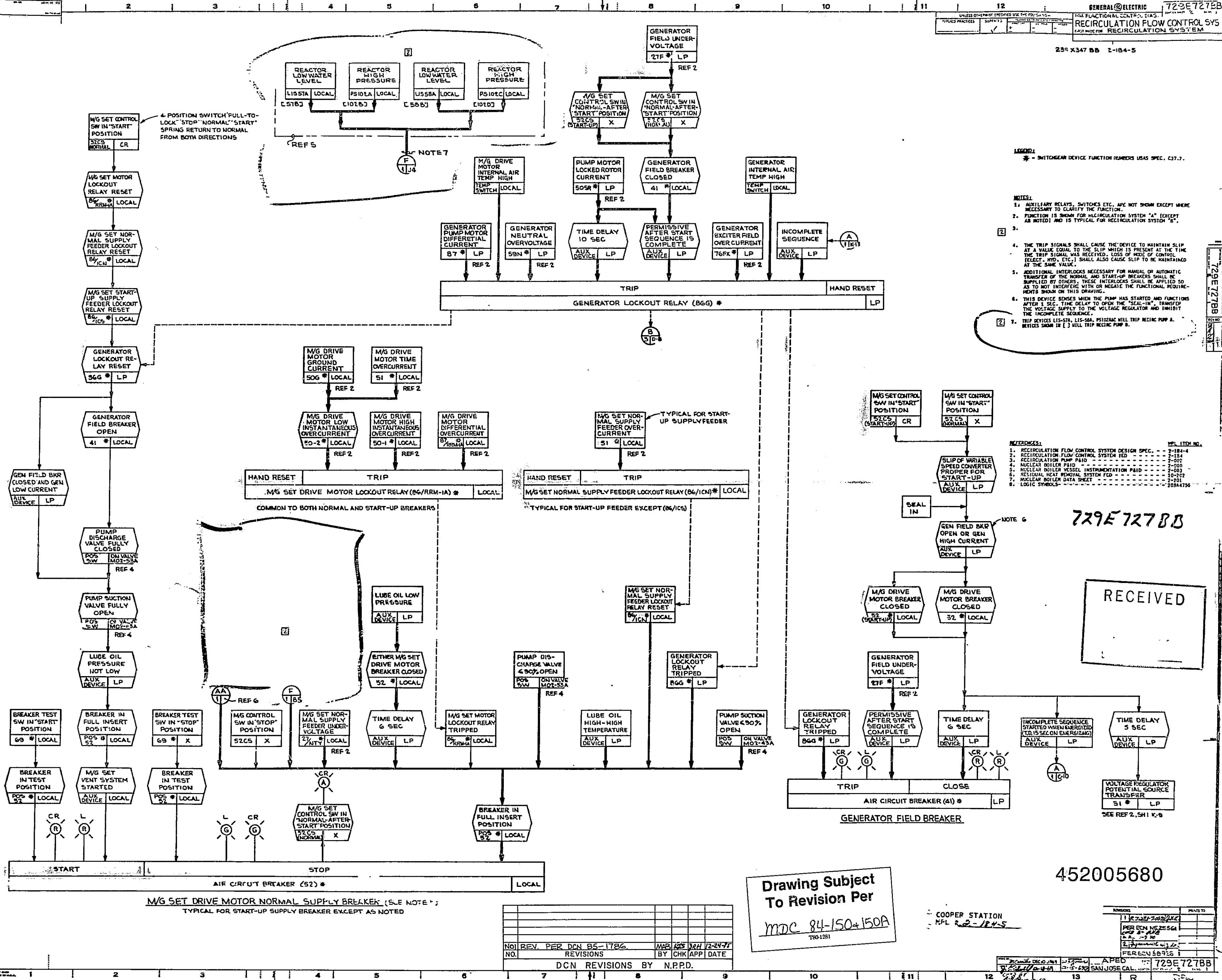


239 X347 BB 2-184-5



LEGEND:
* - SWITCHGEAR DEVICE FUNCTION NUMBERS USAS SPEC. 437.7.

- NOTES:
- AUXILIARY RELAYS, SWITCHES ETC. ARE NOT SHOWN EXCEPT WHERE NECESSARY TO CLARIFY THE FUNCTION.
 - FUNCTION IS SHOWN FOR RECIRCULATION SYSTEM "A" (EXCEPT AS NOTED) AND IS TYPICAL FOR RECIRCULATION SYSTEM "B".
 -
 - THE TRIP SIGNALS SHALL CAUSE THE DEVICE TO MAINTAIN SLIP AT A VALUE EQUAL TO THE SLIP WHICH IS PRESENT AT THE TIME THE TRIP SIGNAL WAS RECEIVED. LOSS OF MODE OF CONTROL (SELECT, HYD, ETC.) SHALL ALSO CAUSE SLIP TO BE MAINTAINED AT THE SAME VALUE.
 - ADDITIONAL INTERLOCKS NECESSARY FOR MANUAL OR AUTOMATIC TRANSFER OF THE NORMAL AND START-UP BREAKERS SHALL BE SUPPLIED BY OTHERS. THESE INTERLOCKS SHALL BE APPLIED SO AS TO NOT INTERFERE WITH OR NEGATE THE FUNCTIONAL REQUIREMENTS SHOWN ON THIS DRAWING.
 - THIS DEVICE SENSES WHEN THE PUMP HAS STARTED AND FUNCTIONS AFTER 1 SEC. TIME DELAY TO OPEN THE "SEAL-IN" TRANSFER THE VOLTAGE SUPPLY TO THE VOLTAGE REGULATOR AND INHIBIT THE INCOMPLETE SEQUENCE.
 - TRIP DEVICES LIS-57A, LIS-58A, PS102AC WILL TRIP RECIRC PUMP A. DEVICES SHOWN IN [] WILL TRIP RECIRC PUMP B.

- REFERENCES:
- | | |
|---|----------|
| 1. RECIRCULATION FLOW CONTROL SYSTEM DESIGN SPEC. | 2-184-4 |
| 2. RECIRCULATION PUMP CONTROL SYSTEM IED | 2-184 |
| 3. RECIRCULATION PUMP PAID | 2-007 |
| 4. NUCLEAR BOILER PAID | 2-008 |
| 5. NUCLEAR BOILER VESSEL INSTRUMENTATION PAID | 2-003 |
| 6. RESIDUAL HEAT REMOVAL SYSTEM FSD | 10-207 |
| 7. NUCLEAR BOILER DATA SHEET | 2-201 |
| 8. LOGIC SYMBOLS | 209A4756 |

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Drawing Subject
To Revision Per
MDC 84-150-150A
7801281

COOPER STATION
MPL 2-2-184-5

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NO. REVISIONS	BY CHK/APP DATE
DCN REVISIONS BY N.P.P.D.	