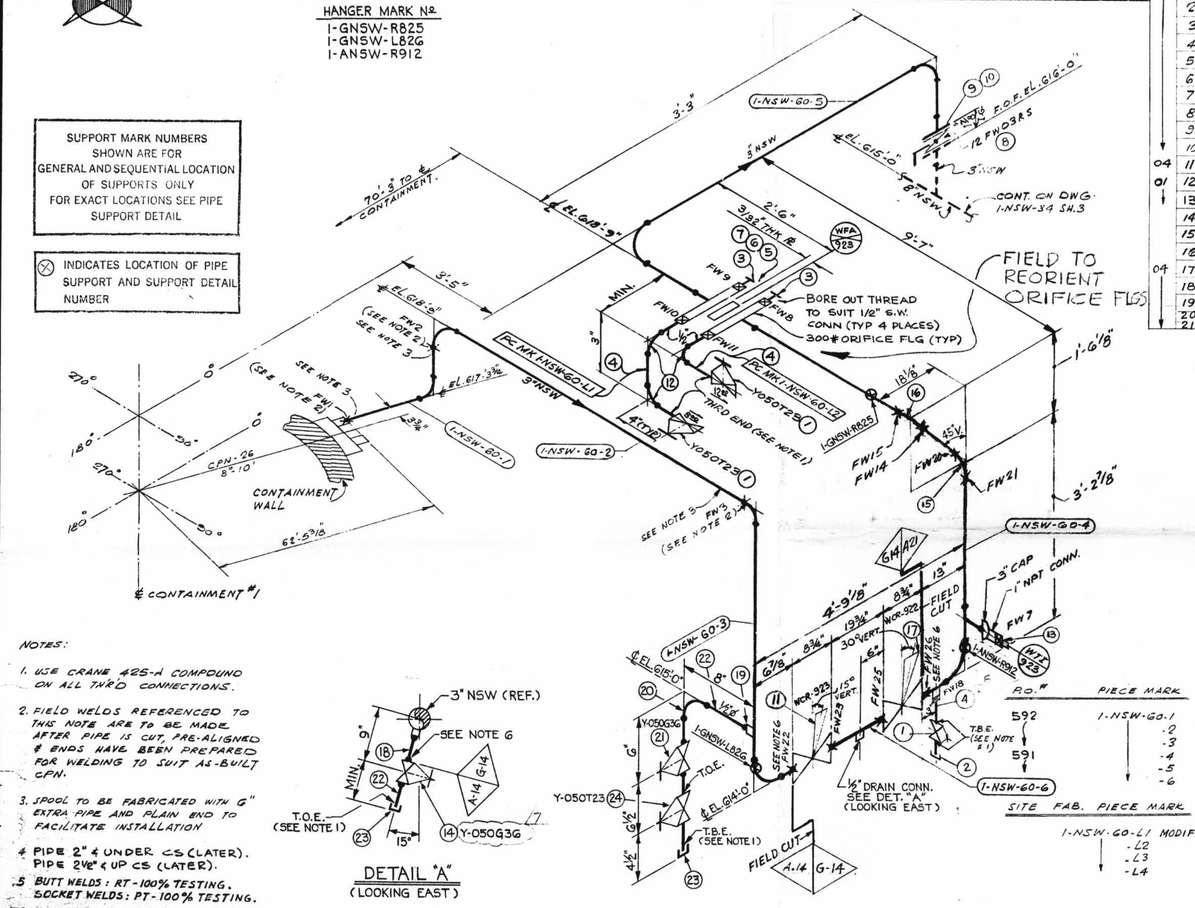
04	22	AS REQ'D	1½"	PIPE (SCH. 80) SMLS C.S.		A-106 GR. B
	23	2	1½"	3000# SCR'D C.S. CAP		A-181 GR. I OR II
	24	1	1½"	200# SCR'D. GLOBE VA.	BRONZE OR BRASS	Y-050T23

MATERIAL ISO SW. No. 1320

QSL	ITEM	QTY.	SIZE	DESCRIPTION	TAG No. OR ASTM MATL	HEAT NO.
01	1	3	1½"	200# SCR'D. GLOBE VA BRONZE OR BRASS	Y050T23	
	2	1	1½"	SCRD CAP C.S. 3000#	A-181 GR. I OR II	
	3	2	1½"	S.W. PLUG C.S. 3000#	A-181 GR. I OR II	
	4	AS REQ'D	1½"	PIPE (SCH 80) SMLS C.S.	A-106 GR. B	
	5	2	3"	1/8" THK SPIRAL WOUND FLEXITALLIC GASKET STYLE CG TYPE 304		
	6	8	3/4 x 4½"	LG. STUD BOLTS	A-193 GR. B7	
	7	16	3/4"	HEAVY HEX. NUTS	A-194 GR. 2H	
	8	1	3"	125# CI WAFER BUTTERFLY VA.	12 FN03RS	
	9	4	5/8 x 5"	LG. HEX. HD MACH. BOLTS	A-307 GR. B	
	10	4	5/8"	HEAVY HEX. NUT CL. 2 TOL.	A-307 GR. B	
04	11	1	3"	B.W. DIAPH. CONTROL VALVE, S.S.	WCR-923	
01	12	3	1½"	3000# C.S. SW 90° ELL	A-181 GR. I OR II	
	13	1	1"	THERMOWELL	WT1-923	
	14	1	1½"	600# CS. SW GATE VALVE	Y-050G36	
	15	1	3"	45° ELL SCH. 40 BW		
	16	1	3"	90° ELL. SCH. 40 C.S. BW		
04	17	1	3"	B.W. DIAPH. CONTROL VALVE, S.S.	WCR-922	
	18	AS REQ'D.	½"	PIPE (SCH. 40S) SMLS., S.S.	A-312 GR. TP-304	
	19	1	½"	3000# C.S., S.W. ½ CPLG.	A-181 GR. I OR II	
	20	1	½"	3000# C.S., S.W. 90° ELL.		
	21	1	½"	600# C.S., S.W. GATE VALVE	Y050G36	

REV	DATE	DR CHK	DESCRIPTION	REMARKS
1	5/1/72	SG GN	REVISED ORIENTATION OF ORIFICE FLG'S AND ADDED NOTE FOR FIELD REWORK. ADDED: ITEM 12 & 13, P.O. #. REVISED: PIPING FOR WFA-923; NOTE 4. DELETED: TOTAL NO. OF FW'S. PER A.E.P. DWG 1-5497A-4.	FIELD ACTION REQ'D
2	1-20-76	A.M.	REVISED BY A.E.P. DESIGN PER RFC-DC-12-GP7 TO REFLECT AS BUILT WHEN ISOLATION VALVE WAS ADDED.	NO ACTION REQ'D
3	3/2/77	HWK	PER RFC-01-2007 REMOVED INSTR. CONN WPX-923	
4	1/13/82	WT DR	PER RFC-DC-12-2549, ADDED; PIPE SPEC. G-14, DIM'S, PC MK-6 & L4, WELD BOX, NOTES 5, 6 & 7. FIELD WELDS FW22 TO 28 & FSW 29 & 34, ITEM NOS. 11 TO 13, & REVISED ITEM 2611 IN B/M, RELOCATED DRAIN VALVE	FIELD ACTION REQ'D.
5	4/26/84	ME JM	PER RFC-DC-12-2549 REMOVED MPX 923 PER AS-BUILT	NO ACTION REQ'D
6	7/1/85	RJL RZR	PER RFC-DC-12-2812, ADDED DET. "A" & VALVE Y-050T23, REVISED PIPING, DIM'S. & B/M TO SUIT. ADDED SUPPORT DETAILS & SUPERSEDED HANGER 150. 1-GNSW-G0. REV. 2. ALL ABOVE TO REFLECT AS-BUILT CONDITIONS PER UNIQUE # 1609 & 1610.	NO ACTION REQ'D.
7	9/11/86	DKJ	PER RFC-DC-12-2876 REV'D VALVE TYPE TO REFLECT AS-BUILT CONDITIONS.	NO FIELD ACTION REQ'D



NOTES:

1. USE CRANE 425-A COMPOUND ON ALL THRD 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
4. PIPE 2" & UNDER CS (LATER). PIPE 2½" & UP CS (LATER).
5. BUTT WELDS: RT-100% TESTING. SOCKET WELDS: PT-100% TESTING.
6. PROVIDE BI-METALLIC WELDS. (STAINLESS STEEL-CARBON STEEL)
7. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE.

SIZE	QUAN.	FW
3"	2'-10"	10

TOTAL FW 13 FOR REV. 4 ONLY

QUAN.	FW
2'-0"	4
1'-0"	9

G-14 DESIGN SPEC. DCCPM 102 QCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL 4
WELD PROCEDURE
QSL 04 TESTING SEE NOTE 5

A-21 DESIGN SPEC. DCCPM 102 QCS
HANGER SEISMIC CLASS II
TEST REQUIREMENTS QL- N/A
WELD PROCEDURE SEE NOTE 4
QSL- 21 TESTING N/A

A-14 DESIGN SPEC. DCCPM 103 QCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL- 4
WELD PROCEDURE SEE NOTE 4
QSL- 24 TESTING RT-100% BW

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

B.P. = WORKING 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
B = FIELD WELD
A = AUTOMATIC SHOP WELD
M = MANUAL SHOP WELD
V = VERIFY DIMENSION IN FIELD

PIPE: A-53, A-106 GR. B, A-376, A-312 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

N.P.S. DESIGNS

FABRICATOR NOTE: FABRICATION MUST CONFORM TO LATEST A.E.P. ARRGT. DWGS. 1-5497A

PIECE MARK	
592	1-NSW-G0-1
	-2
	-3
591	-4
	-5
	-6

PIECE MARK	
	1-NSW-G0-L1 MODIFIED
	-L2
	-L3
	-L4

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	
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	

POUR/ZONE No. 1C5
REQUIRED COMPLETION DATE
FABRICATED BY TOBECO
FLOW DIAGRAM 1-5114A
Q.S.L. SEE DESIGN
WELD PROCEDURE CODE S-4 MP

REVISION RECORD

1NSW-60
Upper Containment Ventilation
Unit 1 Return Line

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

DWN: J.S. DATE: 11-12-71 CONTAIN. VICINITY
CKD: GB DATE: 11-12-71 DWG. NO. 1-NSW-60 REV 7
ISSUED
REF. DWG. 1-5497A

D-05