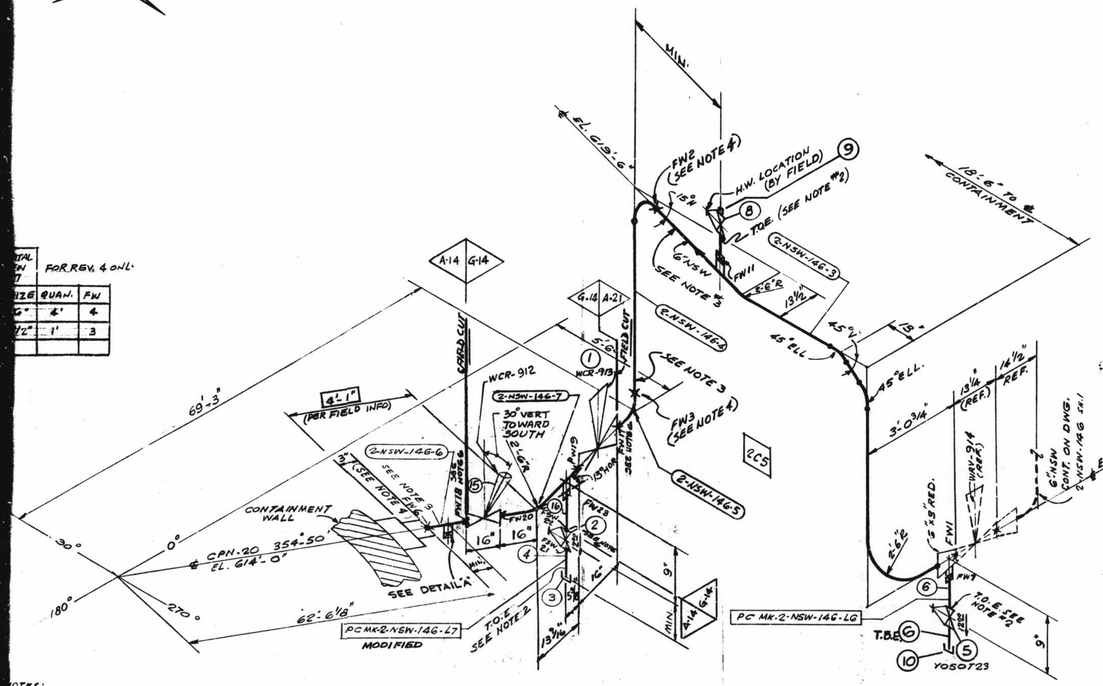
ISO SHT. NO. 2129

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	ASTM No. OR ASTM MAT'L.	HEAT NO.
04	1	1	6"	B.W. DIAPH. CONTROL VA. S.S.	WCR-913	
	2	2	½"	600# S.W. GATE VA C.S.	Y050G36	
	3	2	½"	3000# SCR'D CAP C.S.	A-181 GR. I OR II	
	4	AS REQ'D	½"	PIPE (SCH. 80) SMLS. C.S.	A-106 GR. B	
01	5	1	½"	200# SCR'D GLOBE VA. BRASS OR BRONZE	Y050T23	
	6	AS REQ'D	½"	PIPE (SCH. 80) SMLS C.S.	A-106 GR. B	
01	8	1	1"	200# SCR'D. GLOBE VA BRASS OR BRZ	Y-100T23	
	9	1	1"	PLUG, 3000# THDD, C.S	A-181 GR. I OR II	
	10	1	½"	CAP,		
04	15	1	6"	B.W. DIAPH. CONTROL VA. S.S.	WCR-912	
	16	AS REQ'D	½"	PIPE (SCH. 40S) SMLS S.S.	A-312 GR. TP 304	

REVISION RECORD				
NO.	DATE		DESCRIPTION	REMARKS
1	1-20-76	D.R. B.R.	REVISED BY A.E.P. DESIGN. PER RFC-DC-12-671. REV. ITEM # 4 Y-050G36 WAS Y-050G36, ADDED 6" CHECK VALVE-CISCEOGA, ½" DRAIN-VALVE NO. Y050T23, 1" VENT-VALVE NO. Y-100T23.	ACTION REQUIRED
2	12-2-76		ADDED ITEMS 9 & 10 TO B/M & WHERE NOTED.	
3	3/2/78	GP LB	AS PER RFC-12-1430 DELETED VALVE TAG NO. CISCEOGA, ADDED VALVE TAG NO. CISCWDGA & AFTER 1 YEAR, AS AND REVISED RELATED PIPING	FIELD ACTION REQ'D
MF 4	9/1/78	A.G.	PER RFC-DC-12-2549 ADDED PIPE SPEC G-14, DIM'S, P.C. MK 7, FIELD WELD BOX NOTES G & 7, FIELD WELDS 17 THRU 23, ITEM NOS. 15 & 16 TO B/M. DELETED ITEM NOS 7, 11, 12, 13 & 14 FROM B/M. REVISED ITEM NO 1 IN B/M & MODIFIED P.C. MK L7	FIELD ACTION REQ'D.
MF 5	9/28/78	KA DLF	PER RFC # DC-12-2549 ADDED DIM: 15 1/8" REF NOTE E 13" HOR.	FIELD ACTION REQ'D
MF 6	6/1/79	KA JM	PER RFC DC-12-2549 DELETED BOX DIM. 4'-4 1/8" WAS 15 1/16" 3" REF DIM AND 13 3/16" DIM.	FIELD ACTION REQ'D

TOTAL FOR REV. 4 ONL.		
SIZE	QUAN.	FW
6"	4'	4
½"	1'	3



NOTES:

BUTT WELD FW'S ARE RT-100% SOCKET WELD FW'S ARE MT OR PT-100%

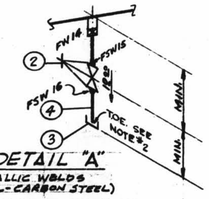
USE CRANE 425-A COMPOUND ON ALL THRD CONNECTIONS.

FABRICATOR TO MAKE THIS END OF SPOOL 6" LONGER WITH PLAIN END TO FACILITATE INSTALLATION

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-BUIL CPN.

WELD PROCEDURE AS FOLLOWS:
C/S 6" & UNDER-
C/S 2½" & OVER-

QUAN.	FW
30'	7
—	1
—	1
2'	7



DETAIL "A"

6. PROVIDE BI-METALLIC WELDS (STAINLESS STEEL-CARBON STEEL)

7. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE

P.O.#	PIECE MARK
2-NSW-146-	3
	-4
	-5
	-6
	-7

SITE FAB. PIECE MARK
2-NSW-146-LG
-L7

G-14 DESIGN SPEC DCCPM 1090CN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL-4
WELD PROCEDURE
QSL-04 TESTING SEE NOTE #1

A-14 DESIGN SPEC DCCPM 1030CN
HANGAR SEISMIC CLASS I
TEST REQUIREMENTS QL-4
WELD PROCEDURE SEE NOTE 5
QSL-04 TESTING SEE NOTE 1

A-21 DESIGN SPEC DCCPM 1020CS
HANGAR SEISMIC CLASS I
TEST REQUIREMENTS QL-N/A
WELD PROCEDURE SEE NOTE 5
QSL-01 TESTING N/A

DESIGN SPEC.	E&E
HANGER SEISMIC CLASS	DESIGN
TEST REQUIREMENTS	CODE
MATERIAL CLASS	STAMP

B.P. = BEVELING POINT
T.O.C. = THREAD ONE END
T.O.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.O.E. = BEVEL LEFT END
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			GR TP304									
STD.	XY	XXY	10	20	30	40	60	80	100	120	140	160
						X							
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

NPS DESIGNS INC.
NEW YORK, N.Y.

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

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

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

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

DWN. S.G. DATE 1-8-72 CONTAIN. VICINITY
CKD. LJB DATE 1/31/72
ISSUED
REF. DWG. 2-5497A
DWG. NO. 2-NSW-146 SH. 2 OF 2
REV. 6

D-35B

2NSW-146 (sheet 2 of 2)
Lower Containment Ventilation
Unit 4 Supply Line