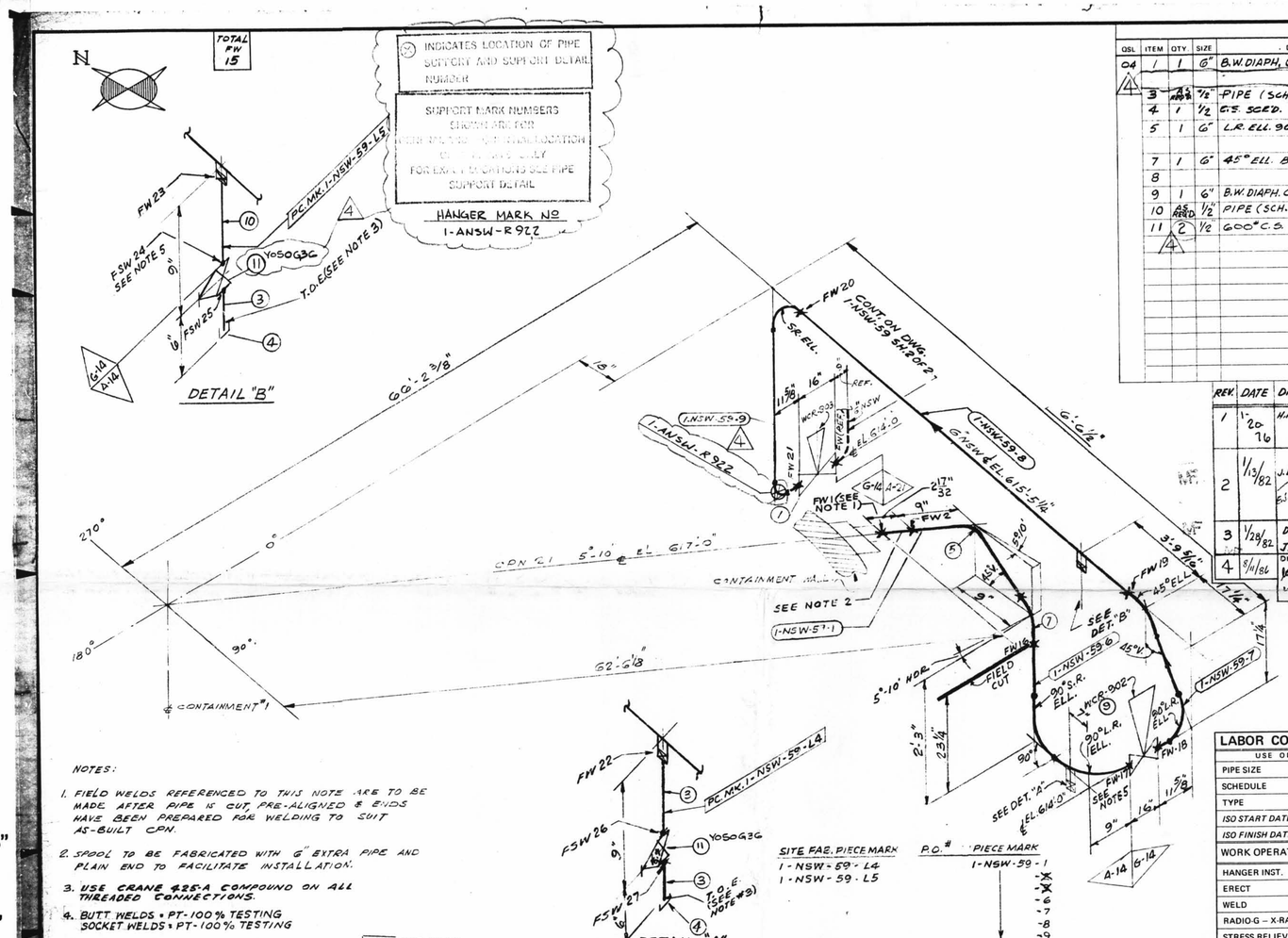

QSL	ITEM	QTY	SIZE	DESCRIPTION	TAG No. OR ASTM MAT'L	HEAT NO.
				MATERIAL 150 SH. NO. 1813		
04	1	1	6"	B.W. DIAPH. CONTROL VA. S.S.	WCR-903	
4						
	3	AS REQ'D	7/8"	PIPE (SCH 80) SMLS C.S.	A-106 GR B.	
	4	1	1/2	C.S. SCED. CAP 3000#	A-181 GR. I OR II	
	5	1	6"	L.R. ELL. 90° BW (SCH. 40) C.S.		
	7	1	6"	45° ELL. BW (SCH. 40) C.S.		
	8					
	9	1	6"	B.W. DIAPH. CONTROL VA. S.S.	WCR-902	
	10	AS REQ'D	1/2"	PIPE (SCH. 40S) SMLS. S.S.	A-312 GR. TP-304	
	11	2	1/2	600# C.S. S.W. GATE VA.	Y-050G3G	
	4					

REV.	DATE	DR.	DESCRIPTION	REMARKS
1	1-20-76	H.M.	REVISED BY A.E.R. DESIGN PER RFC-DC-12-671 TO REFLECT AS BUILT WHEN ISOLATION VALVE WAS ADDED.	NO ACTION REQ'D.
2	1/13/82	J.L. / G.G.	PER RFC DC-12-2549. ADDED: DIMS., P.C. MK. 6 TO 9 & L4 & L5, WELD BOX, NOTES 5, 6 & 7, FIELD WELDS 16 TO 23 & FSW 26 TO 27, ITEM NOS 9, 10 & 11 TO B.M. DELETED ITEM 6 & 8 FROM B/M. REVISED ITEM NO'S 1, 2 & 5 IN B.M.	FIELD ACTION REQ'D
3	1/28/82	DR / JM	PER RFC-DC-12-2549 BOXED DIMEN. INDICATES FIELD INFO, & DIM TO 12" DIM.	NO FIELD ACTION REQ'D
4	8/11/86	DK / KM / JB	PER RFC-DC-12-2876 REV'D VALVE TYPE & ITEM 11 FROM 1 TO 2. DELETED ITEM 2. ADDED SUPPORT MARK NO'S AND SUPERSEDED HGR ISO 1-QNSW-59 WITL ALL ABOVE TO REFLECT AS-BUILT CONDITIONS.	NO FIELD ACTION REQ'D

NOTES:

1. 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.
2. SPOOL TO BE FABRICATED WITH 6" EXTRA PIPE AND PLAIN END TO FACILITATE INSTALLATION.
3. USE CRANE 425-A COMPOUND ON ALL THREADED CONNECTIONS.
4. BUTT WELDS = PT-100% TESTING
   SOCKET WELDS = PT-100% TESTING
5. PROVIDE BI-METALLIC WELDS (STAINLESS STEEL - CARBON STEEL)
6. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE.

TOTAL FW 12	FOR REV. 2 ONLY	
SIZE	QUAN.	FW
6"	4'	6
1/2"	3"	6

SITE FAB. PIECE MARK
1-NSW-59-L4
1-NSW-59-L5

P.O. #	PIECE MARK
	1-NSW-59-1
	-X
	-X
	-6
	-7
	-8
	-9

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	

G-14 DESIGN SPEC. DCCP# 109 QCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL-4
WELD PROCEDURE
QSL-04 TESTING SEE NOTE 4

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

DESIGN SPEC.	DCCP# 109 QCN
HANGER SEISMIC CLASS	I
TEST REQUIREMENTS	G. 4
MATERIAL CLASS	A-14 SPEC 104

R.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
S = 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	
						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.	
		EWROX		
PRESSURE TEST				
MED.	PRESS.	DURATION		

ADDITIONAL

D-06

POUR/ZONE No. 105
REQUIRED COMPLETION DATE
FABRICATED BY TUBECO

FLOW DIAGRAM 1-5114A
O.S.L. 54
WELD PROCEDURE 2-1-1 OF C.S.-6

REVISION RECORD		
NO.	DATE	DESCRIPTION

1NSW-59 (sheet 1 of 2)
Lower Containment Ventilation
Unit 1 Return Line

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

DWN. J.S.	DATE 12-11-71	CONTAIN. VICINITY	
CKD.	DATE	DWG. NO.	REV.
ISSUED		1-NSW-59-	4
REF. DWG. 1-5497A		SH. 1 OF 2	

D-06A