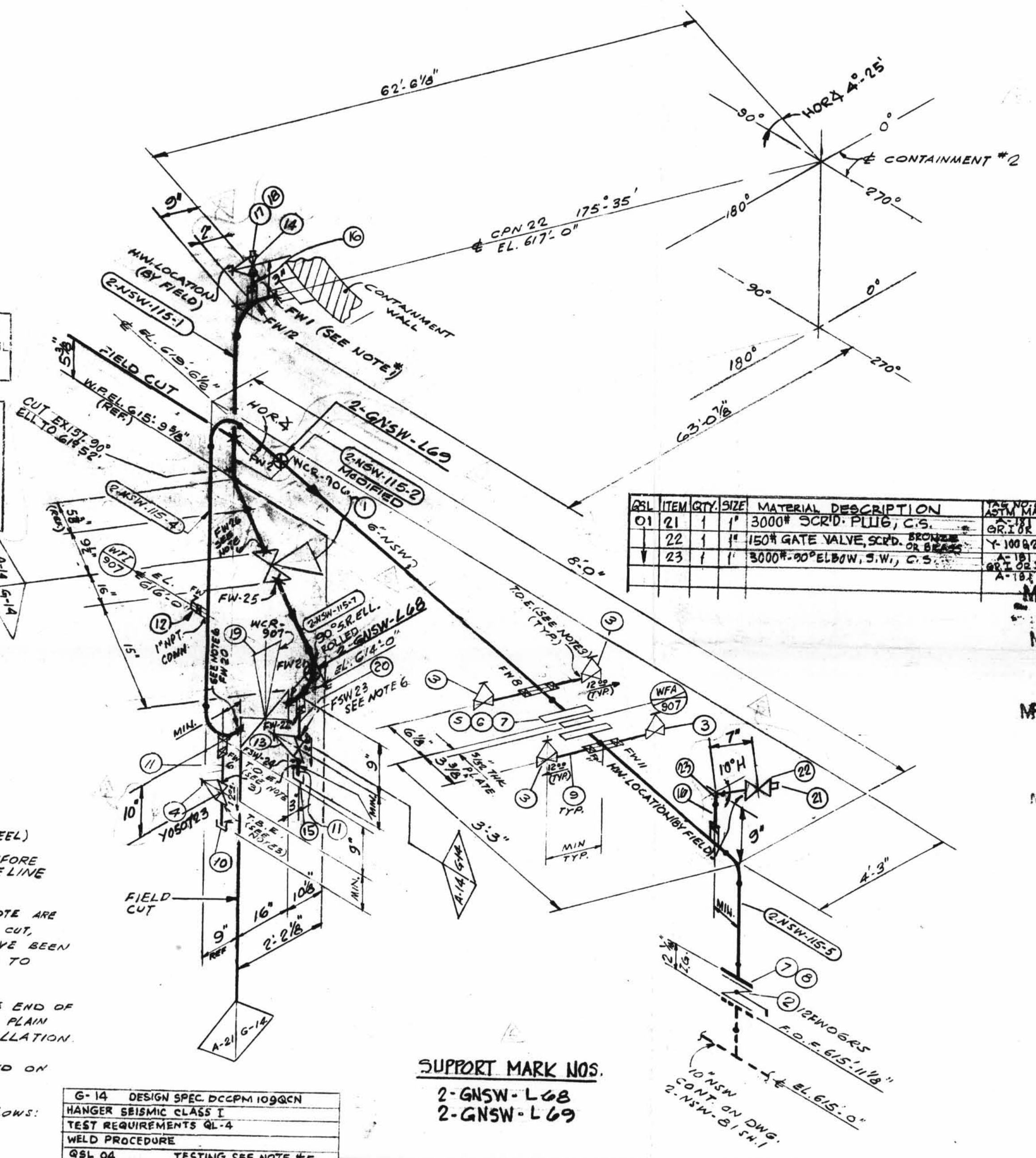
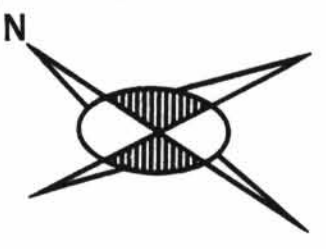


TOTAL FW 18



INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

SUPPORT MARK NUMBERS SHOWN ARE FOR GENERAL REFERENCE ONLY FOR EXACT LOCATIONS SEE PIPE SUPPORT DETAIL

SIZE	QUAN	FW
6"	2'	4
1/2"	1'	3

NOTES:

- BUTT WELDS - PT-100% TESTING
SOCKET WELDS - PT-100% TESTING
- PROVIDE BI-METALLIC WELDS (STAINLESS STEEL - CARBON STEEL)
- REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE
- FW'S PERTAINING TO THIS NOTE ARE TO BE MADE AFTER PIPE IS CUT, PRE-ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS-BUILT CPN.
- FABRICATOR TO MAKE THIS END OF SPOOL 6" LONGER WITH PLAIN END TO FACILITATE INSTALLATION.
- USE CRANE A&S-A COMPOUND ON ALL THRD. CONNECTIONS.
- WELD PROCEDURE AS FOLLOWS:
C/S 2" & UNDER -
C/S 2 1/2" & OVER -

CONTINUED ABOVE

SIZE	QUAN.	FW
6"	26'	7
1"	3'	7
1/2"	1'	4

G-14	DESIGN SPEC. DCCPM 109QCEN
HANGER SEISMIC CLASS	I
TEST REQUIREMENTS	QI-4
WELD PROCEDURE	QSL-04
TESTING	SEE NOTE #5
A-14	DESIGN SPEC. DCCPM 102QCEN
HANGER SEISMIC CLASS	I
TEST REQUIREMENTS	QI-4
WELD PROCEDURE	SEE NOTE #4
TESTING	RT-100%
A-21	DESIGN SPEC. DCCPM 102QC5
HANGER SEISMIC CLASS	II
TEST REQUIREMENTS	QI-4
WELD PROCEDURE	SEE NOTE #4
TESTING	N.A.

DESIGN SPEC.		SEE		DESIGN		TESTING		FITTINGS		TESTING		ADDITIONAL	
HANGER SEISMIC CLASS		DESIGN		CODE		STAMP		PIPE		N.D.T. SEE DESIGN CODE STAMP		PRESSURE TEST	
A-33		A-106		A-376		A-312		A-105		A-334		A-182	
STD.		XY		XZY		10 20 30 40 60 80 100 120 140 160		A-402		A-181		MED. PRESS. DURATION	

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG NO. OR ASTM MAT'L	HEAT NO.
01	21	1	1"	3000# SCR'D. PLUG, C.S. <td>A-106 GR. B <td></td> </td>	A-106 GR. B <td></td>	
	22	1	1"	150# GATE VALVE, SCR'D. BRONZE OR BRASS <td>Y-100922 <td></td> </td>	Y-100922 <td></td>	
	23	1	1"	3000# 90° ELBOW, S.W., C.S. <td>A-181 GR. B <td></td> </td>	A-181 GR. B <td></td>	

ISO SHT. NO. 2160

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG NO. OR ASTM MAT'L	HEAT NO.
04	1	1	6"	B.W. DIAPH. CONTROL VALVE S.S. <td>WCR-906</td> <td></td>	WCR-906	
01	2	1	6"	125" C.I. WAFER BUTTERFLY VA. <td>12FW06K5</td> <td></td>	12FW06K5	
	3	4	1"	200# SCR'D. GLOBE VALVE BRONZE OR BRASS <td>Y100T23</td> <td></td>	Y100T23	
	4	1	1/2"	200# SCR'D. GLOBE VALVE <td>Y050T23</td> <td></td>	Y050T23	
	5	2	6"	1/2" THK. FILL MET. CORR. ASBESTOS RUBBER BONDED GASKET <td></td> <td></td>		
	6	8	3/4"	3/4" LG. HEX. HD. MACH. BOLT <td>A-307 GR. B</td> <td></td>	A-307 GR. B	
	7	16	3/4"	HEAVY HEX. NUT. CL. 2 TOL. <td></td> <td></td>		
	8	8	3/4"	5/8" LG. HEX. HD. MACH. BOLT <td></td> <td></td>		
	9	AS REQ'D	1"	PIPE (SCH. 80) SMLS. C.S. <td>A-106 GR. B</td> <td></td>	A-106 GR. B	
	10	1	1/2"	3000# SCR'D. CAP <td>A-181 GR. B</td> <td></td>	A-181 GR. B	
	11	AS REQ'D	1/2"	PIPE (SCH. 80) SMLS. C.S. <td>A-106 GR. B</td> <td></td>	A-106 GR. B	
	12	1	1"	BI-METAL THERM WELL <td>WTI-907</td> <td></td>	WTI-907	
04	13	1	1/2"	600# C.S. SW GLOBE VA. <td>Y-050T36</td> <td></td>	Y-050T36	
	14	1	1"	600# C.S. SW GLOBE VA. <td>Y-100T36</td> <td></td>	Y-100T36	
	15	1	1/2"	3000# SCR'D CAP <td>A-181 GR. B</td> <td></td>	A-181 GR. B	
	16	AS REQ'D	1"	PIPE (SCH. 80) SMLS. C.S. <td>A-106 GR. B</td> <td></td>	A-106 GR. B	
	17	1	1"	1" SW. X 3/4" THRD. 3000# RED INSERT <td></td> <td></td>		
	18	1	3/4"	THRD. PLUG C.S. <td></td> <td></td>		
	19	1	6"	B.W. DIAPH. CONTROL VALVE S.S. <td>WCR-907</td> <td></td>	WCR-907	
	20	AS REQ'D	1/2"	PIPE SCH. 40S SMLS. S.S. <td>A-312 GR. TP 304</td> <td></td>	A-312 GR. TP 304	

REVISION RECORD

NO.	DATE	BY	DESCRIPTION	REMARKS
1	20	B.R.	REVISED BY AEP DESIGN: PER RFC-DC-12-671; ADDED; 6" B.W. CONTROL VALVE - WCR-906, 1/2" DRAIN VALVE NO. Y-050T36 (1) VENT-Y-100T23	ACTION REQ'D.
2	1-3	W.R.	REVISED ITEM 13; ADDED ITEMS 15 & 16. 2 1/2" WAS 2 3/8", 6 3'-0" WAS 62'-11 3/8"	
3	1-7	M.F.	PER RDM MC-012 VA. Y-050T36 WAS Y-050T23 Y-100T36 WAS Y-100T23, ADDED ITEMS 17 & 18	
4	1-11	J.L.	PER RFC DC-12-2549, REPLACED WCR-906, 907 WITH DIAPH. CONTROL VAIS. WCR-906, 907. ADDED: PIPE SPEC. G-14, DIM'S, PC-MK 6, 7, BELC WELD BOX, FIELD WELDS FW 19 TO 22, 25 TO 27, FSW 23, 24, ITEM NOS. 19, 20 TO B/M, REVISED ITEM NO. 1 IN B/M, MODIFIED 2-NSW-115-2.	FIELD ACTION REQ'D
5	6/19/82	S.A.	PER RFC DC-12-2549 RELOCATED FIELD CUTS; DELETED FW'S 19 & 21, PC-MK'S G & H, DIM 10' WAS 9', 9' WAS 11 1/8", 6 3'-0" WAS 62'-0", ANGLE G1'S WAS 62', ADDED DIM'S 1: 2' 7/8", 5' 3/8", REVISED NO. OF FW'S.	FIELD ACTION REQ'D.
6	7/14/81	S.A.	TO REFLECT AS-FOUND CONDITIONS FOR RFC-DC-12-3010 PER FWR #750 REV. 1; REVISED: 1" VENT PIPE CONFIG. ADDED: DIMS., PLUGS & ITEM #21-23 TO B/M & SUPPORT MARK NOS. & SUPERSEDES HGR 150# 2-GNSW-115	NO FIELD ACTION REQ'D.

SUPPORT MARK NOS.
2-GNSW-L68
2-GNSW-L69

D-26

POUR/ZONE No. A-15 FLOW DIAGRAM B-5118A
 REQUIRED COMPLETION DATE Q.S.L. SEE DESIGN
 FABRICATED BY TUBECO WELD PROCEDURE E00E STAMP

NPS DESIGNS INC. NEW YORK N.Y.	LIVSEY & COMPANY, INC. INDIANA & MICHIGAN ELECTRIC CO. DONALD C. COOK NUCLEAR PLANT
2NSW-115 Lower Containment Ventilation Unit 3 Return Line	AUXILIARY BLDG. DWG. NO. <u>2-NSW-115</u> REV. <u>6</u>

REF. DWG. 25497