TI APERTURE CARD

NOTE:
1. WHERE A MATERIAL CHANGE OCCURS AT A REDUCER, (i.e. CS TO SS) THE REDUCER WILL BE SS.
2. THIS EQUIPMENT IS BEING REEVALUATED FOR LOWER FLOW.

SEE NOTE 13 SHT 1 AND NOTE 19 ON SHT 5.

ECN 5317

ECN 5318

ECN 5310

ECN 5317

REV	DESCRIPTION
17	REVISED DIAGRAM AROUND 1-67-COMPONENT 5-A PER FCR M-20018 FOR ECN 5638. REV. DIAGRAM AROUND 1 & 2-FCV-67-188 PER FCR M-7764 PER ECN 5318 CHANGED TO 8-216-67-3777 COORD B-8 PER FCR 5318
16	REVISED DIAGRAM AROUND 2-67-6068 (RECORD A-8) PER FCR M-20,672, BOTH FOR ECN 4646, REFERRED TO DETAILS A-5 & B-5 PER FCR A-755 & CHANGED CI/SS INTERFACE AT PENETRATION AM CLASS BA3 2.88 PER FCR A-20,078 BOTH FOR ECN 4647
15	ADDED REV SYMBOLS TO TCV 67-195 & 199 PER FCR 6884R1; ADDED DR & VTTO EQT RCW COOLERS PER FCR 6824R2; REMOVED 6"x3" RED. PER FCR M-7218; RELOCATED TWO DRAWING # PLUS VLVS PER M-6816-R4, R5 AND AS SUPERSEDED.
14	REVISED PIPE MTL. PER ECN 5319
13	REV MATERIAL PER ECN 5
12	REV PIPE SIZE AND CHANGE CS TO SS, REV MAT PER FCR M-6174
11	REV CLASS BOUNDARIES
10	ADDED HYDROSTATIC TEST PRESSURE BOUNDARIES
9	REDEFINED FOR CLASS BOUNDARIES
8	UPDATED EQUIPMENT FLOW DATA, REV AUX. CONT. AIR CPRSR PIPING
7	REVISED TVA CLASS BOUNDARIES PER FCR M-3176 & REV PER ECN 1984
6	REVISED TO AGREE WITH UNIFILAR DRAWING PER NOTE CONFLICT
5	ADDED 4"x3" REDUCER AT 1-67-6068 PER ECN 5317 AND SEE TO REFERENCE NOTE 22.
4	REVISED 6"x4" REDUCER AT 1-67-6068 TO 6"x3" PER ECN 4766. ADDED 4" SEGMENT OF PIPE PER FCR SM-0529 & ECN 4818.
3	REVISED 6"x4" REDUCER AT 1-67-6068 TO 6"x3" PER ECN 4766. ADDED 4" SEGMENT OF PIPE PER FCR SM-0529 & ECN 4818.
2	REVISED 6"x4" REDUCER AT 1-67-6068 TO 6"x3" PER ECN 4766. ADDED 4" SEGMENT OF PIPE PER FCR SM-0529 & ECN 4818.
1	REVISED 6"x4" REDUCER AT 1-67-6068 TO 6"x3" PER ECN 4766. ADDED 4" SEGMENT OF PIPE PER FCR SM-0529 & ECN 4818.

DSGN T.A. WILLIAMS / A.R. WELLS
DRWN J.R. MILLS
CHKD C.E. SANDERS
SUPV C.E. SANDERS

DESIGN M.G. SMITH
ENGINEER J.D. WOOTEN

POWERHOUSE
AUXILIARY & CONTROL BLDG UNITS 1 & 2

MECHANICAL
FLOW DIAGRAM - ESSENTIAL
RAW COOLING WATER

WATTS BAR NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED | RECOMMENDED | APPROVED

KNOXVILLE 11-6-72 | 45 M 47W845-4 R9

RECORD DRAWING AS CONSTRUCTED

CONTROL BLDG AUXILIARY BLDG.

ELECT BD RM A/C COND SH 2 COORD F-6

TURBINE AUX EQUIPMENT A/C CONDENSER FOR 1A STEAM COORD G-4

STATION AUX EQUIPMENT A/C CONDENSER FOR 1B STEAM COORD G-6

CORROSION TEST SECTION

ELECTRIC BD RM A/C CONDENSER (EL 690.0') ΔP = 10' ◦ 440GPM SEE NOTE 2

PIPE CHASE COOLER (EL 690.0') ΔP = 15' ◦ 15GPM

CENTRIFUGAL CHARGING PUMP ROOM COOLER (EL 692.0') ΔP = 10' ◦ 25 GPM

EMERGENCY GAS TREATMENT ROOM COOLER (EL 757.0') ΔP = 10' ◦ 10 GPM

AUX CONTROL AIR COMPRESSOR (EL 737.0') ΔP = 2PSI ◦ 3.5GPM

SPENT FUEL PIT PUMP & BOOSTER PUMP SPACE CLR (EL 737.0') ΔP = 15' ◦ 25GPM

SPENT FUEL PIT PUMP & BOOSTER PUMP SPACE COOLER (EL 719.0') ΔP = 15' ◦ 112GPM

BA TRANSFER PUMP & AUX FW PUMP SPACE CLR (EL 713.0') ΔP = 10' ◦ 60GPM

BA TRANSFER PUMP & AUX FW PUMP SPACE COOLER (EL 713.0') ΔP = 10' ◦ 60 GPM

CENT CHG PUMP RM CLR (EL 692.0') ΔP = 10' ◦ 25 GPM

RECIP CHG PUMP ROOM COOLER (EL 692.0') ΔP = 15' ◦ 12 GPM

SIS PUMP RM COOLER (EL 692.0') ΔP = 10' ◦ 22GPM

CS PUMP RM COOLER (EL 676.0') ΔP = 10' ◦ 33GPM

RHR PUMP RM COOLER (EL 676.0') ΔP = 10' ◦ 19 GPM

PENET RM CLR (EL 692.0') ΔP = 10' ◦ 12 GPM

PENET RM CLR (EL 713.0') ΔP = 15' ◦ 11 GPM

PENET RM CLR (EL 737.0') ΔP = 10' ◦ 12 GPM

PENET RM CLR (EL 737.0') ΔP = 10' ◦ 12 GPM

PIPE CHASE COOLER (EL 692.0') ΔP = 15' ◦ 15 GPM

RECIPROCATING CHARGING PUMP ROOM COOLER (EL 692.0') ΔP = 15' ◦ 12 GPM

CS PUMP RM COOLER (EL 676.0') ΔP = 10' ◦ 33GPM

RHR PUMP ROOM COOLER (EL 676.0') ΔP = 10' ◦ 19 GPM

PENET RM CLR (EL 692.0') ΔP = 10' ◦ 12 GPM

PENET RM CLR (EL 713.0') ΔP = 15' ◦ 11 GPM

PENET RM CLR (EL 737.0') ΔP = 10' ◦ 12 GPM

PIPE CHASE COOLER (EL 692.0') ΔP = 15' ◦ 15 GPM

ELECT BD RM A/C CONDENSER (EL 690.0') ΔP = 10' ◦ 440GPM SEE NOTE 2

CONTAINMENT BUILDING

AUXILIARY BUILDING

CONTROL BLDG