



- NOTES:**
- UNLESS OTHERWISE NOTED ALL VENTS ARE 3/4" AND DRAINS 1", LINE IDENT. SAME AS HEADER.
  - FOR GENERAL NOTES, PIPING SYMBOLS, AND PID INDEX SEE DRAWING M-001.
  - FOR INSTRUMENTATION SYMBOLS SEE DRAWING M-002.
  - ALL PIPING FROM THIS CONNECTION MUST BE AT LOWER ELEVATION THAN REACTOR COOLANT LOOPS.
  - B & W SCOPE OF SUPPLY FOR PIPING:  
A. 28" & 36" 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.
  - SYSTEM FUNCTIONS SHOWN ARE FOR NORMAL OPERATION UNDER FULL LOAD.
  - THE CONNECTIONS 1/2" ARE FOR ISOLATION VALVES LEAK TEST.
  - DELETED
  - ALL VENT, DRAIN, LEAK TEST AND INSTRUMENTATION CONNECTIONS IN THIS SYSTEM SHALL HAVE DOUBLE VALVES AS ISOLATION.
  - FOR REACTOR COOLANT PUMP DETAILS SEE DRAWING M-040.
  - DELETED
  - R.P.S. NARROW RANGE PRESSURE SIGNAL IS CONVERTED TO ERROR SIGNAL IN THE WMI CABINET (SEE DRAWING M-001).
  - FOR REACTOR PROTECTION SYSTEM (RPS) INSTRUMENTATION FOR SAFETY FEATURES ACTIVATION SYSTEM (SFAS) INSTRUMENTATION, SEE DRAWING M-030B.
  - THE ONLY VENT OR DRAIN LINE CAPS REQUIRED TO BE SHOWN ON PIPING AND INSTRUMENTATION DIAGRAMS ARE THOSE CONTROLLED UNDER DB-OP-00009 (FORMERLY AD1832.03). THE ACTUAL TERMINATION OF ALL OTHER VENTS OR DRAINS ARE NOT SHOWN AND INSTEAD, AN OPEN ENDED PIPE IS DISPLAYED. (REF: PARAGR 56-01916).
  - USE PORTABLE TEMPERATURE READOUT AT DISCONNECT TO MEET APPENDIX R CRITERIA USE TI-5503 OR TI-5504.
  - RC10 AND RC11 PROVIDE COMPLETE ISOLATION IN THE NORMAL FLOW DIRECTION ONLY. REFER TO VOM M-21240-1 AND M-525-90 FOR SPECIFIC BONNET VENTING DETAILS.
  - RC16 MAY BE CLOSED IF LEAKAGE EXISTS.
  - WHERE NOTED THE TANK CAPACITY IS NOMINAL, WHERE APPLICABLE, SEE DB-PP-0605 (TANK LEVEL CALIBRATION CURVES) FOR INDICATED LEVEL VS. VOLUME RELATIONSHIP. (REF: PARAGR 56-01916).
  - FOR FLUX MONITORING SYSTEM P & ID, REFERENCE VOM M-329-1480.

- LR NOTES:**
- FOR GENERAL LICENSE RENEWAL NOTES REFER TO LR-M001-S1.
  - THE PRESSURIZER INTERNAL SPRAY LINE DOES NOT PERFORM A LICENSE RENEWAL INTENDED FUNCTION AND THEREFORE IS NOT IN THE SCOPE OF LICENSE RENEWAL.
  - THE REACTOR PRESSURE VESSEL IS HIGHLIGHTED HERE BUT REVIEWED IN LR-M001. "AGING MANAGEMENT REVIEW OF THE REACTOR PRESSURE VESSEL," WHICH DOES NOT CONTAIN ANY BOUNDARY DIAGRAMS.
  - THE STEAM GENERATORS ARE HIGHLIGHTED HERE BUT REVIEWED IN LR-M001. "AGING MANAGEMENT REVIEW OF THE STEAM GENERATORS," WHICH DOES NOT CONTAIN ANY BOUNDARY DIAGRAMS.
  - REACTOR PROTECTION SYSTEM INSTRUMENTATION, FLOW TRANSMITTERS, DOWNSTREAM PRESSURE TRANSMITTERS, AND ASSOCIATED MECHANICAL COMPONENTS ARE HIGHLIGHTED ON DRAWING LR-M001.
  - UPDATED SB BOUNDARY IS AT THE INDICATED LOCATION, AS SHOWN ON P&ID M-030A REV. 63 AND REV. 64.

**LICENSE RENEWAL BOUNDARY DRAWING**  
**LR-M030A REV. 1**

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

**BECHTEL ASSOCIATES**  
 PROFESSIONAL CORPORATION (OHIO)  
 611 THIBERSBURG, 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. 50. WORK THIS DWG. WITH M-030B.

REF: EPM-0211  
 EPM-1: P105.M030A.DWG  
 DB 03-04-08 14 34X44 1/8" SIZE  
 Level: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

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