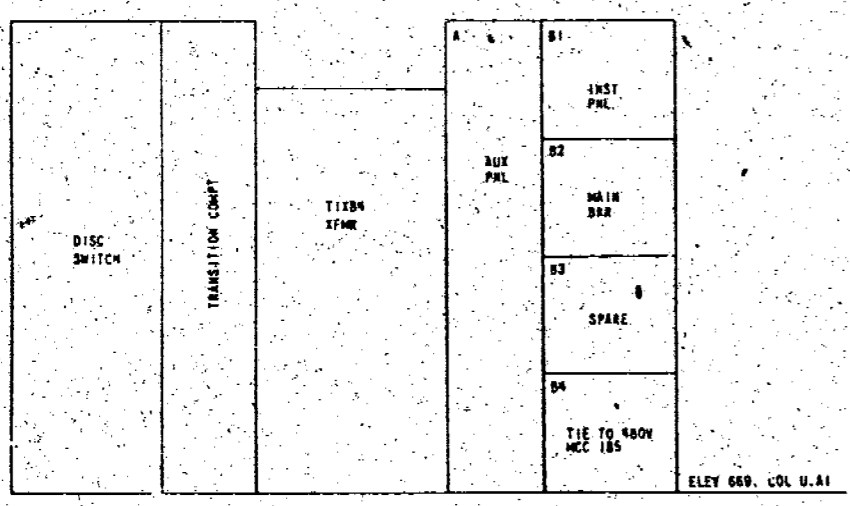


REFERENCE DRAWINGS	
DWG NO.	TITLE
26W020-1B-1	PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE
26W130-ED	480V SWGR 1XB4 SYSTEM SCHEMATIC
26W0900-8	CONTROL & LOGIC DRAWINGS

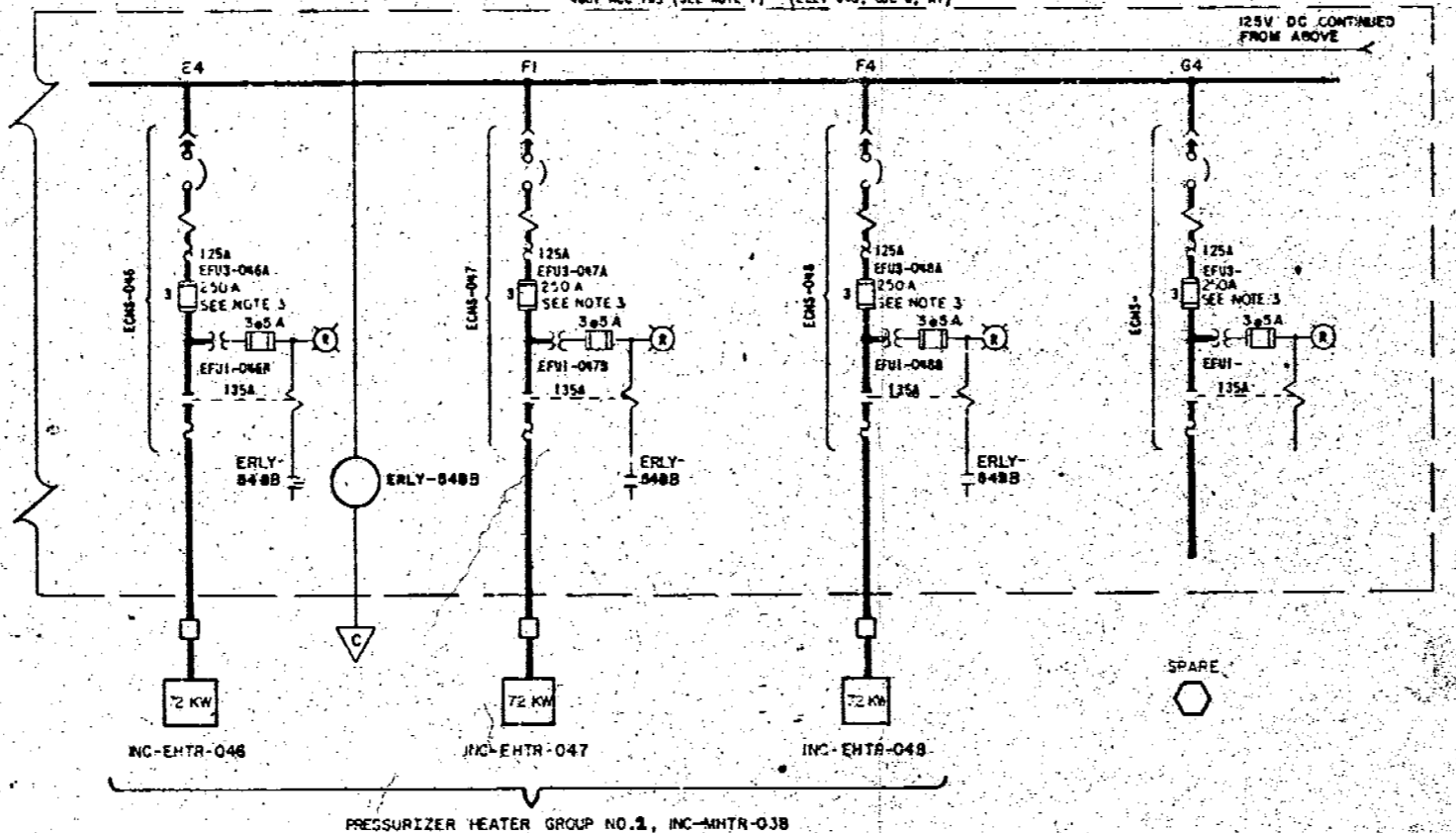
- NOTES:
1. 480V MCC PROVIDED ON CONTRACT NO. 76K5-84242
 2. ALL MOLDED CASE CIRCUIT BREAKERS ARE 3-POLE, 500V, (THERMAL-MAGNETIC AND MAKE AN INTERLOCKING ARRANGEMENT TO PREVENT OPENING OF TWO POLES SIMULTANEOUSLY AT 480V. ALL MCC BREAKERS ARE 400A FRAME WITH SHUNT TRIP EXCEPT AS NOTED. THE SHUNT TRIP COIL IS CAPABLE OF OPERATING AT 50% OF RATED VOLTAGE. 500V FRAME BREAKERS ARE 400A FRAME WITH INTERRUPTING RATING AT 480V. 1400A FRAME BREAKERS ARE 50,000 AMP 480V INTERRUPTING RATING AT 480V.
 3. FUSES IN THE MAIN CIRCUITS ARE CHASE SHANNETT AMP TRAP CLASS J FUSES AND ARE TO PROVIDE FEEDBACK PROTECTION FOR ABNORMAL CURRENTS AT PENETRATIONS, NOT FOR CIRCUIT BREAKER PROTECTION.
 4. ALL CONTACTORS ARE PROVIDED WITH 3 SEPARATE AUXILIARY CONTACTS.
 5. ALL CONTROL TRANSFORMERS ARE 10 500-120V WITH SHUNDED SECONDARY. FUSES SHALL BE SIZED TO PROTECT THE SECONDARY WINDING.
 6. A 120V RED 100 LIGHT IS CONNECTED IN PARALLEL WITH EACH STARTER COIL.
 7. EACH DEVICE ASSOCIATED WITH THE SWGR BUS TRANSFORMER AND THE MCC, THE CRY BUS, IS PART OF THE 480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATIONS. THE DEVICE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE CRY WITH IED, EXCEPT AS NOTED. ALL OTHER BUS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYS WHICH THEY SUPPLY. THE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE CRY WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEXAGON SYMBOL, EXCEPT AS NOTED. THE CRY COMPARTMENT AND DESIGNATIONS ARE FORMED AS FOLLOWS USING THE COMPARTMENT NUMBER AND THE BOARD NUMBER IED-ELVS-23.
 8. MCC 1B5 IS CLASS 1E SWGR 1XB4 IS NON-CLASS 1E LOCATED IN A CATEGORY 1 STRUCTURE.
 9. RELAYS SHALL BE THE TYPES SHOWN OR THIS DRAWING OR TYP APPROVED EQUIVALENT. (SEE NOTE 1)

- SYMBOLS:
- ▽ INTERFACE FOR REMOTE CONTROL
 - SOLID STATE TRIP DEVICE WITH SENSOR RATING
 - 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 STATOR, ENVIRONMENTAL, AND ALARM MONITORING SYSTEM (SEAS)
 - UNIT AND SYSTEM DESIGNATION (SEE NOTE 1)
- THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS

P.R.C. APERTURE CARD



480V SWGR 1XB4 FRONT VIEW
REQN. NO. 85528



480V MCC 1B5 FRONT VIEW

A1	B1	C1	D1	E1	F1	G1
4-FVNR	4-FVNR		4-FVNR	4-FVNR	4-FVNR	FUT
		MAIN BKR				FUT
4-FVNR	4-FVNR		4-FVNR	4-FVNR	4-FVNR	4-FVNR SPARE

REV	NO.	DATE	DESCRIPTION
1	1	12-6-78	REVISED CRY LAYOUT; REMOVED HOLD ON MCC.
2	1	1-8-79	REMOVED GROUND FAULT LIMITING NETWORK & REVISED GROUND FAULT PROTECTION SYSTEM.
3	1	2-7-79	REPLACED 3 AMP FUSES WITH 6 AMP MINOR CHANGES.
4	1	3-4-79	REVISION PER ECR 245-VARIOUS MOD BUS UNDERVOLTAGE RELAY PER ECR 245. ADD HIGH VOLTAGE LIMITING FUSES PER ECR 239.

AUXILIARY BUILDING UNIT 1

SINGLE LINE
480V PRESSURIZER HTR B06-1XB4 & 1B5
IED-ELVS-23 & IED-EMCC-54

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

APPROVED: *[Signature]*
KNOWLEDGE: *[Signature]*

88 E 3AW1731-EO-1

Document # 58-438
Control # 8304050536
Date 3-25-83 of Document
REGULATORY DOCKET FILE