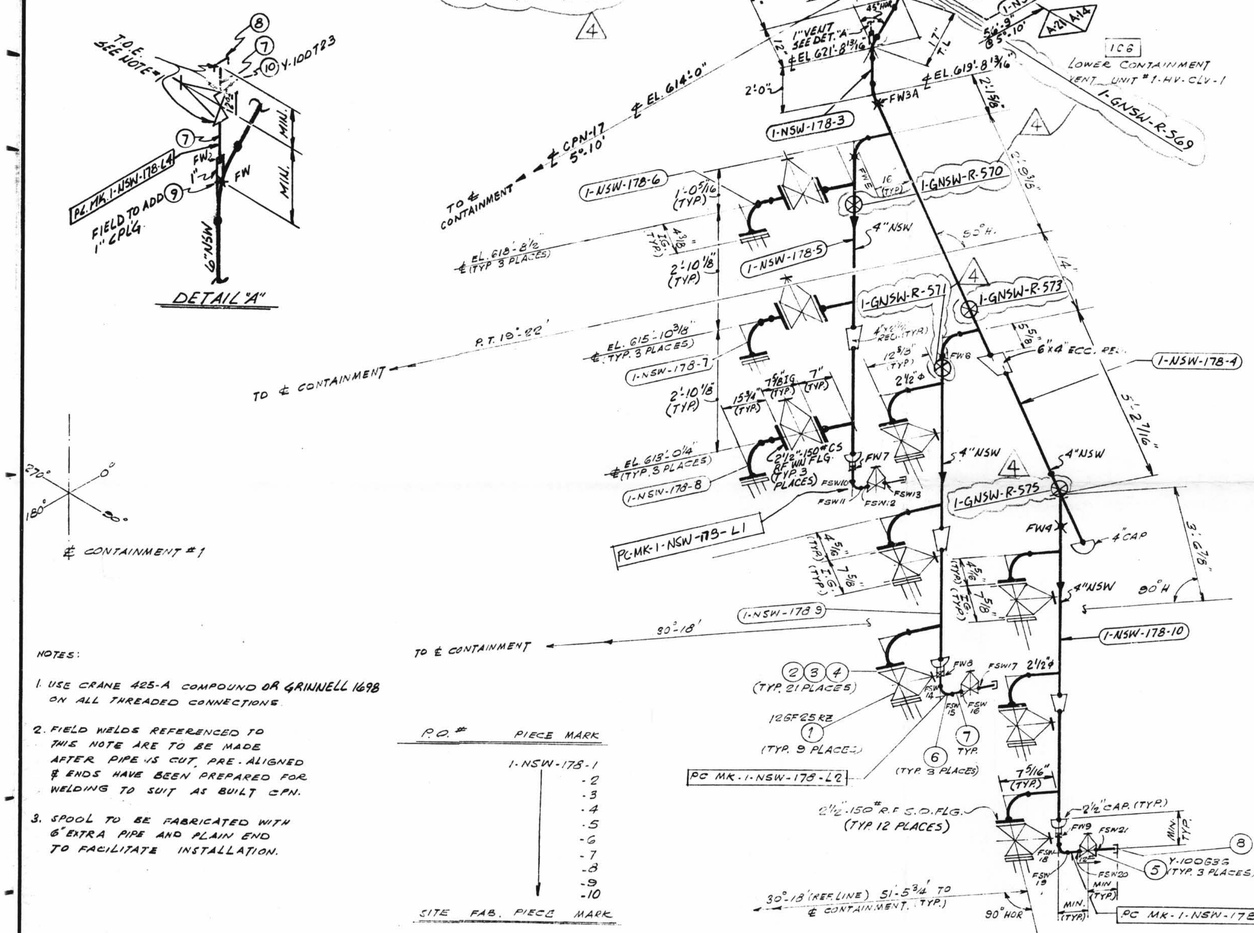
TOTAL FW 10

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

INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

HANGER MARK NOS
1-GNSW-R-569
1-GNSW-R-570
1-GNSW-R-571
1-GNSW-R-573
1-GNSW-R-575



NOTES:

1. USE CRANE 425-A COMPOUND OR GRINNELL 169B ON ALL THREADED CONNECTIONS.
2. FIELD WELDS REFERENCED TO THIS NOTE ARE TO BE MADE AFTER PIPE IS CUT, PRE-ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS BUILT CPN.
3. SPOOL TO BE FABRICATED WITH 6" EXTRA PIPE AND PLAIN END TO FACILITATE INSTALLATION.

P.O. #	PIECE MARK
	1-NSW-178-1
	-2
	-3
	-4
	-5
	-6
	-7
	-8
	-9
	-10
SITE FAB.	PIECE MARK
	1-NSW-178-L1
	-L2
	-L3
	-L4

SIZE	QUAN.	FW
6	22	3
4	20	3
2½	25	-
1	6	5

A-14 DESIGN SPEC. DCCPM 103 QCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL- 4
WELD PROCEDURE -
QSL- 04 TESTING 100% R.T. & M.

A-81 DESIGN SPEC. DCCPM 102 QCS
HANGER SEISMIC CLASS II
TEST REQUIREMENTS QL- N/A
WELD PROCEDURE -
QSL- 01 TESTING N/A.

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

R.P. = NORMING 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. = SHAPE ONE END
B.O.P. = BOTTOM OF PIPE ELEV.
FW = FIELD WELD
H = HORIZONTAL
V = VERTICAL
SW = SHOP WELD
FSW = FIELD SHOP WELD
⊠ = FIELD WELD
O = AUTOMATIC SHOP WELD
• = MANUAL SHOP WELD
⊗ = 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
						☒						
SMLS		WLDD										

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

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

ADDITIONAL

ISO SHT. NO. 2674

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
01	1	9	2½	125# C.I. FLGD. GATE VA	125F25RZ	
	2	21	2½	1/8" THK FULL FACE COMP ASBESTOS RUBBER BONDED GASKET		
	3	84	5/8 x 3	3" LG. HEX HD. MACH BOLT	A-307 GR. B	
	4	84	5/8	HEAVY HEX. NUT CL 2 TOL		
	5	3	1"	600# C.S. S.W. GATE VA	Y-100G33	
	6	3	1"	3000# C.S. S.W. 90° ELL	A-181 GR. I OR II	
	7	AS REQ'D	1"	PIPE (SCH. 80) C.S. SMLS	A-106 GR. B	
	8	4	1"	3000# C.S. THD. CAP	A-181 GR. I OR II	
	9	1	1"	3000# S.W. HALF CPL'G C.S.	A-181 GR. I OR II	
	10	1	1"	200# GLOBE VA. SCR'D OR BRASS BRONZE	Y-100T23	

REVISIONS

REV.	DATE	DR. CHK.	DESCRIPTION	REMARKS
1	7/13/72	JQ / LJB	ADDED: PC MK 1-NSW-178-10 & CHGD LOC. OF FW 4 TO SUIT. ADDED: HOLD TO PCS 1-NSW-178-1, 2 & 3; VARIOUS DIM'S AS NOTED. CHGD FABRICATOR	— / FAB. ACTION REQ'D
2	7/26/72	AS / LJB	REVISED CONFIGURATION OF PCS 1-NSW-178-1, 2 & 3 & REMOVED HOLDS ON SAME. A.E.P. ARRG'T DWG. 1-5692 REV. 4	— / FAB. ACTION REQ'D
3	3/15/73	J.Q. / I.F.	REVISED BY N.P.S. DESIGNS ADDED: 1" CPLG TO PC MK. 1-NSW-178-3, FW'S, FIELD NOTE, SITE FAB. PC MK. 1-NSW-178-L4, DET. "A"; B/M ITEMS ⑦ & ⑩ REV. NOTE #1, QTY OF B/M ITEM ⑧ WAS 3 PER A.E.P. ARRG'T. DWG. 1-5692 REV. 5	FIELD ACTION REQ'D / —
4	8/11/86	DK / LJB	PER RFC-DC-12-2876 ADDED SUPPORT MARK NOS, SUPERSEDED HGR. ISO 1-GNSW-178, TO REFLECT AS-BUILT CONDITIONS	NO FIELD ACTION REQ'D

D-64

1-NSW-178
Lower Containment Ventilation
Unit 1 Supply Line

POUR/ZONE No. 1CG
REQUIRED COMPLETION DATE
FABRICATED BY TAYLOR
FLOW DIAGRAM 1-5114-A
Q.S.L. SEE DESIGN
WELD PROCEDURE CODE STAMP

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. S.S. DATE 6/5/70 CONTAINMENT BLDG.
CKD. LJB DATE 7/29
ISSUED
REF. DWG. 1-5692
DWG. NO. 1-NSW-178
REV. 4