86654R21
5496AR22

85 M 4 47W801-2

PIPING
FIRST NO. USED
543 800
DELETED NO'S
800 THRU 803
886, 853
LAST NO. USED
559-922

SYSTEM NO. 018
INSTRUMENT
ROOT VALVES
NUMBERS USED
268A THRU 275A
NUMBERS DELETED

SYSTEM NO. 15
INSTRUMENT
ROOT VALVES
NUMBERS USED
308A, 309A
115 THRU 144
100A THRU 118A
NUMBERS DELETED

DESIGN PRESS - TEMP DATA		
NO.	DSGN PRESS (PSIG)	DSGN TEMP (°F)
1	1185	600
2	1185	200
3	1185	150
4	150	250
5	450	250
6	100	250
7	50	250
8	450	150

NOTES
1. UNIT 1 AS SHOWN UNIT TYPICAL EXCEPT AS NOTED.
2. ALL VALVES ARE THE SAME SIZE AS PIPING UNLESS OTHERWISE NOTED.
3. ALL PRESSURE GAGE VALVES ARE 1" GLOBE UNLESS OTHERWISE NOTED
4. ALL VALVE NUMBERS SHALL BE PREFIXED WITH THE UNIT NUMBER, I.E., 1-
5. ALL PIPING TVA CLASSES B,G OR H PER DWG 47B21-1 AS NOTED.
6. (SA) DENOTES SAMPLING CONNECTIONS.
7. [1], ETC. INDICATES DESIGN PRESSURE & TEMP FOR USE IN HYDROSTATIC TESTING OF SYSTEM.
8. CLASS B PIPING SHALL BE HYDROSTATIC TESTED TO 1.1/4 TIMES DESIGN PRESSURE (1481 PSIG). ALL NON SAFETY RELATED PIPING SHALL BE TESTED TO 1.1/2 TIMES DESIGN PRESSURE. CONST. SHALL DETERMINE IF THE COMPONENTS IN THE SYSTEM ARE LIMITING COMPONENTS TO THE HYDROSTATIC TEST. ASME CODE CASES INVOLVING HYDROSTATIC TESTING MAY BE USED IF EN DES APPROVES THIER APPLICATION.
9. FOR SEISMIC CATEGORY OF CLASS G PIPING SEE NOTES A & B ABOVE
10. OPEN ISOLATION VALVES 15-548 AND 15-550 ONLY FOR STEAM GENERATOR DRAINDOWN WHEN UPSTREAM STEAM GENERATOR PRESSURE IS LESS THAN 150 PSIG.
11. FOR TVA CLASS B PIPING ALL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE ON LOCAL DRAINS, VENTS AND TEST CONNECTIONS IS CLASS G.

REFERENCE DWGS:
47B601-15 SERIES INSTRUMENT TABS
47W611-15 SERIES LOGIC DIAGRAM
47W610-15 SERIES CONTROL DIAGRAM
WB-DC-40-35.5 - DESIGN CRITERIA STEAM GENERATOR BLOWDOWN DEMNRLZR
47W600-6, 7&13, 14&15 SYSTEM PIPING DRAWINGS
FOR VALVE MARKER TAG LIST SEE WATTS BAR MECH VALVE PROGRAM
RPT-0099 & 10 47W800-1 FLOW DIAGRAM GENERAL PLANT SYSTEMS
30B617 ___ INSTRUMENTATION SYMBOLS AND IDENTIFICATION.

VGM PIPE SUPPORTED SEISMICALLY BUT PRESSURE BOUNDARY DOES NOT HAVE TO BE MAINTAINED. NOTE B

ALL CLASS G PIPING IS SEISMICALLY SUPPORTED TO MAINTAIN PRESSURE BOUNDARY AND THE HYDROSTATIC TEST IS WITHIN THE QA PROGRAM EXCEPT AS NOTED. NOTE A

ECN # 6750 & 6751

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPD
28	ECN 6750,6751	10-12-88	AKJ	PK							
	REVISED NOTE 5, ADDED NOTE 11 & ADDED CLASS BREAKS PER ECN 6750 & 6751										
27	5795,5796,EXCP A		JLG	PWB	JTC						
	ADDED STEAM GENERATOR BLOWDOWN DEMINERALIZERS & CONTROL VALVE STATION, PER ECN 5795 & 5796. APPD @ EXCP A										
21	4483,4484,SI										
	INCORPORATE OLD FLASH TANK & PUMPS INTO EXISTING SGB SYSTEM, FCRS M-30-126, M-30-220.										

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPD
22	4895										
	REV PER TCR M-30,308, ADDED PUMP & FLASH TK IDENTIFIERS										
20	3376, 3371										
	REV SAMPLING CONT DWG. NO. ADDED 1" VENT, 1-909 THRU 1-912										
19	3371										
	REV LINE SIZE AROUND STEAM GEN 100.5, ADDED VENTS & DRAINS AS REQ'D										
18	3371										
	REVISED PER ECN & TCR										
17	3218										
	ISSUED PER ECN										

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPD
23	4484										
	ADDED MS DR. TO FLASH TK. CORRECTED PUMP B UNID NUMBER										
7	1977										
	ADDED TW-1-100 PER DCR 64 (INT)										
6	1405										
	ADDED FLOW ELEMENT										

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPD
24	3240,3242										
	REV PMP SUCTION LINES FOR PT DEF #625										
3	2812										
	ADDED R&P CASING VENTS & REV SHUBLE CONN.										

POWERHOUSE
UNITS 1 & 2

FLOW DIAGRAM STEAM GENERATOR BLOWDOWN SYSTEM

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

SUBMITTED	RECOMMENDED	APPROVED

KNOXVILLE 10-5-72 | 85 M 4 | 47W801-2 R28

RECORD DRAWING AS CONSTRUCTED

Ro 10-26-72

FSAR FIG 10.4-24 FSAR

THIS DRAWING IS UNDER CONFIGURATION CONTROL

D-02