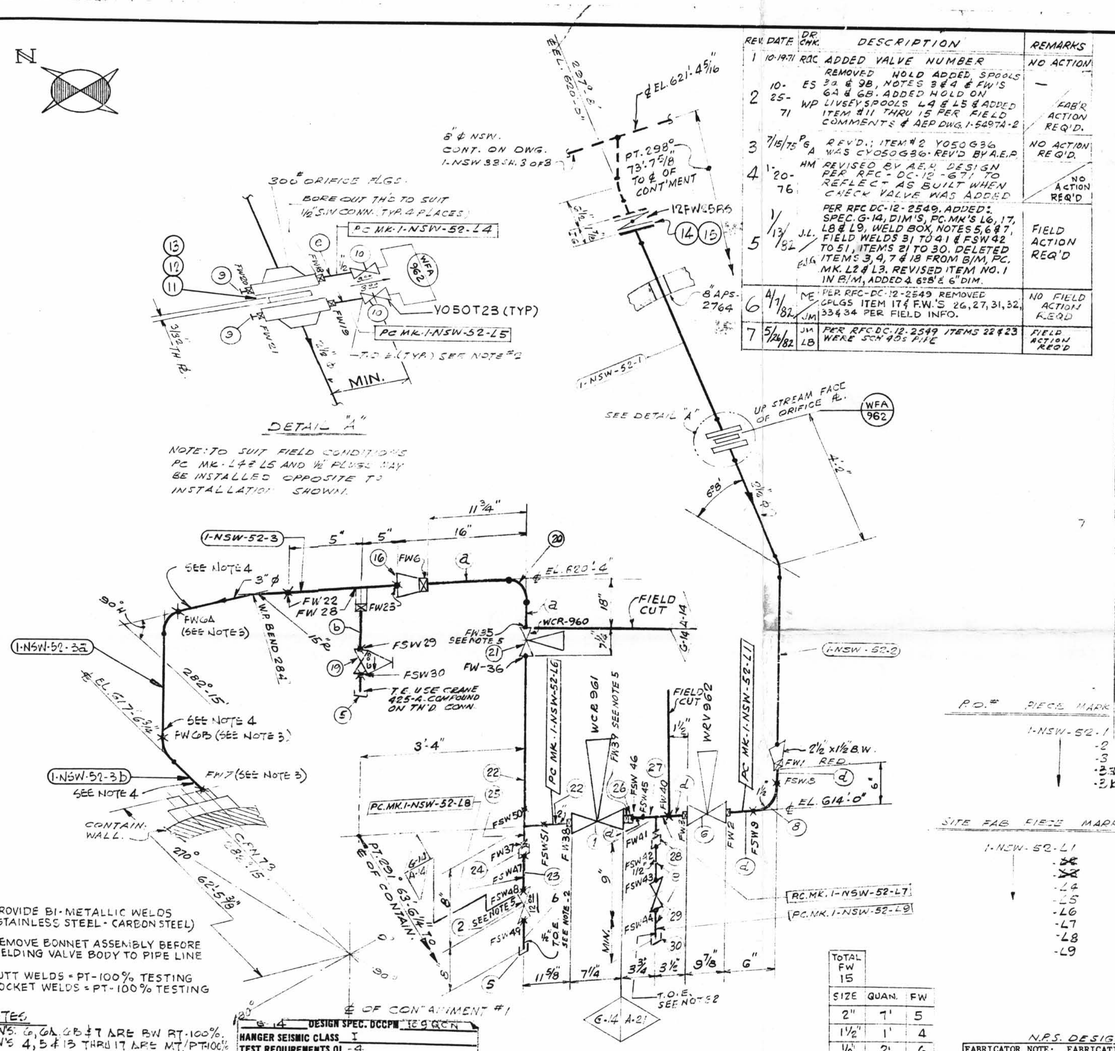

REV	DATE	DR. CHK.	DESCRIPTION	REMARKS
1	10-19-71	RJC	ADDED VALVE NUMBER	NO ACTION
2	10-25-71	ES WP	REMOVED HOLD ADDED SPOOLS 3a & 9B, NOTES 3 & 4 & FW'S G4 & G8. ADDED WELD ON LIVSEY SPOOLS L4 & L5 & ADDED ITEM #11 THRU 15 PER FIELD COMMENTS & AEP DWG. 1-5497A-2	FAB'R ACTION REQ'D.
3	7/15/75	P.G. A	REV'D.: ITEM #2 Y050G36 WAS CY050G36. REV'D BY A.E.P.	NO ACTION REQ'D.
4	1-20-76	HM	REVISED BY A.E.P. DESIGN PER RFC-DC-12-671 TO REFLECT AS BUILT WHEN CHECK VALVE WAS ADDED	NO ACTION REQ'D
5	1/13/82	JL EGK	PER RFC DC-12-2549, ADDED: SPEC. G-14, DIM'S, PC MK'S L6, L7, L8 & L9, WELD BOX, NOTES 5, 6 & 7, FIELD WELDS 31 TO 41 & FSW 42 TO 51, ITEMS 31 TO 30. DELETED ITEMS 3, 4, 7 & 18 FROM B/M, PC. MK. L2 & L3. REVISED ITEM NO. 1 IN B/M, ADDED 4.638'ℓ 6" DIM.	FIELD ACTION REQ'D
6	4/7/82	ME JM	PER RFC DC-12-2549 REMOVED SFLGS ITEM 17 & F.W.'S 26, 27, 31, 32, 33 & 34 PER FIELD INFO.	NO FIELD ACTION REQ'D
7	5/24/82	JM LB	PER RFC DC-12-2549 ITEMS 22 & 23 WERE SCH 40S PIPE	FIELD ACTION REQ'D

MATERIAL 150 SH. No. 1312

OSL	ITEM	QTY	SIZE	DESCRIPTION	TAG No. OR ASTM MAT'L	HEAT NO.
04	1	1	2"	S.W. DIAPH. CONTROL VA. S.S.	WCR 961	
	2	1	½"	600# S.W. C.S. GATE VALVE	Y050G36	
04	5	2	½"	C.S SOCK CAP 3000#	A-181 GR. I OR II	
01	6	1	1½"	CONTROL VALVE	WRV-962	
	8	1	1½"	S.W C.S. 90° ELL 3000#	A-181 GR I OR II	
	9	2	½"	PLUGS C.S. S.W. 3000#	"	
	10	2	½"	900# GLOBE VA. SOCKET WELD OR BRAZED	Y050T23	
04	11	1	2½"	GASKET, SPIRAL WOUND, STYLE CG, 1/16" THK. C.S. COMPRESSION RING, TYPE 304 S.S. WINDINGS & ASBESTOS FILLER		
04	12	8	¾" ⌀ 4"	LONG STUD BOLTS	A-193 GR. B7	
04	13	16	¾"	NUTS: HEXAGON, HEAVY SERIES	A-194 GR. 2H	
04	14	4	⅝" ⌀ 5"	LONG HEX HD. MACH BOLTS	A-307 GR. B	
04	9	AS REQ'D	2"	PIPE (SCH. 80) SMLS. C.S.	A-106 GR B	
04	6	"	1½"	"	"	
01	7	"	2"	"	"	
01	8	"	1½"	"	"	
01	9	"	1½"	"	"	
04	15	4	⅝"	HEAVY HEX NUT, CLASS 2 TOL.	A-307 GR B	
	16	1	3x2"	REDUCER	A-181 GR. I OR II	
04	19	1	½"	600# C.S. S.W. GLOBE VALVE	Y050T36	
04	20	1	2"	SW 90° ELL - 3000#	A-105 II	
	21	1	2"	S.W. DIAPH. CONTROL VA. S.S.	WCR-960	
	22	AS REQ'D	2"	PIPE (SCH. 80S) S.S.	A-312 GR TP 304	
	23	AS REQ'D	½"	PIPE (SCH. 80S) S.S.	"	
	24	1	2"x1½"	RED. INSERT S.S. 3000#	A-182 GR. F 304	
	25	1	2"	TEE S.W. S.S. 3000#	"	
01	26	1	2"x1½"	RED. INSERT C.S. 3000#	A-181 GR. I OR II	
	27	1	1½"	TEE S.W. C.S. 3000#	"	
	28	1	1½"x½"	RED. INSERT C.S. 3000#	"	
	29	1	½"	600# S.W. C.S. GATE VALVE	Y050G36	
	30	1	½"	CAP SCR'D C.S. 3000#	A-181 GR. I OR II	

P.O.# PIECE MARK
1-NSW-52-1
-2
-3
-3a
-3b

SITE FAB PIECE MARK
1-NSW-52-L1
-L2
-L3
-L4
-L5
-L6
-L7
-L8
-L9

D-83

LABOR COST CONTROL	
USE ONLY WITH	
PIPE SIZE	
SCHEDULE	
TYPE	
ISO START DATE	
ISO FINISH DATE	
WORK OPERATION	LINE ITEM NUMBER
HANGER INST.	
ERECT	
WELD	
RADIO-G – X-RAY	
STRESS RELIEVE	
MISC. WORK	

LABOR COST CONTROL	
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ERECT	
WELD	
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STRESS RELIEVE	
MISC. WORK	

5. PROVIDE BI-METALLIC WELDS (STAINLESS STEEL - CARBON STEEL)
6. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE
7. BUTT WELDS = PT-100% TESTING
SOCKET WELDS = PT-100% TESTING

NOTES:
1. FW'S: G, GA, GB & 7 ARE BW RT-100%. FW'S 4, 5 & 13 THRU 17 ARE MT/PT 100%
2. USE CRANE 425-A COMPOUND ON ALL THRD CONNS.
3. FIELD WELDS REFERENCED TO THIS NOTE ARE TO BE MADE AFTER PIPE IS CUT, ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS BUILT CPN.
4. SPOOL TO BE FABRICATED WITH 6" EXTRA PIPE AND PLAIN END TO FACILITATE INSTALLATION.

⌀ 14 DESIGN SPEC. DCCPM 12 9 QCR	
HANGER SEISMIC CLASS I	
TEST REQUIREMENTS QL-4	
WELD PROCEDURE	
QSL-04 TESTING SEE NOTE 7	
A-21 DESIGN SPEC. DCCPM 102 QCS	
HANGAR SEISMIC CLASS II	
TEST REQUIREMENTS QL-1	
WELD PROCEDURE 25-21	
QSL-01 TESTING N/A	
A-14 DESIGN SPEC. DCCPM 103 QCN	
HANGAR SEISMIC CLASS	
TEST REQUIREMENTS QL-4	
WELD PROCEDURE 25-21	
QSL-06 TESTING SEE NOTE #1	

DESIGN SPEC	SEE
HANGER SEISMIC CLASS	[illegible]
TEST REQUIREMENTS	[illegible]
MATERIAL CLASS	[illegible]

A.P. - APPROXIMATE 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.
T.S.L. - THERMAL SENSITIVITY 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.
F.W.F. - FIELD WELD
H - HORIZONTAL
V - VERTICAL
SW - SHOP WELD
FSW - FIELD SHOP WELD
F - FIELD WELD
A - AUTOMATIC SHOP WELD
M - MANUAL SHOP WELD
* - VERIFY DIMENSION IN FIELD

PIPE													
A-53		A-106		A-376		A-312							
		GR. B				GR. 304							
STD.	XS	XXS	10	20	30	40	60	80	100	120	140	160	
SWLS		WLDD											

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

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

ADDITIONAL

TOTAL FW 15		
SIZE	QUAN.	FW
2"	7'	5
1½"	1'	4
½"	2'	6

N.P.S. DESIGNS

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

POUR/ZONE No. 1C5 FLOW DIAGRAM 1-5114A
REQUIRED COMPLETION DATE Q.S.L. SEE DESIGN
FABRICATED BY TUBECO WELD PROCEDURE CODE 21 AMP

REVISION RECORD		
NO.	DATE	DESCRIPTION

1NSW-52
Instrument Room Ventilation
Unit 4 Supply Line

LIVSEY & COMPANY, INC.
DONALD C. COOK NUCLEAR PLANT

DWN. S.G.	DATE 8-25-71	CONTAIN. VICINITY	
CKD. GN	DATE 10-5-71	DWG. NO. 1-NSW-52	REV. 7
ISSUED			

REF. DWG. 1-5497A