

15 ADDED 6P INP PORTS

NOTES:

10. FOR PENETRATION DETAIL REFER TO MC-1499-M12.
11. TRANSMITTER CONSISTS OF A D/P CELL LOCATED IN THE ANNULUS AND REMOTE ELECTRONICS LOCATED IN TRAIN "A" SWITCH GEAR ROOM.
12. EXCESS FLOW CHECK VALVE SHOULD BE LOCATED AS CLOSE AS PRACTICABLE TO THE CONTAINMENT VESSEL INSTRUMENT PENETRATION.
13. VENT VALVES NOT REMOVED FROM RESERVOIRS ON ICFLT5610, ICFLT5630, ICFLT5640.
14. INSTRUMENTS ARE SSS RELATED.

INSTRUMENT REDUNDANCY
NONE

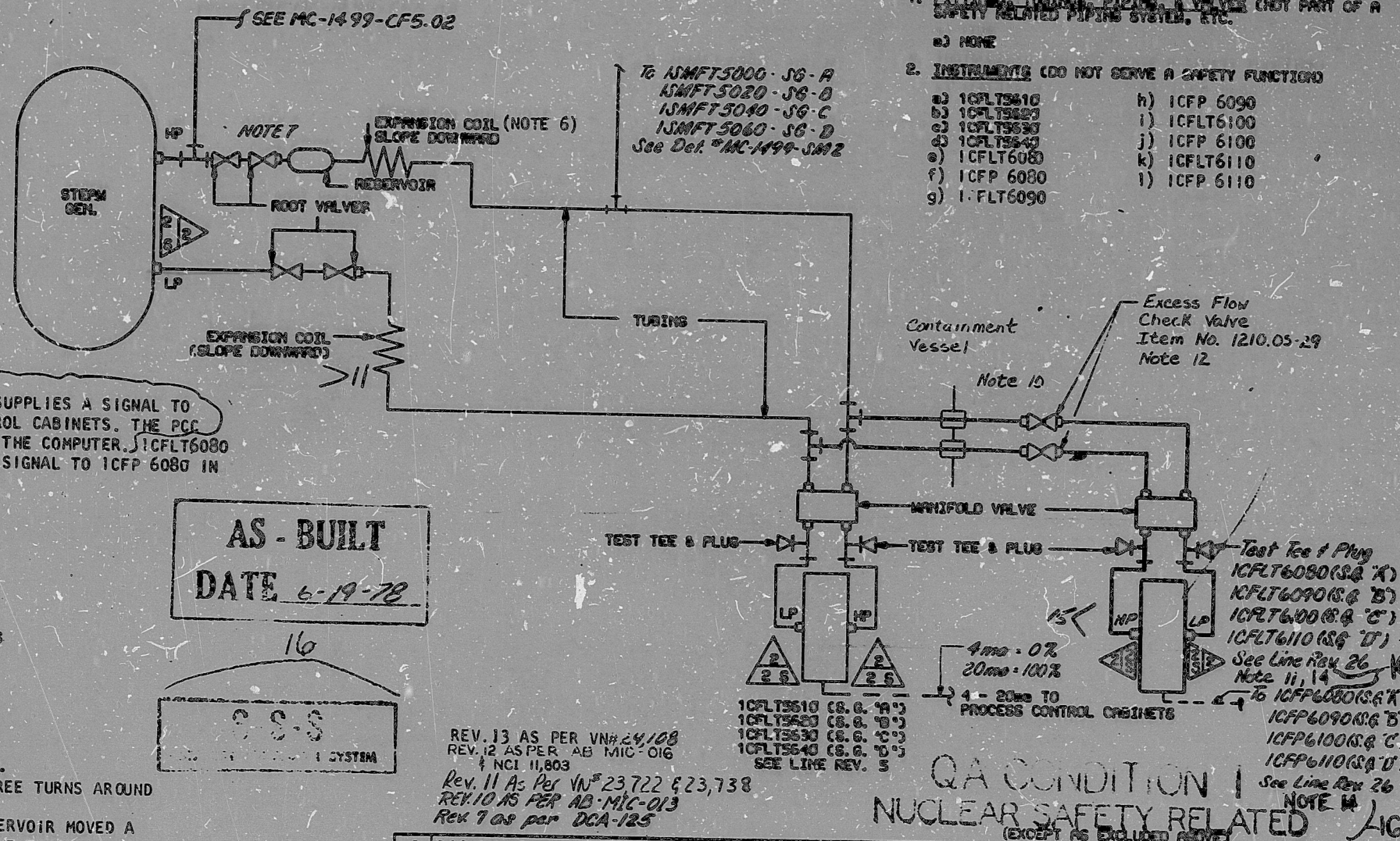
FUNCTIONAL DESCRIPTION:

ICFLT5610 MONITORS S/G WIDE RANGE LEVEL AND SUPPLIES A SIGNAL TO ICFP 5610 AND THE PROCESS CONTROL CABINETS. THE PCF SUPPLIES A SIGNAL TO RECORDER ICFCR5630 AND THE COMPUTER. ICFLT6080 MONITORS S/G WIDE RANGE LEVEL AND PROVIDES A SIGNAL TO ICFP 6080 IN THE SSF.

NOTES:

1. SLOPE IMPULS LINE DOWNWARD FROM PROCESS TRAP TO INSTRUMENT A MINIMUM OF 1/4" PER FOOT.
2. FITTINGS, TUBING, AND VALVES DESIGNATED ON THIS DETAIL BY CLASSIFICATION OF THE FITTINGS CLASSIFICATION LIST ARE SAFETY CLASS. SUBSTITUTES FROM OTHER CLASSIFICATIONS ARE NOT PERMITTED.
3. LOCATE EXPANSION COIL BETWEEN THE LAST ROOT VALVE AND FIRST SUPPORT BRACKET.
4. ICFLT5610 AND ICFLT5630 SUPPLY INPUT TO TWO-PEN RECORDER ICFCR5610. ICFLT5630 AND ICFLT5640 SUPPLY INPUT TO TWO-PEN RECORDER ICFCR5630.
5. RESERVOIR TO BE LOCATED AT SAME ELEVATION AS TRAP.
6. EXPANSION COIL TO CONSIST OF A MINIMUM OF THREE TURNS AROUND A FOUR INCH PIPE.
7. SECOND ROOT VALVE SHOULD BE DELETED AND RESERVOIR MOVED A MAXIMUM OF 7 1/4" FROM END OF 1ST ROOT VALVE TO CENTER LINE OF RESERVOIR (INCLUDING FITTINGS) FOR THE FOLLOWING LOOPS: ICFLT5620 (HP), ICFLT5640 (HP), AND ICFLT5620 (HP).
8. SUPPORTS ARE REQUIRED FOR THE FOLLOWING LOOPS: ICFLT5610 (HP), ICFLT5630 (HP), ICFLT5640 (HP), AND ICFLT5620 (HP).
9. ON STRAIGHT RUNS OF TUBING IN SG CAVITIES THAT DO NOT HAVE AN OFFSET OR EXPANSION RELIEF POTENTIAL WITHIN 10' FROM A TUBE UNION, SHOULD BE CLAMPED TO PERMIT EXPANSION BY USING 2 UNISTRUT P2012 CLAMPS EITHER SIDE OF UNION AT STANDARD SPACING AND UNISTRUT P2014 CLAMPS TO END MODIFIED FOR SLIP FIT TO PERMIT EXPANSION. ONE CLAMP SHOULD BE WITHIN 6" OF UNION.

14	REV NOTE 7	17	Added Note 9 & AS NOTED
15	ADDED NOTE 13	10	ADDED NOTE 7 & 8
12	Rev. Ps. Noted	9	Added Note 6



NUCLEAR SAFETY RELATED EXCLUSIONS

1. FITTINGS, TUBING, PIPING, & VALVES (NOT PART OF A SAFETY RELATED PIPING SYSTEM, ETC.)

a) NONE

2. INSTRUMENTS (DO NOT SERVE A SAFETY FUNCTION)

- | | |
|--------------|--------------|
| a) ICFLT5610 | h) ICFP 6090 |
| b) ICFLT5630 | i) ICFLT6100 |
| c) ICFLT5640 | j) ICFP 6100 |
| d) ICFLT6080 | k) ICFLT6110 |
| e) ICFP 6080 | l) ICFP 6110 |
| f) ICFP 6080 | |
| g) ICFP 6090 | |

AS - BUILT
DATE 6-19-78

SSS
SYSTEM

REV. 13 AS PER VNR 24108
REV. 12 AS PER AB MIC-016
REV. 11 AS PER VNR 23722 & 23738
REV. 10 AS PER AB MIC-013
REV. 9 AS PER DCA-125

QA CONDITION 1
NUCLEAR SAFETY RELATED
(EXCEPT AS EXCLUDED ABOVE)

DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION UNIT 1

INSTRUMENT DETAILS
STEAM GENERATOR WIDE RANGE LEVEL

SI
APERTURE
CARD

FOR INFORMATION
ONLY

SHT 3
CL 2 HYDRO

DESIGNED BY	DATE	INSP. BY	DATE
CHECKED BY	DATE	APPROVED BY	DATE
DWG. NO.	MC-1499-CF6	REV	17

8905190063

PDR RIDS

