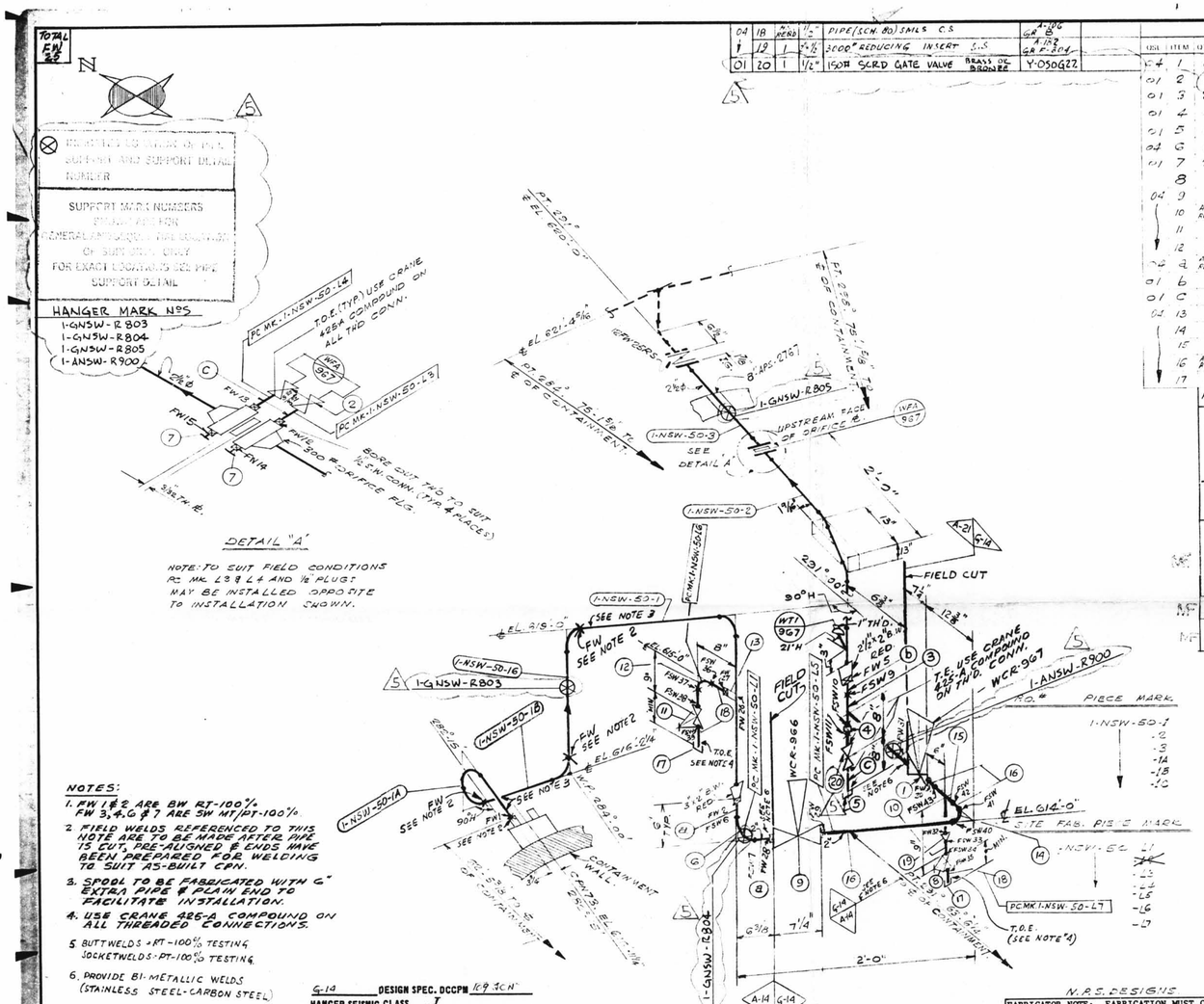
04	18	AS REQ'D	1/2"	PIPE (SCH. 80) SMLS. C.S.		A-106 GR. B	
1	12	1	3"x1/2"	3000# REDUCING INSERT S.S.		A-182 GR. F-304	
01	20	1	1/2"	150# SCRD GATE VALVE	BRASS OR BRONZE	Y-050G22	

				MATERIAL	ISO. SH. No. 1310		
USE	ITEM	QTY.	SIZE	DESCRIPTION		TAG No. OR ASTM MATL.	HEAT NO.
04	1	1	2"	S.W. DIAPH. CONTROL VA. S.S.		WCR-966	
01	2	(2)	1/2"	3000# SCRD GLOBE VA.	GRANITE GRANCASE	Y-050T-25	
01	3	2	2"	S.W. C.S. TEE 3000#		A-181 GR. II	
01	4	1	2"x1/2"	RED. INSERT 3000#		"	
01	5	1	1/2"	SCRD. CAP. 3000#		"	
04	6	1	2"	S.W. C.S. 90° ELL. 3000#		"	
01	7	2	1/2"	PLUG C.S. 3000#		"	
	8	1	1/2"	600# C.S. S.W. GLOBE VA.		Y-050T-26	
04	9	1	2"	S.W. DIAPH. CONTROL VA. S.S.		WCR-967	
	10	AS REQ'D	1/2"	PIPE (SCH. 80) S.S. SMLS. S.S.		A-312 GR. TP-304	
	11	1	1/2"	600# GATE VALVE S.W. C.S.		Y-050G-26	
	12	1	1/2"	90° ELL. S.W. C.S. 3000#		A-181 GR. II	
04	13	AS REQ'D	2"	PIPE (SCH. 80) SMLS. C.S.		A-106 GR. B	
01	6	"	2"	"		"	
01	0	"	1/2"	"		"	
04	13	1	1/2"	HALF COUP. S.W. C.S. 3000#		A-105 GR. II	
	14	1	2"	3000# 90° ELL. S.W. S.S.		A-182 GR. F-304	
	15	1	2"	3000# TEE S.W. S.S.		A-312 GR. TP-304	
	16	AS REQ'D	2"	PIPE (SCH. 80) SMLS. S.S.		A-312 GR. TP-304	
	17	2	1/2"	3000# CAP THRD. CAP. C.S.		A-181 GR. II	

REV.	DATE	DR. CHK.	DESCRIPTION	REMARKS
1	18 Aug 72	I.P.	REVISED BY NPS DESIGNS: REMOVED HOLD ON PC MK 1-NSW-50-1, ADDED: PC MKS 1-NSW-50-1A, 1B & 1C, NOTES 2 & 3 FWS. PER DWG 1-5497A, REVISION 5	FIELD ACTION REQ'D —
2	1-20-76	HM	REVISED BY A.E.P. DESIGN PER REC-DC-12-571 TO REFLECT AS BUILT WHEN CONTROL VALVE WAS ADDED.	NO ACTION REQ'D.
3	11/12/82	K.A. E.J.G.	PER REC DC-12-2549 ADDED: PIPE SPEC G-14 DIM'S, PC MK L5, L6 & L7, WELD BOX, NOTES 5, 6 & 7, FIELD WELDS FW 26 TO 32, FSW 33 TO 43. ITEM NOS 9 TO 19 TO B.M. RE-VISED ITEM Nos 15, 6 & 8 W.R.W. DELETED PC MK L2, ADDED DIM'S FOR OFFSET.	FIELD ACTION REQ'D
4	5/14/82	J.M. LB	PER REC-DC-12-2549 ITEMS 10 & 16 WERE SCH. 40 S PIPE	FIELD ACTION REQ'D
5	5/1/84	DK/ LB	PER REC-DC-12-2876 ADDED ITEM 20 AND SUPPORT MARK Nos, SUPERSEDED HGR ISO 1-GNSW-50. ALL ABOVE TO REFLECT AS-BUILT CONDITIONS.	NO FIELD ACTION REQ'D



NOTES:

1. FW 1 & 2 ARE BW RT-100%. FW 3, 4, 6 & 7 ARE SW MT/PT-100%.
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 CDN.
3. SPOOL TO BE FABRICATED WITH 6" EXTRA PIPE & PLAIN END TO FACILITATE INSTALLATION.
4. USE CRANE 485-A COMPOUND ON ALL THREADED CONNECTIONS.
5. BUTTWELDS - RT-100% TESTING, SOCKETWELDS - 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	18	4
2½	8	—
2	3	14
½	1	7

TOTAL FW 18	FOR REV. 3 ONLY	
SIZE	QUAN	FW
2"	2'	9
1½"	3'	9

G-14 DESIGN SPEC. DCCPM 109 SCN
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-1
WELD PROCEDURE
QSL-01 TESTING N/A

A-14 DESIGN SPEC. DCCPM 102 SCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL-4
WELD PROCEDURE
QSL-04 TESTING SEE NOTE #1

DESIGN SPEC.	
HANGER SEISMIC CLASS	
TEST REQUIREMENTS	
MATERIAL CLASS	

A.P. - APEX NO POINT
T.O.E. - THREAD ONE END
T.B.E. - THREAD BOTH ENDS
S.O.E. - SHAPE ONE END
S.B.E. - SHAPE BOTH ENDS
QSL - 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
B.O.E. - BEVEL ONE END
B.O.P. - BOTTOM OF PIPE ELEV.
F.A.F. - FIELD ASSEMBLY
H - HORIZONTAL
V - VERTICAL
S.W. - SHOP WELD
F.W. - FIELD WELD
S - SHOP WELD
F - FIELD WELD
S.W. - SHOP WELD
M.W. - MANUAL SHOP WELD
V.D. - VERIFY DIMENSION IN FIELD

PIPE													
A-53		A-106		A-376		A-312							
GR. B						GR. TP-304							
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.			
M.T.	P.T.	R.T.	U.T.
PRESSURE TEST			
MED.	PRESS.	DURATION	

ADDITIONAL

POUR/ZONE No. 105 FLOW DIAGRAM 1-5114A
REQUIRED COMPLETION DATE O.S.L.
FABRICATED BY TUBECO WELD PROCEDURE

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

N.P.S. DESIGNS

REVISION RECORD		
NO.	DATE	DESCRIPTION

1NSW-50
Instrument Room Ventilation
Unit 4 Return Line

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

DWN. JG	DATE 8-20-71	CONTAIN. & UNITY.	
CKD. GN	DATE 10-8-71	DWG. NO. 1-NSW-50	REV. 5
ISSUED			
REF. DWG. 1-5497A			

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	

D-81