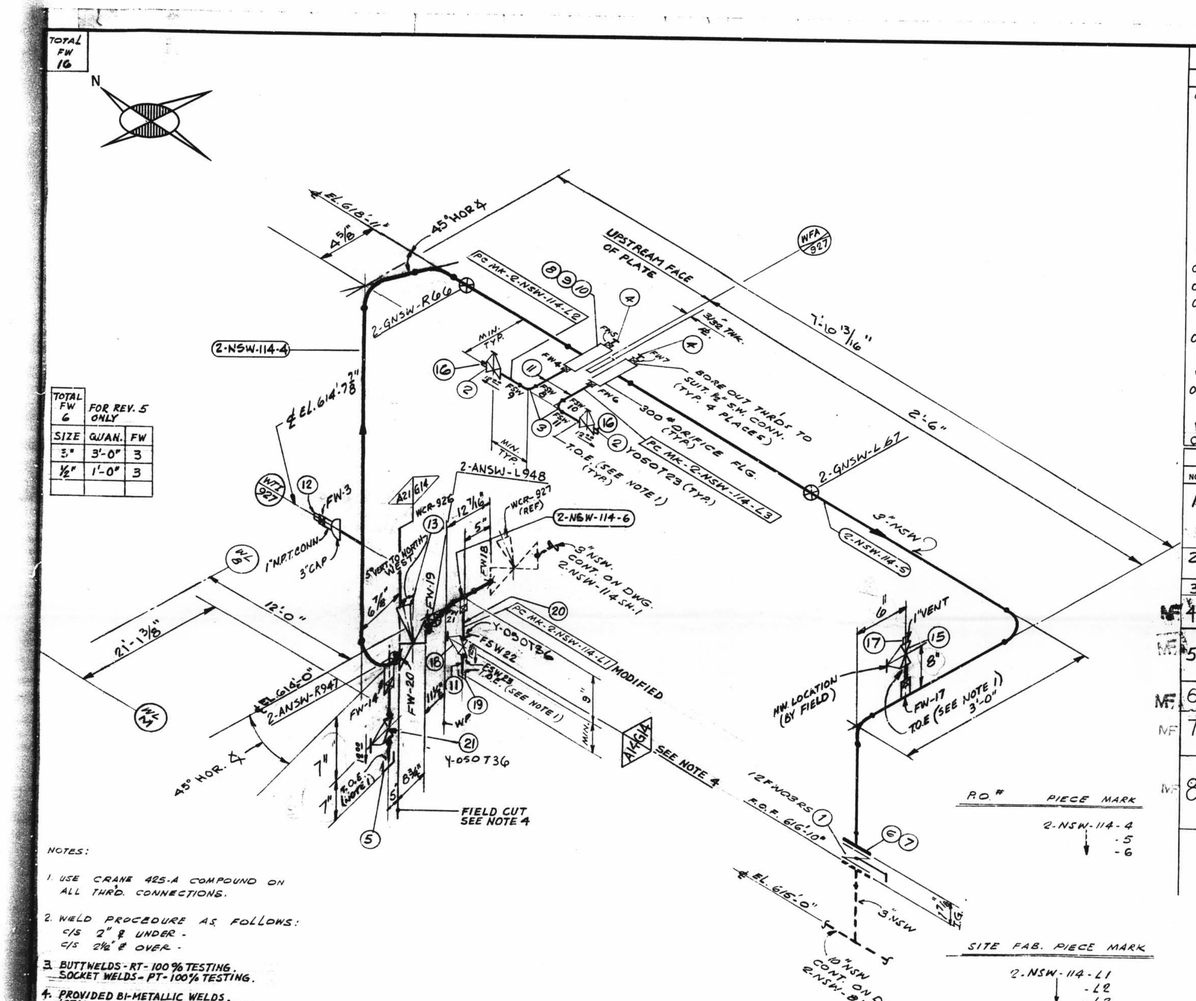

NOTES:

1. USE CRANE 425-A COMPOUND ON ALL THR'D. CONNECTIONS.
2. WELD PROCEDURE AS FOLLOWS:
   C/S 2" & UNDER -
   C/S 2½" & OVER -
3. BUTTWELDS - RT - 100% TESTING.
   SOCKET WELDS - PT - 100% TESTING.
4. PROVIDED BI-METALLIC WELDS. (STAINLESS STEEL - CARBON STEEL)
5. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE.

ISO SHT. NO. 2159

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
01	1	1	3"	125# C.I. WAFER BUTTERFLY VA	12FW03RS	
	2	2	½"	200# SCR'D GLOBE VA. 316 SST OR BRASS	Y-050T23	
	3	2	½"	3000# S.W.C.S. 90° ELL	GR. A-181 I OR II	
	4	2	½	3000# S.W. PLUG C.S.		
	5	1	½"	3000# SCR'D CAP C.S.		
	6	4	5/8"	5" LG. HEX. HD. MACH. BOLT	A-307 GR. B	
	7	4	5/8"	HEAVY HEX. NUT CL. 2 10L.	A-307 GR. A	
	8	2	3"	1/16" THK. SPIRAL WOUND FLEXITALLIC GASKET, STYLE CG TYPE 304		
	9	8	5/8"	4½" LG STUD BOLT.	A-193 GR. B7	
	10	16	5/8"	HEAVY HEX NUT	A-194 GR. 2H	
04	11	AS REQ'D	½"	PIPE (SCH. 80) SMLS. C.S.	A-106 GR. B	
01	12	1	1"	BI-METAL THERM WELL	WTI-927	
04	13	1	3"	BW. DIAPH. CONTROL VALVE, S.S.	WCR-926	
01	15	1	1"	200# SCR'D. GLOBE VA.	Y-100T23	
	16	2	½"	PLUG, 3000# THDD, C.S.	A-181 GR. I or II	
	17	1	1"	↓ ↓ ↓	↓	
04	18	1	½"	600# C.S. SW. GLOBE VA	Y-050T36	
	19	1	½"	3000# SCR'D CAP C.S.	A-18 GR. I OR II	
	20	AS REQ'D	½"	PIPE SCH. 40S, SMLS. S.S.	A-312 GR. TP304	
01	21	1	½"	600#, CS., S.W., GLOBE VALVE	Y-050T36	

REVISION RECORD

NO.	DATE	BY CHK.	DESCRIPTION	REMARKS
1	1-20-76	DC B.R.	REVISED BY AEP DESIGN: PER RFC-DC-12-671: ADDED 3" BW. CONTROL VA.-WCR-926, ½" DRAIN-VALVE NR Y-050T36 1" VENT-VALVE NR Y-100T23.1 ADDED SPEC. BREAK @ WR 0-926	ACTION REQ'D
2	12-2-76	DB	ADDED: DIM. 7 15/16"; & EL. 614'-7 7/8"; ITEMS 16 & 17 TO B/M	
3	1-3-77	W.R.	DELETED ITEM 14, REVISED ITEM 2.	
MF 4	4/21/77	DHC	PER RDA-MC-0162 ADDED #18 TO B/M VA. WAS Y-050T22, REV. QTY. ITEM # 2	
MF 5	9/14/81	WT DR	PER RFC DC-12-2549, ADDED PIPE SPEC. G-14, DIM'S, PC. MK. #6, FIELD WELD BOX, NOTES 3, 4 & 5, FW 18, 19, 20 & 21, FSW 82 & 83, ITEMS # 19 & 20 TO B/M. REVISED ITEMS #8, 8, & 13 W B/M. MODIFIED PC. MK. L1.	FIELD ACTION REQ'D.
MF 6	10/16/81	K.A. L.D.	PER RFC # DC-12-2549 ROTATED ACTUATOR OF VALVE WCR-926 TO 5° VERT. TOWARD NORTH-WEST.	FIELD ACTION REQ'D
MF 7	8/11/82	DR. L.D.	PER RFC-DC-12-2876 REV'D ITEM 2 QTY FROM 3 TO 2. ADDED ITEM 21 & SUPPORT DETAILS. SUPERSEDED WCR 150 2-GNSW-114 SHT 2. ALL ABOVE TO REFLECT AS-BUILT CONDITIONS.	NO FIELD ACTION REQ'D
MF 8	9/12/89	BJB GSM LD	TO REFLECT AS-FOUND CONDITIONS FOR RFC-DC-12-3010 PER FWR #759 REV. 1: ADDED: DIMS. REVISED: DIMS. & B/M TO SUIT.	NO FIELD ACTION REQ'D.

D-25B

2NSW-114 (sheet 2 of 2)
Upper Containment Ventilation
Unit 2 Return Line

SIZE	QUAN.	FW
3"	20'	3
1"	—	1
1½"	2'	12

SUPPORT MARK NUMBERS SHOWN ARE FOR GENERAL [illegible] LOCATION OF SUPPORT ONLY. FOR EXACT LOCATIONS SEE PIPE SUPPORT DETAIL

HANGER MARK NO'S
2-GNSW-R66
2-GNSW-L67
2-ANSW-R947
2-ANSW-L948

INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

G-14	DESIGN SPEC. DCCPM 109 QCN
HANGER SEISMIC CLASS	I
TEST REQUIREMENTS	QL-4
WELD PROCEDURE	
QSL 04	TESTING SEE NOTE 3

DESIGN SPEC.	DCCPM 102QCS
HANGER SEISMIC CLASS	II
TEST REQUIREMENTS	N/A
MATERIAL CLASS	A-21 SPEC 104

R.P. = NORMAL POINT
T.O.P. = TOP OF PIPE
T.B.E. = THREAD BOTH ENDS
B.O.E. = BEVEL ONE END
T.O.P. = TOP OF PIPE ELEV.
Q.S.L. = MATERIAL QUALITY REQUIREMENTS
T.L. = TRUE LENGTH

B.B.E. = BEVEL BOTH ENDS
P.O.E. = PLAIN ONE END
P.B.E. = PLAIN BOTH ENDS
S.O.E. = SCRD ONE END
B.O.P. = BOTT.OM OF PIPE ELEV.

FW = FIELD WELD
H = HORIZONTAL
V = VERTICAL
SW = SHOP WELD
FSW = FIELD SHOP WELD

B = FIELD WELD
A = AUTOMATIC SHOP WELD
M = MANUAL SHOP WELD
V = VERIFY DIMENSION IN FIELD

PIPE														
A-53	A-106 GR B		A-376	A-312 GR. TP 304										
STD.	XT	XXT	10	20	30	40	60	80	100	120	140	160		
SMLS	WLDD													

FITTINGS		
A-105	A-234	A-182
A-403	A-181	

TESTING			
N.D.T.	N/A.		
M.T.	P.T.	R.T.	U.T.
PRESSURE TEST			
MED.	PRESS.	DURATION	

ADDITIONAL

POUR/ZONE No. A-15
REQUIRED COMPLETION DATE
FABRICATED BY TUBECO
FLOW DIAGRAM 2-5114A
Q.S.L. 01
WELD PROCEDURE SEE NOTE 2

NPS DESIGNS INC.
NEW YORK, N.Y.

FABRICATOR NOTE:
FABRICATION MUST CONFORM TO LATEST A.E.P. ARRGT. DWGS

LIVSEY & COMPANY, INC.
INDIANA & MICHIGAN ELECTRIC CO.
DONALD C. COOK NUCLEAR PLANT

DWN. S.E. DATE 1-8-76 AUXILIARY BLDG.
CKD. LDS DATE 9/6/72 DWG. NO. 2-NSW-114 SH. 2 OF 2 REV. 8
ISSUED
REF. DWG. P-5497