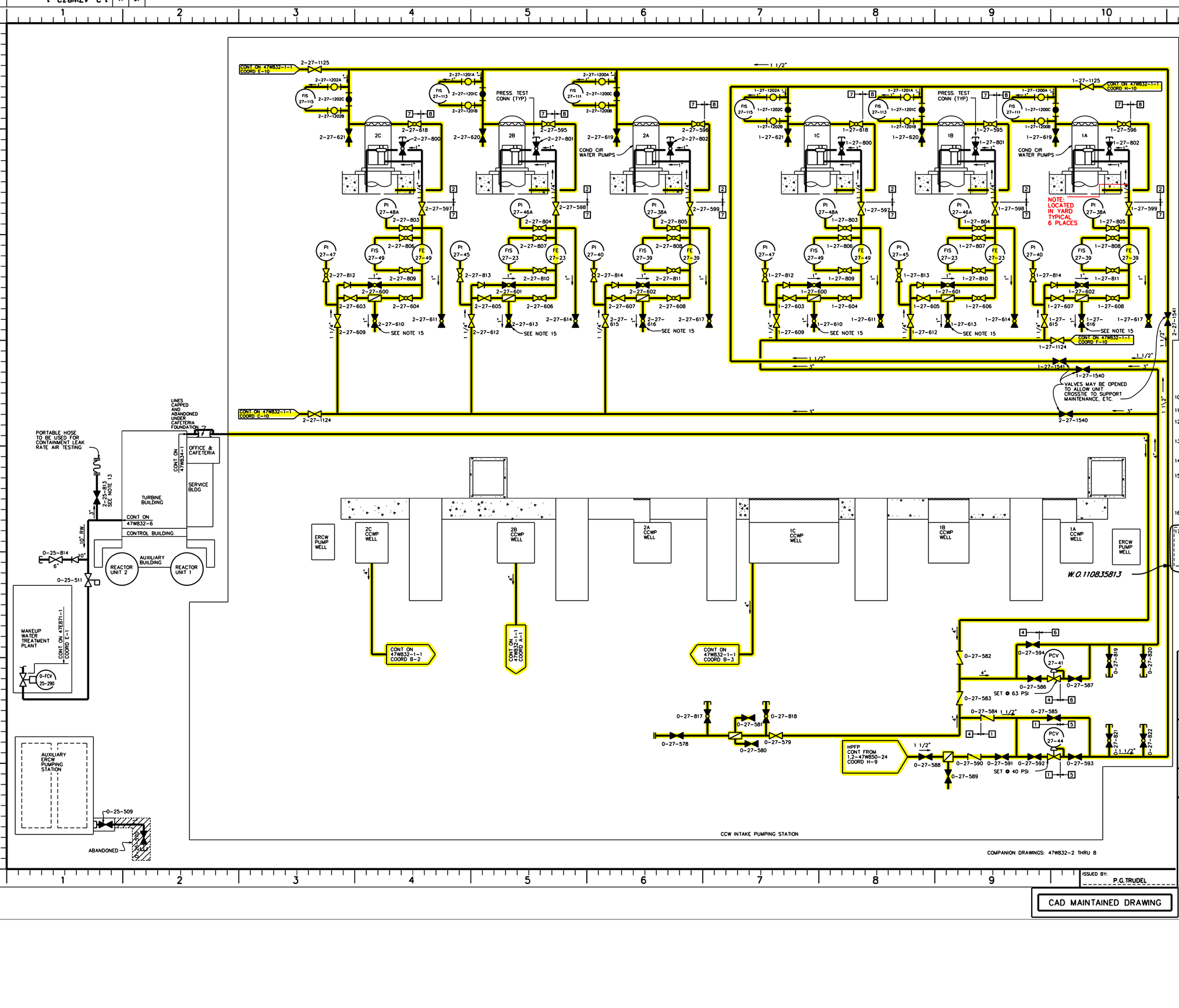
45 | M | 1,2-47W832-1



SYSTEM PRESS-TEMP DATA		
LINE MARK NO.	DESIGN PRESSURE (PSIG)	DESIGN TEMP(°F)
1	135	95°
2	35	95°
3	243	95°
4	100	95°
5	40	95°
6	63	95°
7	150	95°
8	0	95°
9	40	95°
10	110	95°
11	25	95°
12	180	130°
13	80	95°

NOTES:

1. ALL VALVES ARE SAME SIZE AS PIPE UNLESS OTHERWISE NOTED.
2. OPERATIONAL VALVES ARE SHOWN IN THEIR NORMAL OPERATING POSITION.
3. ALL RAW SERVICE WATER VALVES ON A UNIT BASIS SHALL BE PREFIXED WITH THE UNIT NUMBER, I.E., 1-25-1, 1-25-2, 2-25-1.
4. VALVE MARKER TAG NUMBERS SHOWN WITHOUT UNIT PREFIX ARE COMMON TO ALL UNITS AND SHALL HAVE A PREFIX NUMBER 0 AS 0-25-501.
5. ALL RAW SERVICE WATER CONNECTIONS ARE 1" UNLESS OTHERWISE NOTED.
6. 1, 2, ETC., DENOTE DESIGN PRESSURE AND TEMPERATURE AS GIVEN IN TABLE ON THIS DRAWING.
7. HYDROSTATIC TESTING SHALL BE IN ACCORDANCE WITH THE APPLICABLE CODES.
8. THE DESIGN PRESSURE AND TEMPERATURE OF ALL DRAINS AND VENT LINES THROUGH THE LAST ISOLATION VALVE SHALL BE THE SAME AS THE PROCESS LINE.
9. THE INSTALLATION OF FITTINGS (I.E. BLIND FLANGES, THREADED PIPE CAPS, PLUGS, NIPPLES, CHICAGO FITTINGS, ETC.) LOCATED DOWNSTREAM OF THE LAST DRAIN, TEST, VENT OR OTHER MISCELLANEOUS VALVES ARE NOT REQUIRED TO BE SHOWN ON THIS DRAWING SERIES. THE INSTALLATION, REMOVAL OR REPLACEMENT OF THESE FITTINGS WILL NOT HAVE AN ADVERSE IMPACT ON THE SYSTEM'S INTEGRITY AND THEREFORE IS OPTIONAL PROVIDED ONE OF THE FOLLOWING IS ADHERED TO: 1) REPLACEMENT FITTINGS ARE OF SIMILAR WEIGHT (SUCH AS REPLACING PIPE CAPS WITH CHICAGO FITTINGS), 2) THE DOWNSTREAM NIPPLE HAS A MAXIMUM LENGTH OF 6 INCHES AND THE ARRANGEMENT DOES NOT INCLUDE BLIND FLANGES, OR 3) THE MECHANICAL BRANCH VALVE CONNECTION ARRANGEMENT MEETS THE CRITERIA OF THE SEISMIC SUPPORT DRAWING 47B001-SERIES. THREADED TERMINAL FITTINGS ARE RECOMMENDED TO BE INSTALLED TO REDUCE THE POTENTIAL OF RADIATION EXPOSURE OR INJURY TO PERSONNEL, AND TO PROTECT FITTING THREADS FROM POTENTIAL DAMAGE. THIS CRITERIA IS APPLICABLE TO ALL TVA CLASS PIPING EXCEPT THE SECONDARY ISOLATION FITTINGS FOR TVA CLASS A PIPING AND CONTAINMENT ISOLATION BOUNDARY (TVA CLASS B) FITTINGS.
10. REFER TO 47W853 SERIES FOR EQUIPMENT DRAIN CONNECTIONS UNLESS OTHERWISE NOTED.
11. ALL RAW SERVICE WATER PIPING IS CLASS L, UNLESS OTHERWISE NOTED.
12. (H,C) INDICATES TVA PIPE CLASSIFICATION PER GENERAL DESIGN CRITERIA FOR THE CLASSIFICATION OF PIPING, PUMPS, VALVES AND VESSELS, SQN-DC-V-3.0.
13. THESE VALVES ARE ONLY TO BE OPERATED WHEN NEEDED TO PERFORM CONTAINMENT AIR TESTING. VALVES SHALL BE TAGGED CLOSED AT ALL OTHER TIMES.
14. FOR RAW SERVICE WATER IN THE ERCW PUMPING STATION, SEE 1,2-47W850-26.
15. DRAIN LINES CAN BE 1.0" OR 0.75" DIAMETER, ACTUAL SIZE BY FIELD. FURTHERMORE, THE USE OF A GATE OR GLOBE VALVE IN THIS DRAIN LINE IS BY FIELD PROVIDED THAT THE VALVES DESIGN SPECIFICATION ARE COMPATIBLE WITH 1.0" POWELL FIGURE NO. 2714S VALVE AND THAT THE ENGINEERING MECHANICAL BRANCH VALVE CONNECTION SEISMIC SUPPORT DRAWINGS (47B001) CRITERIA IS ADHERED.
16. ESTABLISH FLOW OF 4.0 TO 5.4 GPM TO EACH CCW PUMP MOTOR COOLER WHEN ADJUSTING FLOW USING VALVES VLV-27-595, VLV-27-596 AND VLV-27-618.
17. CCW BEARING LUBE WATER PUMPS PACKING SEAL LUBRICATION FLOW. ESTABLISH PACKING LEAKAGE BLW PUMP PACKING SEAL OF 10 TO 30 DROPS PER MINUTE BY ADJUSTING THE BLW PUMP PACKING WITH NEEDLE VALVE(S) IN MID STROKE POSITION FOLLOWING PACKING MAINTENANCE. WHILE THE CCW PUMP IS IN SERVICE MAINTAIN 10 TO 30 DROPS PER MINUTE OUT OF THE PACKING SEAL BY EITHER ADJUSTING THE PACKING (TIGHTENING ONLY) OR ADJUSTING NEEDLE VALVE(S).

REFERENCE DRAWINGS:

47W800-1 SERIES----FLOW DIAGRAM PRINCIPAL PIPING SYSTEM INDEX
30B617 SERIES------INSTRUMENTATION SYMBOLS AND IDENTIFICATION
47W610 SERIES------CONTROL DIAGRAMS
47W611 SERIES------LOGIC DIAGRAMS
47W850 SERIES------BUILDING FIRE PROTECTION
47W490 SERIES------PIPING DRAWING
47W491 SERIES------PIPING DRAWING
47W492 SERIES------PIPING DRAWING
77W210 SERIES------PIPING DRAWING

COMPONENTS SUBJECT TO AMR

NSR AFFECTNG SSCs AMM29

FLOW DIAGRAM RAW SERVICE WATER COOLING

SEQUOYAH NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	11-14-2012	.	.	.	.	.

REVISIONS

LRA-1,2-47W832-1

CAD FILE
1,2-47W832-1_73.DGN

ISSUED BY: P.G.TRUDEL

CAD MAINTAINED DRAWING

COMPANION DRAWINGS: 47W832-2 THRU 8