POOR ORIGINAL

PRC APERTURE CARD
Docket # 50-438
Control # 8304050036
Date 3-25-83 of Document
REGULATORY DOCKET FILE

REFERENCE DRAWINGS

DWG NO.	TITLE
2GM0720-RP-1	PLANT AC AUXILARY POWER SYSTEM SINGLE LINE
2KW279-1	6.9 KV SWGR 2ET2-B SINGLE LINE
2KW2733-EI-1	480V MCC 2EI-B SINGLE LINE
2KW2733-EI-2	INTERLOCK FUNCTION DIAGRAM
9KW797-RP	480V MCC COMPT TYPICAL SCHEMATIC
9KW2797-EI-3	480V MCC CLASS 1E DISTR SYS SCHEMATIC

NOTES:

1. TVA FIELD TO SET MAIN FOR 880 AMPERE TAP AT 800A. SET LONG TIME PICKUP AT X1 AMPERE TAP AND MAY DELAY. SET SHORT TIME PICKUP AT X10 AMPERE TAP AND MIN DELAY. SET GROUND PICKUP AT X1 AMPERE TAP AND MIN DELAY.
2. [illegible] PROVIDED IN CONTR NO 76K5-86282
3. [illegible] OF ACE ASSEMBLIES WITH THE [illegible] SUPPLY CKT BKRS IS PART OF THE 6.9 KV CLASS 1E AC AUX POWER DISTR SYS WITH UNIT AND STA. DE STARTUP. EACH THE DEVICE [illegible] IS ASSIGNED BY PREFIXING THE DESIGNATIONS SHOWN IN THE [illegible] WITH THE DESIGNATIONS SHOWN IN THE 2WI WITH THE UNIT AND STA. DESIGNATIONS SHOWN IN [illegible] ASSIGNED. ALL EQUIPMENTS WITH THEIR ASSOCIATED WIRING ARE IN THE SWGR WHICH THEY SERVE. THE UNIT AND STA. DESIGNATIONS SHOWN IN THE 2WI WITH THE UNIT AND STA. DESIGNATIONS SHOWN IN [illegible] ARE ASSIGNED. [illegible] CONTACT SYMBOLS UNDESIGNATED ARE SHOWN AS CLOSED WITH THE COMPARTMENT IN TEST/DISCONNECTED POSITION.
4. A.C. WELDED CASE CIRCUIT BREAKERS ARE 3-POLE, 600 V WITH INTERRUPTING RATING OF NOT LESS THAN 42,500 SYMETRICAL AMPS AT 508 V. ALL CIRCUIT BREAKERS ARE [illegible] CIRCUIT BREAKERS SHOWN WITH INSTANT TRIP THE INSTANT TRIP SETTING SHALL [illegible] THE HIGHEST VOLTAGE OF THE [illegible]
5. ALL MOTOR LOADS WITH STA TORS WILL UTILIZE CIRCUIT BREAKERS WITH ADJUSTABLE MAGNETIC TRIP SETTING. ALL THESE CIRCUIT BREAKERS HAVE THERMAL MAGNETIC TRIPS.
6. TVA FIELD TO SET BUS TIE BKR AMPERE TAP AT 800A. SET LONG TIME PICKUP AT X3 AMPERE TAP AND INTMD DELAY. SET INSTANTANEOUS PICKUP AT X5 AMPERE TAP.
7. [illegible] SINGLE CONTROL CENT CONTROL TRANSFORMERS ARE 12,470-120V, WITH GROUNDED SECONDARY. CONTROL FUSES ARE 15 AMPS EXCEPT WHERE NOTED. ALL REMS ARE 120VA EXCEPT WHERE NOTED.
8. A 120V PILOT INDICATING LIGHT TO BE PROVIDED IN COMPARTMENTS SHOWN AND PARALLELED WITH THE STARTER COIL.
9. GROUND FAULT PROTECTION (50GS) FOR INDIVIDUAL LOADS SHOWN SHALL BE SET [illegible] PICKUP AT APPROXIMATELY [illegible] AMPS PRIMARY CURRENT WITH [illegible] INTENTIONAL TIME DELAY.
10. THIS MCC IS SUBJECT TO ALL REQUIREMENTS FOR CLASS 1E ELECTRICAL EQUIPMENT.

SYMBOLS:

- INDICATING LIGHT, R=RED; A=AMBER
- AUX RELAY & DESPIKING NETWORK IS USED FOR INTERFACE WITH 55GS. RELAY COIL IS 125 V DC, RESISTOR IS 2K, 25W. DIODE IS RATED 75MA; 3000V PEAK INVERSE VOLTAGE.
- INTERFACE WITH STATUS ENVIRONMENTAL ALARM MONITORING SYSTEM (SEAMS).
- (xxx) UNIT AND SYSTEM DESIGNATION
- INTERFACE WITH REMOTE CONTROL SYSTEM
- [n] MOTOR OPERATED DAMPER
- ANN THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYS
- [M] ELEC OPERATED VALVE

REV NO.	ECN NO.	DATE	DSN	DRWN	CHKD	SUPV	ENGR	UNSP	RECD	APPR
8	ECN 927 - ADDED HEAT TRACE PNLS.									
7	ECN 513 - MADE VARIOUS MINOR CHANGES PER DCN 2 - ADDED CONT FUSES & BLOWN FUSE DETECTION TO XFMR									
6	ECN 739 - ADDED TIE BKR TRIP DEVICE, ADDED TRIP SETTINGS TO BKR TRIP DEVICE ECN 51 - DEL & SYMBOL, VARIOUS MINOR CHANGES. ECN 739 EXCHANGE COMPTS									
5	ECN 572 - REVISED STRAINER BACKWASH & FLUSHING VALVE CONTROL CIRCUITS									
4	ECN 372 - REVISED 'XE' STRAINER BACKWASH & FLUSHING VALVE CIRCUITS. ECN 51 - MINOR REVISIONS									
3	ECN 1442 - ADDED RSW PUMP & STRAINER FROM 1E TO NON-1E SIDE OF BUS. ECN 518 - CHANGED CONTROL FUSE RATING. ECN 51 - VARIOUS MINOR CHANGES.									
2	ECN 1443 - ADDED FUSES & BLOWN FUSE DETECTION TO XFMR ECN 223 - ADDED BACK MAIN & FLUSHING VALVES ECN 51 - ADDED PNL-B FOR DISCH MOV & SPARE COMPTS ECN MINOR CHANGES PER MARK-UPS.									
1	ECN 104 - DELETED ERCW STR RM UNIT HTRS. ECN-95 ADDED '6' RELAYS. ECN-51 ADDED UNID NO'S & OTHER MINOR CHANGES. ECN-134 ADDED LOADS.									

DSN S. BRIDGES
DRWN W. PERRY
CHKD J. BLANKENSHIP
SUPV
INSP
ENGINEER

INTAKE PUMPING STATION
UNIT 2
SINGLE LINE
480 V MCC 2E3-B
2EI - EMCC - 68-B

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

SUBMITTED	RECOMMENDED	APPROVED
Robert E. Hewitt	R. H. Hendon	[illegible]

KNOXVILLE | 12-20-79 | 88 | E | 9KW2733-EI-1 R8

RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE
DESIGN PROJECT MANAGER

PRINTS REQD
BEF | PROJ | DWG SIZE
WE | E
TE | E
CH | E
MD | E
WB | E
BR | E
PA | E
PA-1 | E

PNL LAYOUT FOR MCC 2E3-B
EL 407

	A	B1	C1(L)	C1(R)	D1	E1	F1(L)	F1(R)	G1	H1	J	K1	L1(L)	L1(R)	M1
	600A 10A BKR	1-2 SPEED	BKR SP	BKR SP	FUTURE	1-FVNR SPARE	BKR SP	BKR SP	1-FVR SPARE	BOARD RELAYS & FUSES	BUS TIE BKR	1-FVNR	BKR	BKR	GSR, AUX RLY & FUSES
			C2	D2	C2	E2	F2	G2	G2	H2		K2	L2		
		B3	1-FVNR SPARE	2-FVNR	1-FVNR	1-FVNR SPARE	1-FVNR SPARE	1-FVR SPARE	1-FVR SPARE	120V AC SUPPLY PANEL		120V AC SUPPLY PANEL	1-FVNR		
		1-2 SPEED	C3	D3	E3	F3	G3	FUTURE				K3	L3	M3(L)	M3(R)
			1-FVNR SPARE	1-FVNR	1-FVNR	1-FVNR	FUTURE					FUSES	1-FVNR	BKR SP	BKR SP
		C4	D4	E4	F4	G4						K4	L4	M4	
		1-FVNR SPARE	2-SPEED SPARE	FUTURE	1-FVNR	FUTURE				H4		FUSES	1-FVNR	4-FVNR GSR & AUX RLY	
		B5	C5				F5	G5		DISC SW XFMR & FUSES		K5	L5		
		FUTURE	1-FVNR SPARE				FUTURE	FUTURE				DISC SW XFMR & FUSES	1-FVNR		
		B6	C6	D6		E6	F6	G6(L)	G6(R)				L6(L)	L6(R)	M6
		2-FVNR SPARE	FUTURE	FUTURE		FUTURE	FUTURE	BKR SP	BKR SP				BKR	BKR	FUTURE

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