12276 R19
12789 R19
16981/R19
18375/R19
30154/121

47W803-2 | 85 | M

DESIGN PRESSURE & TEMPERATURE DATA		
Line No.	Design Pressure (PSIG) Note 10	Design Temperature (°F)
1	50	120
2	250	120
3	1975	120
4	1185	600
5	100	550
6	ATM	250
7	12	154
8	200	165

REFERENCE DRAWINGS & DOCUMENTS:
47W800-1 - FLOW DIAGRAM - PRINCIPAL PIPING SYSTEMS INDEX
30B617 SERIES - INSTRUMENTATION SYMBOLS AND IDENTIFICATION
47W610-3 - CONTROL DIAGRAM - AUX. FEEDWATER SYSTEM
WB-DC-40-18 - DESIGN CRITERIA FOR AUX. FEEDWATER SYSTEM
47B601-3 - INSTRUMENT TABULATION
47W611-3-34 - LOGIC DIAGRAM AUX. FEEDWATER SYSTEM
47B21-1 - PIPING SYSTEMS CLASSIFICATION
47W627 SERIES - AUXILIARY FEEDWATER PIPING
47W815-1 AUX BOILER FLOW DIAGRAM
47N845 - ERCW FLOW DIAGRAM
47N850 - HPFP FLOW DIAGRAM
47W804 - CONDENSATE FLOW DIAGRAM
47N801-1 - MAIN STEAM FLOW DIAGRAM

NOTES:
1. All valves are the same size as the piping unless otherwise noted.
2. All pressure gage valves are 1" globe unless otherwise noted.
3. All valve numbers shall be prefixed with the unit number.
4. All valve by-passes are 1" unless otherwise noted.
5. All piping is TVA class C per TVA dwgs 1B21-1 unless otherwise noted.
6. Valves marked "L.C." are to be locked closed; Those marked "L.O." are to be locked opened.
7. [1] [1] etc, indicates line number corresponding to design pressure & temperature chart on this sheet.
8. For valve marker tag list see Watts Bar Mech. Valve Program RPT-0091 010.
9. Pump base, heatoff and bracket drains not shown are class G.
10. Class B&C piping shall be hydrostatically tested to 1.25 times design pressure. All non-safety related piping shall be tested to 1.50 times design pressure. CONST shall determine if the components of the system are limiting to the hydrostatic test. ASME code cases involving hydrostatic testing may be used if EN DES approves their application.

NOTES CONTINUED ON 47W803-3

FIRST NUMBER USED 300
OPEN NUMBERS 694, 695, 923, 924, 925
LAST NUMBER USED 924
(SEE SHEET 3)

INSTRUMENT ROOT VALVE
FIRST NUMBER USED 308A
OPEN NUMBERS 346A THRU 350A
LAST NUMBER USED 367A
(SEE SHEET 3)

INSTRUMENT ROOT VALVES
FIRST NUMBER USED 496A
OPEN NUMBERS
LAST NUMBER USED 499A

SYSTEM 3-2

RESTORED DRAWING
THIS DRAWING HAS BEEN PHOTOGRAPHICALLY RESTORED AND SUPERSEDES 47W803-2 R26, 47W803-2 R27, 47W803-2 R28
DRAFTSMAN | DRAFTING CHECKER | DRAFTING SUPERVISOR

REV. NO.	DATE	DRAWN	CHKD	SUPV	RESP ENGR	RECH
DSGN		BEM				
DRWN		1/6 Cap/k				
CHKD	K	CA				
TRCD						
CHKD						

REV. NO.	ECN NO.	DATE	DRAWN	DSGN	CHKD	RVWD	APPD	ISSD
26	6659	11-15-85	WG	JLG	MK	JTB	3310	-
25	5753, 5754, 5822	8-2-85	WG	JLG	WEP	AWL	3310	-
24	5660	4-30-85	EFL	JLG	WP	JTB	3310	-
23	5096	8-24-84	DTC	JLG	WP	AWL	3310	-
22	4768	5-14-84	DWC	DWC	TJ	AWL	3310	-

ADDED PRESSURE/TEMP DATA PER ECN 8, REMOVED P/S PER ECN 5754
REVISED VALVE LOCKING REQUIREMENTS
REVISED PER FCR M-10,969 & A-10,250
SHOWED AT VLVS TO FT-1-17 OPEN ON STM. SUPPLY TO A/F P.
REVISED DWG PER EXCP D CHANGE CONTROL & REV PER ECNS

REV. NO.	ECN NO.	DATE	DRAWN	DSGN	CHKD	RVWD	APPD	ISSD
29	6684, 6685	2-14-87	CRW	JFA	MP	DCH	XBC	-
28	DELETE ROOT VALVES PER FCR 86-168 R1 FOR ECN 6251 (all); ADD HEADER IDENT PER ECN 6467; ADDED "G" IN TITLE BLOCK PER EXCP 1*							
27	REV VALVE NOS PER ECN 5 & MOVED FT-3-147A-155A							

REVISED PER FCR 86-168 R1

UNIT 2 | UNIT 1
FSAR
FSAR FIG 10.4-21

D-04

POWERHOUSE
UNITS 1 & 2

FLOW DIAGRAM AUXILIARY FEEDWATER

WATTS BAR NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN
Q

SUBMITTED	RECOMMENDED	APPROVED

KNOXVILLE 5-2-72 | 85 M | 47W803-2 R29

ISSUED EXCEPTION AS CONSTRUCTED
5-3-72

THIS DRAWING IS UNDER FUNCTIONAL CONFIGURATION CONTROL