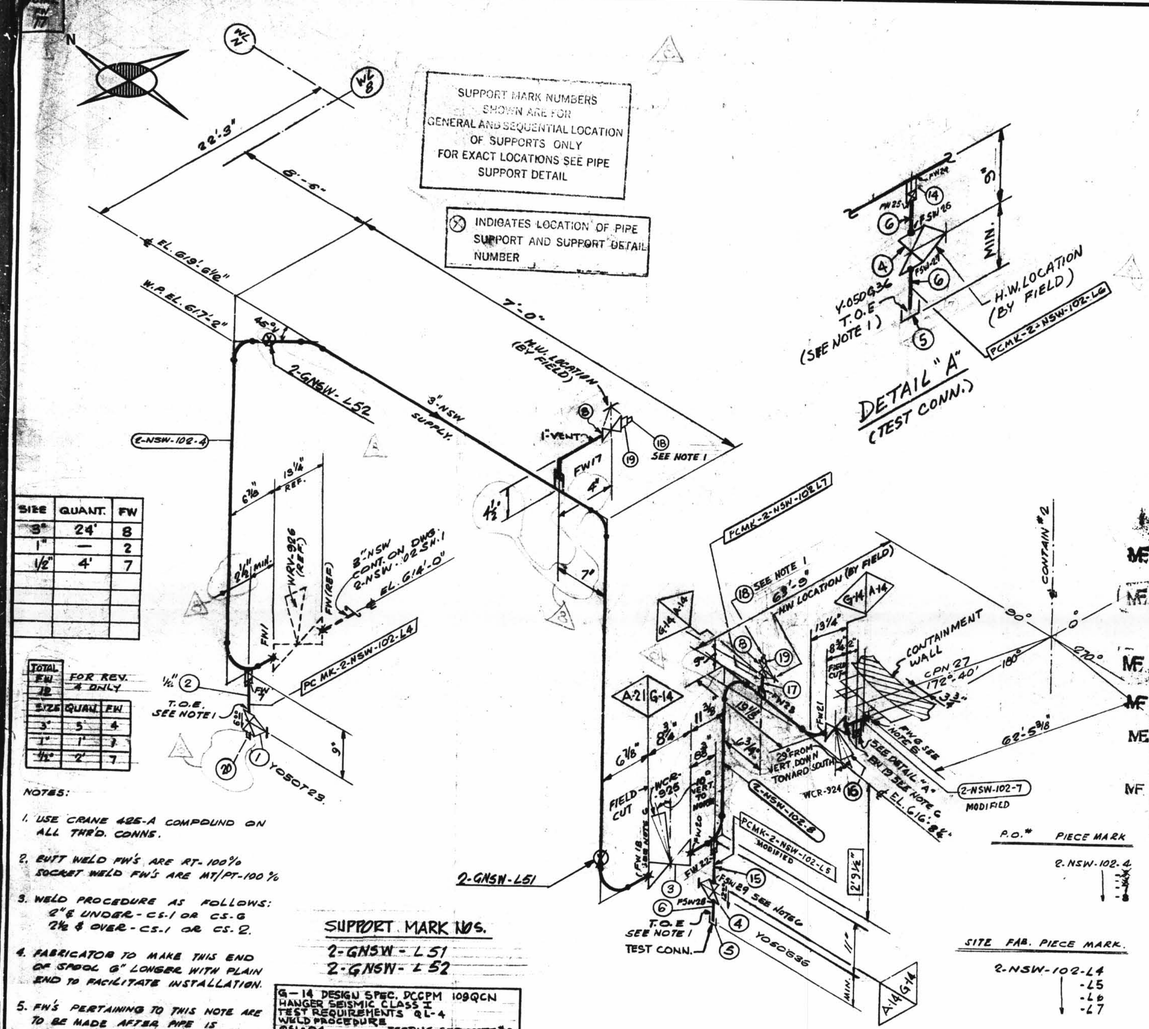
ISO SHT. NO. 2001

| QSL | ITEM | QTY. | SIZE | MATERIAL DESCRIPTION | TAG No. OR ASTM MAT'L. | HEAT NO. |
|---|---|---|---|---|---|---|
| 01 | 1 | 1 | 1/2" | 200# THRD GLOBE VA. BRASS OR BRONZE | Y050T23 | |
| ↓ | 2 | AS REQD | 1/2" | PIPE (SCH. 80) SMLS. CS. | A-106 GR. B | |
| 04 | 3 | 1 | 3" | B.W. DIAPH. CONTROL VALVE S.S | WCR-825 | |
| | 4 | 2 | 1/2" | 600# C.S. S.W. GATE VALVE | Y050G36 | |
| | 5 | 2 | 1/2" | 3000# C.S. THRD. CAP. | A-181 GR. I OR II | |
| | 6 | AS REQD | 1/2" | PIPE (SCH. 80) SMLS C.S. | A-106 GR. B. | |
| | 8 | 2 | 1" | 600# S.W. GLOBE VA., CARB. STL. | Y-100T36 | |
| | 14 | 1 | 1/2" | 3000# C.S. HALF COUPLING | A-105 GR. I OR II | |
| | 15 | AS REQ'D | 1/2" | PIPE SCH. 40S SMLS | A-312 GR. TP-304 | |
| | 16 | 1 | 3" | B.W. DIAPH. CONTROL VA. S.S | WCR-924 | |
| | 17 | AS REQ | 1" | PIPE SCH 40S SMLS | A-312 GR TP 304 | |
| | 18 | 2 | 3/4" | 3000# THR'D. PLUG, C.S. | A-181 GR. I OR II | |
| | 19 | 2 | 1"x3/4" | 3000# 1"S.W. x 3/4" THRD. RED. INSERT, C.S. | | |
| | 20 | 1 | 1/2" | 3000# THRD PLUG, C.S | | |

REVISION RECORD

| NO. | DATE | DR. CHK | DESCRIPTION | REMARKS |
|---|---|---|---|---|
| 1 | 1-20-76 | DR. BR. | REVISED BY AEP DESIGN. PER RFC-12-671: REV'D. ITEM #4 Y-050G36 WAS CV-050G36. ADDED: 3" CHECK VA. C15CE03A (8) 1" VENT-VALVE NO Y-100T23, 1/2" DRAIN-VALVE NO Y-050G36. | ACTION REQ'D |
| 2 | 1-4-77 | W.R. | 7'-0" WAS 6'-0" | |
| 3 | 3/21/78 | GP LB | AS PER RFC-12-1430 DELETED VALVE TAG NO. C15CW03A & ITEMS 9 THRU 13 AND REVISED RELATED PIPING. | FIELD ACTION REQ'D |
| 4 | 9/18/81 | A.G. MW | AS PER RFC DC-12-2549 ADDED PIPE SPEC. G-14. DIM'S, PC MK LG, L7&8 WELD BOX, NOTES 6 & 7, FIELD WELDS 18 TO 24, FSW 25, 27 TO 29 ITEM NOS. 14 THRU 17 TO B/M DELETED ITEM 7, 9, 10, TO 13, PC MK. 5&6 FROM B/M. REV. ITEM 3 IN B/M. MODIFIED PCMK L5 & 2-NSW-102-7. | Field Action Req'd. |
| 5 | 10/14/81 | KA LB | PER RFC DC-12-2549 ROTATED ACTUATOR OF VALVE WCR-925 TO 10" VERT. TOWARD NORTH AND ACTUATOR OF VALVE WCR-926 TO 25" VERT DN. TO SOUTH. ADDED DIM. 8" | FIELD ACTION REQ'D |
| 6 | 6/4/82 | SG LB | PER RFC-DC-12-2549 BOXED DIMENSION INDICATES FIELD INFO. DELETED 8 EL. G14'-0" & ADDED PLUG TO ITEM. 8 & B/M. | FIELD ACTION REQ'D |
| 7 | 11/16/84 | WT. JHK | PER RFC-DC-12-2549 ADDED REQ. INSERT & PLUG TO VALVE, ITEM 8. ITEM 8 WAS Y-100T23 & ITEM 19 WAS 1". | FIELD ACTION REQ'D. |
| 8 | 7/12/86 | ESG DRM LB | TO REFLECT AS-FOUND CONDITIONS FOR RFC-DC-12-3010 PER FWR # 759 REV. 1; ADDED: 1/2" PLUG DIM'S. & ITEM NO. 20 ON B/M; ADDED: SUPPORT MARK NOS. & SUPERSEDES HGR. 150 # 2-GNSW-102 SH. 2 | NO FIELD ACTION REQ'D. |




| SIZE | QUANT. | FW |
|---|---|---|
| 3" | 24' | 8 |
| 1" | — | 2 |
| 1/2" | 4' | 7 |

| TOTAL FW 18 | FOR REV. 4 ONLY. | |
|---|---|---|
| SIZE | QUANT. | FW |
| 3" | 5' | 4 |
| 1" | 1' | 2 |
| 1/2" | 2' | 7 |

NOTES:

1. USE CRANE 425-A COMPOUND ON ALL THRD. CONNS.
2. BUTT WELD FW'S ARE RT-100% SOCKET WELD FW'S ARE MT/PT-100%
3. WELD PROCEDURE AS FOLLOWS: 6" & UNDER - CS.1 OR CS.6 2 1/2 & OVER - CS.1 OR CS. 2.
4. FABRICATOR TO MAKE THIS END OF SPOOL 6" LONGER WITH PLAIN END TO FACILITATE INSTALLATION.
5. 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 OPN.
6. PROVIDE BI-METALLIC WELDS (STAINLESS STEEL-CARBON STEEL)
7. REMOVE BONNET ASSEMBLY BEFORE WELDING VALVE BODY TO PIPE LINE

SUPPORT MARK NOS.

2-GNSW-L51
2-GNSW-L52

G-14 DESIGN SPEC. DCCPM 108QCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL-4
WELD PROCEDURE
QSL-04 TESTING SEE NOTE #2

A-14 DESIGN SPEC. DCCPM 108QCN
HANGER SEISMIC CLASS 2
TEST REQUIREMENTS QL-4
WELD PROCEDURE SEE NOTE 3
QSL-04 TESTING SEE NOTE 2

A-21 DESIGN SPEC. DCCPM 102 QCS
HANGER SEISMIC CLASS II
TEST REQUIREMENTS QL-1
WELD PROCEDURE SEE NOTE 3
QSL-01 TESTING N/A.

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

O.P. = WORKING 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.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 = F/FLD SHOP WELD
B = FIELD WELD
D = AUTOMATIC SHOP WELD
I = MANUAL SHOP WELD
E = VERIFY DIMENSION IN FIELD

PIPE

| A-53 | A-106 GR. B | A-376 | A-312 GR. TP-304 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| STD. | XH | XXH | 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. A15
REQUIRED COMPLETION DATE
FABRICATED BY TUBECO

FLOW DIAGRAM 2-5114A
O.S.L. SEE DESIGN
WELD PROCEDURE CODE STAMP.

NPS DESIGNS INC.
NEW YORK, N.Y.

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

LIVSEY & COMPANY, INC.
INDIANA & MICHIGAN ELECTRIC CO.
DONALD C. COOK NUCLEAR PLANT

DWN. SG DATE 12-3-71 AUXILIARY BLDG
CKD. GN DATE 1-6-72
ISSUED
REF. DWG. 2-5497
DWG. NO. 2-NSW-102 SH. 2 OF 2
REV. 8

2NSW-102 (sheet 2 of 2)
Upper Containment Ventilation
Unit 2 Supply Line

D-18B