

- NOTES:**
1. DRILLED RESTRICTION 3/8" IN DIAMETER, POINT AT WHICH QUALITY DROP CLASSIFICATION IS CHANGED FROM 'A' TO 'B'.
 2. SEE WESTINGHOUSE DRAWING M-761-08072.
 3. SEE WESTINGHOUSE DRAWING M-761-08073.
 4. SEE WESTINGHOUSE DRAWING M-761-08074.
 5. SEE WESTINGHOUSE DRAWING M-761-08075.
 6. DETAILS OF REACTOR COOLANT PUMP MOTOR CONTROLS, SERVO MOTOR INJECTION, AND INSTRUMENTATION AND CONTROLS ARE SHOWN ON M-128B03.
 7. RFD STRAPPED TO LINE.
 8. DURING DRAINING AND FILLING.
 9. DELETED.
 10. REFERENCES WESTINGHOUSE DRAWINGS M-738-08022, M-738-08023, AND M-738-08024.
 11. ALL METALS IN THE SECTION 11A CASE 1 OPERATOR'S AND 11B SECTION SUBJECT TO VIBRATION EXAMINATION DURING PRESSURE TEST. INSPECTED METALS AND THEIR INSPECTION REFERENCES ARE IDENTIFIED IN THE APPLICABLE BOUNDARIES OF THESE PIPING SYSTEMS AND IDENTIFIED WITH A Δ SYMBOL FOR CLARITY.
 12. FOR PAID LEGEND AND SYMBOLS SEE DRAWINGS 18468-M-12018 THRU 18468-M-12021.
 13. DETAILS OF STEAM GENERATOR SECONDARY SIDE PIPING AND CONTROLS ARE IDENTIFIED ON M-128B01, M-128B02, AND M-128B03.
 14. A DIRECT READING DIGITAL PRESSURE INDICATOR IS CONNECTED TO THIS SECTION OF THE INSTRUMENTATION SYSTEM. THIS INSTRUMENTATION IS IDENTIFIED WITH A Δ SYMBOL FOR CLARITY.
 15. DELETED.
 16. PRESSURIZER SAFETY & RELIEF VALVE DISCHARGE LINE SHOULD BE ANALYZED FOR CORROSION IN THE VICINITY OF THE PRESSURIZER RELIEF TANK DURING DRAINING AND FILLING.
 17. DELETED.
 18. DELETED.
 19. DURING NORMAL PLANT OPERATION, QUICK DISCONNECT DUST CAPS WILL BE INSTALLED ON THE DRAIN ENDS WITH QUICK DISCONNECTS OF STEAM GENERATOR COOLANT PUMP. THESE CAPS WILL BE REMOVED FOR THE MAINTENANCE OF THE MAIN CONTROL BOARD AND INDICATION WHILE THE PRESSURIZER RELIEF TANK IS A SETPOINTLY QUALIFIED ASSESSMENT.
 20. THE PRESSURIZER RELIEF TANK IS A SETPOINTLY QUALIFIED ASSESSMENT.
 21. DURING ALL RFS LEVEL INSTRUMENTATION USING REFERENCED VALVES.
 22. DELETED.
 23. DURING NORMAL PLANT OPERATION, QUICK DISCONNECT DUST CAPS WILL BE INSTALLED ON THE DRAIN ENDS WITH QUICK DISCONNECTS OF STEAM GENERATOR COOLANT PUMP. THESE CAPS WILL BE REMOVED FOR THE MAINTENANCE OF THE MAIN CONTROL BOARD AND INDICATION WHILE THE PRESSURIZER RELIEF TANK IS A SETPOINTLY QUALIFIED ASSESSMENT.
 24. AGILEMETERS ARE INSTALLED AT EACH REACTOR COOLANT PUMP DISCHARGE.
 25. LAMPARD ROTAMETERS ARE ATTACHED AT THE FOLLOWING LOCATIONS: LOOP 1 STEAM GENERATOR COOLANT OUTLET (1.4) REACTOR PRESSURE LESS HEAD (2), BELOW THE REACTOR COOLANT PUMP (1.4) REACTOR PRESSURE LESS HEAD (2), BELOW THE REACTOR COOLANT PUMP (1.4) REACTOR PRESSURE LESS HEAD (2).
 26. AGILEMETERS ARE REMOVED OR ABANDONED AT THE '0' HOT LEG REACTOR VESSEL NOZZLE.
 27. DELETED.

DC7 05/11/2021

USAR FIG. 5.1-1-01

REFERENCE:

ANY REVISIONS TO THIS DRAWING MAY REQUIRE A REVISION TO THE PIPING & INSTRUMENTATION DRAWING PER P. 1.0, M-128B01.

ESSENTIAL DRAWING

INCORPORATED WITH M-128B01/03/7-A-1

CHANGELIST 01234

DATE: 05/11/2021

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

REACTOR COOLANT SYSTEM

SCALE: 1/4" = 1'-0"

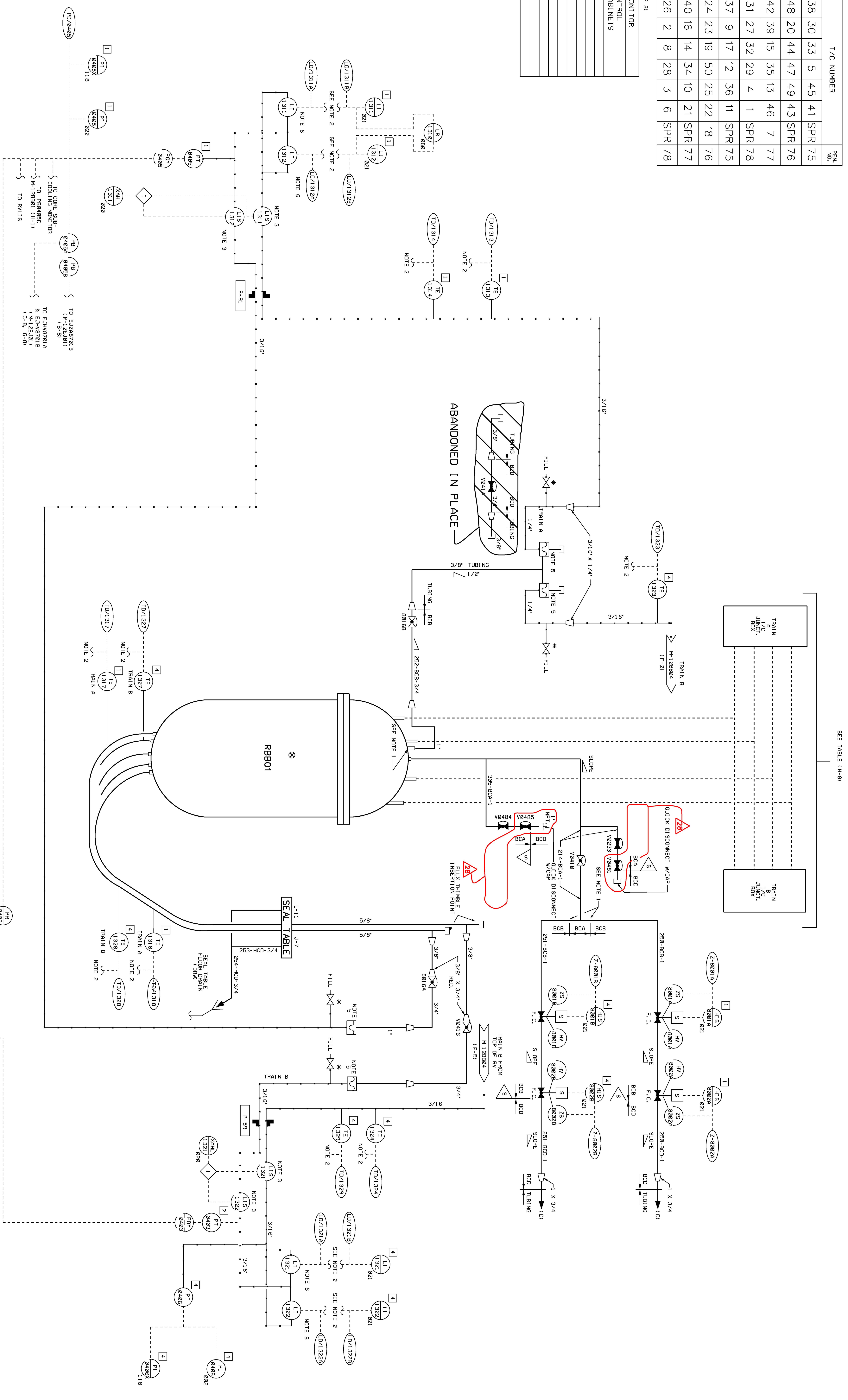
SHEET NO. 43

TRAIN	SEP. BRN.	T/C JUNCT. BOX NO.	T/C NUMBER	REN. NO.
A	1	BB0004A	38 30 33 5 45 41 SPR 75 48 20 44 47 49 43 SPR 76 42 39 15 35 13 46 7 77 31 27 32 29 4 1 SPR 78	75 76 77 78
B	4	BB0004B	37 9 17 12 36 11 SPR 75 24 23 19 50 25 22 18 76 40 16 14 34 10 21 SPR 77 26 2 8 28 3 6 SPR 78	75 76 77 78

RV CORE SUBCOOLING MONITOR (NOTE 8)

INSTRUMENT TAG NO.	LOCATION
UIU-398A	PP981A
TRI-398A	PP981A
TI-398A	PP981A
TAU-398A	RI-0022
TALU-398A	RI-0022
TALU-398B	RI-0022

TEMPERATURE/CORE COOLING MONITOR
DISPLAY INSTRUMENTS FOR CONTROL BOARD SECTION AND/OR OTHER CABINETS



- NOTES:**
- REFER TO NOTE 1 ON M-128B01.
 - SEE WESTINGHOUSE PROCESS BLOCK DIAGRAMS V DMC, NO. 2356099 AND WESTINGHOUSE INSTRUMENTATION MANUAL, VOLUME 1, 442, 443 & 444, AND VOLUME 2, 1311, 1312, 1321 & 1322 AND HYDRAULIC ISOLATIONS WITH A DELTID.
 - DELETED.
 - HYDRAULIC SENSORS.
 - LEVEL INDICATOR.
 - LEVEL INDICATOR.
 - DELETED.
 - CONNECTIONS TO THE CORE COOLING MONITOR SEE WESTINGHOUSE DRAWING M-754-00319, M-754-00320 & M-754-00321.
 - DELETED.

USAR FIG. 5.1-1-04

ESSENTIAL DRAWING

DC7 05/05/2021

DESIGNED BY	INCORPORATED BY	CHANGED BY
DRAWN BY	CHECKED BY	DATE
REVISIONS	REVISIONS	REVISIONS
1	1	1

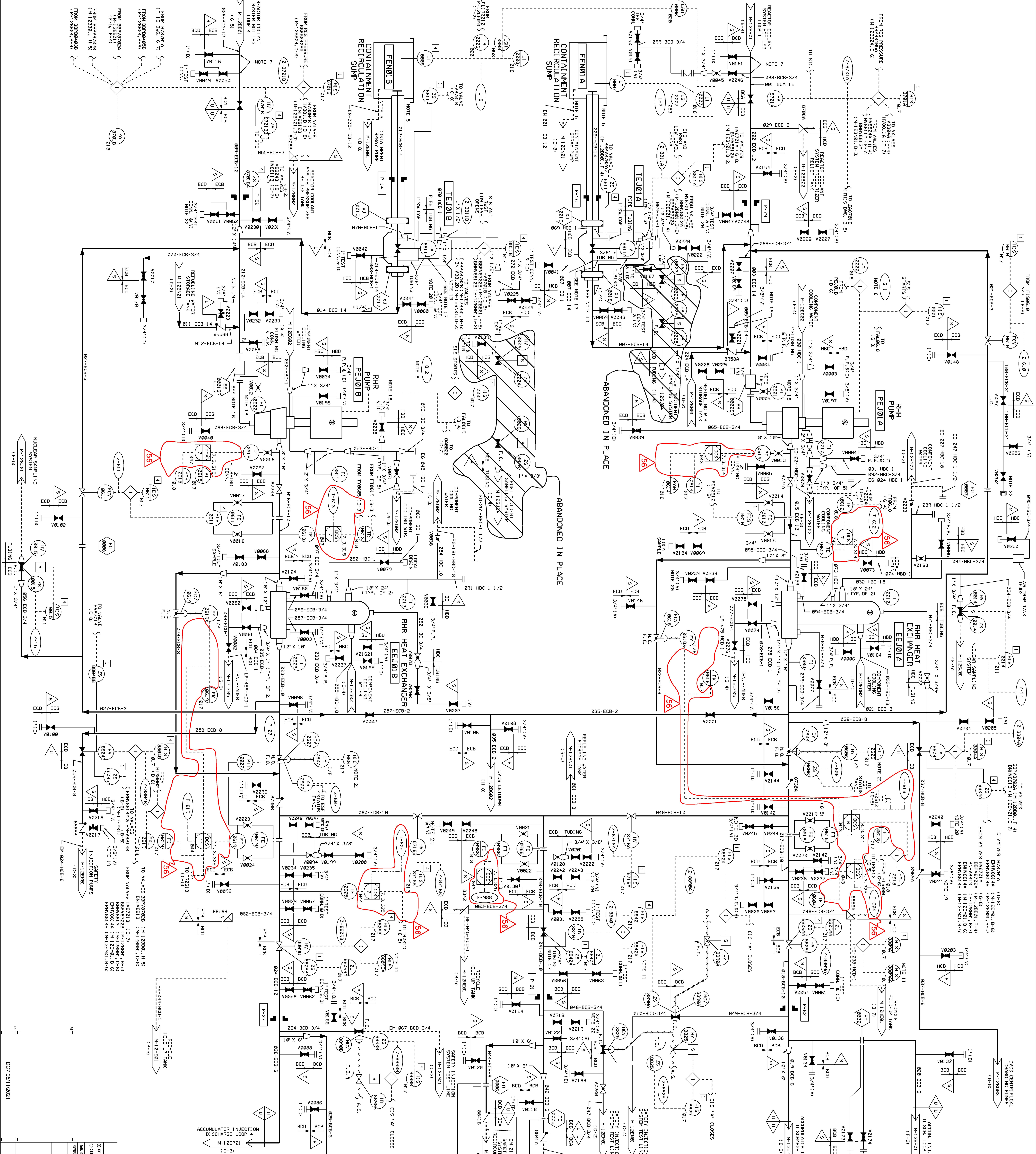
WOLFCORE
NUCLEAR OPERATING CORPORATION

PIPING & INSTRUMENTATION
DIAGRAM REACTOR
COOLANT SYSTEM

APPROVAL

SHEET NO. 28

SCALE NONE



NOTES

1. DELETED.
2. DELETED.
3. THIS DRAWING IS BASED ON WESTINGHOUSE DRAWING M-12E002.
4. THIS DRAWING IS BASED ON WESTINGHOUSE DRAWING M-12E002.
5. VALVE LOCKED IN POSITION.
6. THE ASSUMED OPERATING MODE IS AS SHOWN IN THE INSTRUMENTATION LOGIC.
7. THE ASSUMED OPERATING MODE IS AS SHOWN IN THE INSTRUMENTATION LOGIC.
8. THE ASSUMED OPERATING MODE IS AS SHOWN IN THE INSTRUMENTATION LOGIC.
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21. THE ASSUMED OPERATING MODE IS AS SHOWN IN THE INSTRUMENTATION LOGIC.
22. THE ASSUMED OPERATING MODE IS AS SHOWN IN THE INSTRUMENTATION LOGIC.

ESSENTIAL DRAWING

USAR FIG. 5.4-7-00

ANY REVISION TO THIS DRAWING MAY REQUIRE A REVISION TO M-12E002.

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED	05/11/02

DATE: 05/11/02

SCALE: NONE

PROJECT: PIPING AND INSTRUMENTATION DIAGRAM RESIDUAL HEAT REMOVAL SYSTEM

APPROVAL:

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

INSTRUMENTATION ENGINEER: [Signature]

DATE: 05/11/02

PROJECT: PIPING AND INSTRUMENTATION DIAGRAM RESIDUAL HEAT REMOVAL SYSTEM

APPROVAL:

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

INSTRUMENTATION ENGINEER: [Signature]

DATE: 05/11/02

