



NOTES:

1. DELETED
2. ALL VENT, DRAIN, LEAK TEST & INSTRUMENT CONNECTION RATED AT 1500 POUNDS SHALL HAVE DOUBLE VALVE ISOLATION.
3. UNLESS OTHERWISE NOTED, ALL DRAIN CONNECTIONS ARE 1" AND ALL VENT CONNECTIONS 3/4", LINE IDENTIFICATION SAME AS HEADER.
4. SYSTEMS FUNCTIONS SHOWN ARE FOR NORMAL PLANT OPERATION UNDER FULL LOAD.
5. FOR GENERAL NOTES, PIPING SYMBOLS AND P & ID INDEX SEE DRAWING M-001.
6. FOR INSTRUMENTATION SYMBOLS SEE DRAWING M-002.
7. DELETED
8. TEST CONNECTIONS ARE 3/4" UNLESS OTHERWISE NOTED.
9. CHECK VALVES M1106, M1187 & M1385 WILL BE LOCATED AS CLOSE TO M1 TANK AS POSSIBLE.
10. FOR M1 PUMP INSTRUMENTATION SEE BECHTEL DRAWING 7749-M-516-30 (B & W DRAWING 17319E).
11. DELETED
12. FOR TYPICAL HEAT TRACING CIRCUIT SEE P & ID M-045. FOR HEAT TRACING INSTRUMENTATION AND DETAILS SEE THERM DRAWING 74-147A.
13. ISOLATION VALVE AND HOSE CONNECTION, FOR CONTAINMENT ISOLATION AIR VOLUME TANK TO BE LOCATED OUTSIDE NEGATIVE PRESSURE AREA.
15. DELETED
16. DELETED
17. THE ONLY VENT OR DRAIN LINE CAPS REQUIRED TO BE SHOWN ON PIPING AND INSTRUMENTATION DIAGRAMS ARE THOSE CONTROLLED UNDER DB-OP-0009 (FORMERLY AD1835.03). THE ACTUAL TERMINATION OF ALL OTHER VENTS OR DRAINS ARE NOT SHOWN AND INSTEAD, AN OPEN ENDED PIPE IS DISPLAYED.
18. CERTAIN COMPONENTS WITHIN THIS BOUNDARY REQUIRED FOR EMERGENCY FEED AND BLEED COOLING WERE PURCHASED TO LESS STRINGENT QUALITY REQUIREMENTS PRIOR TO UPGRADING OF THIS FUNCTION VIA FER 98-0432 AND MOD 88-0145. THESE COMPONENTS WILL BE DESIGNATED AS QUALITY CLASS NO UNTIL SUCH TIME AS THEY ARE REPLACED. REFER TO THE QUALITY CLASSIFICATION LIST, PROCEDURE EN-OP-01130 (CLASSIFICATION RULES 2.2.2.P, 2.3.6.A AND 2.3.6.B) AND INTRA-COMPANY MEMORANDUM NEN-91-10215 'FEED AND BLEED SYSTEM DESIGN CRITERIA' FOR FURTHER DETAILS.
19. DELETED
20. WHERE NOTED THE TANK CAPACITY IS NOMINAL, WHERE APPLICABLE, SEE DB-PF-06705 (TANK LEVEL CALIBRATION CURVES) FOR INDICATED LEVEL VS. VOLUME RELATIONSHIP. (REF: PCAOR 96-0976).
21. VALVES PW28 AND PW29 ARE DISABLED IN THE CLOSED POSITION. REFERENCE MOD 95-0050.
22. SOME VALVES NUMBERED WITH A "PW" DESIGNATION (I.E., PW32) ARE BEING USED TO SUPPLY DEMINERALIZED WATER. REFERENCE MOD 95-0050.

LR NOTES:

- A. FOR GENERAL LICENSE RENEWAL NOTES REFER TO LR-M001-01.
- B. NSR COMPONENTS CONTAINING AIR OR GAS (E.G., VENT LINES) ARE NOT WITHIN THE SCOPE OF LICENSE RENEWAL.

LICENSE RENEWAL BOUNDARY DRAWING LR-M031A REV. 1

- SYSTEMS SHOWN ON THIS DRAWING:
- 03: REACTOR COOLANT
  - 10: MAKEUP & PURIFICATION
  - 13: COMPONENT COOLING & DEMINERALIZED WATER STORAGE
  - 23: SAMPLING
  - 24: NONSAFETY AFFECTING SAFETY
  - 25: BORON RECOVERY

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

PIPING & INSTRUMENT DIAGRAM MAKE UP & PURIFICATION SYSTEM

JOB NO.	DRAWING NO.	REV.
12501	M-031A	50

THIS DRAWING, 0 SUPERSEDES IN PART Dwg. M-031 REV. 45. WORK THIS Dwg. WITH M-031B.

DB 10-30-07 14 3/4" X 11" E-C SIZE

D-46  
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