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ADDITIONAL SYMBOLS

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# DEVICE FUNCTION LETTERS AND NUMBERS

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- LB LEVEL CHANNEL NC NUCLEAR CHANNEL
- PB PRESSURE CHANNEL
- RC RADIATION CHANNEL
- SB SPEED CHANNEL
- TB TEMPERATURE CHANNEL
- ZB POSITION CHANNEL
- 20 ELECTRIC OPERATED VALVE
- 27 UNDERVOLTAGE RELAY
- 33 POSITION SWITCH

## 52 AC CIRCUIT BREAKER

- 63 PRESSURE SWITCH
- 71 LEVEL SWITCH
- 80 FLOW SWITCH
- 81 UNDERFREQUENCY RELAY

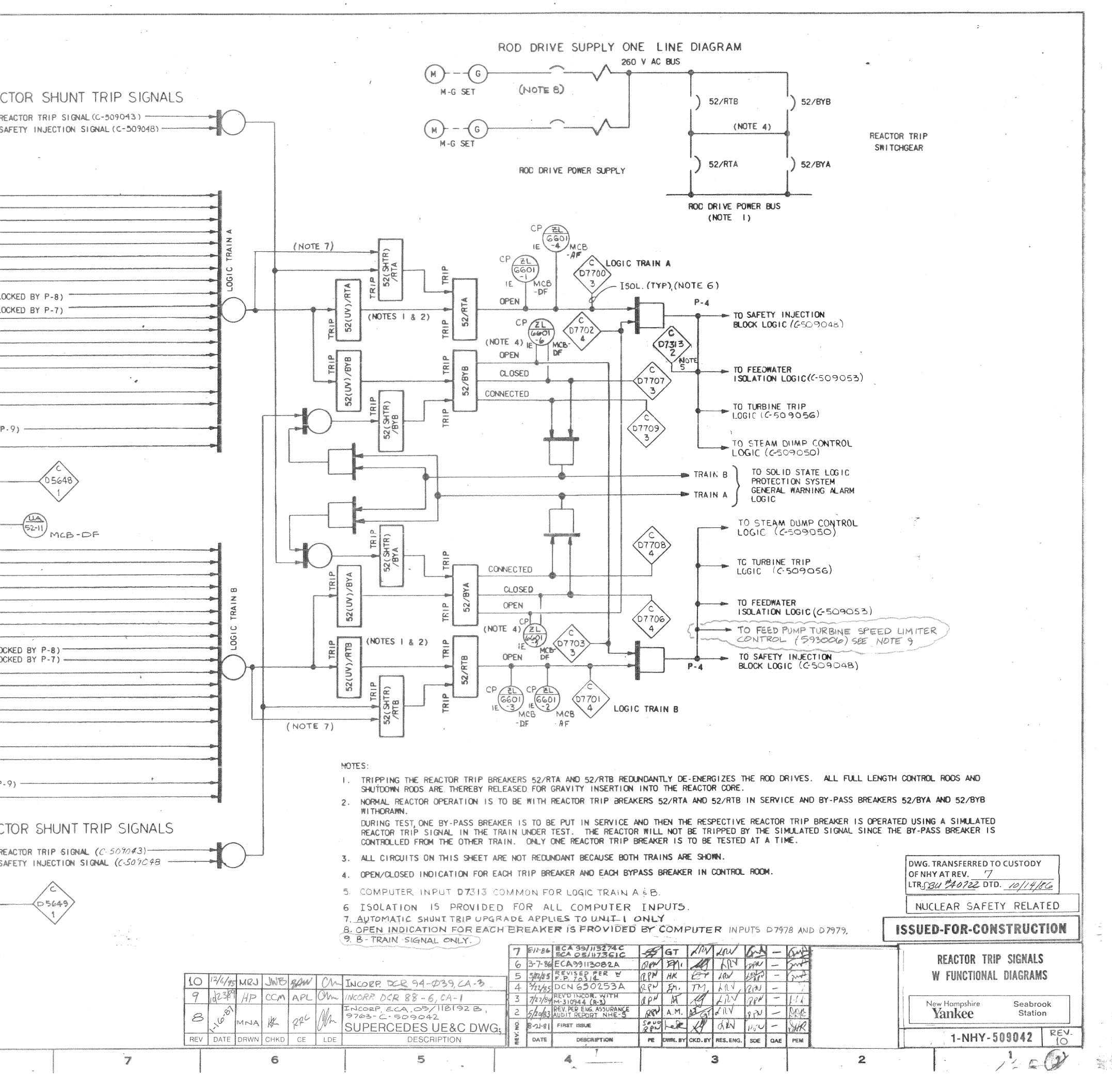
DWG. 509041 THRU C509056 ARE UE&C REDRAWS OF THE WESTINGHOUSE FUNCTIONAL DIAGRAMS - AS REFERENCED BELOW. UE&C HAS ADDED MAIN CONTROL BOARD(MCB) LOCATIONS, COMPUTEB ID NUMBERS, MONITORINGS LIGHT NUMBERS, RECORDER NUMBERS, CONTROL SWITCH NUMBERS, REFERENCE DRAWINGS AND APPLICABLE UE&C INTERFERACE.

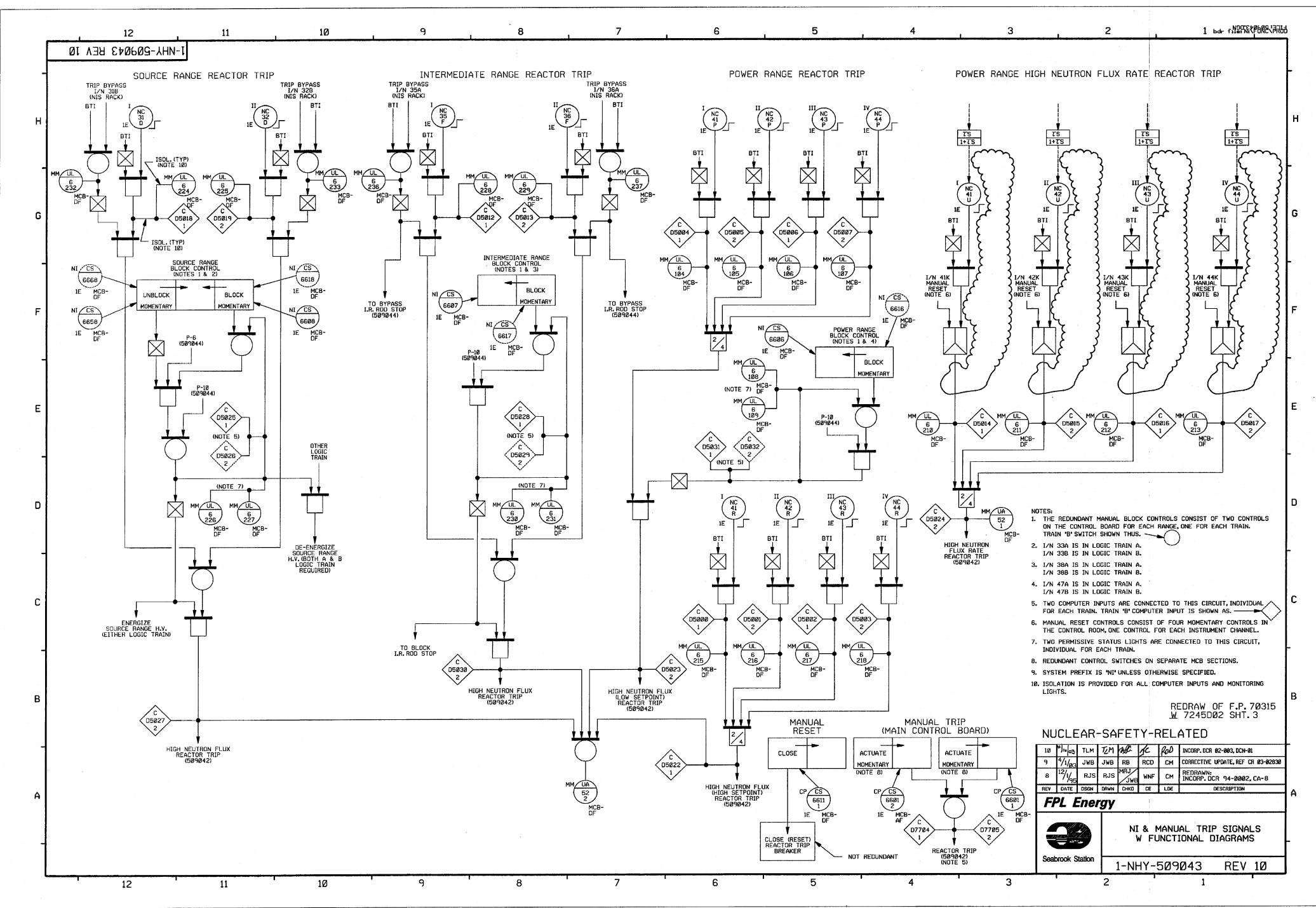
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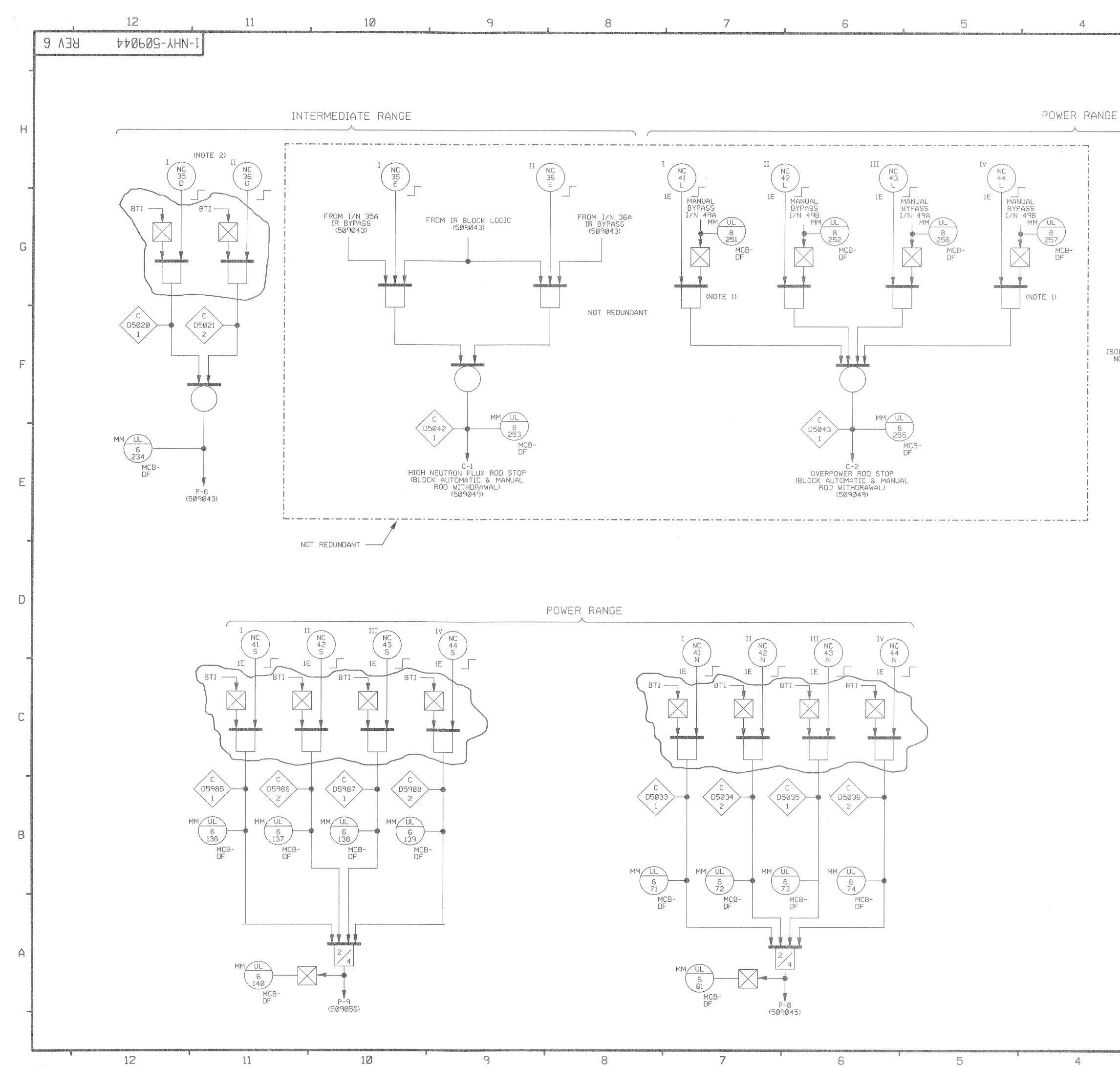
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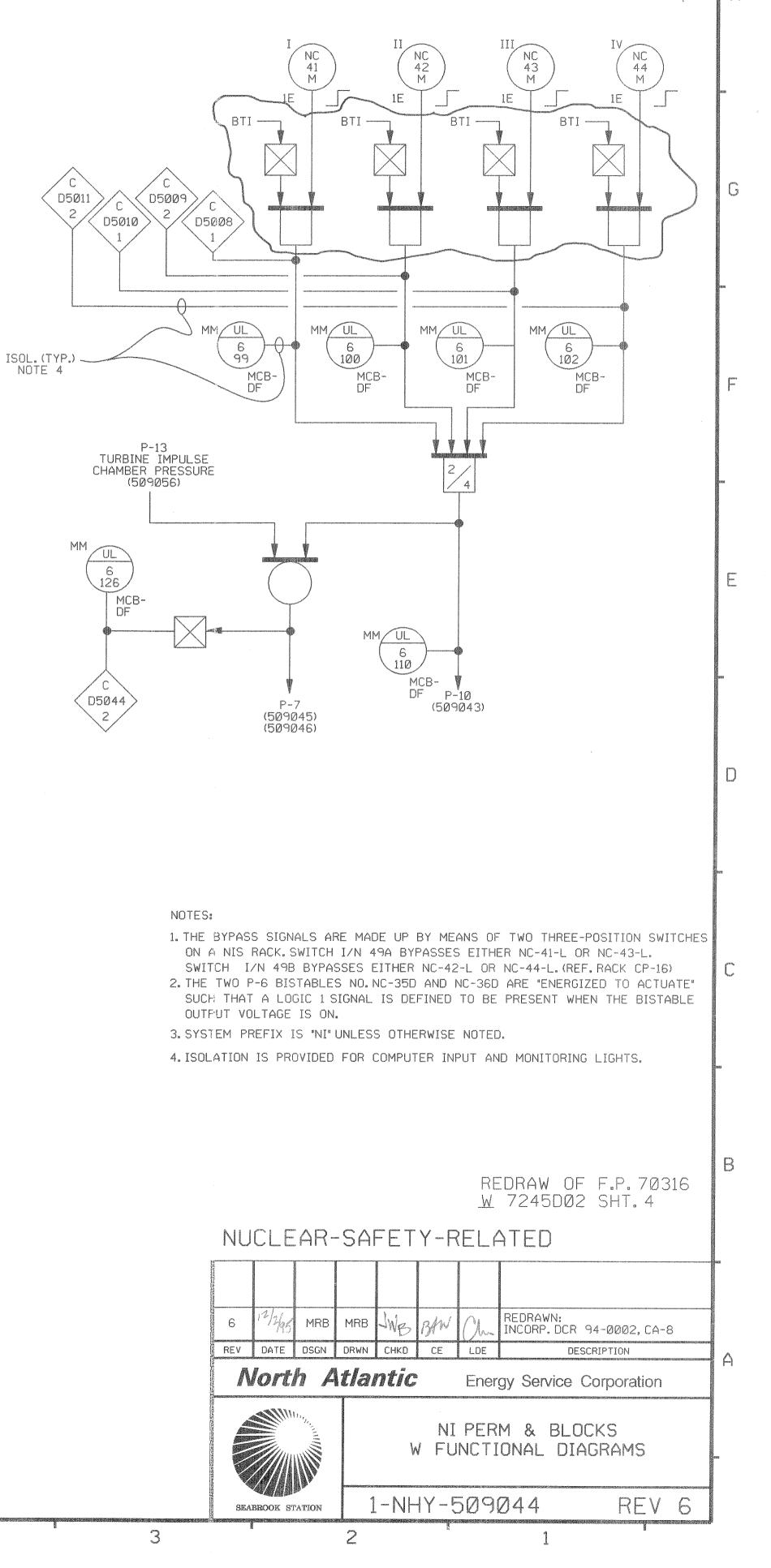
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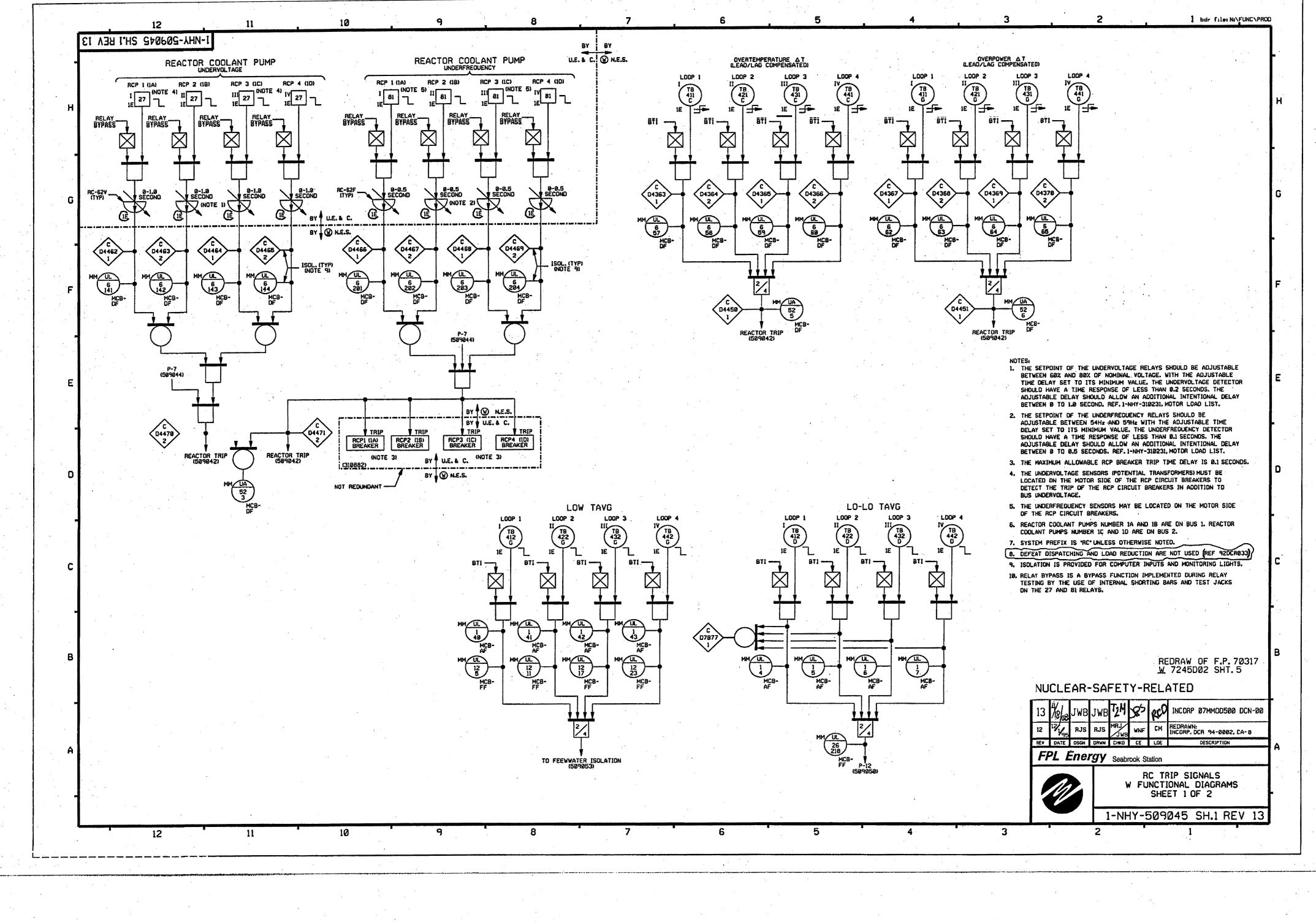
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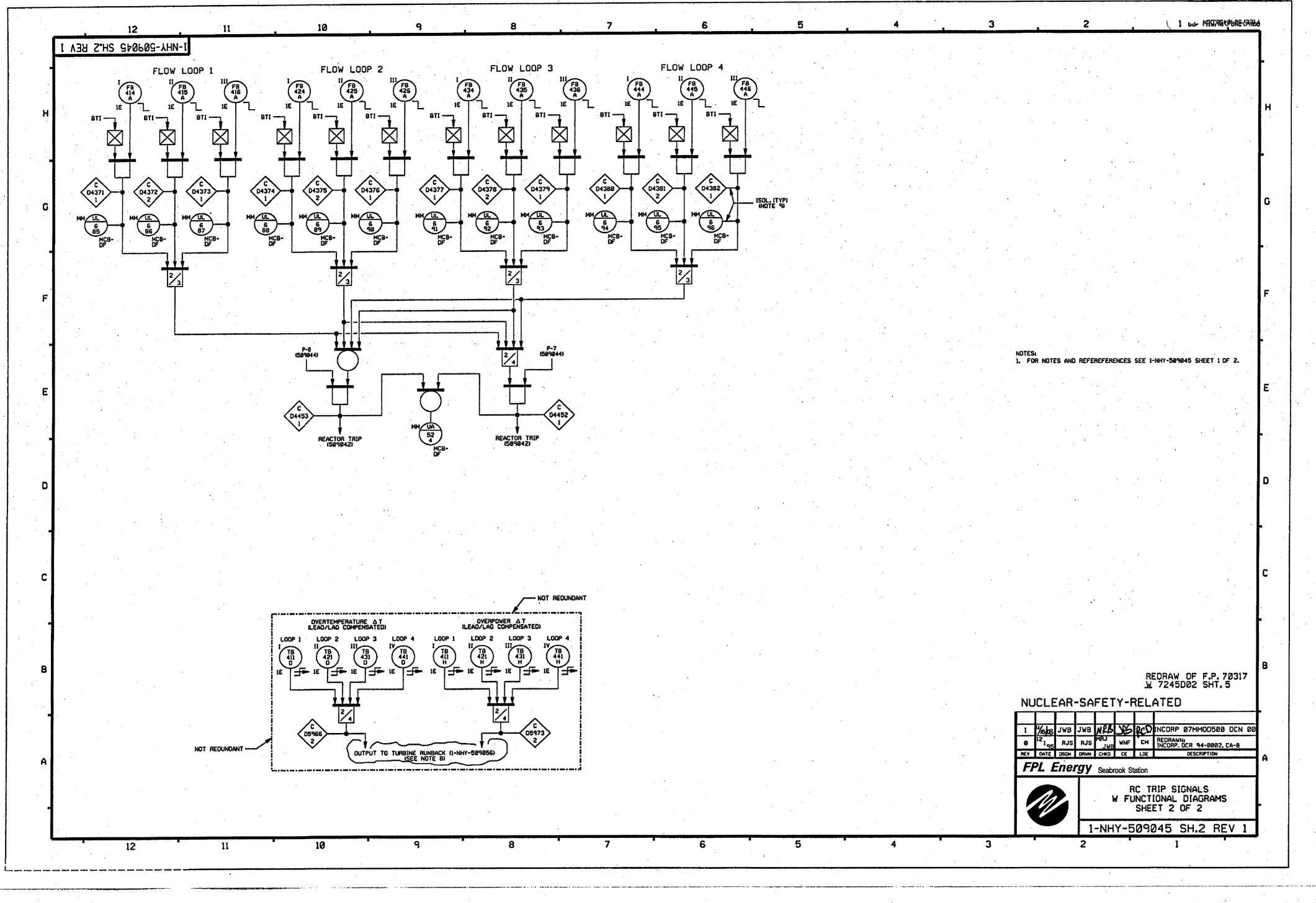
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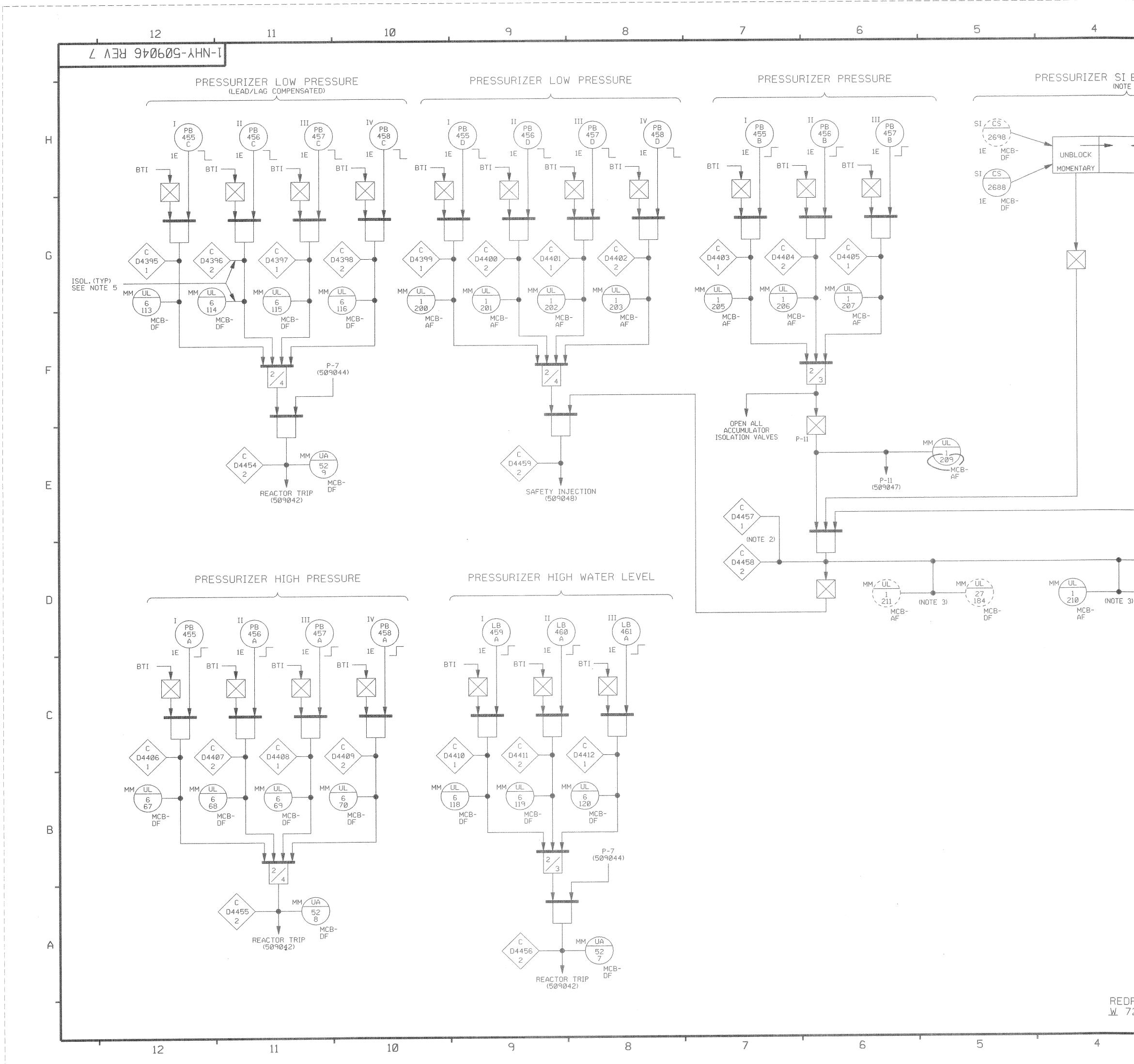


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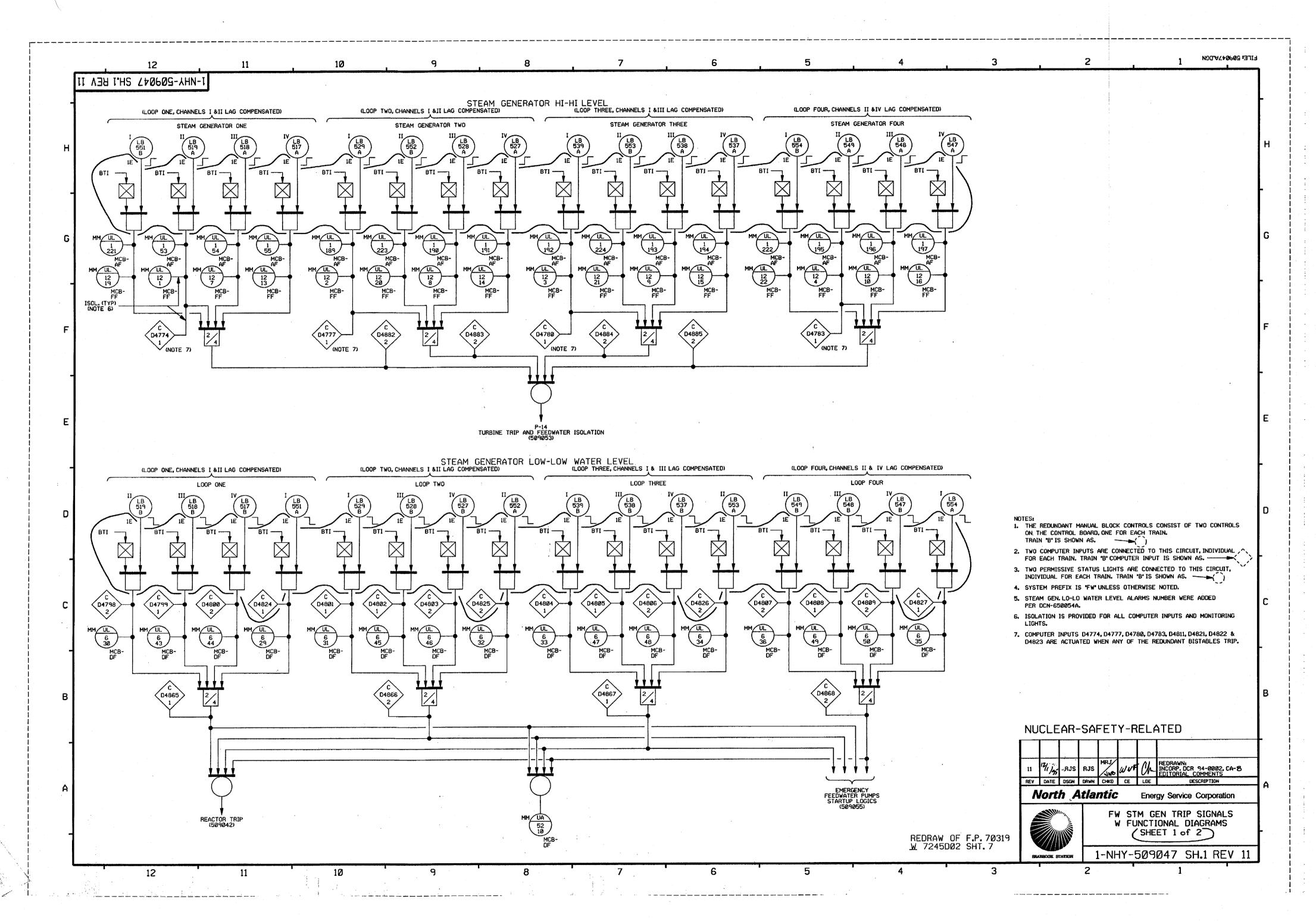


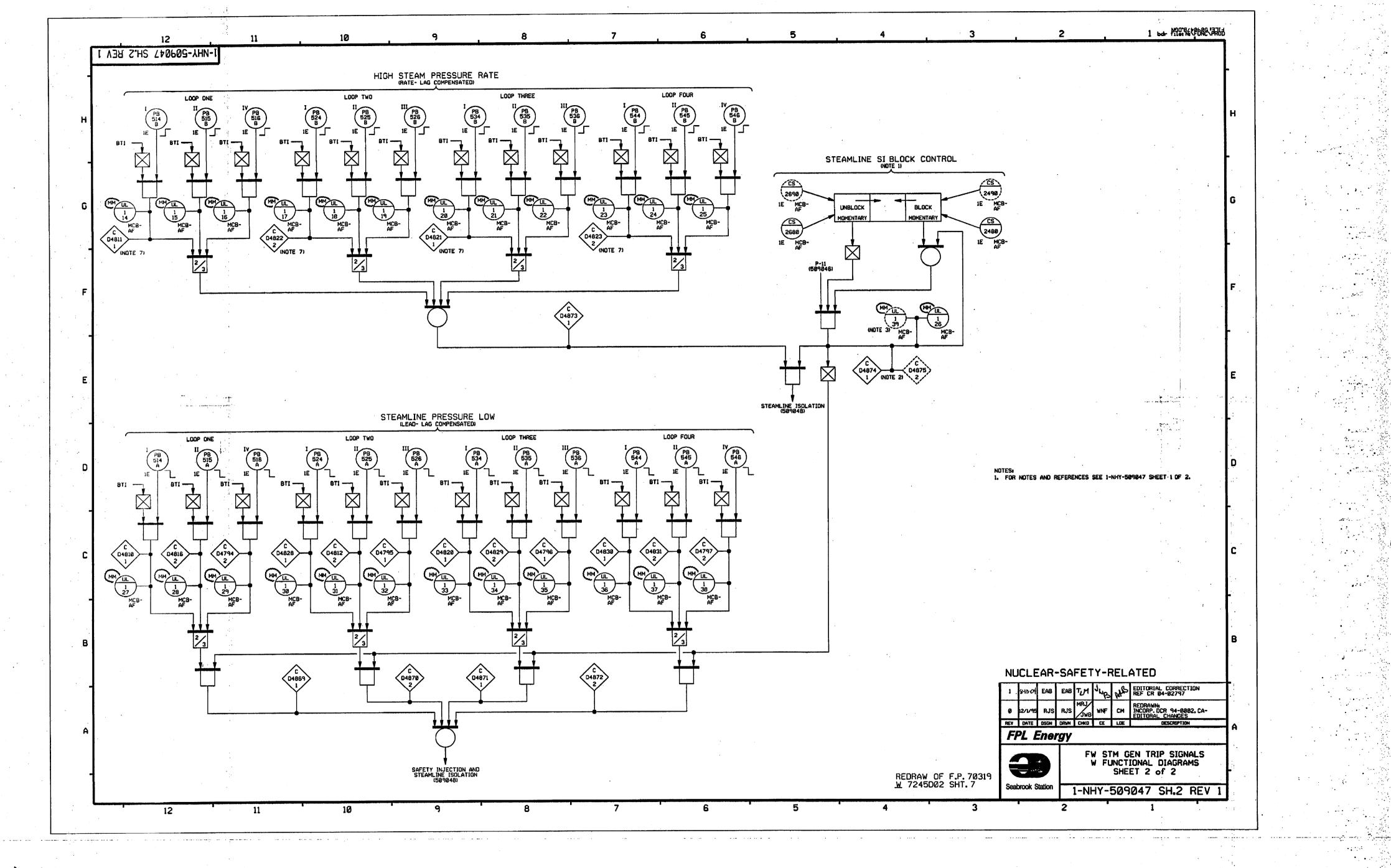




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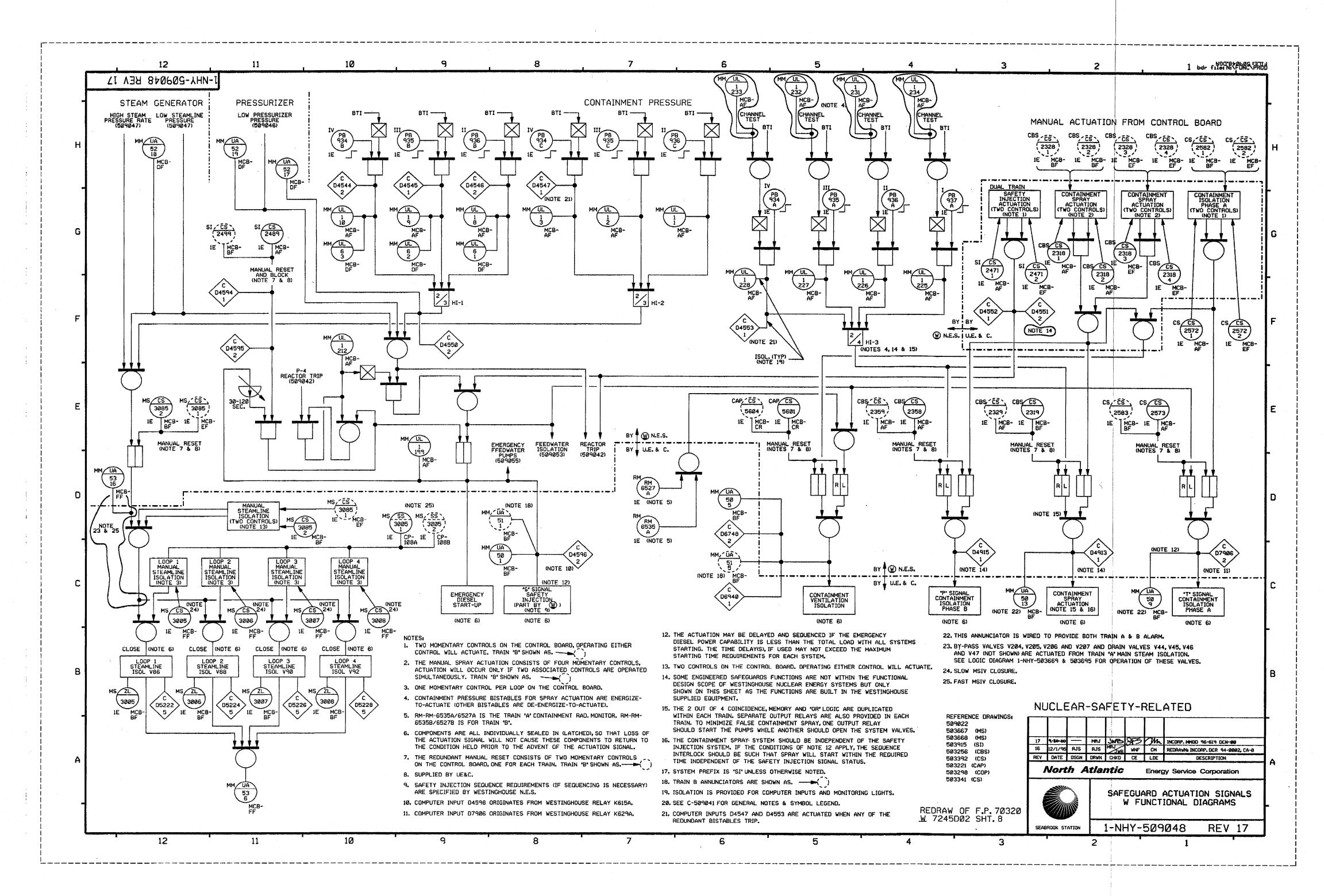
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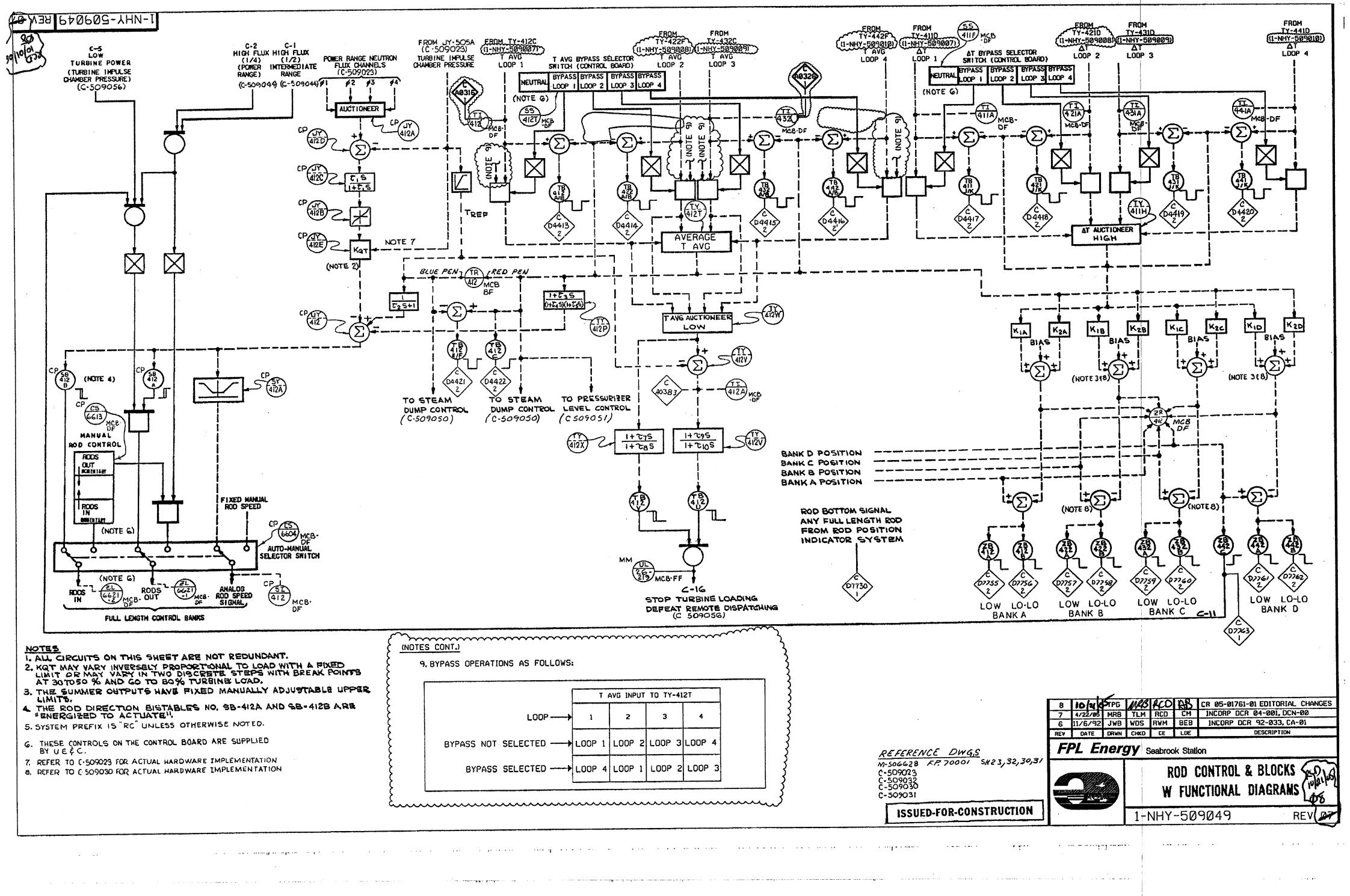
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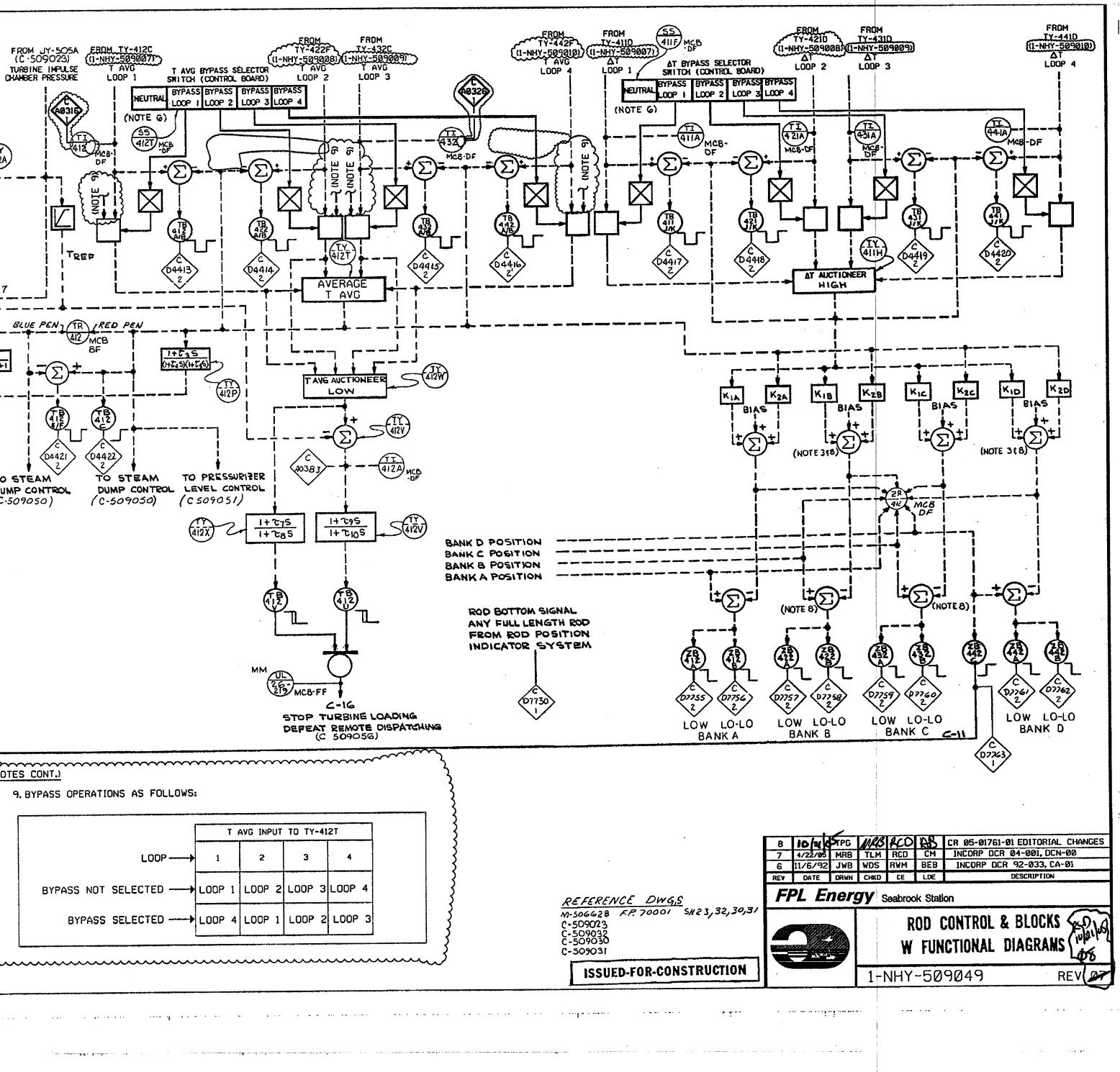
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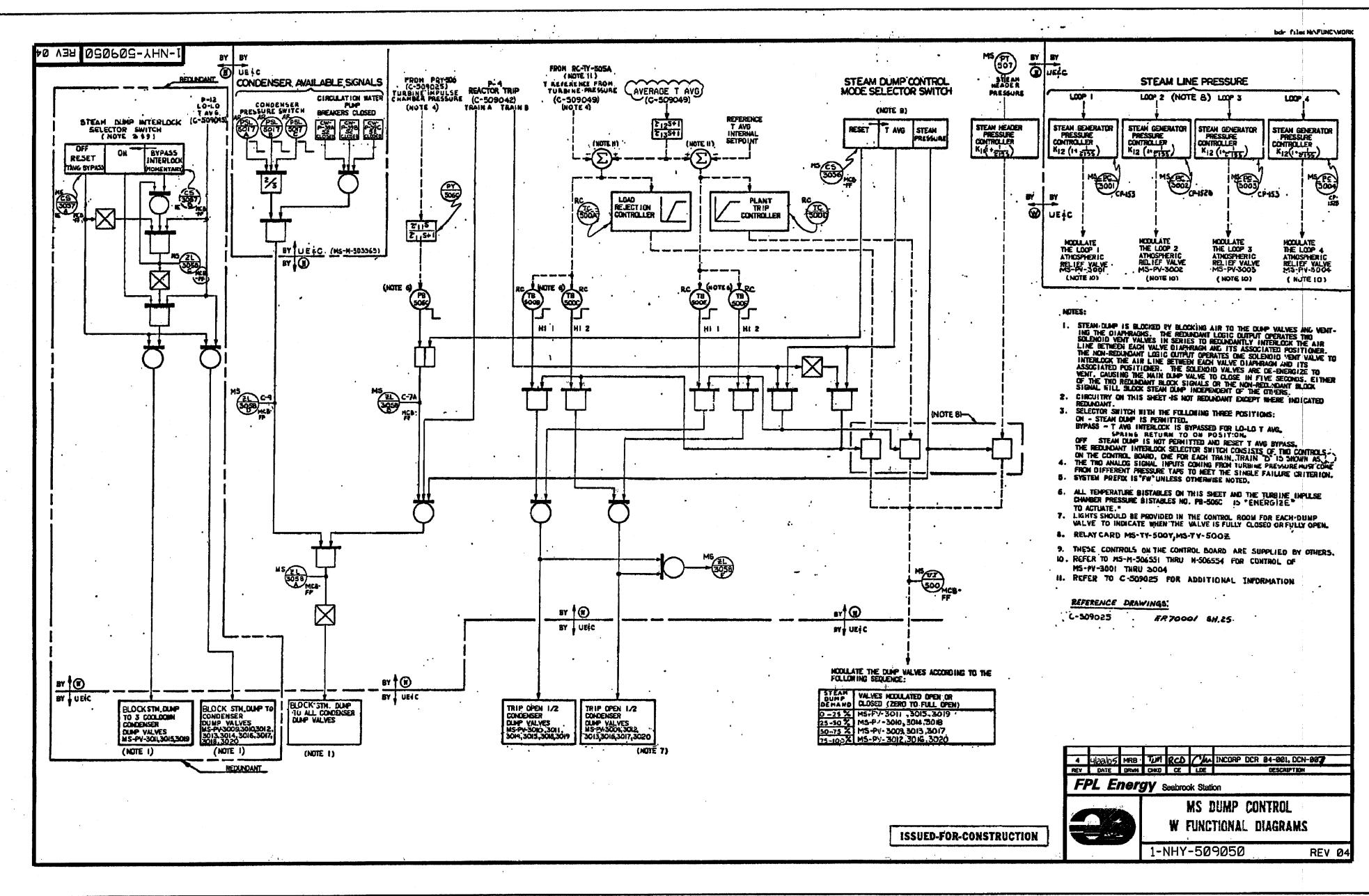
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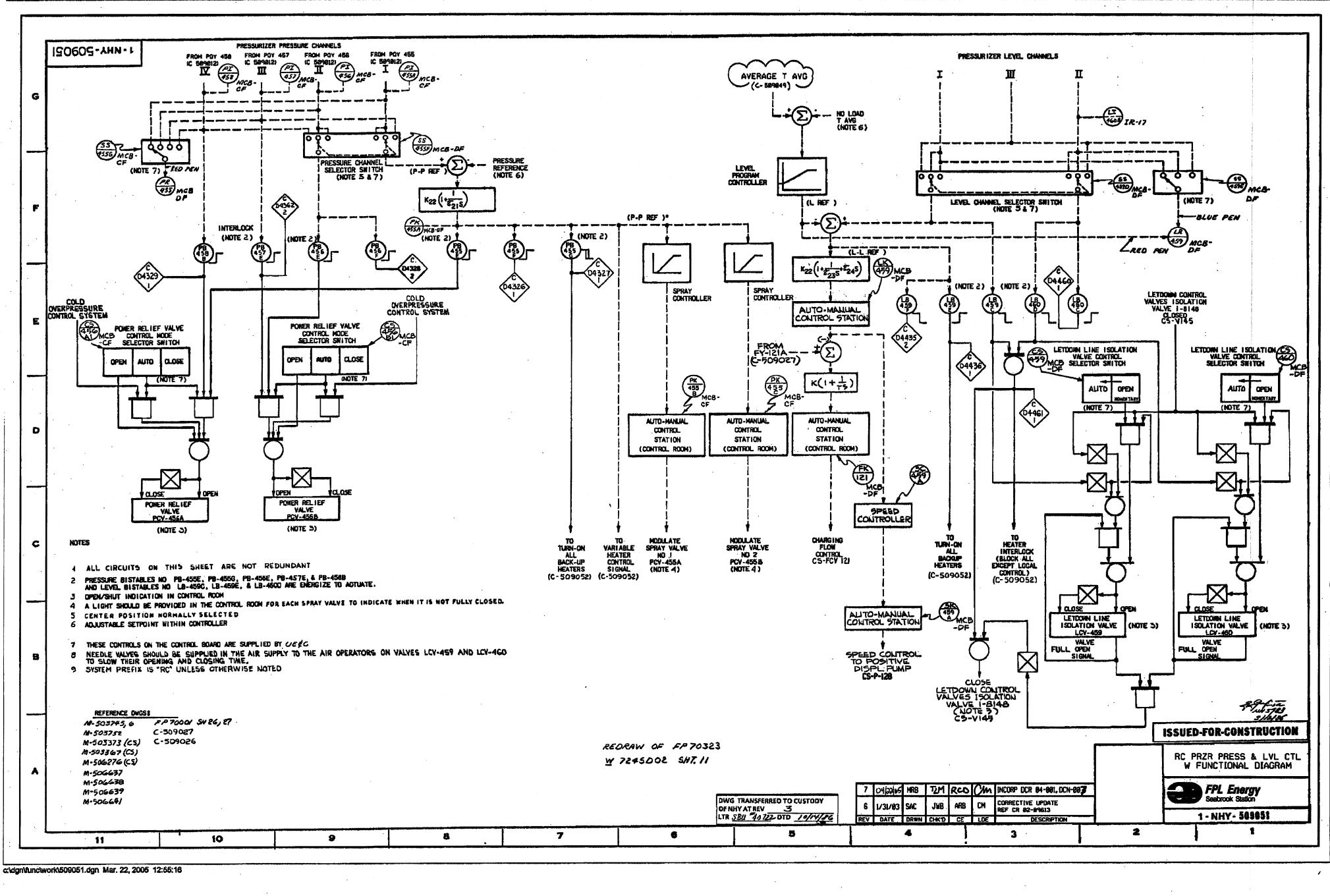








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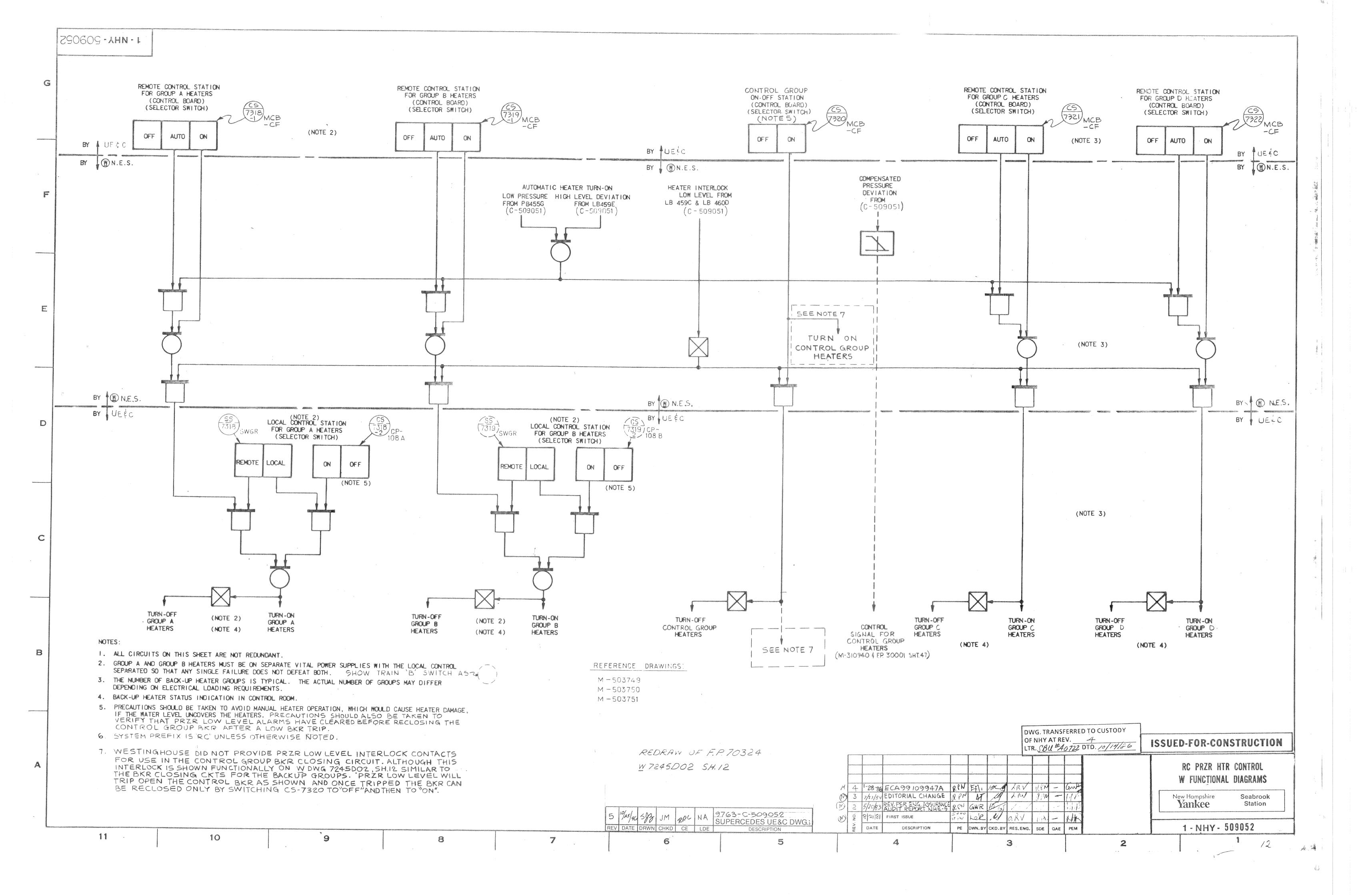


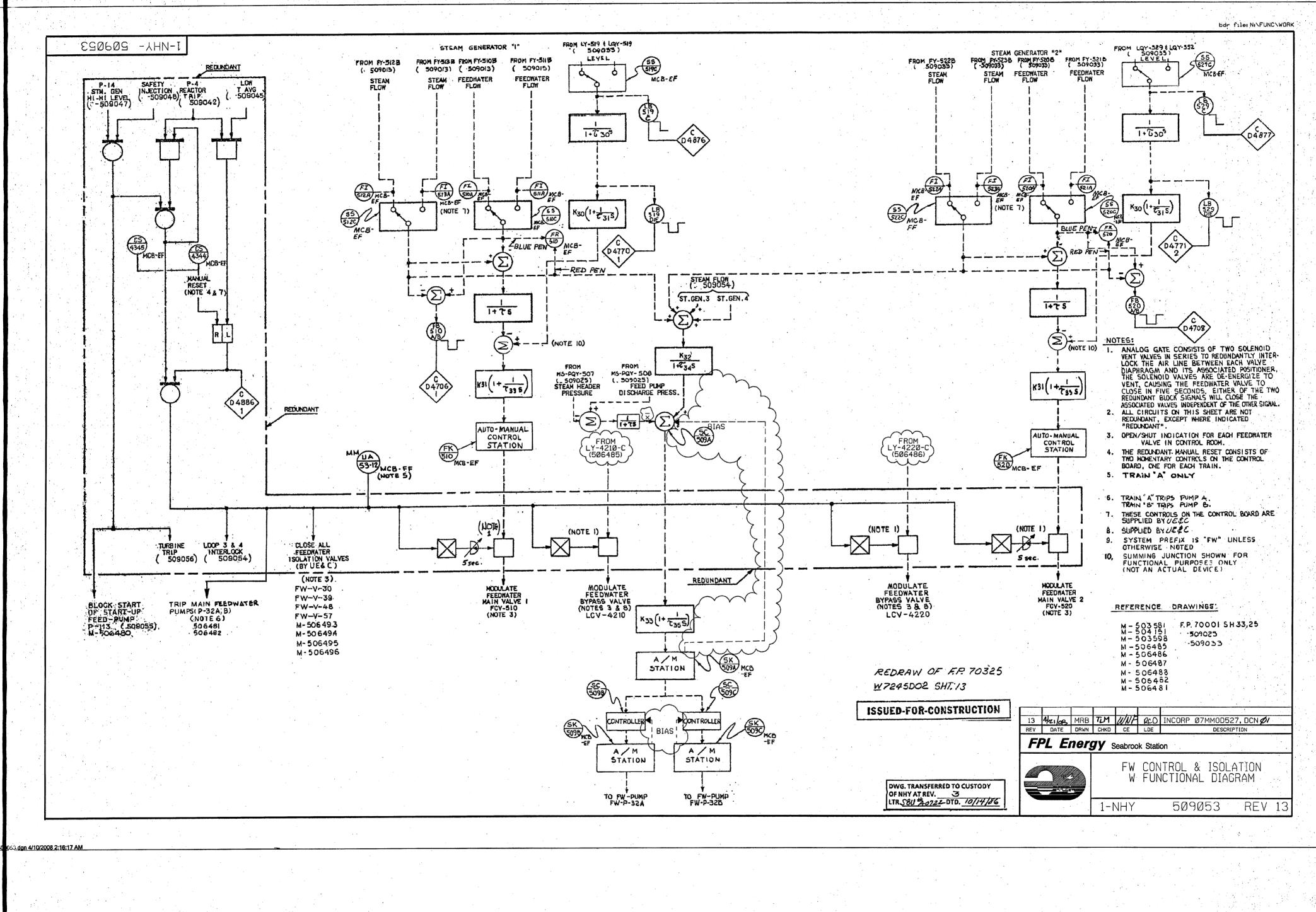
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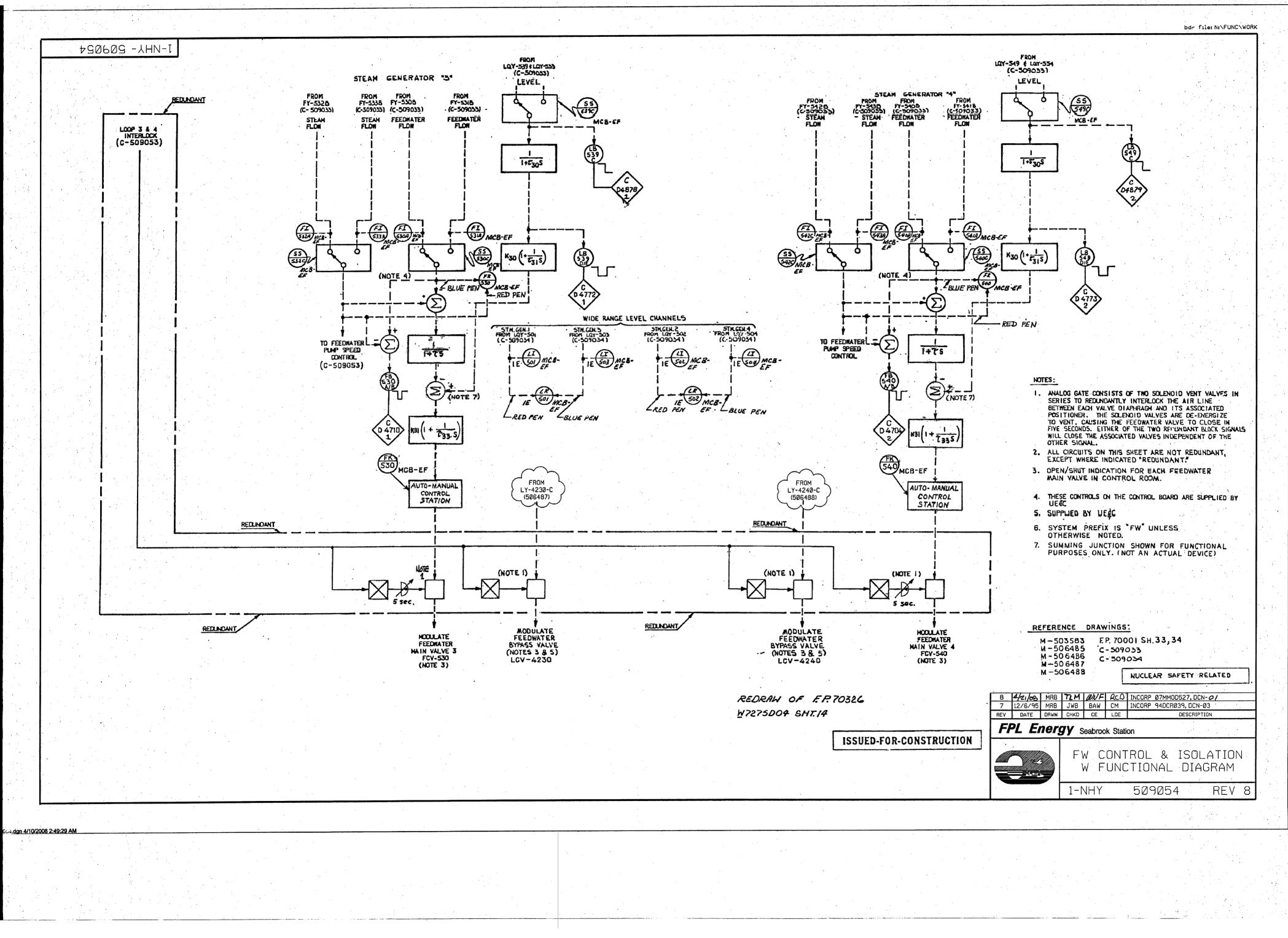
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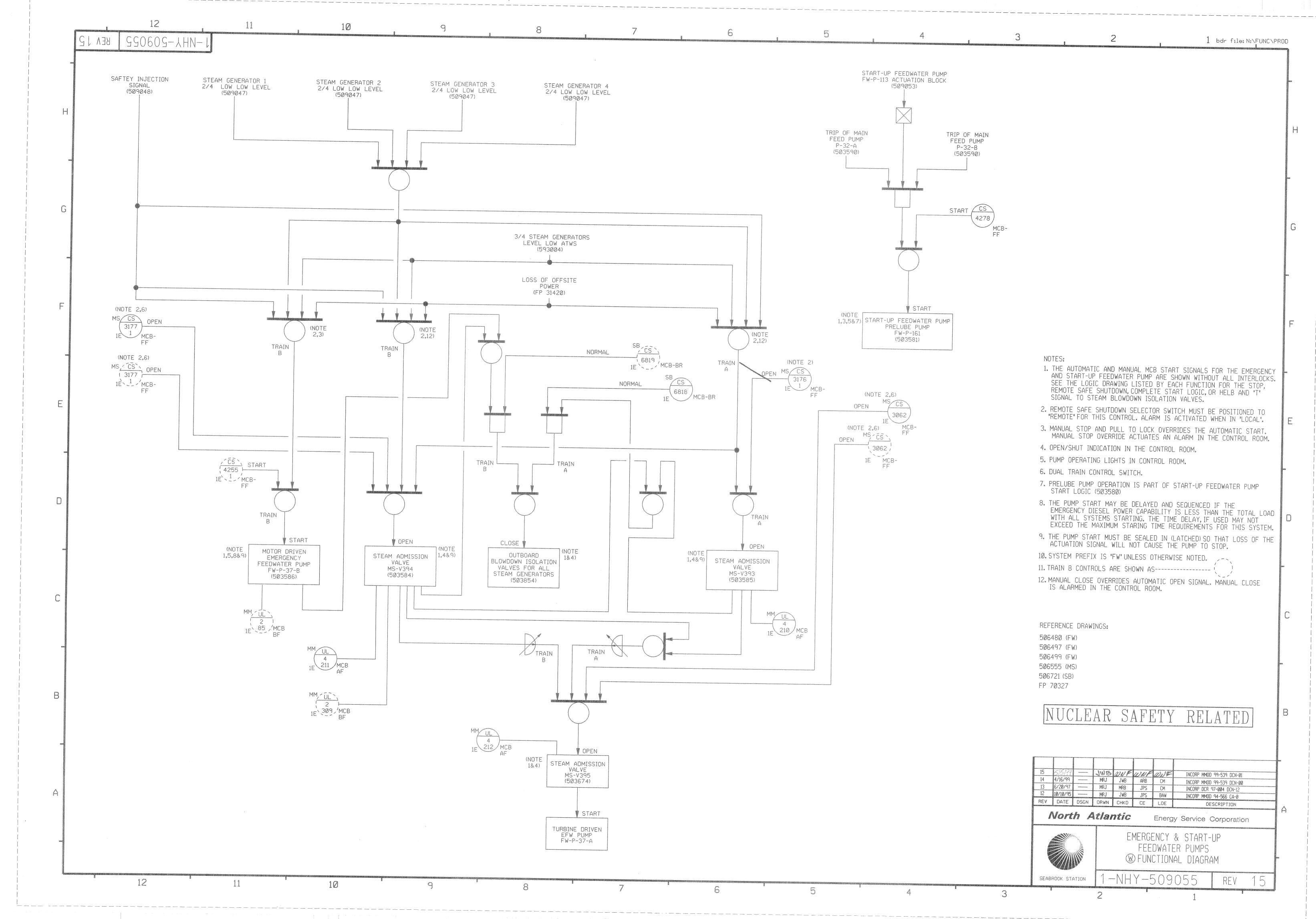
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NOTES: 1. THE AUTOMATIC AND MANUAL MCB START SIGNALS FOR THE EMERGENCY AND START-UP FEEDWATER PUMP ARE SHOWN WITHOUT ALL INTERLOCKS. SEE THE LOGIC DRAWING LISTED BY EACH FUNCTION FOR THE STOP, REMOTE SAFE SHUTDOWN, COMPLETE START LOGIC, OR HELB AND "T" SIGNAL TO STEAM BLOWDOWN ISOLATION VALVES. 2. REMOTE SAFE SHUTDOWN SELECTOR SWITCH MUST BE POSITIONED TO	Same
<ul> <li>*REMUTE"FOR THIS CONTROL. ALARM IS ACTIVATED WHEN IN "LOCAL".</li> <li>3. MANUAL STOP AND PULL TO LOCK OVERRIDES THE AUTOMATIC START. MANUAL STOP OVERRIDE ACTUATES AN ALARM IN THE CONTROL ROOM.</li> <li>4. OPEN/SHUT INDICATION IN THE CONTROL ROOM.</li> <li>5. PUMP OPERATING LIGHTS IN CONTROL ROOM.</li> </ul>	E
<ol> <li>6. DUAL TRAIN CONTROL SWITCH.</li> <li>7. PRELUBE PUMP OPERATION IS PART OF START-UP FEEDWATER PUMP START LOGIC (503580)</li> <li>8. THE PUMP START MAY BE DELAYED AND SEQUENCED IF THE EMERGENCY DIESEL POWER CAPABILITY IS LESS THAN THE TOTAL LOAD WITH ALL SYSTEMS STARTING. THE TIME DELAY, IF USED MAY NOT</li> </ol>	
<ul> <li>9. THE PUMP START MUST BE SEALED IN (LATCHED) SO THAT LOSS OF THE ACTUATION SIGNAL WILL NOT CAUSE THE PUMP TO STOP.</li> <li>10. SYSTEM PREFIX IS "FW" UNLESS OTHERWISE NOTED.</li> <li>11. TRAIN B CONTROLS ARE SHOWN AS</li></ul>	
12. MANUAL CLOSE OVERRIDES AUTOMATIC OPEN SIGNAL. MANUAL CLOSE IS ALARMED IN THE CONTROL ROOM.	C
REFERENCE DRAWINGS: 506480 (FW) 506497 (FW) 506555 (MS) 506721 (SB) FP 70327	0253
NUCLEAR SAFETY RELATED	В
15       5/5/99       JWB       JWF       JWF       INCORP       MND       99-539       DCN-Ø1         14       4/16/99       MRJ       JWB       ARB       CM       INCORP       MMOD       99-539       DCN-Ø1         13       6/20/97       MRJ       MRB       JPS       CM       INCORP       DCN-Ø2         12       10/10/95       MRJ       JWB       JPS       BAW       INCORP       MMDD       94-566       CA.Ø	8
REV     DATE     DSGN     DRWN     CHKD     CE     LDE     DESCRIPTION       North     Atlantic     Energy     Service     Corporation	A
EMERGENCY & START-UP FEEDWATER PUMPS © FUNCTIONAL DIAGRAM	
SEABROOK STATION 1-NHY-509055 REV 15	

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