



- NOTES:**
1. THE STATION HEATING WATER SYSTEM IS BASED ON A PRIMARY-SECONDARY PIPING ARRANGEMENT WITH THE FOLLOWING DESIGN PARAMETERS:  
 (A) SYSTEM CAPACITY 18,250 MWH  
 (B) PRIMARY WATER FLOW RATE 550 GPM  
 (C) PRIMARY SUPPLY WATER TEMPERATURE 250° F  
 (D) PRIMARY RETURN WATER TEMPERATURE (APPROX.) 180° F
  2. THIS DRAWING INCLUDES WORK FOR THE FOLLOWING CONSTRUCTION CONTRACTS:  
 (A) 7748-1748-1 & 1748-1-2  
 (B) 7748-1-3
  3. FOR GENERAL SYMBOLS SEE PIPING AND INSTRUMENTATION DRAWINGS NO. M-001 AND M-002.
  4. ALL STATION HEATING PIPING SHALL BE IN ACCORDANCE WITH PIPING CLASS SHEETS 35D AND 40R ADD.
  5. UNLESS OTHERWISE NOTED ALL VENT CONNECTIONS ARE 3/4" AND DRAIN CONNECTIONS 1/2" LINE IDENTIFICATION SAME AS HEADER.
  6. ALL STRAINER BLOW DOWN VALVES FOR HOT WATER SYSTEM SHALL BE 1/2" EXCEPT VALVE SIZES WHICH IS N".
  7. ALL TEST CONNECTIONS SHOW BEFORE AND AFTER BALL OR V PORT VALVES SHALL BE 1/2" UNLESS OTHERWISE NOTED.
  8. THE ONLY VENT OR DRAIN LINE CAPS REQUIRED TO BE SHOWN ON PIPING AND INSTRUMENTATION DIAGRAMS ARE THOSE CONTROLLED UNDER DE-OP-0005 (FORMERLY ADR39.03). THE ACTUAL TERMINATION OF ALL OTHER VENTS OR DRAINS ARE NOT SHOWN AND INSTEAD, AN OPEN END PIPE IS INDICATED.
  9. THIS DRAWING DEPICTS COMPONENTS AS NORMALLY POSITIONED WITH THE SYSTEM IN SERVICE IN THE HEATING MODE. THE ACTUAL FIELD LINE UP MAY VARY AND IS CONTROLLED BY PROCEDURES.
  10. WHERE NOTED THE TANK CAPACITY IS NOMINAL, WHERE APPLICABLE. SEE DE-OP-0005 (TANK LEVEL CALIBRATION CURVES) FOR INDICATED LEVEL VS. VOLUME RELATIONSHIP. (REF: PCAM 98-0976).

**LR NOTES:**

A. FOR GENERAL LICENSE RENEWAL NOTES REFER TO LR-M021-01.  
 B. COMPONENTS BEYOND THE HIGHLIGHTING ARE IN THE TURBINE BUILDING, WHERE (A)(2) HAS CONSIDERATIONS ARE NOT A CONCERN, AND ARE THEREFORE NOT IN SCOPE.  
 C. THIS LINE (T-HCD-2) IS SYSTEM T3. ALL OTHER HIGHLIGHTING IS SYSTEM 24.

**LICENSE RENEWAL BOUNDARY DRAWING**  
**LR-M021 REV. 2**

SYSTEMS SHOWN ON THIS DRAWING:  
 13: COMPONENT COOLING & DEMINERALIZED WATER STORAGE  
 24: SAFETY AFFECTING SAFETY

<b>DAVIS-BESSE NUCLEAR POWER STATION</b>	
THE TOLEDO EDISON COMPANY THE CLEVELAND ELECTRIC ILLUMINATING COMPANY	
PIPING & INSTRUMENT DIAGRAM STATION HEATING SYSTEM	
JOB No. 7749	DRAWING No. M-021
REV. 43	REV. 43

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