC-31				B-3 120°
16-AC-15				M-2
16-AC-16				K-2
16-AC-17				I-2
14-AC-80B				F-3
10-AC-140				H-2
8-AC-54				F-6
6-AC-47				B-6
14-AC-78				E-18 120°
10-AC-41				F-5 120°
10-AC-48				B-8 120°

## CLASS 3 COMPONENT DATA SHEET

Coordinates	See Comments
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System	Component	Coolant System

Operating Temperature 95° & Comments

ITEM TYPE AND/OR NO.	IWD CATEGORY	IWD ITEM NO.	INSPECTION METHOD	COMMENTS
Piping & Hangers	DA	D.1.1	VT-2	
Line #'s as Listed	DA	D.1.2 or	VT-3 or	
6-AC-38		1.3	VT-4	I-14 120°
6-AC-33				F-3
as 4" or less diameter	DA	D.1.1(a) D.1.1(b)	VT-2	

H. B. ROBINSON STEAM ELECTRIC PLANT  
CLASS 3 COMPONENT DATA SHEET

Flow Diagram No. 5379-1484

Coordinates See comments

System	Component	Coolant System
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Operating Pressure 75 Operating Temperature 120

ITEM TYPE AND/OR NO.	IWD CATEGORY	IWD ITEM NO.	INSPECTION METHOD	COMMENTS
Piping & Hangers	D-C	D.3.1	VT-2	
Line #'s as Listed	D-C	D.3.2 or	VT-3 or	
8-AC-61		D.3.3	VT-4	D
8-AC-60				F
4" or less diameter	D-A	D.1.1(a) D.1.1(b)	VT-2	



H. B. ROBINSON STEAM ELECTRIC PLANT  
CLASS 3 COMPONENT DATA SHEET

Flow Diagram No. G-190197 Coordinates See Comments

System Feed and Condensate Piping

Operating Pressure 915 & Comments Operating Temperature 100 & Comments

ITEM TYPE AND/OR NO.	IWD CATEGORY	IWD ITEM NO.	INSPECTION METHOD	COMMENTS
Piping & Hangers	D.A	D.1.1	VT-2	
Line #'s as Listed	D.A	D1.2	VT-3	
		or	or	
6-FW-18		1.3	VT-4	D-10
6-C-50				H-13 25 psi - 104°
7-5				K-17 125 psi - 95°
16-FW-9				A-12 441°
16-FW-10				C-12 441°
16-FW-11				E-12 441°
Lines 4" or less in Diameter	D-A	D.1.1(a) D.1.1(b)	VT-2	