Docket #50-438/439
Control #8301280074
Date 1/16/83 of Document
REGULATORY DOCKET FILE

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

A B C D E F G

FROM 13.8 KV SWGR 1RB 1EA-EWS-02
(2AW1720-EA-0)

ELA-23
EBB-23
EFU3-23
1X184, ET-23
3,000 480V, 3Ø
225 KVA AA/100°C RISE
8.0 IMPEDANCE
480V SWITCHGEAR 1X84, IED-ELVS-23 (SEE NOTE 1)
(ELEV 669 COL U,A1)
TEMP>175°C ALARM
CABLE
FROM 125 V DC CLASS 1E PWR DISTR PNL 1EU-EDP-51B-E (BBW0828-EU-E)

480V MCC 1B5 (SEE NOTE 1) (ELEV 649 COL U,A1)

ANN
52NA-54F
ERLY-54BD
CL 3A
EIL-54FA,-54FB
EFU2-54FA,-54FB
1200A CKT BKR NON-AUTOMATIC 52NA-54F
SHUNT TRIP EFU2-54BD 5A
EFU2-54BA 3A
1200A BUS
SPLIT BUS
125 V DC CONT BELOW
600A BUS
120VAC
EFU2-54A 10A
52-54A
600A FRAME
300A LS
52TC-54A
EFU2-238A
480-120V 1 Ø 4TAR
TO ECPT-238 FUT TRANS COOLING FANS
EFU1-238B
AGASTAT TDDE 5-5 SEC
ANN
SPARE

A1	600A BUS	B1	C1	D1	600A BUS	D4	E1	
ECAS-060	ECAS-061	ECAS-062	ECAS-063	ECAS-064	ECAS-065	ECAS-066		
125A EFU3-060A 250A SEE NOTE 3	125A EFU3-061A 250A SEE NOTE 3	125A EFU3-062A 250A SEE NOTE 3	125A EFU3-063A 250A SEE NOTE 3	125A EFU3-064A 250A SEE NOTE 3	125A EFU3-065A 250 A SEE NOTE 3	125A EFU3-066A 250 A SEE NOTE 3		
3 of 5 A	3 of 5 A	3 of 5 A	3 of 5 A	3 of 5 A	3 of 5 A	3 of 5 A		
EFU1-060B 135A	EFU1-061B 135A	EFU1-062B 135A	EFU1-063B 135A	EFU1-064B 135A	EFU1-065B 135A	EFU1-066B 135A		
ERLY-54BA	ERLY-54BA	ERLY-54BA	ERLY-54BC	ERLY-54BC	ERLY-54BC	ERLY-54BC		
72 KW	72 KW	72 KW	72 KW	72 KW	72 KW	72 KW		
INC-EHTR-060	INC-EHTR-061	INC-EHTR-062	INC-EHTR-063	INC-EHTR-064	INC-EHTR-065	INC-EHTR-066		

SEE NOTE 6, TYPICAL

PRESSURIZER HEATER GROUP NO. 6, INC-HHTR-062

INC

480V MCC 1B5 (SEE NOTE 1) (ELEV 649, COL U, A1)

125V DC CONTINUED FROM ABOVE

E4	F1	F4	G4
ECAS-046	ECAS-047	ECAS-048	ECAS-
125A EFU3-046A 250A SEE NOTE 3	125A EFU3-047A 250A SEE NOTE 3	125A EFU3-048A 250A SEE NOTE 3	125A EFU3- 250A SEE NOTE 3
3 of 5 A	3 of 5 A	3 of 5 A	3 of 5 A
EFU1-046B 135A	EFU1-047B 135A	EFU1-048B 135A	EFU1- 135A
ERLY-54BB	ERLY-54BB	ERLY-54BB	
72 KW	72 KW	72 KW	SPARE
INC-EHTR-046	INC-EHTR-047	INC-EHTR-048	

PRESSURIZER HEATER GROUP NO. 5, INC-HHTR-038

INV

480V SWGR 1X84 FRONT VIEW
REGN. NO. 85528

DISC SWITCH	TRANSITION COMPT	T1B4 1FMR	A	AUX PNL	B1	1BST PNL	
					B2	MAIN BKR	
					B3	SPARE	
					B4	TIE TO 480V MCC 1B5	

ELEV 669, COL U, A1

A1	B1	C1	D1	E1	F1	G1 FUT
4-FVNR	4-FVNR	MAIN BKR	4-FVNR	4-FVNR	4-FVNR	G2 FUT
A6	B6		D6	E6	F6	G3 FUT
4-FVNR	4-FVNR		4 FVNR	4 FVNR	4-FVNR	G4 4 FVNR SPARE

ELEV 649, COL U, A1

480V MCC 1B5 FRONT VIEW

PRC APERTURE CARD

REFERENCE DRAWINGS

DWG NO.	TITLE
2GWOF20-RP-1	PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE
1GW1740-ED	480V SWGR 1X84 SYSTEM SCHEMATIC
2GWOB00-**	CONTROL & LOGIC DRAWINGS

NOTES:
** SYSTEM DESIGNATION
1. 480 V MCC PROVIDED ON CONTRACT NO. 76KS-86242
480V SWGR PROVIDED ON CONTRACT NO. 7643-85525
2. ALL MOLDED CASE CIRCUIT BREAKERS ARE 3-POLE, 600V, THERMAL-MAGNETIC, AND HAVE AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. ALL MCC BREAKERS ARE 600 A FRAME WITH SHUNT TRIP EXCEPT AS NOTED. THE SHUNT TRIP COIL IS CAPABLE OF OPERATING AT 55% OF RATED VOLTAGE. 30008 FRAME BKRS HAVE 30,000A RMS SYM INTERRUPTING RATING AT 480V. 16008 FRAME BKRS HAVE 50,000A RMS SYM INTERRUPTING RATING AT 480V.
3. FUSES IN THE PWR CIRCUITS ARE CHASE SHAWMUT AMP TRAP CLASS J (FUSES ARE REQD TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAIN PENETRATIONS, NOT FOR CIRCUIT BREAKER PROTECTION.)
4. ALL CONTACTORS ARE PROVIDED WITH 3 ELEC SEPARATE AUXILIARY CONTACTS.
5. ALL CONTROL TRANSFORMERS ARE 10 480-120V WITH GROUNDED SECONDARY. FUSES SHALL BE SIZED TO PROTECT TRANSFORMERS.
6. A 120V RED IND LIGHT IS CONNECTED IN PARALLEL WITH EACH STARTER COIL.
7. EACH DEVICE ASSOCIATED WITH THE SWGR BUS, TRANSFORMER, AND THE NOR, TIE CKT BKRS, IS PART OF THE 480 V NORMAL AC AUX PWR DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION, ED. THE DEVICE UNID IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH IED, EXCEPT AS NOTED. ALL OTHER BKRS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYS WHICH THEY SUPPLY. THE UNID IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEXAGON SYMBOL, EXCEPT AS NOTED. THE SWGR COMPARTMENT NO. UNID DESIGNATIONS ARE FORMED AS FOLLOWS USING THE COMPARTMENT NO. IXX AND THE BOARD NO. YYY IED-ELVS-YYXX
8. MCC 1B5 IS CLASS 1E, SWGR 1X84 IS NON-CLASS 1E LOCATED IN A CATEGORY I STRUCTURE
9. RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING OR TVA APPROVED EQUIVALENT (SEE NOTE 8)

SYMBOLS:
- INTERFACE FOR REMOTE CONTROL
- SOLID STATE TRIP DEVICE WITH SENSOR RATING (xxx LSIG): L - LONG TIME DELAY (OVERLOAD); S - SHORT TIME DELAY (SELECTIVE TRIP); I - INSTANTANEOUS (FAULT CURRENT); G - GROUND (FAULT CURRENT)
- PRIMARY CONTAINMENT PENETRATION
- INDICATING LIGHT, R = RED, A = AMBER
- INTERFACE FOR STATUS, ENVIRONMENTAL, AND ALARM ANNUNCIATING SYSTEM (SEAMS)
- xxx UNIT AND SYSTEM DESIGNATION (SEE NOTE 7)
- ANN. - THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS

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