



- NOTES:
1. 120VAC INSTRUMENT POWER DISTRIBUTION SYSTEM IS A SINGLE PHASE, 60HZ, TWO WIRE, SINGLE POINT-GROUNDED SYSTEM.
 2. 120VAC INSTRUMENT POWER DISTRIBUTION PANELS ARE PROVIDED ON THE CONTROLS BUILDING.
 3. ALL AUTOMATIC CIRCUIT BREAKERS ARE PROVIDED TRIP ALARMS WHICH SHALL BE INDICATED BY A TRIP ALARM SIGNAL TO THE INSTRUMENT UNIT CONTROL ROOM.
 4. INSTRUMENT POWER IS PROVIDED TO THE INSTRUMENT UNIT CONTROL ROOM BY A 120VAC INSTRUMENT POWER DISTRIBUTION SYSTEM.
 5. THE INSTRUMENT POWER DISTRIBUTION SYSTEM SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF 100 AMP AND 500 AMP AT 120VAC, WETTINGHOUSE TYPE PHS-100 AMP FRAME AUTOMATIC MOVED CASE CIRCUIT BREAKERS HAVE INTERRUPTING CAPACITY OF 10,000 AMP 575 VOLTS AT 120VAC, WETTINGHOUSE TYPE PHS-100.
 6. TIME-DELAY RELAY-120VAC COIL, TIMING RANGE OF 1.5-15 SECONDS, DELAY ON "OFF" CONTACTS, COMPLETE WITH "OFF" ENCLOSURE, ADJUSTED TO 2 SECONDS TERMINAL BLOCKS, SECTIONAL, 600V, 400V, STRAP SEARCH TERMINAL, DOWNTAIL BASE MOUNTED CHANNEL, RICHMOND, VA, NO. 8721.
 7. ANNUNCIATOR AND INSTRUMENT WIRING - 1/8" DIA. SINGLE CRYSTAL, COV. TEFLOM COATED.
 8. INSTRUMENT PUSES ARE BUSBAR TYPE, ETC.
 9. CONTACTS SHOWS FOR UNIT 1; UNIT 2 IS SIMILAR, EXCEPT AS NOTED, OR SHOWN IN PARENT DRAWING.
 10. BUFFER RELAY 1E2-EP-41B1 IS WETTINGHOUSE TYPE 400 CATALOGUE NO. 40000A, POLE, 2 NO AND 2 NC CONTACTS, 120VAC COIL, CONTACT RATING 1.7 AMP AT 125VDC.
 11. WIRING BETWEEN BUS BARS AND INSTRUMENT PUSES IS AS SHORT AS PHYSICALLY POSSIBLE, NON-TWISTED, AND SEPARATED FROM OTHER WIRING AND GROUND.
 12. FOR THE INSTRUMENT POWER DISTRIBUTION SYSTEM CIRCUIT BREAKERS HAVE MECHANICAL INTERLOCKING BETWEEN THE BREAKERS, WETTINGHOUSE TYPE FB WITH SYSTEM BUS INTERLOCK, IMPORTANT MECHANICAL INTERLOCK TRANSFER ACTION MUST BE OBSERVED AND THE INSTRUMENT WIRING IS NOT ACCEPTABLE, NON-AUTOMATIC BREAKERS MUST HAVE SHORT-TIME WITHSTAND RATING AT 600VAC AS FOLLOWS:
 - P. TWO AMP 0.0166 SECONDS.
 - 1.500 AMP 0.166 SECONDS.
 - 2.000 AMP 1.0 SECONDS.

REFERENCE DRAWING:
5GM0640-EP-03, 04 SCHEMATICS

PRC APERTURE CARD

Doc # 88-438
Control # 8804050536
Date 3-25-85
of Document
REGULATORY DOCKET FILE

REVISED PER FOR E-2-687	REVISED LOADS, WBC CHANGES, REMOVAL LOCATIONS
REVISED LONGS, CABLES, NOTES, AND ANNUNCIATION POINTS	
SCALE: EXCEPT AS NOTED	
GENERAL UNITS 1 & 2	
SCHEMATIC DIAGRAM 120VAC INSTRUMENT UNIT CONTROL ROOM POWER DISTRIBUTION PANELS	
Bellefonte Nuclear Plant Tennessee Valley Authority Division of Engineering Services	
APPROVED FOR ISSUE	ISSUED FOR ISSUE
INSPECTED AND APPROVED FOR ISSUE	INSPECTED AND APPROVED FOR ISSUE
KNOXVILLE 12-28-76 88 E 5GM0640-EP-11	