TOTAL FW
21

CONTINUED FROM B/M AT UPPER RIGHT HAND CORNER OF THIS DWG.

MATERIAL						
OSL	ITEM	QTY.	SIZE	DESCRIPTION	TAG NO OR ASTM. MAT'L	HEAT NO.
04	19	1	1/2"	3000# C.S., S.W. 90° ELL.	A-181 GR. I OR II	
	20	1	1/2"	3000# C.S., S.W. HALF CPLG.		
	21	1	1/2"	600# C.S., S.W. GATE VALVE	Y050G36	

NOTES:

1. USE CRANE 425-A COMPOUND ON ALL THR'D CONNS.
2. FABRICATOR TO MAKE THIS END OF SPOOL 6" LONGER WITH PLAIN END TO FACILITATE INSTALLATION.
3. FW'S PERTAINING TO THIS NOTE ARE TO BE MADE AFTER PIPE IS PRE-ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS BUILT CPN.
4. PIPE 2" & UNDER CS (LATER). PIPE 2½" & UP CS (LATER).
5. BUTT WELDS ARE RT 100% SOCKET WELDS MT/PT 100%.
6. PROVIDE BI-METALLIC WELDS. (STAINLESS STEEL - CARBON STEEL)
7. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE.

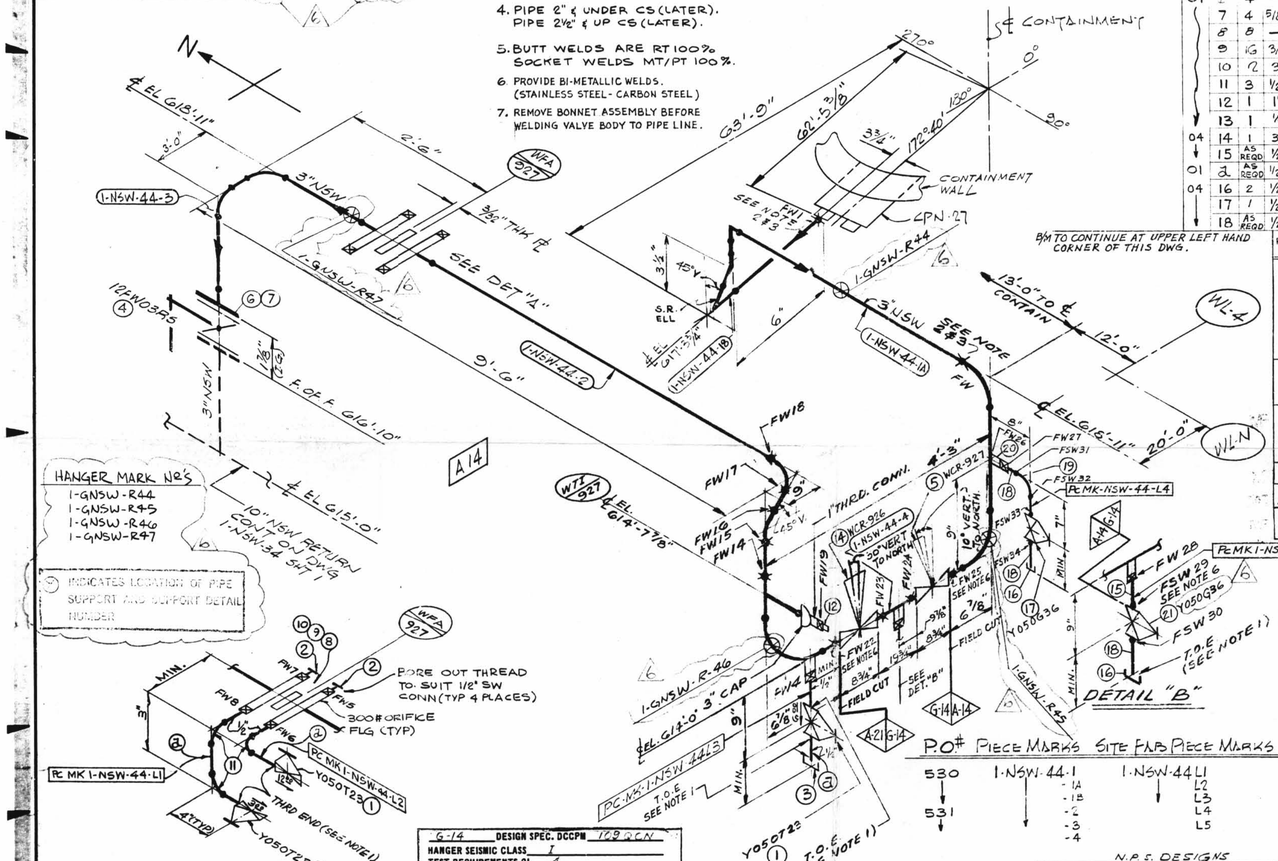
SUPPORT MARK NUMBERS FOR PIPING SUPPORT DETAIL

MATERIAL 160. SHT NO. 1904

OSL	ITEM	QTY	SIZE	DESCRIPTION	TAG No. OR ASTM MAT'L	HEAT NO.
01	1	3	1/2"	200# BRONZE OR BRASS THREADED GLOBE VALVE	Y050T23	
	2	2	1/2"	3000# C.S. PLUG	A-181 GR. I OR II	
	3	1	1/2"	3000# C.S. THRD CAP		
	4	1	3"	125# BUTTERFLY WAFER VA, CI	12FW03RS	
04	5	1	3"	B.W. DIAPH. CONTROL VALVE, S.S.	WCR-927	
01	6	4	5/8"	5/8"X5"LG HEX MACHINE BOLT	A307 GR.B	
	7	4	5/8	HEAVY HEX NUT.	A-307 GR. B.	
	8	8	—	3/4"Ø x 4 1/4" LG STUD BOLT	A-193 GR. B7	
	9	16	3/4	HEAVY HEX NUT	A-194 GR. 2H	
	10	2	3"	FLEXITALLIC GASKET STYLE CG TYPE 304 SS & ASBESTOS FILLER 1/8" THK		
	11	3	1/2"	3000# C.S. SW 90° ELL	A-181 GR. I OR II	
	12	1	1"	THERMO WELL	WTI-927	
	13	1	1/2"	600# C.S. SW GLOBE VA.	Y050T36	
04	14	1	3"	B.W. DIAPH. CONTROL VALVE, S.S.	WCR-926	
	15	AS REQD	1/2"	PIPE (SCH. 40 S) SMLS., S.S.	A-312 GR. TP-304	
01	16	AS REQD	1/2"	PIPE (SCH 80, SMLS) CS	A-106 GR. B	
04	16	2	1/2"	3000# C.S. THR'D. CAP	A-181 GR. I OR II	
	17	1	1/2"	600# C.S., S.W. GATE VALVE	Y050G36	
	18	AS REQD	1/2"	PIPE (SCH. 80 SMLS) C.S.	A-106 GR. B	

B/M TO CONTINUE AT UPPER LEFT HAND CORNER OF THIS DWG.

REV.	DATE	DR CHK.	DESCRIPTION	REMARKS
1	5/8/72	SG GN	RELEASED PIPING AT CPN. ADDED: NOTES 2 THRU 5; ITEMS 4 THRU 12; PC. MK 1A & 1B & FW'S; P.O.#; BOX FOR TOTAL NO OF FW'S. REVISED: WTI-927; LOCATION OF SPEC. CHG; TESTING FOR A-14 SPEC.; PIPING FOR WFA-927 (DETAIL "A"). PER AEP DWG 1-5497-4.	FIELD ACTION REQD / FAB ACTION REQD
2	1-20-76	H.M.	REVISED BY A.E.P. DESIGN PER RFC DC-12-671 TO REFLECT AS BUILT WHEN ISOLATION VALVE WAS ADDED.	NO ACTION REQ'D.
3	1/13/82	WT/DR	PER RFC-DC-12-2549, ADDED PIPE SPEC. G-14, DIM'S., PC MK-1A, L4 & L5, WELD BOX, FIELD WELDS FW 22 TO 28, FSW 29 TO 34, ITEMS 14 TO 21 TO B/M. REVISED ITEM NOS. 3 & 5 IN B/M.	FIELD ACTION REQ'D.
4	1/28/82	JM/RG	PER RFC DC-12-2549 ADDED 2 EA. 6"x4" O	NO FIELD ACTION REQ'D.
5	4/26/84	ARY/JM	PER RFC-12-2549 REVISED PIPING PER "AS BUILT."	NO FIELD ACTION REQ'D.
6	9/11/86	DR/JM/LD	PER RFC-DC-12-2876 REV'D VALVE TYPE ADDED SUPPORT MARK NO'S, SUPERSEDED HGR 150 1-GNSW-44, ALL ABOVE TO REFLECT AS-BUILT CONDITIONS.	NO FIELD ACTION REQ'D



P.O#	PIECE MARKS	SITE FAB PIECE MARKS
530	1-NSW-44-1	1-NSW-44 L1
	-1A	L2
	-1B	L3
531	-2	L4
	-3	L5
	-4	

N.P.S. DESIGNS

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

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	
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WORK OPERATION	LINE ITEM NUMBER
HANGER INST.	
ERECT	
WELD	
RADIO-G – X-RAY	
STRESS RELIEVE	
MISC. WORK	

SIZE	QUAN.	FW
3"	33'-0"	12
1/2"	2'-0"	8
1"	—	1

TOTAL FW 13 FOR REV. 3 ONLY		
SIZE	QUAN.	FW
3"	1'-0"	4
1/2"	3'-0"	9

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

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

A-21 DESIGN SPEC. DCCPM 102QCS
HANGER SEISMIC CLASS II
TEST REQUIREMENTS QL 1
WELD PROCEDURE SEE NOTE 4
QSL 01 TESTING N/A

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

B.P. : BORING POINT
T.O.E. : THREAD ONE END
S.O.E. : SOCKET ONE END
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.B.E. : PLAIN BOTH ENDS
P.O.E. : PLAIN ONE END
S.O.E. : SHAPE ONE END
B.O.P. : BOTTOM OF PIPE ELEV.
FW X FIELD WELD
H : HORIZONTAL
V : VERTICAL
SW X SHOP WELD
FSW X FIELD SHOP WELD
B : FIELD WELD
S : SHOP WELD
M : MANUAL SHOP WELD
E : 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. SEE DESIGN CODE STAMP				
M.T.	P.T.	R.T.	U.T.	
PRESSURE TEST				
MED.	PRESS	DURATION		

ADDITIONAL

POUR/ZONE No. A 14
REQUIRED COMPLETION DATE
FABRICATED BY TUPESCO

FLOW DIAGRAM 1-5114A
O.S.L. SEE DESIGN
WELD PROCEDURE CODE STAMP

REVISION RECORD

1NSW-44
Upper Containment Ventilation
Unit 2 Return Line

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

DWN. NJP	DATE 3-17-71	AUXILIARY BLDG	
CKD. GN	DATE 9-29-71	DWG. NO. 1-NSW-44	REV 6
ISSUED			
REF. DWG. 1-5437			

D-76