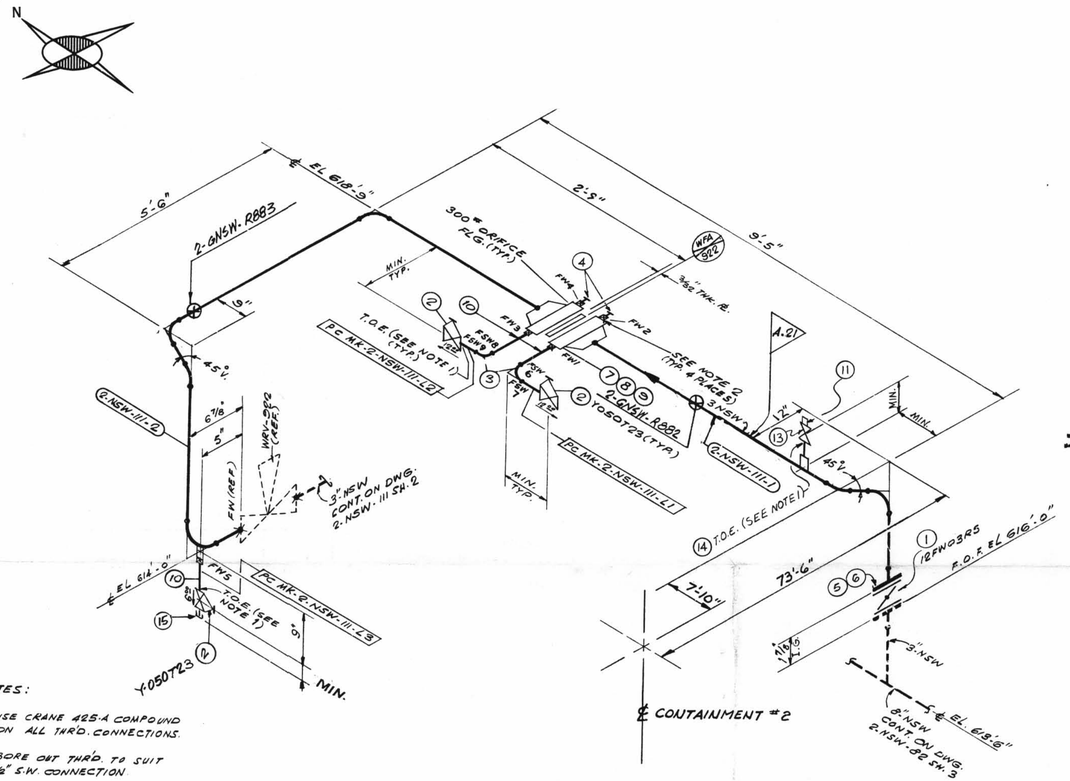
TOTAL FW 9



NOTES:

1. USE CRANE 425-A COMPOUND ON ALL THR'D. CONNECTIONS.
2. BORE OUT THR'D. TO SUIT 1/2" S.W. CONNECTION.
3. WELD PROCEDURE AS FOLLOWS:
   C/S 2" & UNDER-
   C/S 2 1/2" & OVER-

ISO SHT. NO. 2116

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	3	1/2"	200# THR'D. GLOBE VA. BRONZE OR BRASS	Y050T23	
	3	2	1/2"	3000# C.S. S.W. 90° ELL	A-181 GR. I OR II	
	4	2	1/2"	3000# C.S. S.W. PLUG.		
	5	4	5/8"Ø	5" LG. HEX. HD. MACH. BOLT.	A-307 GR. B.	
	6	4	5/8"	HEAVY HEX. NUT. CL. 2 TOL.		
	7	2	3	1/8" THK. SPIRAL WOUND STYLE CG. C.S. COMP. RING GASKET.	TYPE 304	
	8	8	3/4"Ø	4 1/2" LG. STUD BOLT	A-193 GR. B7	
	9	16	3/4	HEAVY HEX. NUT	A-194 GR. 2H.	
	10	AS REQD.	1/2"	PIPE (SCH. 80) SMLS. C.S.	A-106 GR. B	
	11	1	1"	PLUG THR'D 3000# C.S.	A-181 Gr. I or II	
01	13	1	1"	200# THR'D GLOBE VA. BRONZE OR BRASS	Y-100T23	
	14	AS REQD	1"	PIPE (SCH. 80) SMLS. C.S.	A-106 Gr. B	
	15	1	1/2"	3000# CAP. THR'D., C.S.	A-181 Gr. I or II	

REVISION RECORD

NO.	DATE	DR/CHK	DESCRIPTION	REMARK
1	12-30-76	NJP	ADDED: 1" VENT & ITEMS 11, 12, 13, & 14 TO B/M	
2	7/21/89	EBB/ DEM / LB	TO REFLECT AS-FOUND CONDITIONS FOR RFC-DC-12-3010. PER FWR #759 REV. 1, DELETED: 1/2" PLUG & ITEM NO. 12 ON B/M ADDED: SUPPORT MARK NOS. & SUPERSEDES HGR. 150. # 2-GNSW-111 SH. # 1. ADDED: 1/2" CAP & ITEM NO. 15 ON B/M TO SUIT	NO FIELD ACTION REQ'D.

P.O. #	PIECE MARK
	2-NSW-111-1
	-2

SITE FAB.	PIECE MARK
	2-NSW-111-L1
	-L2
	-L3

SUPPORT MARK NOS.

2-GNSW-R882
2-GNSW-R883

D-23A

INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

SUPPORT MARK NUMBERS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR SUPPLIES ONLY FOR DWG. FOR WHICH HANGER DESIGN IS ASSIGNED.

SIZE	QUAN.	FW
3	23	0
1/2"	2	9

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

W.P. = WORKING POINT
T.B.E. = THREAD BOTH END
T.S.E. = THREAD ONE END
B.B.E. = BEVEL BOTH ENDS
B.S.E. = BEVEL ONE END
T.O.P. = TOP OF PIPE ELEV.
G.S.L. = MATERIAL QUALITY REQUIREMENTS
T.L. = TRUE LENGTH
B.B.E. = BEVEL BOTH ENDS
P.B.E. = PLAIN BOTH ENDS
P.S.E. = PLAIN ONE END
S.B.E. = BUTTWELD BOTH ENDS
B.O.P. = BOTTOM OF PIPE ELEV.
FW = FIELD WELD
H = HORIZONTAL
V = VERTICAL
SW = SHOP WELD
FSW = FIELD SHOP WELD
O = FIELD WELD
O = AUTOMATIC SHOP WELD
O = MANUAL SHOP WELD
O = VERIFY DIMENSION IN FIELD

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

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. 255
REQUIRED COMPLETION DATE
FABRICATED BY FABECO

FLOW DIAGRAM 1-2-5114 A
O.S.L. 01
WELD PROCEDURE SEE NOTE 3

NPS DESIGNS INC.
NEW YORK, N.Y.

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

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

DWN. SG DATE 4-8-77 CONTAIN. VICINITY
CKD. LdB DATE 3/3/78
ISSUED
REF. DWG. 2-5487A
DWG. NO. 2-NSW-111 SH. 1 of 2.
REV. 2

2NSW-111 (sheet 1 of 2)
Upper Containment Ventilation
Unit 1 Supply Line