04	22	AS REQ'D	1½"	PIPE (SCH. 80) SMLS C.S.	A-106 GR. B	
	23	2	¾"	3000# SCR'D C.S. CAP	A-181 GR. I OR II	
	24	1	½"	200# SCR'D. GLOBE VA. BRONZE OR BRASS	Y-050T23	

OSL	ITEM	QTY.	SIZE	DESCRIPTION	TAG No. OR ASTM MAT'L	HEAT NO.
				MATERIAL ISO SW. No. 1320		
01	1	3	½"	200# SCR'D. GLOBE VA BRONZE OR BRASS	Y050T23	
	2	1	½"	SCRD CAP C.S. 3000#	A-181 GR. I OR II	
	3	2	½"	S.W. PLUG C.S. 3000#	A-181 GR. I OR II	
	4	AS REQ'D	½"	PIPE (SCH 80) SMLS C.S.	A-106 GR. B	
	5	2	3"	⅛" THK SPIRAL WOUND FLEXITALLIC GASKET STYLE CG TYPE 304		
	6	8	⅝ø	4½" LG. STUD BOLTS	A-193 GR. B7	
	7	16	¾"	HEAVY HEX. NUTS	A-194 GR. 2H	
	8	1	3"	125# CI WAFER BUTTERFLY VA.	12 FW10 RS	
	9	4	⅝"	5" LG. HEX. HD. MACH. BOLTS	A-307 GR. B	
	10	4	⅝"	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	½"	3000# C.S. SW 90° ELL	A-181 GR. I OR II	
	13	1	1"	THERMOWELL	WTI-923	
	14	1	½"	600# C.S. 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	W.M.	REVISED BY A.E.P. DESIGN PER RFC-DC-12-G71 TO REFLECT AS BUILT WHEN ISOLATION VALVE WAS ADDED.	NO ACTION REQ'D.
3	3/2/77	WWK	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: G8 L4, WELD BOX, NOTES 5, 6 & 7, FIELD WELDS FW22 TO 28 & FSW 29 & 34, ITEM NOS. 17 TO 23, & REVISED ITEM 2611 W 5/4, RELOCATED DRAIN VALVE	FIELD ACTION REQ'D.
5	4/6/84	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. & BOM TO SUIT. ADDED SUPPORT DETAILS & SUPERSEDED HANGER 150, I-GNSW-G0 REV. 2. ALL ABOVE TO REFLECT AS-BUILT CONDITIONS PER UNIQUE # 1609 & 1610.	NO ACTION REQ'D.
7	9/11/91	DK/ [illegible]	PER RFC-DC-12-2876 REV'D VALVE TYPE TO REFLECT AS-BUILT CONDITIONS.	NO FIELD ACTION REQ'D

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		

HANGER MARK Nº
I-GNSW-R825
I-GNSW-L82G
I-ANSW-R912

SUPPORT MARK NUMBERS SHOWN ARE FOR GENERAL AND SEQUENTIAL LOCATION OF SUPPORTS ONLY FOR EXACT LOCATIONS SEE PIPE SUPPORT DETAIL

⊗ INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

TOTAL FW 21

FIELD TO REORIENT ORIFICE FLG'S

BORE OUT THREAD TO SUIT 1/2" S.W. CONN (TYP 4 PLACES) 300# ORIFICE FLG (TYP)

CONT. ON DWG. I-NSW-34 SH. 3

CONTAINMENT WALL

℄ CONTAINMENT #1

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.

DETAIL "A" (LOOKING EAST)

½" DRAIN CONN. SEE DET. "A" (LOOKING EAST)

P.O.#	PIECE MARK
592	I-NSW-G0-1 -2
591	-3 -4 -5 -6

SITE FAB. PIECE MARK
I-NSW-G0-L1 MODIFIED -L2 -L3 -L4

N.P.S. DESIGNS

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

SIZE	QUAN.	FW
3"	21	10

TOTAL FW 13 FOR REV. 4 ONLY

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

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

A-21 DESIGN SPEC. DCCPM 102 GCS
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 GCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL- 4
WELD PROCEDURE SEE NOTE 4
QSL- 04 TESTING ET 100% BW

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

B.P. = BORING 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
O = AUTOMATIC SHOP WELD
M = MANUAL SHOP WELD
I = 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				
N.D.T. SEE DESIGN CODE STAMP				
M.T.	P.T.	R.T.	U.T.	
PRESSURE TEST				
MED.	PRESS.	DURATION		

ADDITIONAL

POUR/ZONE No. 1C5 FLOW DIAGRAM 1- S114A
REQUIRED COMPLETION DATE O.S.L. SEE DESIGN
FABRICATED BY TK/BECO WELD PROCEDURE CODE STAMP

REVISION RECORD

1NSW-60
Upper Containment Ventilation Unit 1 Return Line

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

DWN: J.G.	DATE: 11-4-71	CONTAIN. VICINITY	
CKD: GB	DATE: 11-12-71	DWG. NO.	REV
ISSUED		1-NSW-60	7
REF. DWG. 1-5497A			

D-05