



- NOTES:**
1. THE STATION HEATING WATER SYSTEM IS BASED ON A PRIMARY-SECONDARY PUMP ARRANGEMENT WITH THE FOLLOWING DESIGN PARAMETERS:  
 (A) SYSTEM CAPACITY: 15,250 GPM  
 (B) PRIMARY WATER FLOW RATE: 550 GPM  
 (C) PRIMARY SUPPLY WATER TEMPERATURE: 250° F  
 (D) PRIMARY RETURN WATER TEMPERATURE: 140° F  
 (E) SECONDARY SUPPLY WATER TEMPERATURE: 180° F
  2. THIS DRAWING INCLUDES WORK FOR THE FOLLOWING CONSTRUCTION CONTRACTS: 7749-8, 7749-11 & 7749-12
  3. FOR GENERAL SYMBOLS SEE PIPING AND INSTRUMENTATION DRAWINGS NO. W-001 AND W-002.
  4. ALL STATION HEATING PIPING SHALL BE IN ACCORDANCE WITH PIPING CLASS SHEETS JSD AND/OR JDD.
  5. UNLESS OTHERWISE NOTED ALL VENT CONNECTIONS ARE 1/2" AND DRAIN CONNECTIONS ARE 1/4" LINE IDENTIFICATION SHALL BE AS HEADER.
  6. ALL STRAINER BLOW DOWN VALVES FOR HOT WATER SYSTEM SHALL BE 1/2" EXCEPT VALVE SH551 WHICH IS 3/4".
  7. ALL TEST CONNECTIONS SHOWN 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 DB-07-00008 (FORMERLY AD1839.03). THE ACTUAL TERMINATION OF ALL OTHER VENTS OR DRAINS ARE NOT SHOWN AND INSTALLED AN OPEN ENDED PIPE IS DISPLAYED.
  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 DB-07-00008 (FORMERLY AD1839.03) FOR INDICATED LEVEL VS. VOLUME RELATIONSHIP. (REF. FORM 58-0076).

**LR NOTES:**

- A. FOR GENERAL LICENSE RENEWAL NOTES REFER TO LR-M001-01.
- B. COMPONENTS BEYOND THE HIGHLIGHTING ARE IN THE TURBINE BUILDING, AND THEREFORE NOT IN SCOPE.
- C. THIS LINE (1"-HCD-4) IS SYSTEM 13. ALL OTHER HIGHLIGHTING IS SYSTEM 24.

**LICENSE RENEWAL BOUNDARY DRAWING**  
**LR-M021 REV. 1**

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

**DAVIS-BESSE NUCLEAR POWER STATION**  
 THE TOLEDO EDISON COMPANY  
 THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

PIPING & INSTRUMENT DIAGRAM  
**STATION HEATING SYSTEM**

JOB No.	DRAWING No.	REV.
7749	M-021	43

01928