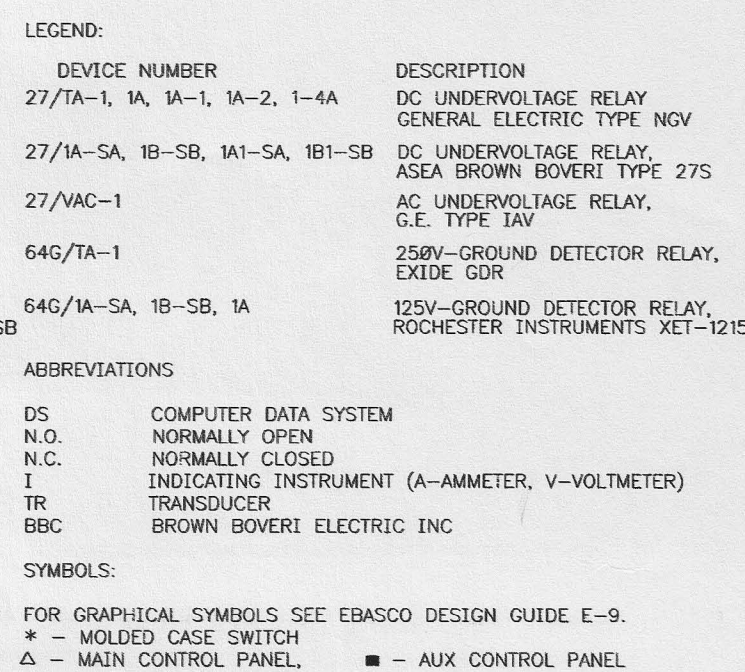



30V



1. ALL DC POLE SYSTEM CIRCUIT BREAKERS AND FUSED SWITCHES ARE 2-POLE UNLESS OTHERWISE INDICATED. ALL AC SYSTEM CIRCUIT BREAKERS AND FUSED SWITCHES ARE 1-POLE UNLESS OTHERWISE INDICATED.
2. ALL FUSES AND CIRCUIT BREAKERS HAVE INTERRUPTING CAPACITIES EQUAL TO OR EXCEEDING THE SHORT CIRCUIT CURRENT RATINGS SHOWN FOR THE RESPECTIVE DC BUSES.
3. FUSES FOR INSTRUMENTS AND RELAYS SHALL BE 10 AMPERE UNLESS OTHERWISE INDICATED.
4. NUMBER OF CONDUCTORS SHOWN FOR AC & DC FEEDERS ARE TOTAL REQUIRED.
5. CABLES FROM BATTERY TO BUS SHALL BE RUN IN CONDUIT AND EACH POLARITY IN SEPARATE CONDUIT. CABLES IN CONDUIT FROM BUS TO EQUIPMENT MAY BE RUN IN THE SAME CONDUIT.
6. CLASS IE PP AND ASSOCIATED TRANSFORMERS ARE LOCATED IN THEIR RESPECTIVE MOTOR CONTROL CENTERS.
7. ALL INSTRUMENTS AND RELAYS ARE LOCATED LOCALLY UNLESS OTHERWISE INDICATED.
8. DESCRIPTION OF FEEDER CIRCUITS—REFER TO POWER DISTRIBUTION AND MOTOR DATA SHEETS DWG. CAR-2166-B—041.
9. CIRCUIT BKPS SHOWN BY SYMBOL  K SHALL BE KIRK KEY INTERLOCKED SUCH THAT ONLY ONE MAY BE CLOSED AT ANY ONE TIME.
10. BATTERY CHARGERS SHALL BE SUITABLE FOR PARALLEL OPERATION.
11. ALL EQUIPMENT IS LOCATED IN THE REACTOR AUXILIARY BUILDING UNLESS OTHERWISE NOTED.
12. OVERLOAD CONTACTS ARE USED FOR ALARM AND SUPERVISORY PURPOSE ONLY (SEE WESTINGHOUSE DWGS CAR-1364-346, CAR-1364-2510).
13. THE 2-1/2" #4/B CABLE FROM BP-DP-19A IS SPLICED IN BOX B510(S1), & BOX B511(S11).
14. 250VDC BATT CHARGER CABLES ARE SPLICED IN B6073 & B6074 SUCH THAT CABLE ROUTED IN TRAY IS 2/PHASE #2 AWC AND CABLE ROUTED THROUGH RAB CONDUIT IS 1/PHASE #2 AWC.

REFERENCE DRAWINGS:	CAR-2166
480 VOLT AUX. ONE LINE WIRING DIAGRAM UNIT 1	G-230
POWER DISTRIBUTION & MOTOR DATA SHEETS	B-241
UNIT 1	
230KV & 500KV SWITCHYARDS AUX. ONE LINE DIAGRAMS	G-225
CONTROL WIRING DIAGRAMS UNIT 1	B-481
WESTINGHOUSE - TYPICAL DIAGRAM FOR INSTRUMENT	
POWER SUPPLIES DWG. #1080457 (CAR-1364-598).	

28	INCORPORATED: EC 81786 & EC 81787 (B2.83.87.86.C2.C3)		ELECTRONICALLY SIGNED
REV	DESCRIPTION		APPROVED
PROFESSIONAL ENGINEER:			
QUALITY LEVEL:		SAFETY RELATED	
		CAROLINA POWER & LIGHT COMPANY NUCLEAR ENGINEERING DEPARTMENT	
PLANT: HARRIS PROJECT - UNIT 1		SCALE: NONE	
TITLE:			
250V DC, 125V DC & 120V UNINTERRUPTIBLE AC ONE LINE WIRING DIAGRAM			
PLANT ORDER NO.: CAR 2166-G-0042 S01			