85 M 47W859-3

10989 R14
15396 R14
15995 R14
21230 R15
34348 R17
34511 R17

1 2 3 4 5 6 7 8 9 10 11 12

A B C D E F G

COMPONENT COOLING HEAT EXCHANGER B SH 1 COOR B-3 [15]

NORMALLY BLIND FLANGED - USE SPOOL SECTION DURING FLOOD ONLY

ERCW SUPPLY 47W895-2 COOR C-1

SAMPLE HEAT EXCHANGERS

SAMPLE CHILLER PACKAGE (SEE 47W625)

NOTE: THIS IS A TEMPORARY CONNECTION TO BE MADE IN CASE OF MAXIMUM FLOOD ONLY.

FIELD CONN. TO ERCW RET HDR B 47W895-2 COOR H-3

BLIND FLANGED

NOTE: THIS IS A TEMPORARY CONNECTION TO BE MADE IN CASE OF MAXIMUM FLOOD ONLY.

FIELD CONN. TO ERCW RET HDR B 47W895-2 COOR H-3

BLIND FLANGED

GAS STRIPPER AND BORIC ACID EVAPORATOR PACKAGE B

EVAP COND ΔP = 40PSI @1240 gpm

VENT COND ΔP = 9 PSI @ 56 gpm

DIST COOLER ΔP = 20 PSI @ 600 gpm

OIL COOLER ΔP= PSI @ 81 gpm

SEAL WATER HEAT EXCHANGER ΔP = 15 PSI @ 200 gpm

NON-REGEN LETDOWN HEAT EXCHANGER ΔP = 12 PSI @ 1000 gpm

2B ΔP = 3 PSI @ 20 gpm

2A ΔP = 3 PSI @ 15 gpm

ΔP=12 PSI @ 16 GPM

RECIPROCATING CHARGING PUMP 2C

COMPONENT COOLING PUMP 2A SUCTION SH 1 COOR F-10 [2]

SEE NOTE 17 SHT 1

SEE NOTE 15

SEE NOTE 18

GFFD CLR A ΔP= PSI @ 14 GPM

GFFD CLR B ΔP= PSI @ 14 GPM

CROSS FAILED FUEL DETECTOR

ERCW TO THERMAL BARRIER BOOSTER PUMPS 2 A & 2B SH 1 COOR G-4 [10]

THERMAL BARRIER BOOSTER PUMPS (160 gpm @ 130 FT HEAD)

EXCESS LETDOWN HEAT EXCHANGER ΔP=115 PSI @ 75 gpm

OUTSIDE CONTAINMENT | INSIDE CONTAINMENT

OUTSIDE CRANE WALL | INSIDE CRANE WALL

TO WASTE

UPPER OIL CLR 1 ΔP = 3 PSI @ 150 gpm
LOWER OIL CLR 1 ΔP=2PSI @ 5 gpm
UPPER OIL CLR 2 ΔP=2PSI @3 gpm
LOWER OIL CLR 2 ΔP=2PSI @3 gpm
UPPER OIL CLR ΔP=3PSI @150 gpm
LOWER OIL CLR ΔP=3PSI @150 gpm

THERMAL BARRIER 3 ΔP=32PSI @ 90 gpm
THERMAL BARRIER 2 ΔP=32PSI @ 90 gpm
THERMAL BARRIER 1 ΔP=32PSI @ 90 gpm
THERMAL BARRIER 4 ΔP=32PSI @ 90 gpm

3106 NTP 2485 PSIG DESIGN PRESS 650°F DESIGN TEMP

188 NTP 150 PSIG DESIGN PRES 200°F DESIGN TEMP

THIS DRAWING IS A DUPLICATE OF SEQUOYAH NUCLEAR PLANT DRAWING 47W859-3 R1 EXCEPT AS NOTED BY ENCIRCLEMENTS ON R0 ISSUE. ELEVATIONS NOT ENCIRCLED ON R0 ISSUE ARE SEQUOYAH ELEVATIONS RAISED BY 23'-0". ENCIRCLED ELEVATIONS ON R0 ISSUE HAVE BEEN OTHERWISE CHANGED TO SATISFY DESIGN REQUIREMENTS.

FSAR FIG. 9.2-17

COMPANION SHEETS 47W859-1,-2 & -4

PRINTS REQD-P__ BR__ PROJ__

DWG SIZE	F	H
ME		
CE		
CE		
AD		
CO		
ED		
MD		
EF		
SW		
BL		
PA		

REV NO	CHANGE REF	DATE	OFTR	CHKR	DSGN	RVWR	APPD 1	APPD 2	APPD 3	ISSD
25	S-11172-A	10/4/90	KEP	BBT	GHE	DAT	GHE	BJG	HJT	
24	REVISED FLOW RATE PER DCA-51172-01 R0 P-02589-A & P-02592-B	7-31-90	KET	ESJ	RSH	JWP	RST	XST	JWP	
23	ADDED NOTE PER DCN P-02589-A; CHANGED VALVE PER DCA P02599-01-D.									
22	ECN 6751	5-29-90		PK						
21	REVISE CLASS BREAKS PER ECN 6751.									
20	6391 REMOVED REF TO CONTINUATION DWGS PER ECN	1-25-89	GG	GG						
19	6591, "A" REV PRESSURE RELIEF VALVES PER ECN ADDED OA STATUS "EXCP A CMG CONT"	1-25-89	JLG	JLG	JWP					
18	6019 DRAWING RESTORATION PER ECN	1-25-89		EEL		VWP				

REV NO	ECN/FCR	DATE	DRWN	DSGN	CHKD	RVWD	APPD	ISSD
DSGN	TA WW							
DRWN	CW/JWW							
CHKD	MSL 223							
SUPV	223							

INSP

ENGINEER

POWERHOUSE
AUXILIARY & REACTOR BLDG UNIT 2

MECHANICAL
FLOW DIAGRAM
COMPONENT COOLING SYSTEM

WATTS BAR NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

SUBMITTED	RECOMMENDED	APPROVED

KNOXVILLE | 2-15-73 | 85 M | 47W859-3 R25

RECORD DRAWING AS CONSTRUCTED

THIS DRAWING IS UNDER CONFIGURATION CONTROL

D-27