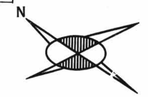
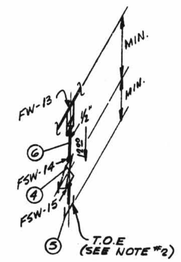
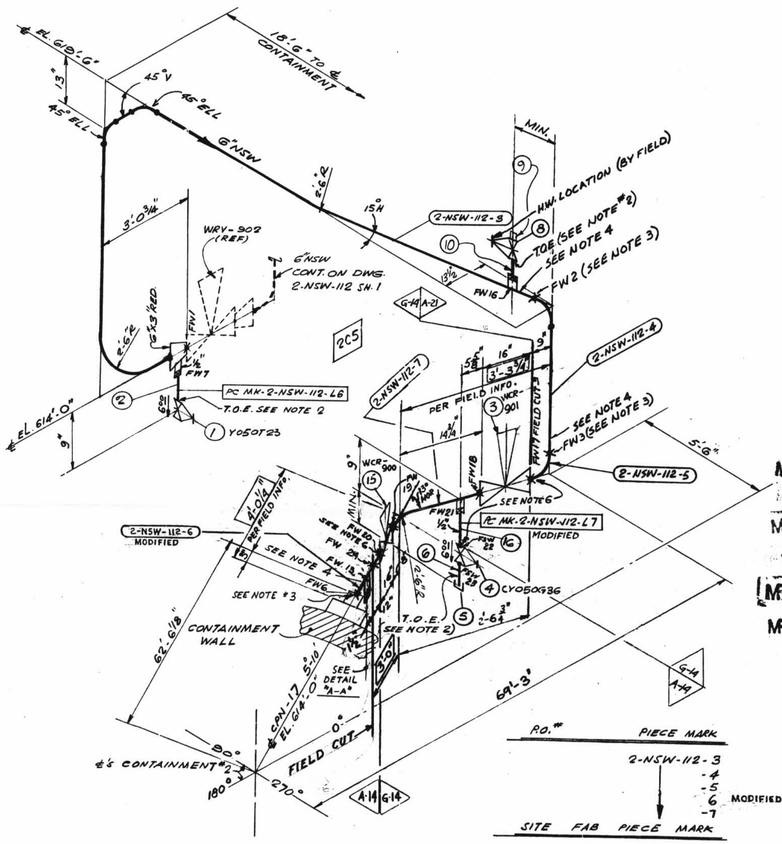
TOTAL FW
16





DETAIL "A-A"

TOTAL FW 8		
SIZE	QUAN.	FW
6"	2'	5
1/2"	1'	3



NOTES:

1. BUTT WELD FW'S ARE RT-100 % SOCKET WELD FW'S ARE MT OR PT-100%
2. USE CRANE 425-A COMPOUND ON ALL THRD CONNECTIONS.
3. 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.
4. FABRICATOR TO MAKE THIS END OF SPOOL 6" LONGER WITH PLAIN END TO FACILITATE INSTALLATION
5. WELD PROCEDURE AS FOLLOWS: C/S 2" & UNDER. C/S 2 1/2" & OVER.
6. PROVIDE BI-METALLIC WELDS (STAINLESS STEEL-CARBON STEEL)
7. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE.

SIZE	QUAN.	FW
6"	30'	7
1"	-	1
1/2"	2'	7
1/2"	1'	1

R.O.#	PIECE MARK
2-NSW-112-3	
-4	
-5	
-6	MODIFIED
-7	

SITE FAB PIECE MARK
2-NSW-112-L6
-L7

ISO SHT. NO. 2113

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L	HEAT NO.
01	1	1	1/2"	800# SCR'D. GLOBE VA BRONZE OR BRASS	Y050T23	
	2	AS REQ'D	1/2"	PIPE (SCH. 80) SMLS C.S.	A-106 GR. B.	
04	3	1	6"	B.W. DIAPH. CONTROL VA. S.S	WCR-901	
	4	2	1/2"	600# S.W. GATE VA. C.S.	CY050G36	
	5	2	1/2"	3000# SCR'D. C.S. CAP	A-181 GR. 70 & II	
	6	AS REQ'D	1/2"	PIPE (SCH. 80) SMLS. CS.	A-106 GR. B.	
01	8	1	1"	200# THR'D GLOBE VA BRASS OR BRONZE	Y-100T23	
	9	1	1"	3000# THR'D PLUG	A-181 Gr. I or II	
	10	AS REQ'D	1"	PIPE (SCH. 80) SMLS. C.S.	A-106 Gr. B	
04	15	1	6"	B.W. DIAPH. CONTROL VA. S.S.	WCR-900	
	16	AS REQ'D	1/2"	PIPE (SCH 40S) SMLS S.S.	A-312 GR TP-304	

REVISION RECORD

NO.	DATE	DR. CHK.	DESCRIPTION	REMARKS
1	1-20-76	D.K. B.R.	REVISED BY AEP DESIGN PER RFC DC-12-678 ADDED VA. C15E606A, 1" VENT VA. C1050G36, 1" VENT VA. N.S. N. 100T23.	ACTION REQ'D
2	1-3-77	W.R.	ADDED: PLUG TO VENT, ITEMS 9 & 10 TO B/M; REVISED ITEM 5 OF B/M; MIN. DIMEN. WAS 9" OF DET. "A-A".	
3	3/21/78	G.P. J.B.	AS PER RFC-12-1410 DELETED VALVE TAG NO. C15E606A, ADDED VALVE TAG NO. C15C606A & ITEMS 11 THRU 14 AND REUSED RELATED PIPING.	FIELD POSITION REQ'D
4	11/14/78	R.A. D.R.	PER, RFC#DC-12-2549 ADDED; PIPE SPEC. G-14, DIM'S, PCMK#7, FIELD WELD BOX, NOTES 6,7, FIELD WELDS 17 TO 21, FSW 22 & 23, ITEM NO'S 15 & 16 TO B/M, DELETED ITEM NO'S 7, 11, 12, 13 & 14 FROM B/M, PC MK. NO 2-NSW-112-6, REV: ITEM NO 13 B/M. MODIFIED PC. MK. L7.	FIELD ACTION REQ'D
5	9/26/79	K.A. D.L.F.	PER RFC DC-12-2549 ADDED DIM'S: 2'-6 1/4", 24" & 13"x108"	FIELD ACTION REQ'D
6	6/24/82	J.M. D.Z.	PER RFC DC-12-2549 RELOCATED FIELD CUT & BOXED DIMENSION INDICATES FIELD INFO & ADDED FW. 24, PC MK 2-NSW-112-6 MODIFIED.	FIELD ACTION REQ'D.

D-24B

2NSW-112 (sheet 2 of 2)
Lower Containment Ventilation
Unit 1 Supply Line

G-14 DESIGN SPEC. DCC PM 109 QCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL-4
WELD PROCEDURE
QSL-04 TESTING - SEE NOTE #1

A-14 DESIGN SPEC. DCCPM 109 QCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL-4
WELD PROCEDURE SEE NOTE 5
QSL-04 TESTING SEE NOTE 1

A-21 DESIGN SPEC. DCCPM 102 QCS
HANGER SEISMIC CLASS II
TEST REQUIREMENTS QL-N/A
WELD PROCEDURE SEE NOTE 5
QSL-01 TESTING N/A

DESIGN SPEC.	SEE
HANGER SEISMIC CLASS	DESIGN
TEST REQUIREMENTS	CODE
MATERIAL CLASS	STAMP

O.P. = OPENING POINT
T.O.E. = THREAD ONE END
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. = SWAGE ONE END
B.O.P. = BOTTOM OF PIPE ELEV.

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

B = FIELD WELD
O = AUTOMATIC SHOP WELD
M = MANUAL SHOP WELD
E = VERIFY DIMENSION IN FIELD

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

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

TESTING				
H.D.T. SEE DESIGN CODE STAMP				
M.T.	P.T.	R.T.	U.T.	
PRESSURE TEST				
MED.	PRESS.	DURATION		

ADDITIONAL

POUR/ZONE No. 2C5
REQUIRED COMPLETION DATE
FABRICATED BY TUBECO

FLOW DIAGRAM 2-5114A
O.S.L. SEE DESIGN
WELD PROCEDURE CODE STAMP

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.G.	DATE 1-18-72	CONTAIN. VICINITY	
CKD. LdB	DATE 7/6/78	DWG. NO. 2-NSW-112 SH. 2 OF 2	REV. 6
ISSUED			
REF. DWG. 2-5497A			