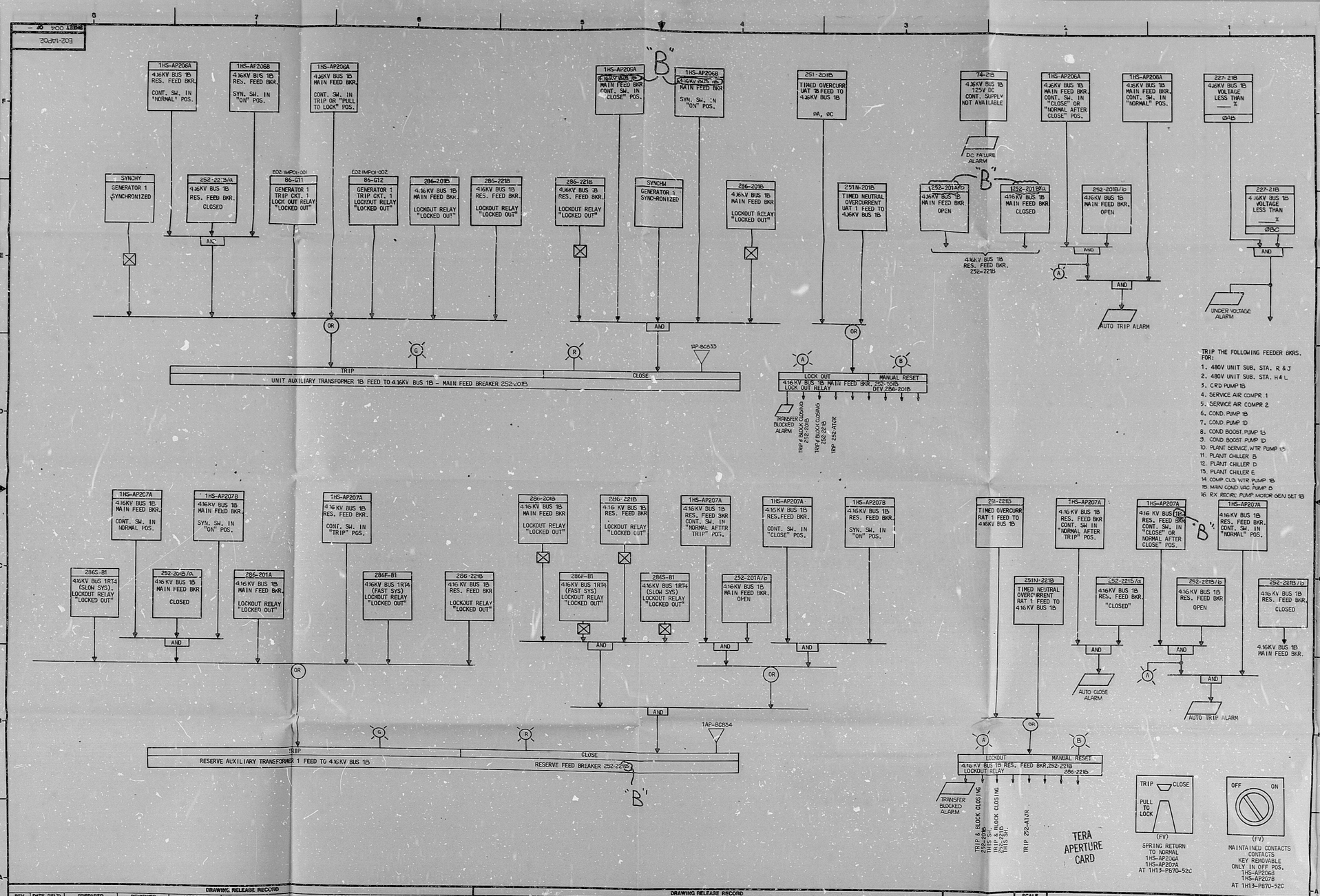
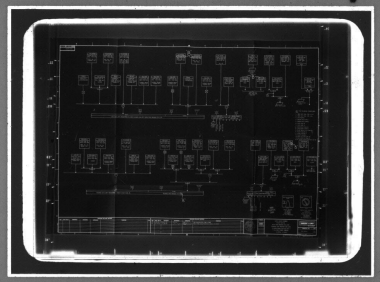

1HS-AP206A 4.16KV BUS 1B RES. FEED BKR. CONT. SW. IN "NORMAL" POS.
1HS-AP206B 4.16KV BUS 1B RES. FEED BKR. SYN. SW. IN "ON" POS.
1HS-AP206A 4.16KV BUS 1B MAIN FEED BKR. CONT. SW. IN TRIP OR "PULL TO LOCK" POS.
1HS-AP206A 4.16KV BUS 1B MAIN FEED BKR. CONT. SW. IN "CLOSE" POS.
1HS-AP206B 4.16KV BUS 1B MAIN FEED BKR SYN. SW. IN "ON" POS.
251-201B TIMED OVERCURR UAT 1B FEED TO 4.16KV BUS 1B
ØA, ØC
74-21B 4.16KV BUS 1B 125V DC CONT. SUPPLY NOT AVAILABLE
DC FAILURE ALARM
1HS-AP206A 4.16KV BUS 1B MAIN FEED BKR. CONT. SW. IN "CLOSE" OR "NORMAL AFTER CLOSE" POS.
1HS-AP206A 4.16KV BUS 1B MAIN FEED BKR. CONT. SW. IN "NORMAL" POS.
227-21B 4.16KV BUS 1B VOLTAGE LESS THAN X
ØAB
SYNCHY GENERATOR 1 SYNCHRONIZED
252-221B/a 4.16KV BUS 1B RES. FEED BKR. CLOSED
EO2 IMPOH-001 86-G11 GENERATOR 1 TRIP CKT. 1 LOCK OUT RELAY "LOCKED OUT"
EO2 IMPOH-002 86-G12 GENERATOR 1 TRIP CKT. 1 LOCKOUT RELAY "LOCKED OUT"
286-201B 4.16 KV BUS 1B MAIN FEED BKR. LOCKOUT RELAY "LOCKED OUT"
286-221B 4.16KV BUS 1B RES. FEED BKR. LOCKOUT RELAY "LOCKED OUT"
286-221B 4.16KV BUS 1B RES. FEED BKR. LOCKOUT RELAY "LOCKED OUT"
SYNCHW GENERATOR 1 SYNCHRONIZED
286-201B 4.16KV BUS 1B MAIN FEED BKR LOCKOUT RELAY "LOCKED OUT"
251N-201B TIMED NEUTRAL OVERCURRENT UAT 1 FEED TO 4.16KV BUS 1B
252-201A/b 4.16KV BUS 1B MAIN FEED BKR. OPEN
252-201B/a 4.16KV BUS 1B MAIN FEED BKR CLOSED
4.16KV BUS 1B RES. FEED BKR. 252-221B
252-201B/b 4.16KV BUS 1B MAIN FEED BKR. OPEN
AUTO TRIP ALARM
227-21B 4.16KV BUS 1B VOLTAGE LESS THAN X
ØBC
UNDER VOLTAGE ALARM
TRIP THE FOLLOWING FEEDER BKRS. FOR:
1. 480V UNIT SUB. STA. R & J
2. 480V UNIT SUB. STA. H & L
3. CRD PUMP 1B
4. SERVICE AIR COMPR. 1
5. SERVICE AIR COMPR 2
6. COND. PUMP 1B
7. COND PUMP 1D
8. COND BOOST. PUMP 1B
9. COND BOOST PUMP 1D
10. PLANT SERVICE WTR PUMP 1B
11. PLANT CHILLER B
12. PLANT CHILLER D
13. PLANT CHILLER E
14. COMP CLG WTR PUMP 1B
15. MAIN COND VAC PUMP B
16. RX RECIRC PUMP MOTOR GEN SET 1B
1HS-AP207A 4.16KV BUS 1B MAIN FEED BKR. CONT. SW. IN NORMAL POS.
1HS-AP207B 4.16KV BUS 1B MAIN FEED BKR. SYN. SW. IN "ON" POS.
1HS-AP207A 4.16 KV BUS 1B RES. FEED BKR. CONT. SW. IN "TRIP" POS.
286-201B 4.16KV BUS 1B MAIN FEED BKR LOCKOUT RELAY "LOCKED OUT"
286-221B 4.16 KV BUS 1B RES. FEED BKR LOCKOUT RELAY "LOCKED OUT"
1HS-AP207A 4.16KV BUS 1B RES. FEED BKR CONT. SW. IN "NORMAL AFTER TRIP" POS.
1HS-AP207A 4.16KV BUS 1B RES. FEED BKR. CONT. SW. IN "CLOSE" POS.
1HS-AP207B 4.16KV BUS 1B RES. FEED BKR. SYN. SW. IN "ON" POS.
251-221B TIMED OVERCURR RAT 1 FEED TO 4.16KV BUS 1B
1HS-AP207A 4.16 KV BUS 1B RES. FEED BKR CONT. SW IN "NORMAL AFTER TRIP" POS.
1HS-AP207A 4.16 KV BUS 1B RES. FEED BKR CONT. SW. IN "CLOSE" OR NORMAL AFTER CLOSE" POS.
1HS-AP207A 4.16KV BUS 1B RES. FEED BKR. CONT. SW. IN "NORMAL" POS.
286S-B1 4.16KV BUS 1RT4 (SLOW SYS) LOCKOUT RELAY "LOCKED OUT"
252-201B/a 4.16 KV BUS 1B MAIN FEED BKR CLOSED
286-201A 4.16 KV BUS 1B MAIN FEED BKR. LOCKOUT RELAY "LOCKED OUT"
286F-B1 4.16KV BUS 1RT4 (FAST SYS) LOCKOUT RELAY "LOCKED OUT"
286-221B 4.16 KV BUS 1B RES. FEED BKR LOCKOUT RELAY "LOCKED OUT"
286F-B1 4.16KV BUS 1RT4 (FAST SYS) LOCKOUT RELAY "LOCKED OUT"
286S-B1 4.16KV BUS 1RT4 (SLOW SYS) LOCKOUT RELAY "LOCKED OUT"
252-201A/b 4.16KV BUS 1B MAIN FEED BKR. OPEN
251N-221B TIMED NEUTRAL OVERCURRENT RAT 1 FEED TO 4.16 KV BUS 1B
252-221B/a 4.16KV BUS 1B RES. FEED BKR. "CLOSED"
252-221B/b 4.16 KV BUS 1B RES. FEED BKR OPEN
252-221B/b 4.16 KV BUS 1B RES. FEED BKR. CLOSED
4.16KV BUS 1B MAIN FEED BKR.
AUTO CLOSE ALARM
AUTO TRIP ALARM
1AP-BC833
TRIP
CLOSE
UNIT AUXILIARY TRANSFORMER 1B FEED TO 4.16KV BUS 1B - MAIN FEED BREAKER 252-201B
LOCK OUT
MANUAL RESET
4.16KV BUS 1B MAIN FEED BKR. 252-201B
LOCK OUT RELAY
DEV 286-201B
TRANSFER BLOCKED ALARM
TRIP & BLOCK CLOSING 252-201B
TRIP & BLOCK CLOSING 252-221B
TRIP 252-ATOR
1AP-BC834
RESERVE AUXILIARY TRANSFORMER 1 FEED TO 4.16KV BUS 1B
RESERVE FEED BREAKER 252-221B
'B'
LOCKOUT
MANUAL RESET
4.16 KV BUS 1B RES. FEED BKR. 252-221B
LOCKOUT RELAY
286-221B
TRANSFER BLOCKED ALARM
TRIP & BLOCK CLOSING 252-221B
TRIP & BLOCK CLOSING 252-201B
TRIP 252-ATOR
TERA APERTURE CARD
TRIP
CLOSE
PULL TO LOCK
(FV)
SPRING RETURN TO NORMAL 1HS-AP206A 1HS-AP207A AT 1H13-P870-52C
OFF
ON
(FV)
MAINTAINED CONTACTS CONTACTS KEY REMOVABLE ONLY IN OFF POS. 1HS-AP206B 1HS-AP207B AT 1H13-P870-52C
DRAWING RELEASE RECORD
REV. DATE REL'D. PREPARED REVIEWED APPROVED PURPOSE FILM
REV. DATE REL'D. PREPARED REVIEWED APPROVED PURPOSE FILM
A 6-24-80 FOR CONSTRUCTION SPEC K-2999
B 04-03-81 REV. FOR CONSTRUCTION SPEC. K-2999
PATRICK A. HEVINS REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
SCALE
PROJECT NUMBER 4556-00
LOGIC BLOCK DIAGRAM
4.16KV BUS 1B
MAIN FEED BREAKER 252-201B
RESERVE FEED BREAKER 252-221B
CLINTON POWER STATION UNIT 1
ILLINOIS POWER COMPANY
CLINTON, ILLINOIS
SARGENT & LUNDY ENGINEERS CHICAGO
DRAWING NO. EO2-1AP02
REV. B
SHEET 004 OF
8109010576

R165

5109010576



MMM 5824 — FILMSORT® Broad Aperture & Camera Cards and DUPLICARD® Broad Copy Cards — Product of 3M Company, St. Paul, Minn.