



NUCLEAR SAFETY RELATED
 THIS DRAWING IS CLASSIFIED AS UNCLASSIFIED
 (SEE ENERGY CLASSIFICATION FOR UNCLASSIFIED)
 (EXCEPT WHERE SHOWN OTHERWISE)

- NOTES:**
1. VALVE TAGS WITH PUSH TO VOLUME CONTROL PANEL.
 2. SPRING LOADED CHECK VALVE.
 3. LOCATE BOTTOM OF STANDPIPE 25 FEET ABOVE CONNECTION TO RC PUMP NO. 3 SEAL.
 4. THE PIPING HORIZONTAL OR UPWARD TO LOOP FROM REACTOR COOLANT SYSTEM PUMP SHALL INCLUDE A CHECK VALVE AFTER THE PUMP FROM REACTOR COOLANT SYSTEM THROUGH THE TO REACTOR COOLANT SYSTEM TANK (RCS).
 5. THE LABYRINTH SEAL.
 6. VALVE TAGS SHOWN FROM PRESSURIZED BELIEF TANK.
 7. VALVES IN PUMP CIRCUIT NUMBERED IDENTICALLY TO PUMP LABYRINTH LETTER IDENTIFIER. PLUMB TO WHICH VALVE BELONGS IS PLUMP W. FOR PUMP 1, PLUMP B FOR PUMP 2.
 8. EXCEPT AS THE LEVEL CONTROL VALVES IN THE MAIN UP WHERE SHOWN TO USE RCY SEAL, 3000 PPS WHICH ARE LABELED BOTH FOR PUMP 1, 3000 PPS PUMP 2, 3000 PPS PUMP 3, 3000 PPS PUMP 4.
 9. THERMOPILE POWERED WITH RC PUMP.
 10. PROTECTIVE LOW LEVEL SIGNAL CLOSURE.
 11. DELAY TIME 200 TO 300 SECONDS.
 12. FLOW RESTRICTION FOR SAFETY CLASS 1A TO BE TOLERANT FOR FLOW REVERSE.
 13. THE THERMOPILE CONNECTION SHALL BE MADE TO THE MAIN LINE OF THE PUMP CIRCUIT.
 14. FLOW RESTRICTION FOR SAFETY CLASS 1A TO BE TOLERANT FOR FLOW REVERSE.
 15. TEMPORARY STOPPER IS PLACED IN THE REACTOR COOLANT SYSTEM AT THE REACTOR COOLANT SYSTEM TANK TO BE REMOVED BEFORE PLANT STARTUP.
 16. REMOVE & REPLACE WITH CLEAN RANGES FIRST FOR BURN BURNING OPERATION.
 17. PROVIDE MINIMUM OF 3 FT. OF CLEARANCE FROM OTHER PIPING, PLUMBING, OR ELECTRICAL WIRING.
 18. LOCATE AS CLOSE TO CONTAINMENT WALL AS POSSIBLE.
 19. ALL VALVES ALIGNED FOR DESIGN SIGNAL (SIGNAL).
 20. COLLIER VALVES SHALL BE THE MAIN POINT IN THE CHECK CIRCUIT.
 21. FLOW RESTRICTION FOR SAFETY CLASS 1A TO BE TOLERANT FOR FLOW REVERSE.
 22. THE THERMOPILE CONNECTION SHALL BE MADE TO THE MAIN LINE OF THE PUMP CIRCUIT.
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20. OVERFLOW FROM COOLANT HEAD TANK INTERNAL TO PUMP.
21. LOCATE CONNECTION AS CLOSE AS POSSIBLE TO THE VOLUME CONTROL TANK.
22. VALVES REQUIRED SHOWN INTERNAL WITH PERMISSIBLE SIGNALS.
23. DISCONNECT LINE SHALL BE BUTT-WELD-300.
24. BUTT-WELD THE BRANCH LINE SHALL BE SOCKET WELD AFTER THE TEST.
25. VALVE ICV5000 TO BE CLOSED IN COLD SHUT DOWN TO LIMIT MAXIMUM POSSIBLE DILUTION ACCIDENT FLOW RATE.
26. FLUX DOUBLING SIGNAL CLOSURE VCT OUTLET VALVES ICV1001 AND ICV1002 AND OPEN IN TEST VALVES ICV1001 AND ICV1002.
27. IT IS ACCEPTABLE TO TEST LINE ICV1001-3 BETWEEN HEAT EXCHANGER ICV1001 AND VALVE ICV1001 WITH THE SUCTON SIDE OF THE HEAT EXCHANGER.
28. IT IS ACCEPTABLE TO TEST LINE ICV1001-3 WITH THE CV SYSTEM SINCE THE LINE CANNOT BE ISOLATED FROM THE CV SYSTEM DOWNSTREAM OF VALVE ICV1001.
29. DESIGN PRESSURE OF LINE ICV048-3 BETWEEN TANK ICV018 AND VALVE ICV048 IS 70 PSIG TO FACILITATE HYDRO TEST OF TANK ICV018.
30. DESIGN PRESSURE OF LINE ICV530-3 BETWEEN LINE ICV1001-3 AND VALVE ICV5000 IS 70 PSIG TO FACILITATE HYDRO TEST OF TANK ICV018.

ANSTEC APERTURE CARD

DIAGRAM OF CHEMICAL VOLUME CONTROL & BORON THERMAL RESERVE BYRON UNIT 1
 CORNING HEALTH EDISON CO.
 CHICAGO, ILL.

REVISIONS:

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M-64 SHEET

CRITICAL CONTROL ROOM DRAWING

MC

PDR RIDS

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