



REV	DATE	BY	CHKD	DESCRIPTION
1	11-13-80	J.C. Kowal	M.P. Chas. [unclear]	INCORP BYRON S' 6-23-80 Y-2739, 6'0" & 11-12-80 -- ADD & DELETE UNIQUE FEATURES -- FOR FAB PER Y-2741 & CONSTR PER Y-2739
2	12-20-81	J.C. Kowal	M.P. Chas. [unclear]	INCORP BYRON S' 6-23-80 Y-2739, 6'0" & 11-12-80 -- ADD & DELETE UNIQUE FEATURES -- FOR FAB PER Y-2741 & CONSTR PER Y-2739
3	05-16-81	J.C. Kowal	M.P. Chas. [unclear]	INCORP BYRON S' 6-23-80 Y-2739, 6'0" & 11-12-80 -- ADD & DELETE UNIQUE FEATURES -- FOR FAB & CONSTR PER Y-2739 FOR RECORD Y-2741

**SAFETY RELATED**  
 ITEMS ARE SHOWN ON THIS DRAWING  
 FOR SYSTEM CLASSIFICATION AND SYSTEM  
 CLASSIFICATION BOUNDARY DEFINITION  
 M-34 SHT. 1  
 (NOTES CONTD ON M-60-5)

- NOTES:
1. 29" INSIDE DIAMETER.
  2. 31" INSIDE DIAMETER.
  3. 27.5" INSIDE DIAMETER.
  4. LOCATE FLOWMETER IN 1' OF ELBOW DOWNSTREAM OF SW GENERATOR.
  5. SPRAY LINE SCOOP.
  6. ELBOW FLOW METERS.
  7. VENT PIPE FURNISHED WITH REACTOR VESSEL HEAD.
  8. HEAD GASKET MONITORING CONNECTIONS FURNISHED WITH REACTOR VESSEL.
  9. RTD INSTALLED IN WELL.
  10. LOCATE CONNECTION IN BOTTOM HALF OF REACTOR COOLANT PIPING ON 45° ANGLE TO VERTICAL.
  11. HOLE PROVIDED.
  12. 0.25" HOLE THROUGH VALVE BUNG.
  13. PROVIDE 0.1875" ID FLOW RESTRICTION PER DWS MKA-1 NOTE 33.
  14. LOCATE BELOW LEVEL OF REACTOR VESSEL FLANGE.
  15. PLACE AS CLOSE AS POSSIBLE TO REACTOR VESSEL NOZZLE.
  17. HOT LEG BYPASS LINE SCOOPS, WHERE APPLICABLE, ROTATE CONNECTIONS 30° TO PREVENT ALIGNMENT WITH THE SURGE LINE CONNECTION.
  18. RTD MANIFOLD-PIPE AND RTD'S SUPPLIED AS A PACKAGE MANIFOLD APPROX. 20 INCHES LONG.
  19. LOCATE RTD MANIFOLD ISOLATION VALVE APPROX. 3 INCHES FROM MANIFOLD.
  20. LOCATE CONNECTION ON UPPER 180° OF PIPE CIRCUMFERENCE.
  21. ALL BYPASS LOOP PIPING AND THE RTD MANIFOLD SHALL HAVE REMOVABLE RESTRICTION UP TO LOOP ROOT VALVES.
  22. LOCATE ROOT VALVE ABOVE ELEVATION OF REACTOR VESSEL NOZZLES.
  23. LENGTH OF HOT LEG 2 INCH PIPE UPSTREAM TO RTD A TO B TO BE A MAXIMUM OF 8 FEET.
  24. LENGTH OF COLD LEG 2 INCH PIPE UPSTREAM TO RTD C TO D TO BE A MAXIMUM OF 6 FEET.
  26. RTD MANIFOLD LOOP PIPING SHOULD HAVE ENOUGH FLEXIBILITY TO COOL DOWN TO TOP WITH THE REACTOR COOLANT PIPING AT 560°F.
  27. TEMPORARY READOUT FOR SELECTED PUMP MONITORING. CONNECT TO VIBRATION TRANSDUCER AS REQUIRED.
  28. THESE DATA POINTS LOGGED BY COMPUTER ONLY.
  29. VALVE INDEX NUMBER SUFFIX A FOR LOOP 1, SUFFIXES B, C, AND D AS ACTUATED AUTOMATICALLY BY GAS ANALYZER CONTROLLER.
  30. LOCATE ROOT VALVE ABOVE ELEVATION OF REACTOR VESSEL NOZZLE AS CLOSE AS POSSIBLE TO THE LOOP STOP VALVE.
  31. LOCATE REDUCER AS CLOSE AS POSSIBLE TO REACTOR COOLANT LOOP PIPING.

- UNIQUE FEATURES:
- F 4-14-80 [unclear] [unclear] [unclear]
  - G 7-7-80 [unclear] [unclear] [unclear]
  - H 9-19-80 [unclear] [unclear] [unclear]

DIAGRAM OF REACTOR COOLANT LOOP-1  
 MARBLE HILL NUCLEAR GENERATING STATION UNIT-1  
 PUBLIC SERVICE INDIANA  
 PLAINFIELD, INDIANA

SCALE: NONE  
 PROJECT NUMBER: 482800  
 DRAWING NO: M-60  
 SHEET: 1 OF 1

DATE: 11-13-80  
 BY: J.C. Kowal  
 CHECKED: M.P. Chas. [unclear]

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F	4-14-80	[unclear]	[unclear]	UNIQUE FEATURES
G	7-7-80	[unclear]	[unclear]	UNIQUE FEATURES
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