



- NOTES:**
1. UNLESS OTHERWISE NOTED ALL VENTS ARE 3/4" AND DRAINS 1" LINE IDENT. SAME AS HEADER.
  2. FOR GENERAL NOTES, PIPING SYMBOLS, AND PAID INDEX SEE DRAWING M-001.
  3. FOR INSTRUMENTATION SYMBOLS SEE DRAWING M-002.
  4. ALL PIPING FROM THIS CONNECTION IS AT LOWER ELEVATION THAN REACTOR COOLANT LOOPS.
  5. B & W SCOPE OF SUPPLY FOR PIPING:  
A. 3" & 3 1/2" I.D. REACTOR COOLANT PIPING.  
B. 10" PRESSURIZER SURGE LINE.  
C. CONTROL ROD DRIVE WATER PIPING, ON CONTROL ROD DRIVE HOUSING, OUT TO DISCONNECT JOINT.  
D. 2 1/2" PRESSURIZER SPRAY LINE.
  6. SYSTEM FUNCTIONS SHOWN ARE FOR NORMAL OPERATION UNDER FULL LOAD.
  7. THE CONNECTIONS  $\frac{1}{2}$ " ARE FOR ISOLATION VALVES LEAK TEST.
  8. DELETED.
  9. ALL VENT, DRAIN, LEAK TEST AND INSTRUMENTATION CONNECTIONS IN THIS SYSTEM SHALL HAVE DOUBLE VALVES AS ISOLATION.
  10. FOR REACTOR COOLANT PUMP DETAILS SEE DRAWING M-040.
  11. DELETED.
  12. R.P.S. NARROW RANGE PRESSURE SIGNAL IS CONVERTED TO ERROR SIGNAL IN THE NMI CABINET.
  13. FOR REACTOR PROTECTION SYSTEM (RPS) INSTRUMENTATION, SEE DRAWING M-030B FOR SAFETY FEATURES ACTUATION SYSTEM (SFAS) INSTRUMENTATION. SEE DRAWING M-030B.
  14. THE ONLY VENT OR DRAIN LINE CAPS REQUIRED TO BE SHOWN ON PIPING AND INSTRUMENTATION DIAGRAMS ARE THOSE CONTROLLED UNDER DB-OP-00005 (FORMERLY AD1839.03). THE ACTUAL TERMINATION OF ALL OTHER VENTS OR DRAINS ARE NOT SHOWN AND, INSTEAD, AN OPEN ENDED PIPE IS DISPLAYED.
  15. USE PORTABLE TEMPERATURE HEADOUT AT DISCONNECT TO MEET APPENDIX R' CRITERIA USE TI-5503 OR TI-5504.
  16. RC10 AND RC11 PROVIDE COMPLETE ISOLATION IN THE NORMAL FLOW DIRECTION ONLY. REFER TO DWG M-212A-1 AND M-525-90 FOR SPECIFIC BONNET VENTING DETAILS.
  17. RC46 MAY BE CLOSED IF LEAKAGE EXISTS.
  18. WHERE NOTED THE TANK CAPACITY IS NOMINAL, WHERE APPLICABLE. SEE DB-PF-06705 (TANK LEVEL CALIBRATION CURVES) FOR INDICATED LEVEL VS. VOLUME RELATIONSHIP. (SEE P&QR 98-09761).
  19. FOR FLUX MONITORING SYSTEM P & ID, REFERENCE DWG M-329-1480.

- LR NOTES:**
- A. FOR GENERAL LICENSE RENEWAL NOTES REFER TO LR-M001 SH.1
  - B. THE PRESSURIZER INTERNAL SPRAY LINE DOES NOT PERFORM A LICENSE RENEWAL INTENDED FUNCTION AND THEREFORE IS NOT IN THE SCOPE OF LICENSE RENEWAL.
  - C. THE REACTOR PRESSURE VESSEL IS HIGHLIGHTED HERE BUT REVIEWED IN LR-MR-M04. "AGING MANAGEMENT REVIEW OF THE REACTOR PRESSURE VESSEL," WHICH DOES NOT CONTAIN ANY BOUNDARY DIAGRAMS
  - D. THE STEAM GENERATORS ARE HIGHLIGHTED HERE BUT REVIEWED IN LR-MR-M04. "AGING MANAGEMENT REVIEW OF THE STEAM GENERATORS," WHICH DOES NOT CONTAIN ANY BOUNDARY DIAGRAMS

**LICENSE RENEWAL BOUNDARY DRAWING**  
**LR-M030A REV. 0**

SYSTEMS SHOWN ON THIS DRAWING:  
 03: REACTOR COOLANT  
 11: COMPRESSED AIR & GAS  
 19: REACTOR COOLANT VENT & DRAIN

**BECHTEL ASSOCIATES**  
**PROFESSIONAL CORPORATION (OHIO)**  
 6A1 THERSBURG, MARYLAND  
**DAVIS-BESSE NUCLEAR POWER STATION**  
 UNIT NO. 1  
 THE TOLEDO EDISON COMPANY

**PIPING & INSTRUMENT DIAGRAM**  
**REACTOR COOLANT SYSTEM**

JOB NO.	DRAWING NO.	REV.
12501	M-030A	62

THIS DWG. REV. 0 SUPERSEDES IN PART DWG. M-030 REV. 30. WORK THIS DWG. WITH M-030B.

REF: DB-M001  
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 DATE: 03-04-08 14:34:44  
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