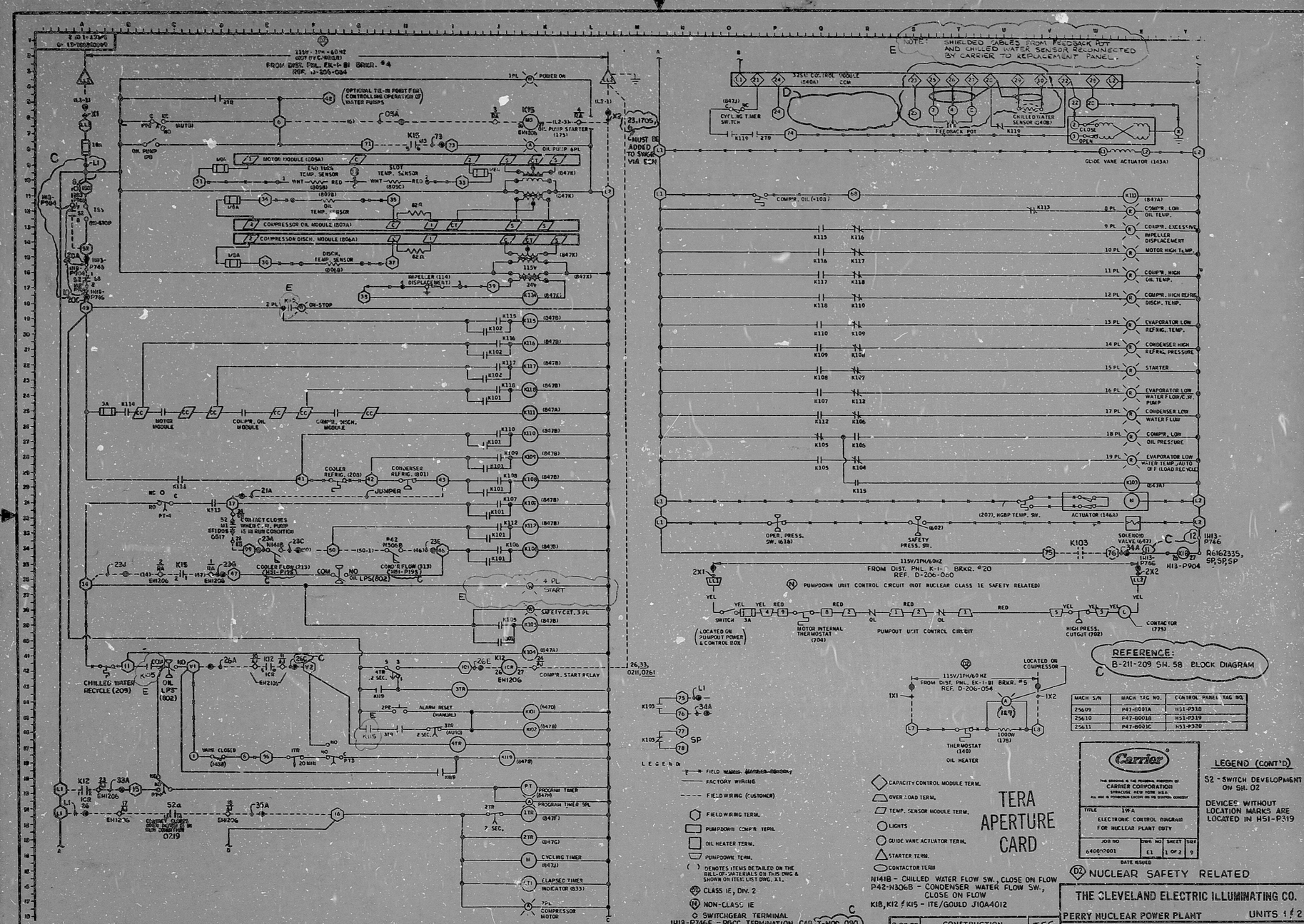
115V-1PH-60HZ
FROM DIST. PNL. EK-1-B1 BRKR. #4
REF. D-206-084
POWER ON
(OPTIONAL TIE-IN POWER FOR CONTROL SHUTDOWN OF WATER PUMPS)
OIL PUMP STARTER (173)
OIL PUMP 6PL
MOTOR MODULE (805A)
EXD TURN TEMP. SENSOR
SLOT TEMP. SENSOR
OIL TEMP. SENSOR
COMPRESSOR OIL MODULE (807A)
COMPRESSOR DISCH. MODULE (806A)
DISCH. TEMP. SENSOR (806B)
IMPELLER (114) DISPLACEMENT
ON-STOP
MOTOR MODULE
COMPR. OIL MODULE
COMPR. DISCH. MODULE
COOLER REFRIG. (208)
CONDENSER REFRIG. (801)
JUMPER
COOLER FLOW (213)
CONDENSER FLOW (313)
OIL LPS (802)
START
SAFETY CKT. 3 PL
CHILLED WATER RECYCLE (209)
COMPR. START RELAY
ALARM RESET (MANUAL)
VALVE CLOSED
PROGRAM TIMER (847H)
PROGRAM TIMER 5PL
CYCLING TIMER (847J)
ELAPSED TIMER INDICATOR (833)
COMPRESSOR MOTOR
NOTE: SHIELDED CABLES FROM FEEDBACK POT AND CHILLED WATER SENSOR RECONNECTED BY CARRIER TO REPLACEMENT PANEL.
325H CONTROL MODULE (640A)
CYCLING TIMER SWITCH
FEEDBACK POT
CHILLED WATER SENSOR (640B)
GUIDE VANE ACTUATOR (143A)
COMPR. OIL (+105)
COMPR. LOW OIL TEMP.
COMPR. EXCESSIVE IMPELLER DISPLACEMENT
MOTOR HIGH TEMP.
COMPR. HIGH OIL TEMP.
COMPR. HIGH REFRIG. DISCH. TEMP.
EVAPORATOR LOW REFRIG. TEMP.
CONDENSER HIGH REFRIG. PRESSURE
STARTER
EVAPORATOR LOW WATER FLOW, C.W. PUMP
CONDENSER LOW WATER FLOW
COMPR. LOW OIL PRESSURE
EVAPORATOR LOW WATER TEMP. AUTO OFF (LOAD REC VOLT)
ACTUATOR (146A)
OPER. PRESS. SW. (618)
SAFETY PRESS. SW.
SOLENOID VALVE (642)
115V/1PH/60HZ
FROM DIST. PNL. K-1-B1 BRKR. #20
REF. D-206-060
PUMPDOWN UNIT CONTROL CIRCUIT (NOT NUCLEAR CLASS 1E SAFETY RELATED)
SWITCH
MOTOR INTERNAL THERMOSTAT (704)
PUMPOUT UNIT CONTROL CIRCUIT
HIGH PRESS. CUTOUT (702)
CONTACTOR (775)
REFERENCE: B-211-209 SH. 58 BLOCK DIAGRAM
115V/1PH/60 HZ
FROM DIST. PNL. EK-1-B1 BRKR. #5
REF. D-206-054
LOCATED ON COMPRESSOR
THERMOSTAT (140)
OIL HEATER
1000W (178)
LEGEND
FIELD WIRING
FACTORY WIRING
FIELDWIRING (CUSTOMER)
FIELDWIRING TERM.
PUMPDOWN COMPR. TERM.
OIL HEATER TERM.
PUMPDOWN TERM.
( ) DENOTES ITEMS DETAILED ON THE BILL OF MATERIALS ON THIS DWG & SHOWN ON ITEM LIST DWG. A1.
CLASS 1E, DIV. 2
NON-CLASS 1E
SWITCHGEAR TERMINAL
CAPACITY CONTROL MODULE TERM.
OVER LOAD TERM.
TEMP. SENSOR MODULE TERM.
LIGHTS
GUIDE VANE ACTUATOR TERM.
STARTER TERM.
CONTACTOR TERM.
N141B - CHILLED WATER FLOW SW., CLOSE ON FLOW
P42-N306B - CONDENSER WATER FLOW SW., CLOSE ON FLOW
K1B, K12 & K15 - ITE/GOULD J10A4012
H13-P746E - PGCC TERMINATION CAB. T-MOD 090
H13-P904 - COMMON HVAC PANEL
H51-P195 - LOCAL INSTRUMENT RACK
H51-P319 - CONT. COMPLEX CHILLER "B" CONT. PNL., VENDOR PNL.
TERA APERTURE CARD
Carrier
CARRIER CORPORATION
SYRACUSE, NEW YORK U.S.A.
TITLE 1WA
ELECTRONIC CONTROL DIAGRAM FOR NUCLEAR PLANT DUTY
JOB NO 6400P0001
DWG NO E1
SHEET 1 OF 2
SIZE 9
DATE ISSUED
LEGEND (CONT'D)
S2 - SWITCH DEVELOPMENT ON SH. 02
DEVICES WITHOUT LOCATION MARKS ARE LOCATED IN H51-P319
NUCLEAR SAFETY RELATED
THE CLEVELAND ELECTRIC ILLUMINATING CO.
PERRY NUCLEAR POWER PLANT UNITS 1 & 2
ELECTRICAL-ELEMENTARY DIAGRAM
CONTROL COMPLEX CHILLED WATER CHILLER "B" CONTROLS 8001B
GILBERT ASSOCIATES, INC.
ENGINEERS AND CONSULTANTS
044549-000 CWL DEG TFF 8-25-77
04 4549 B-208-178 P47 14 E
DRAWING NUMBER SYSTEM SH. NO. REV.
8-25-77 CONSTRUCTION TFF
PRELIMINARY
DATE RELEASED FOR ENGR.
E REVISED PER MFGR. 3-17-81
D RE-REFORMAT PER SH. 12; REMOVED RESISTOR 12-31-80
C REV. LOCAL INSTR. RACK # IN LEGEND, LINE 23, WAS H51-P194 10-17-80
B REVISED PER MFGR. INFO 10-18-79
A REDRAWN PER MFGR. & REVISED PER ECN 245-033-01-22 7-10-79
ELEM. DIAG P47 CHILLER B CONTROLS

RIDS

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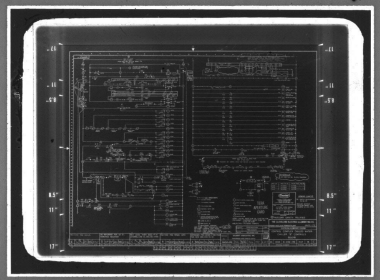

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