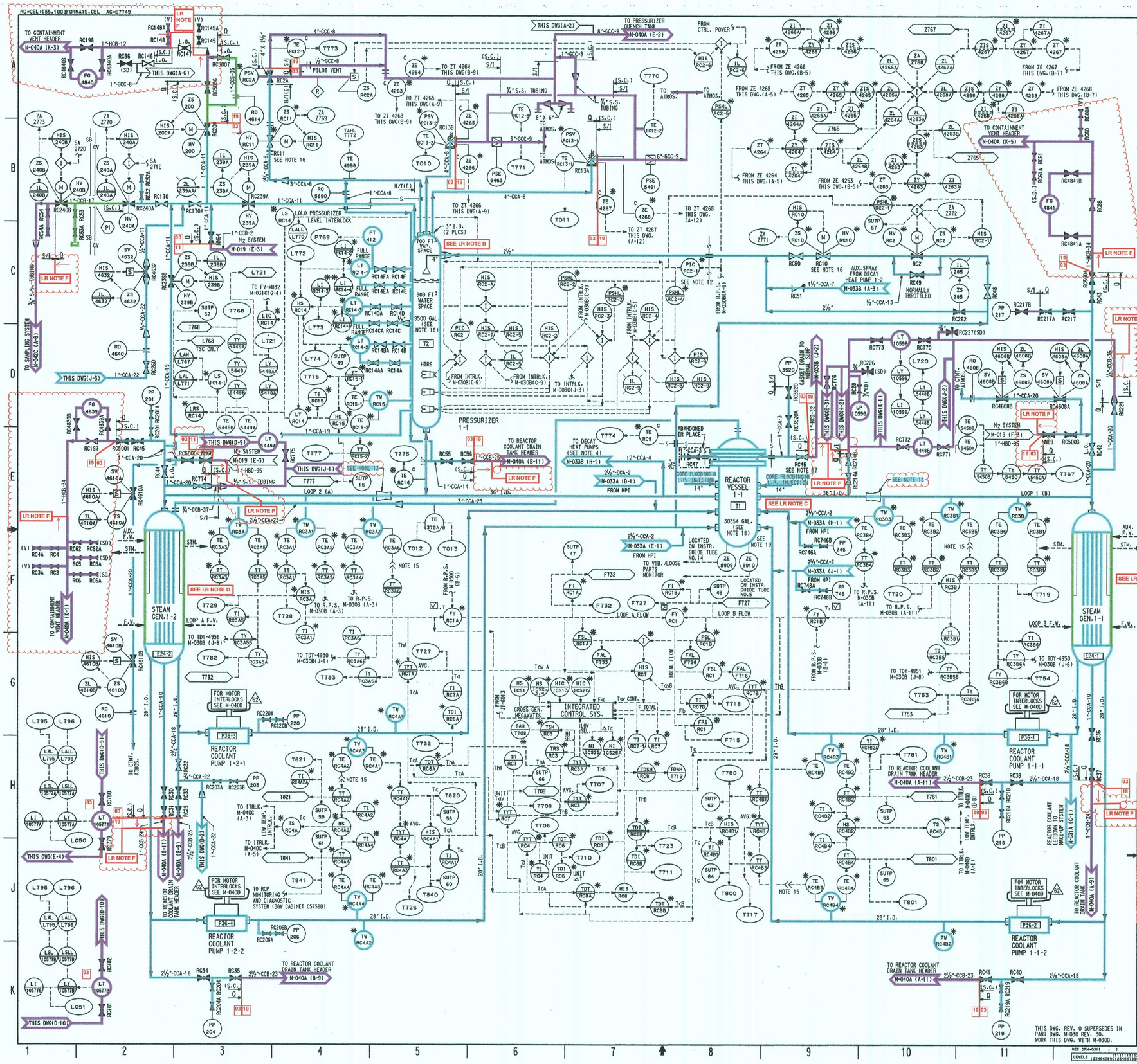


NOTES:

1. UNLESS OTHERWISE NOTED ALL VENTS ARE ¾" AND DRAINS 1". LINE IDENT. SAME AS HEADER.
2. FOR GENERAL NOTES, PIPING SYMBOLS, AND P&ID INDEX SEE DRAWING M-001.
3. FOR INSTRUMENTATION SYMBOLS SEE DRAWING M-002.
4. ALL PIPING FROM THIS CONNECTION MUST BE AT LOWER ELEVATION THAN REACTOR COOLANT LOOPS.
5. 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. 2½" PRESSURIZER SPRAY LINE.
6. SYSTEM FUNCTIONS SHOWN ARE FOR NORMAL OPERATION UNDER FULL LOAD.
7. THE CONNECTIONS S/E ¾" 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-040D.
11. DELETED
12. R.P.S.NARROW RANGE PRESSURE SIGNAL IS CONVERTED TO ERROR SIGNAL IN THE NNI 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-00009 (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 READOUT 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 VDWG M-212AQ-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. (REF: PCAQR 96-0976).
19. FOR FLUS MONITORING SYSTEM P & ID, REFERENCE VDWG 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 LRAMR-M01, "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 LRAMR-M04, "AGING MANAGEMENT REVIEW OF THE STEAM GENERATORS," WHICH DOES NOT CONTAIN ANY BOUNDARY DIAGRAMS

E. REACTOR PROTECTION SYSTEM INSTRUMENTATION, FLOW TRANSMITTERS, DOWNSTREAM PRESSURE TRANSMITTERS, AND ASSOCIATED MECHANICAL COMPONENTS ARE HIGHLIGHTED ON DRAWING LR-M030B

F. UPDATED S/I 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)
GAITHERSBURG, MARYLAND

DAVIS-BESSE NUCLEAR POWER STATION
UNIT NO.1
THE TOLEDO EDISON COMPANY

Q

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.

DB 03-04-08 14 34X44 SIZE

01D35