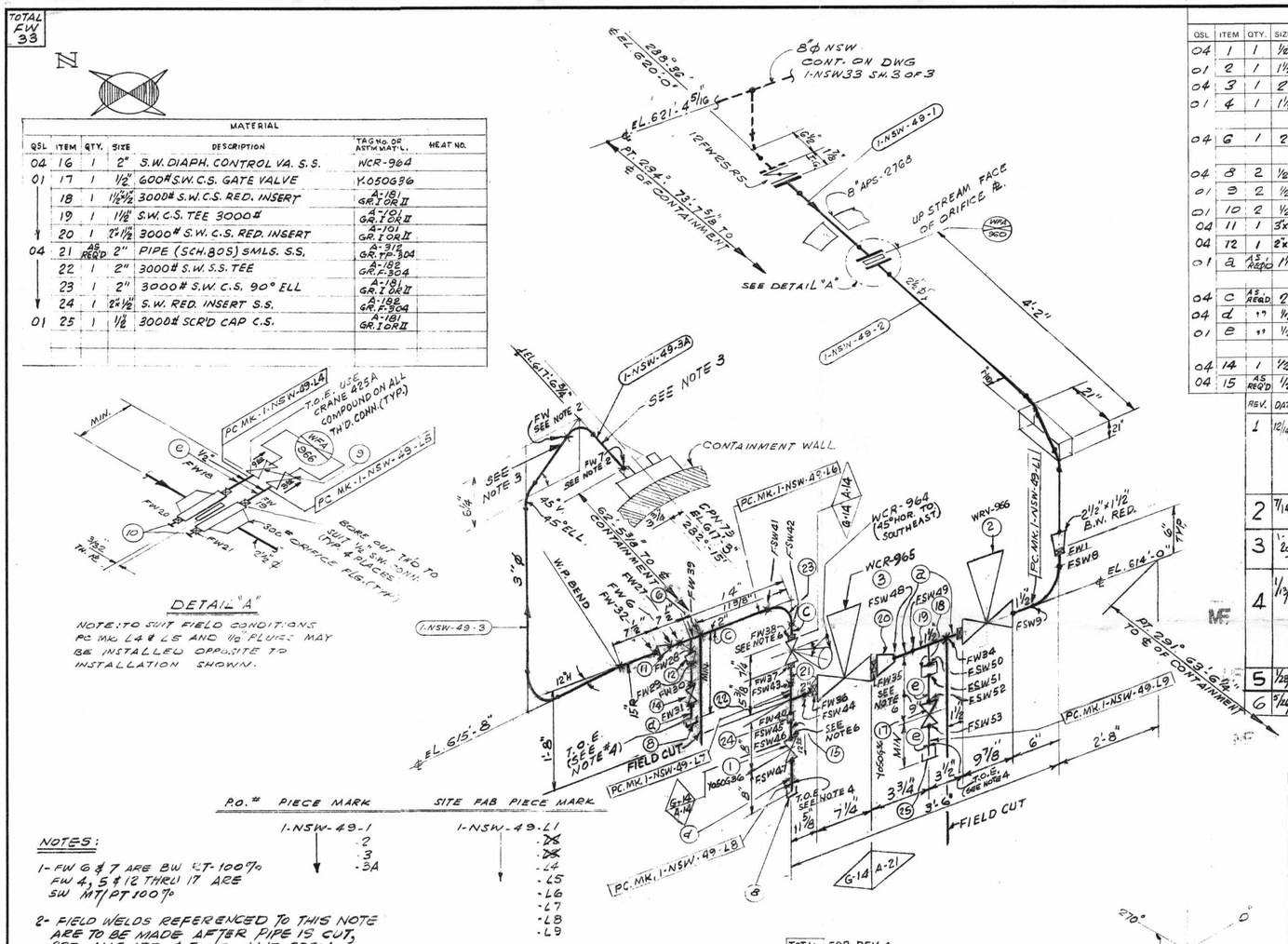
TOTAL FW 33

N

MATERIAL						
QSL	ITEM	QTY.	SIZE	DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
04	16	1	2"	S.W. DIAPH. CONTROL VA. S.S.	WCR-964	
01	17	1	1½"	600# S.W. C.S. GATE VALVE	Y050G36	
	18	1	1½"x1½"	3000# S.W. C.S. RED. INSERT	A-181 GR. I OR II	
	19	1	1½"	S.W. C.S. TEE 3000#	A-181 GR. I OR II	
	20	1	2"x1½"	3000# S.W. C.S. RED. INSERT	A-181 GR. I OR II	
04	21	AS REQ'D	2"	PIPE (SCH. 80S) SMLS. S.S.	A-312 GR. TP-304	
	22	1	2"	3000# S.W. S.S. TEE	A-182 GR. F-304	
	23	1	2"	3000# S.W. C.S. 90° ELL	A-181 GR. I OR II	
	24	1	2"x½"	S.W. RED. INSERT S.S.	A-182 GR. F-304	
01	25	1	½"	3000# SCR'D CAP C.S.	A-181 GR. I OR II	



DETAIL "A"

NOTE: TO SUIT FIELD CONDITIONS PC MK. L4 & L5 AND 1½" PLUGS MAY BE INSTALLED OPPOSITE TO INSTALLATION SHOWN.

P.O.# PIECE MARK	SITE FAB PIECE MARK
1-NSW-49-1	1-NSW-49-L1
-2	~~-L2~~
-3	~~-L3~~
-3A	-L4
	-L5
	-L6
	-L7
	-L8
	-L9

NOTES:

1- FW 6 & 7 ARE BW PT-100%
FW 4, 5 & 12 THRU 17 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 CPN

3- SPOOL TO BE FABRICATED WITH 6" EXTRA PIPE & PLAIN END TO FACILITATE INSTALLATION.

4- USE CRANE 425-A COMPOUND ON ALL THREADED CONNECTIONS.

5. BUTT WELDS = PT-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.

TOTAL FW 20 FOR REV. 4 ONLY		
SIZE	QUAN.	FW
2"	2'	10
1½"	2'	4
½"	2'	6

SIZE	QUAN.	FW
3	7	3
2½	12	-
2	3	16
1½	1	6
½	1	8

DESIGN SPEC. DCCPM 109 QCN	
HANGER SEISMIC CLASS I	
TEST REQUIREMENTS QL-4	
WELD PROCEDURE	
QSL-04	TESTING SEE NOTE 5
A-21 DESIGN SPEC. DCCPM 102 QCS	
HANGAR SEISMIC CLASS II	
TEST REQUIREMENTS QL-QL1	
WELD PROCEDURE	
QSL. 01	TESTING N/A.
A-14 DESIGN SPEC. DCCPM 103 QCN	
HANGAR SEISMIC CLASS I	
TEST REQUIREMENTS QL-4	
WELD PROCEDURE	
QSL-04	TESTING SEE NOTE 1

DESIGN SPEC.	
HANGER SEISMIC CLASS	
TEST REQUIREMENTS	
MATERIAL CLASS	

B.P. - WORKING POINT
T.O.E. - THREAD ONE END
T.O.B. - 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
R = FIELD WELD
O = AUTOMATIC SHOP WELD
S = MANUAL SHOP WELD
* = 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	
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

MATERIAL 150 SH. No. 1309						
QSL	ITEM	QTY.	SIZE	DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
04	1	1	½"	600# S.W. C.S. GATE VALVE	Y050G36	
01	2	1	1½"	CONTROL VALVE	WRV-966	
04	3	1	2"	S.W. DIAPH. CONTROL VA. S.S.	WCR-965	
01	4	1	1½"	S.W. C.S. 90° ELL. 3000#	A-181 GR. I OR II	
04	6	1	2"	S.W. C.S. TEE. 3000#	A-181 GR. I OR II	
04	8	2	½"	C.S. SCR'D CAP 3000#	A-181 GR. I OR II	
01	9	2	½"	200# THD GLOBE VA BRONZE OR BRASS	Y050T03	
01	10	2	½"	C.S. PLUG 3000#	A-181 GR. I OR II	
04	11	1	3"x2"	B.W. RED		
04	12	1	2"x½"	RED. INSERT. - 3000#	A105 II	
01	a	AS REQ'D	1½"	PIPE (SCH. 80) SMLS. C.S.	A106 GR. B	
04	c	AS REQ'D	2"	PIPE (SCH. 80) SMLS. C.S.	A106 GR. B	
04	d	"	½"	"	"	
01	e	"	½"	"	"	
04	14	1	½"	600# C.S. SW. GLOBE VALVE	Y-050T36	
04	15	AS REQ'D	½"	PIPE (SCH. 80S) SMLS. S.S.	A-312 GR. TP-304	

REV.	DATE	DR. CHK.	DESCRIPTION	REMARKS
1	12/14/72	I.F.	REVISED BY NPS DESIGNS: REMOVED HOLD ON PC. MK. 1-NSW-49-3, ADDED: PC MK 1-NSW-49-3A, FW'S, NOTES 2 & 3, PER AEP ARRGT. DWG. 1-5497A, REVISION 5	FIELD ACTION REQ'D
2	7/14/73	R.G.A.	REV'D.; ITEM #1 Y050G36 WAS CY050G36 REVISED BY A.E.P.	NO ACTION REQ'D.
3	1-20-76	H.M.	REVISED BY A.E.P. DESIGN PER RFC-DC-12-2571 TO REFLECT AS BUILT WHEN CHECK VALVE WAS ADDED.	NO ACTION REQ'D.
4	1/13/82	J.L. G.L.	PER RFC DC-12-2549. ADDED: PIPE SPEC. G-14, DIM'S., PC. MK'S. L6 TO L9, WELD BOX, NOTES 5, 6 & 7, FIELD WELDS FW 34 TO 80, FSW 41 TO 53, ITEM NO'S. 15 TO 25 TO B/M. DELETED ITEM'S 5, 7, b & 13 B/M, PC. MK'S L2 & L3. REVISED ITEM 3 & 8 IN B/M, ELEV. 615'-6 3/4" WAS 615'-6 1/4", ADDED DIM. FOR OFFSET & BEND ANGLE 12" WAS 8°45'H.	FIELD ACTION REQ'D
5	1/29/82	GS JM	PER RFC-DC-12-2549 & EL. G-15'-8" WAS G-15'-6 3/4" PER FIELD INFO. & ADDED 1'-6" DIM.	FIELD ACTION REQ'D
6	5/14/82	JM JB	PER RFC DC-12-2549 ITEMS 13 & 21 WERE SCH. 40S PIPE	FIELD ACTION REQ'D

D-80

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	
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ISO START DATE	
ISO FINISH DATE	
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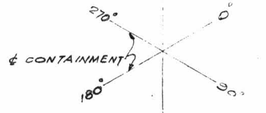
HANGER INST.	
ERECT	
WELD	
RADIO-G – X-RAY	
STRESS RELIEVE	
MISC. WORK	



N.P.S. DESIGNS.

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

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

REVISION RECORD		
NO.	DATE	DESCRIPTION

1NSW-49
Instrument Room Ventilation
Unit 3 Supply Line

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

DWN. SG	DATE 9-29-71	CONTAIN. VICINITY
CKD. GN	DATE 10-6-71	DWG. NO. 1-NSW-49 REV. 6
ISSUED		
REF. DWG. 1-5497A		