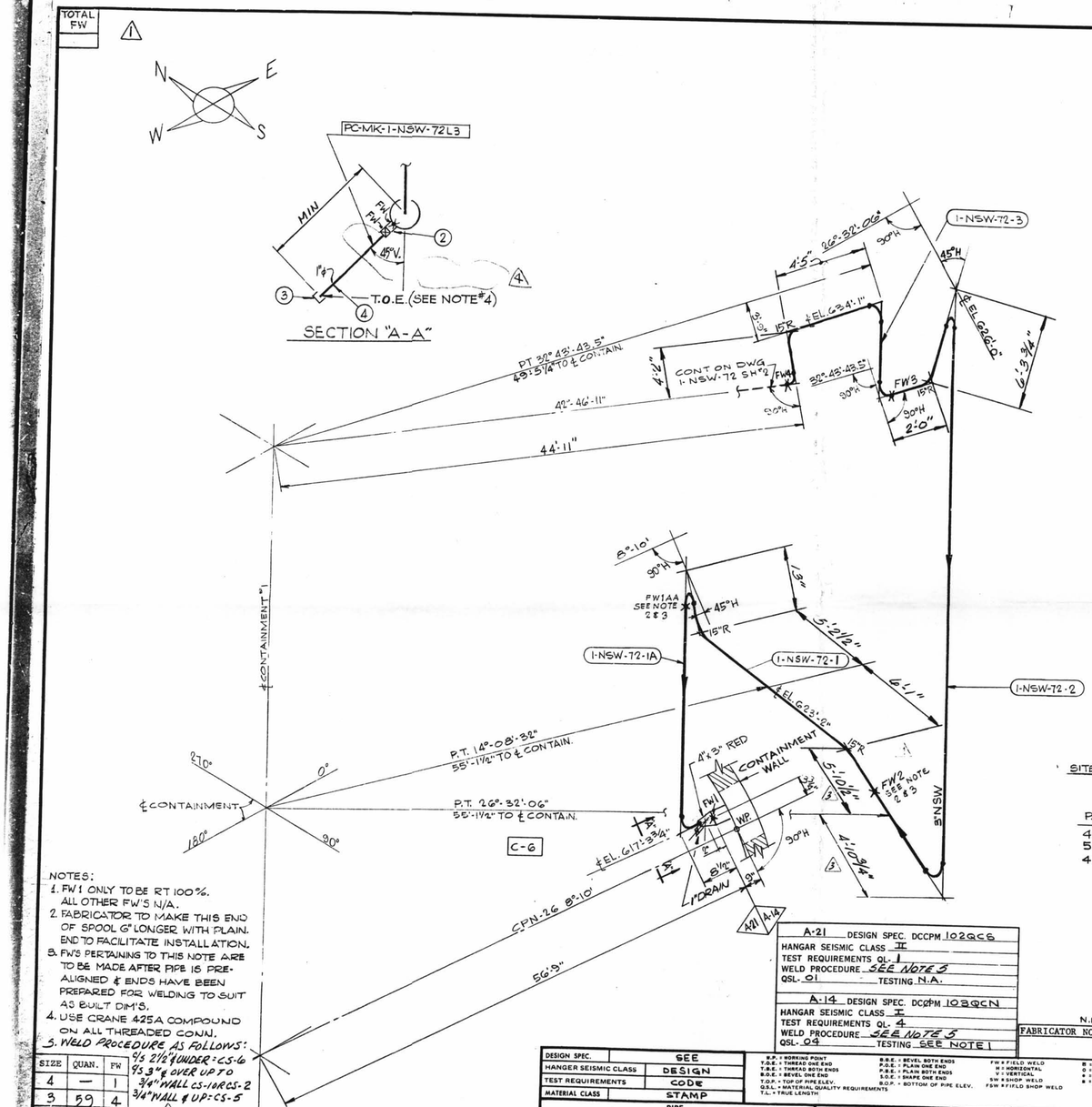
TOTAL FW




NOTES:
1. FW 1 ONLY TO BE RT 100%. ALL OTHER FW'S N/A.
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 DIM'S.
4. USE CRANE 425A COMPOUND ON ALL THREADED CONN.
5. WELD PROCEDURE AS FOLLOWS:

| SIZE | QUAN. | FW |
|---|---|---|
| 4 | — | 1 |
| 3 | 59 | 4 |
| 1 | 1 | 2 |

6/2 2 1/2" & UNDER: CS-6
3" & OVER UP TO 3/4" WALL CS-10 RCS-2
3/4" WALL & UP: CS-5

MATERIAL ISO SH NO. 1397

| QSL | ITEM | QTY. | SIZE | DESCRIPTION | TAG No. OR ASTM MAT'L. | HEAT NO. |
|---|---|---|---|---|---|---|
| 01 | 2 | 1 | 1" | 3000# SW C.S. HALF CPLG. | A-181 GR 70 CL II | |
| | 3 | 1 | 1" | 3000# THRD C.S. CAP | A-181 GR 70 CL II | |
| | 4 | AS REQD. | 1" | PIPE (SCH 80) SMLS C.S. | A-106 GR. B | |

| REV. | DATE | DR CHK | DESCRIPTION | REMARKS |
|---|---|---|---|---|
| 1 | 12/2/71 | S.G. GN | RELEASED PIPING AT CPN. ADDED: FW1AA; PC MK 1A; P.O. #; DESIGN CODE STAMP; NOTES 2 & 3; TOTAL NO. OF FW. REVISED: WELD PROCEDURE. PER DWG 1-5489A | FIELD ACTION REQD / FAB ACTION REQD |
| 2 | 1/12/72 | RJG LGR | ADDED: ITEM'S 1 THRU 4 TO BILL OF MAT'L. SECTION "A-A". PC-MK-1-NSW-72L3 NOTE #4. DELETED WELD PROCEDURE TO SUIT A.E.P. ARRG'T DWG 1-5489A-3 | FIELD ACTION REQ'D / — |
| 3 | 10/19/73 | GR RJG | REVISED BY N.P.S. DESIGNS. ADDED: NOTE 5. DIM. 4'-2" 4'-5" 2'-0" 6'-3 3/4" 13" 5'-2 1/2" 6'-1" 5'-10 1/2" DIM. 4'-10 3/4" WAS 4'-8". 42'-11" WAS 45'-0". 49'-5 1/4" WAS 49'-6". PER AS BUILT DIMS A.E.P. DWG. NO. 1-5489A-4 | NO ACTION REQ'D. |
| 4 | 3/4/77 | | AS PER RFC-DC-01-2007 REMOVED VA. AT SECTION A-A | |

**1-NSW-72 (Sheet 1 of 2)**
**Upper Containment Ventilation**
**Unit 1 Return Line**

SITE FAB PIECE MARKS
PC-MK-1-NSW-72L3

| P.O.# | PIECE MARK |
|---|---|
| 468 | 1-NSW-72-1 |
| 533 | 1A |
| 468 | 2 |
| ↓ | -3 |

| 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 | |

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

A-14 DESIGN SPEC. DCCPM 102QCN
HANGAR SEISMIC CLASS I
TEST REQUIREMENTS QL-4
WELD PROCEDURE SEE NOTE 5
QSL-04 TESTING SEE NOTE 1

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

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

R.P. = WORKING POINT
T.O.E. = THREAD ONE END
T.B.E. = THREAD BOTH ENDS
B.O.E. = BEVEL ONE END
T.O.R. = TOP OF PIPE ELEV.
Q.S.L. = MATERIAL QUALITY REQUIREMENTS
T.L. = TRUE LENGTH
B.O.E. = BEVEL BOTH ENDS
P.O.E. = PLAIN ONE END
P.B.E. = PLAIN BOTH ENDS
S.O.E. = SHAKE 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
= MANUAL SHOP WELD
= VERIFY DIMENSION IN FIELD

PIPE

| A-53 | | A-106 | | A-376 | | A-312 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GR. B | | | | | | | | | |
| 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. 1C6 FLOW DIAGRAM 1-2-5114A
REQUIRED COMPLETION DATE ____ Q.S.L. SEE DESIGN
FABRICATED BY TUBECO WELD PROCEDURE CODE STAMP

REVISION RECORD

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

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

| | | | |
|---|---|---|---|
| DWN: LGR | DATE: 7-23-71 | CONTAINMENT BLDG | |
| CKD: GN | DATE: 7-30-71 | DWG. NO. 1-NSW-72 SH 1 OF 2 | REV. 4 |
| ISSUED | | | |
| REF. DWG. 1-5489A | | | |

D-59A