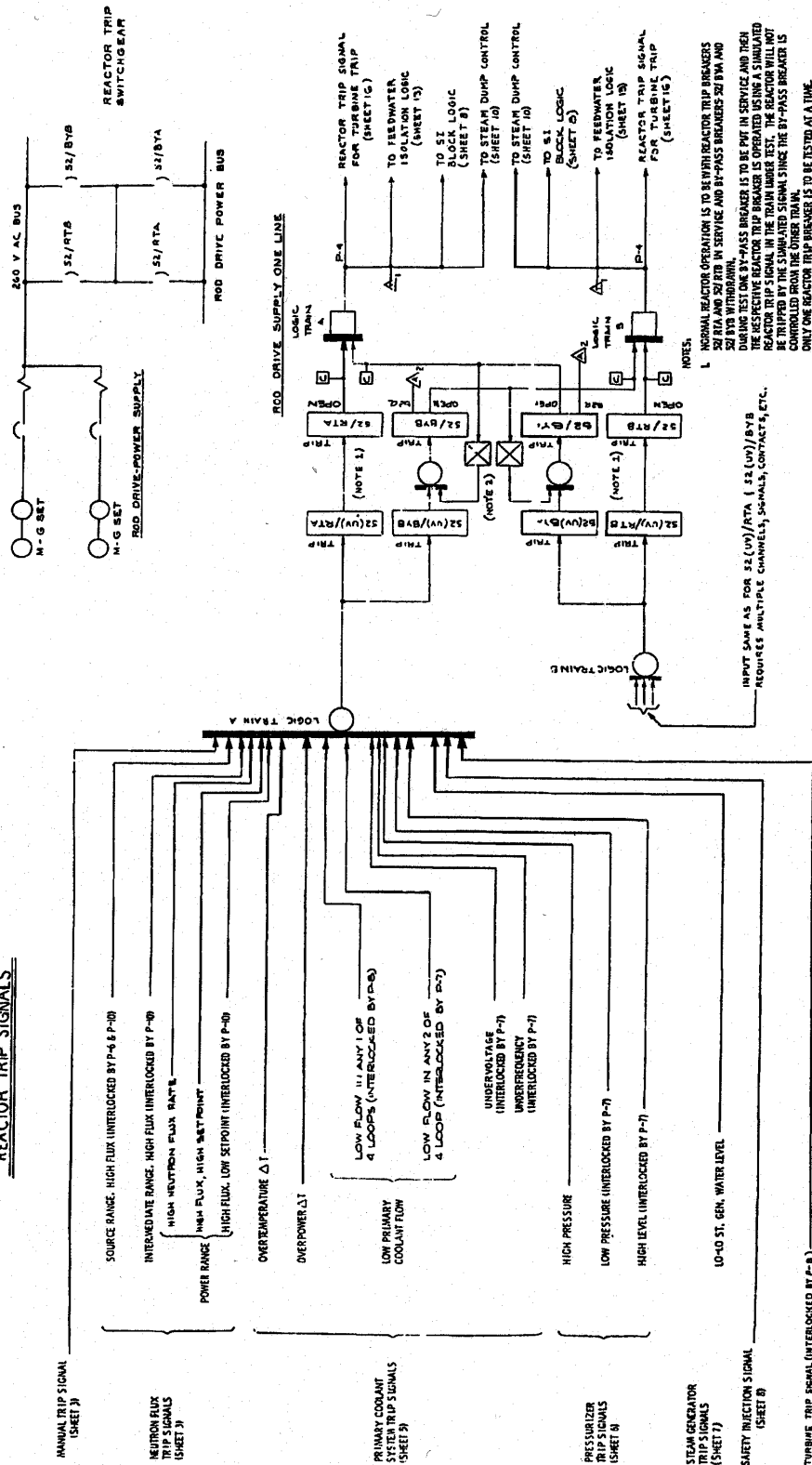


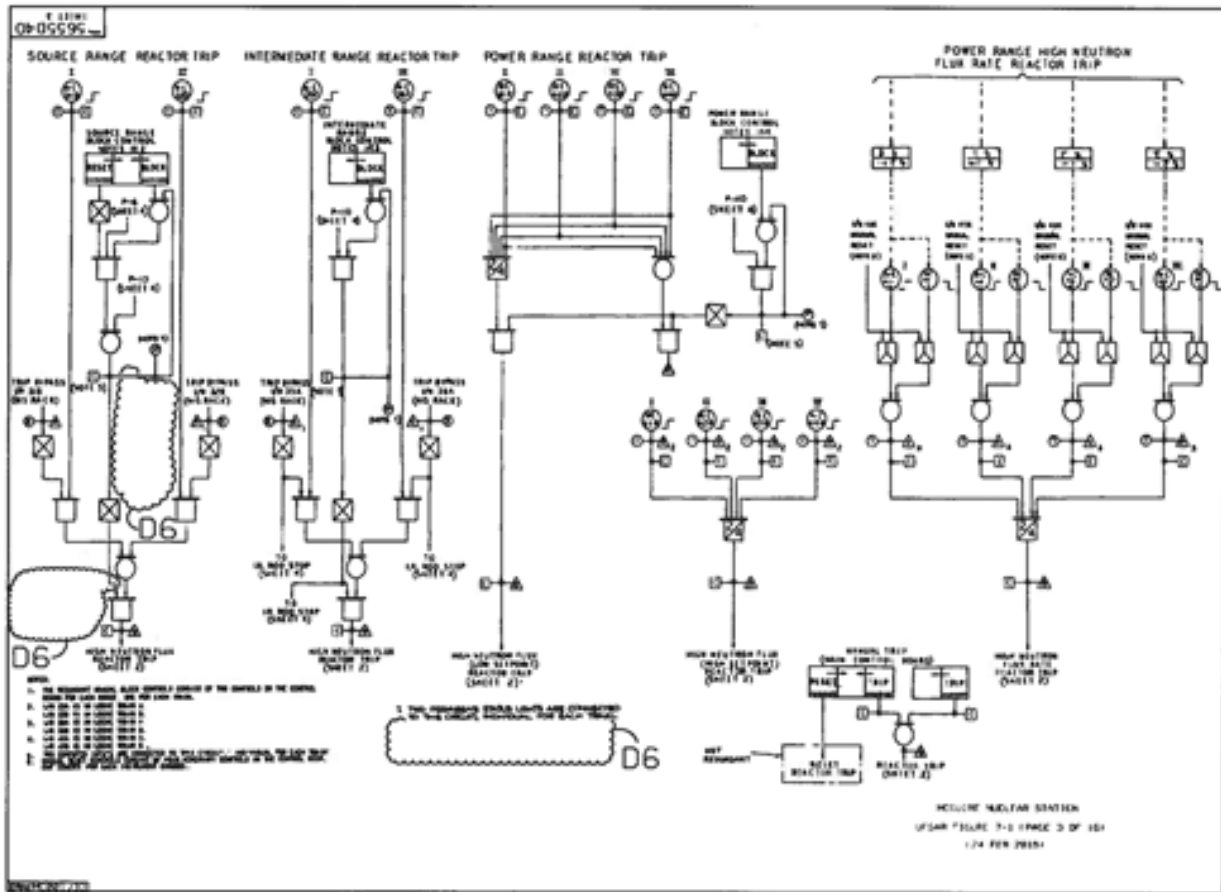
Appendix 7B. Figures

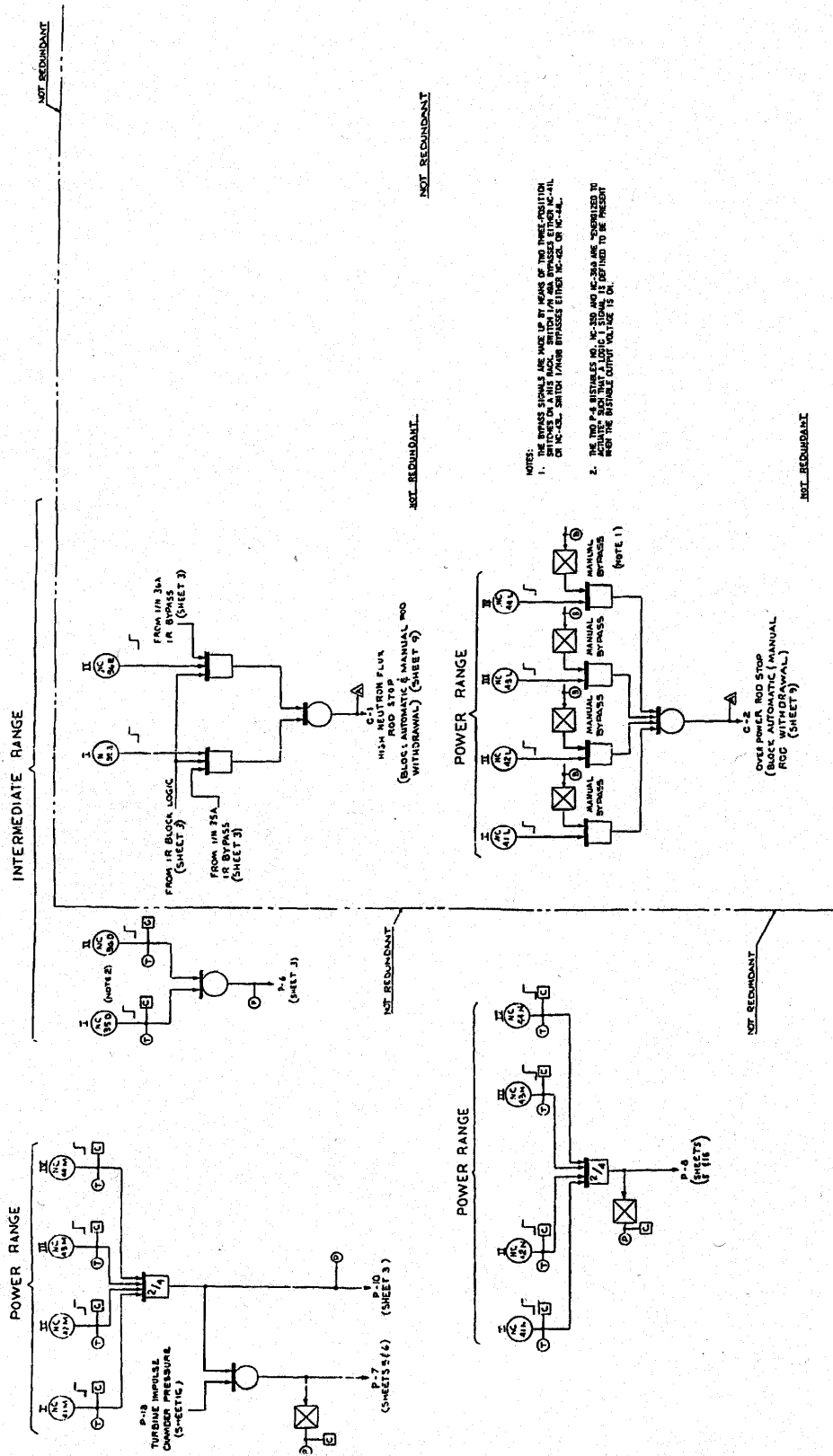
REACTOR TRIP SIGNALS

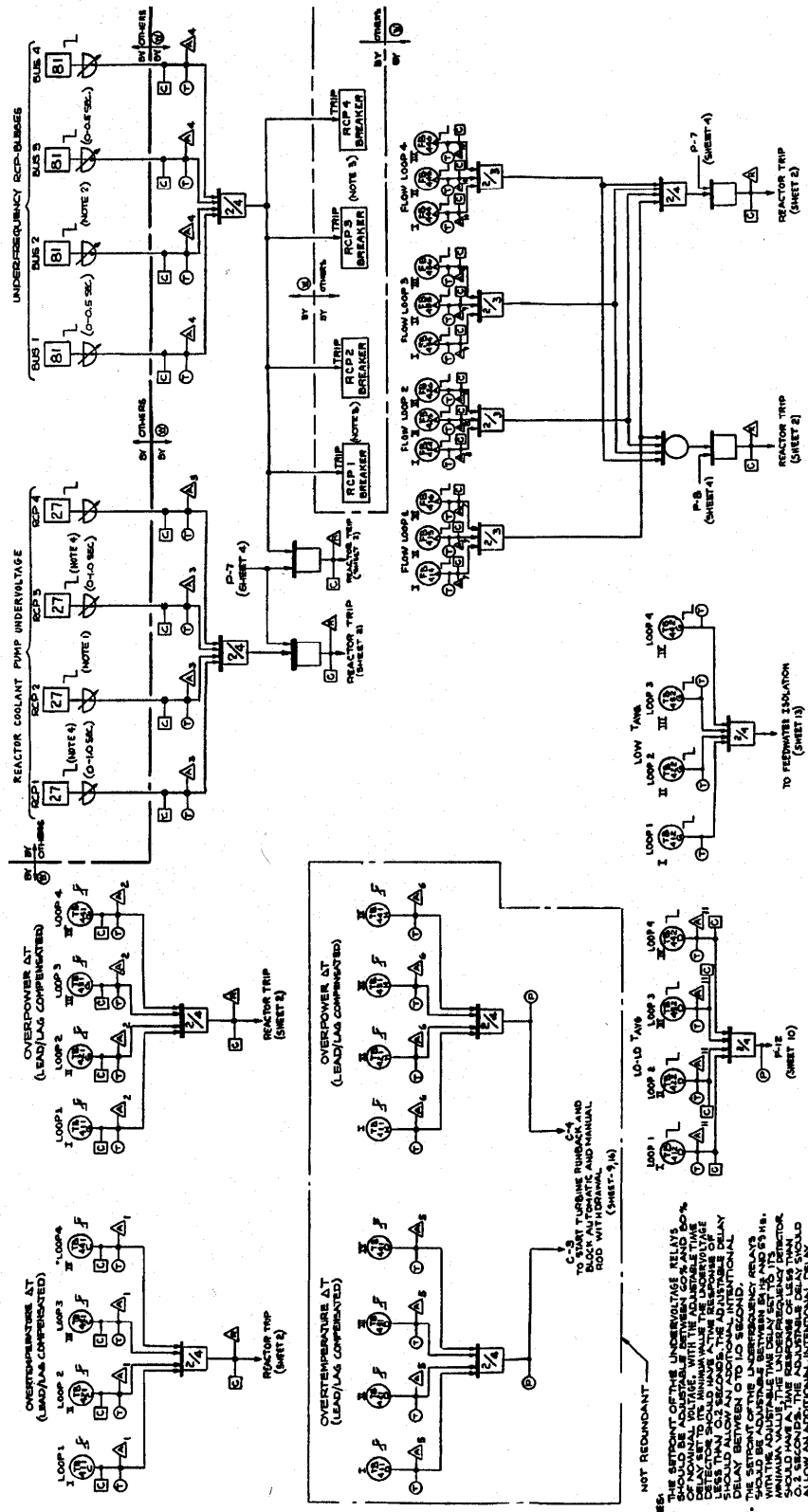


NOTES:
 1. NORMAL REACTOR OPERATION IS TO BE WITH REACTOR TRIP BREAKERS 52 RTA AND 52 RTB IN SERVICE AND BY-PASS BREAKERS 52 BYA AND 52 BYB WITHDRAWN. THE BY-PASS BREAKER IS TO BE PUT IN SERVICE AND THEN THE REACTOR TRIP SIGNAL IN THE TRIP CHANNEL BEING SUPPLIED. THE REACTOR TRIP SIGNAL IN THE TRIP CHANNEL WILL NOT BE TRIPPED BY THE SUPPLIED SIGNALS SINCE THE BY-PASS BREAKER IS CONTROLLED FROM THE OTHER TRAIL.
 2. ONLY ONE REACTOR TRIP BREAKER IS TO BE TESTED AT A TIME. THE OTHER REACTOR TRIP BREAKER MUST BE IN THE OPEN POSITION.
 3. ALL CIRCUITS ON THIS SHEET ARE NOT REDUNDANT BECAUSE BOTH TRAILS ARE SHOWN.

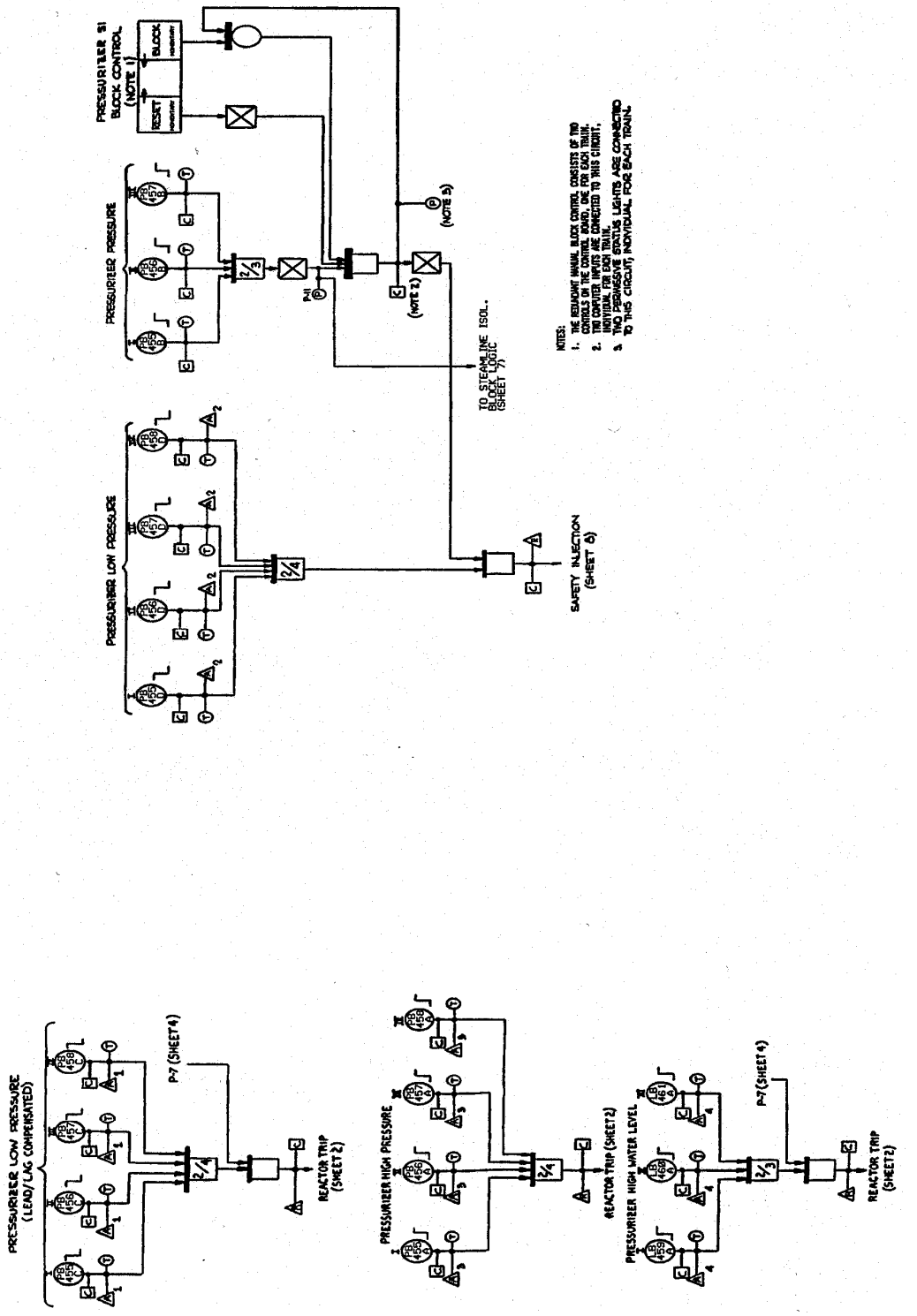
INPUT SAME AS FOR 52(V)/RTA (52(V)/BYB)
 REQUIRES MULTIPLE CHANNELS, SIGNALS, CONTACTS, ETC.

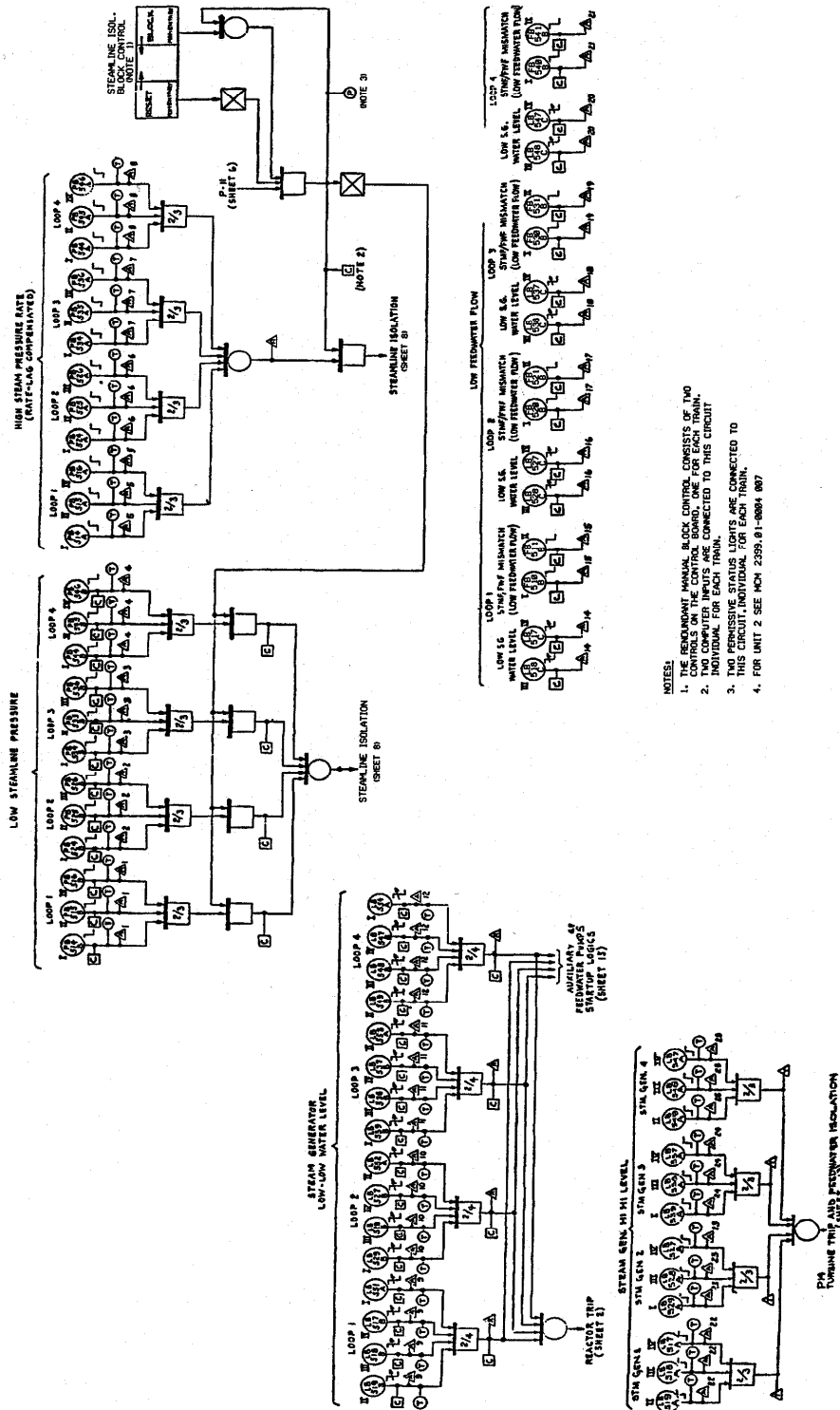






- NOT REDUNDANT
1. THE SETPOINT OF THE UNDERVOLTAGE RELAYS IS 85% OF NOMINAL VOLTAGE. WITH THE ADJUSTABLE TIME DELAY SET TO ITS MINIMUM VALUE THE UNDERVOLTAGE DELAY IS 0.2 SECONDS. THE ADJUSTABLE DELAY BETWEEN CTD TO SECOND.
 2. THE SETPOINT OF THE UNDERFREQUENCY RELAYS WITH THE ADJUSTABLE TIME DELAY SET TO ITS MINIMUM VALUE IS 59.5 HZ. WITH THE ADJUSTABLE DELAY SET TO ITS MINIMUM VALUE THE UNDERFREQUENCY DELAY IS 0.1 SECONDS. THE ADJUSTABLE DELAY SHOULD ALLOW AN ADDITIONAL 0.2 SECONDS INTERLOCK DELAY BETWEEN CTD TO SECOND.
 3. THE MAXIMUM ALLOWABLE RCP BREAKER TRIP TIME DELAY IS 0.1 SECONDS.
 4. WHEN THE VOLTAGE SENSORS (VENTILATION TRANSFORMERS) BREAKERS TO DETECT THE TRIP OF THE RCP CIRCUIT BREAKERS IN ADDITION TO BUS UNDERVOLTAGE.

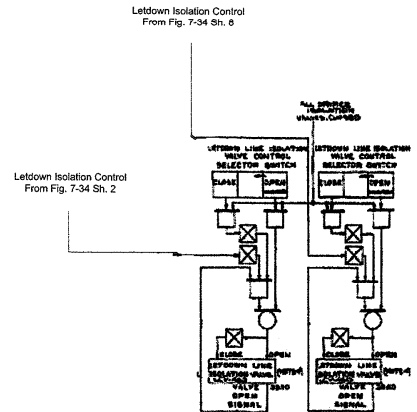
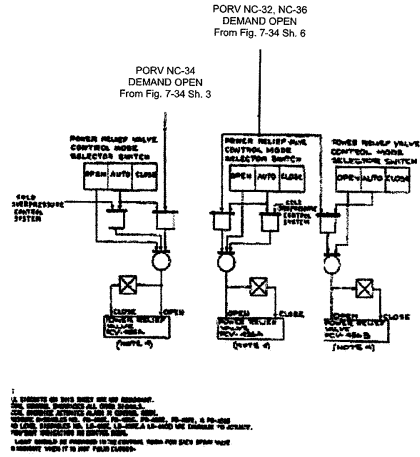


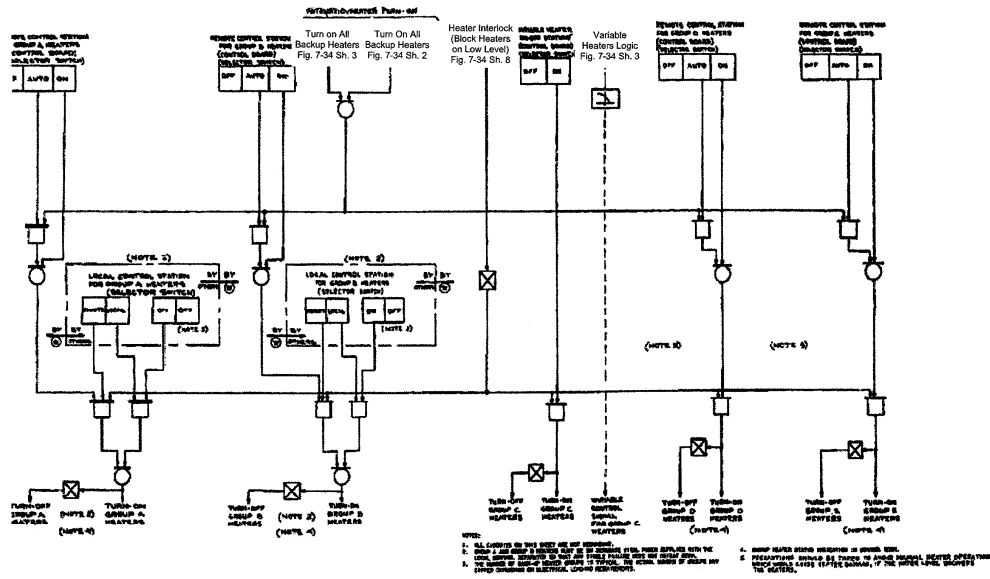


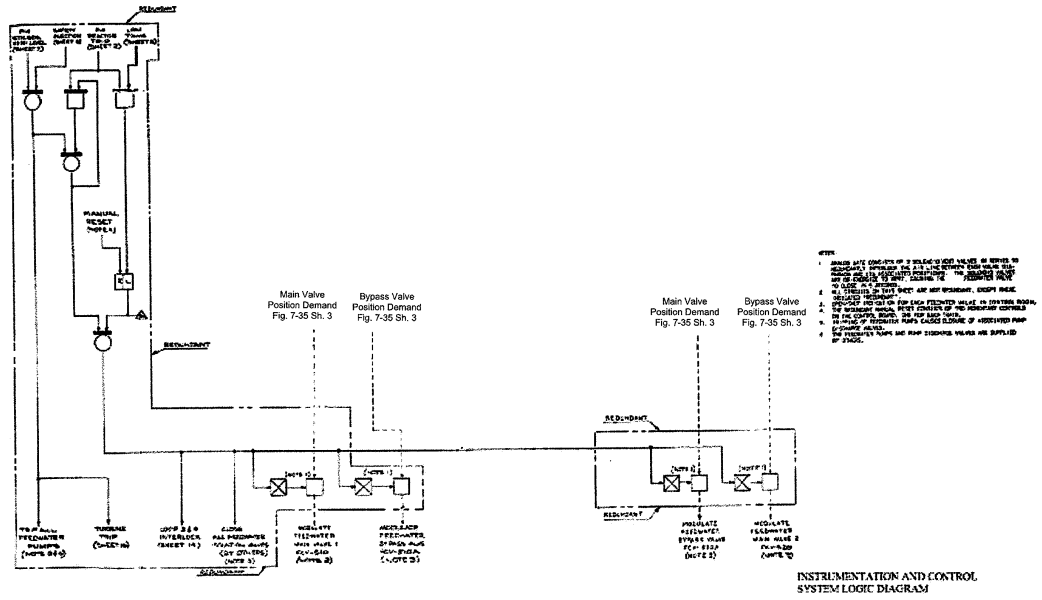
- NOTES:
1. THE REDUNDANT MANUAL BLOCK CONTROL CONSISTS OF TWO CONTROLS ON THE CONTROL BOARD, ONE FOR EACH TRAIN.
 2. THE REDUNDANT MANUAL BLOCK CONTROL IS CONNECTED TO THIS CIRCUIT, INDIVIDUAL FOR EACH TRAIN.
 3. TWO PERMISSIVE STATUS LIGHTS ARE CONNECTED TO THIS CIRCUIT, INDIVIDUAL FOR EACH TRAIN.
 4. FOR UNIT 2 SEE MCH 2359.01-0004 107

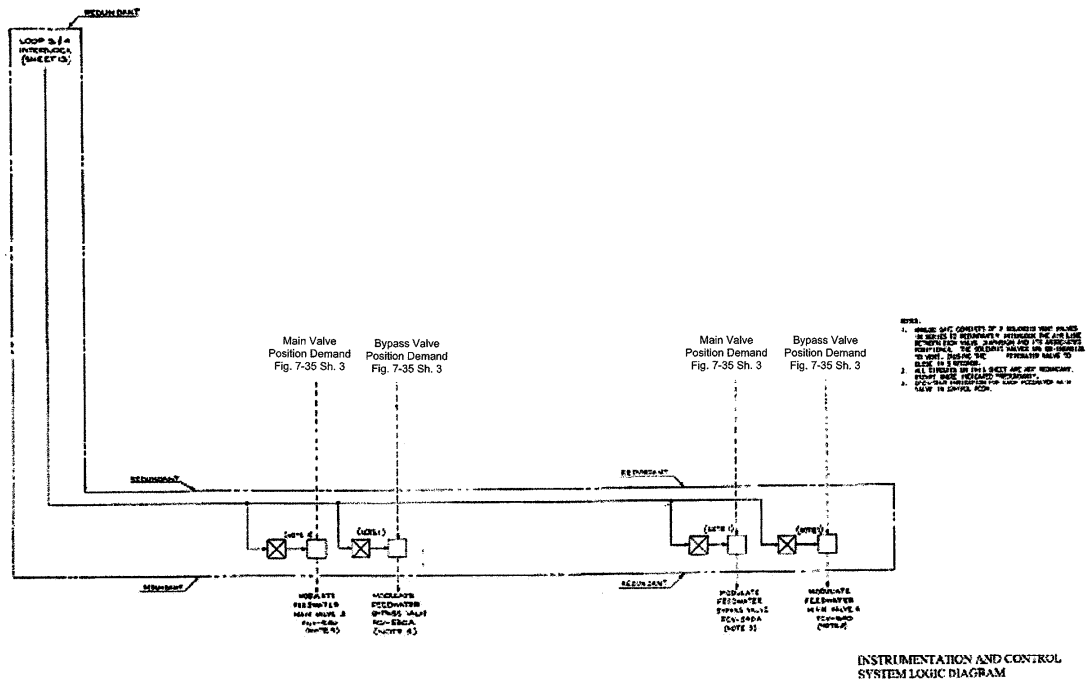
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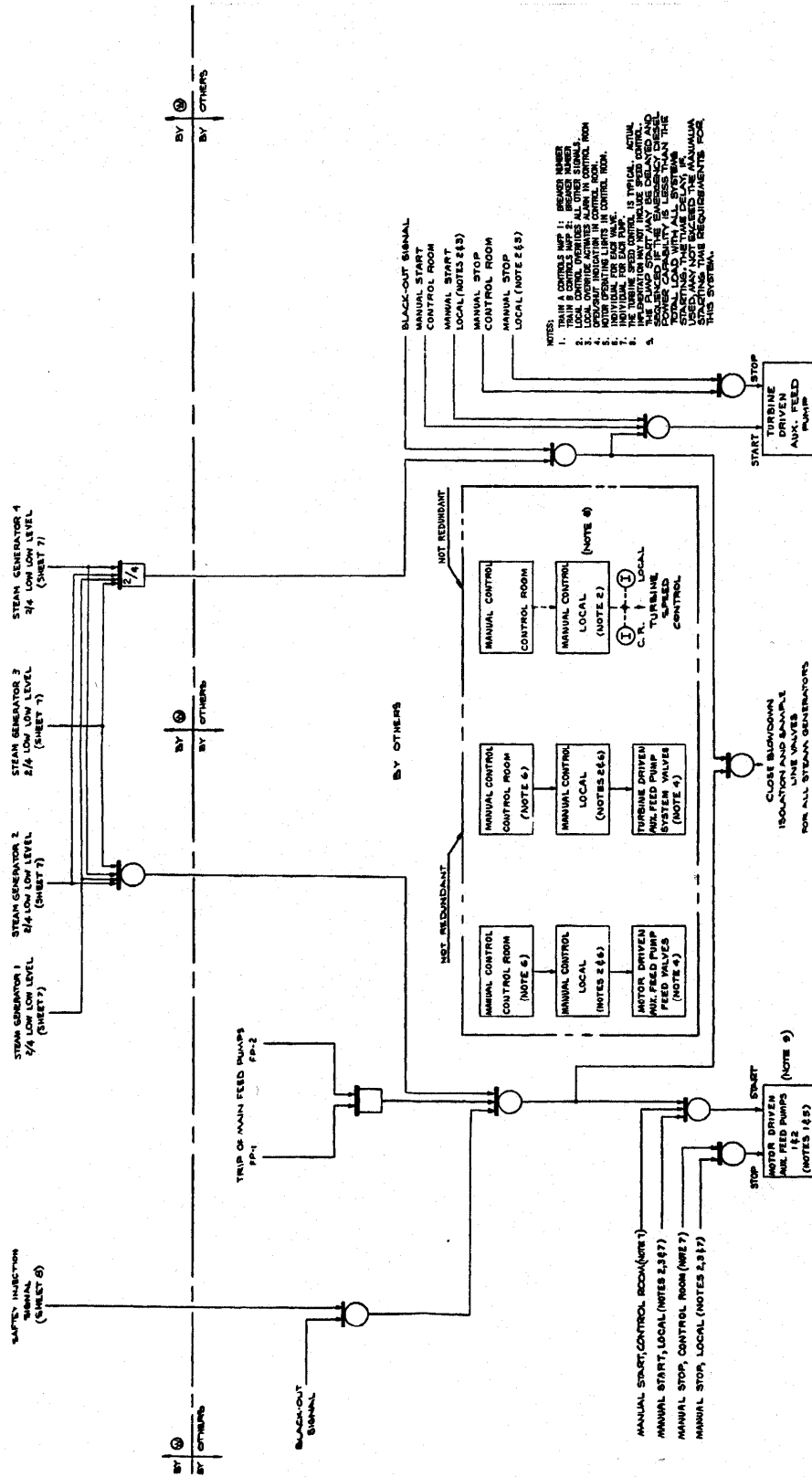
Deleted Per 2011 Update











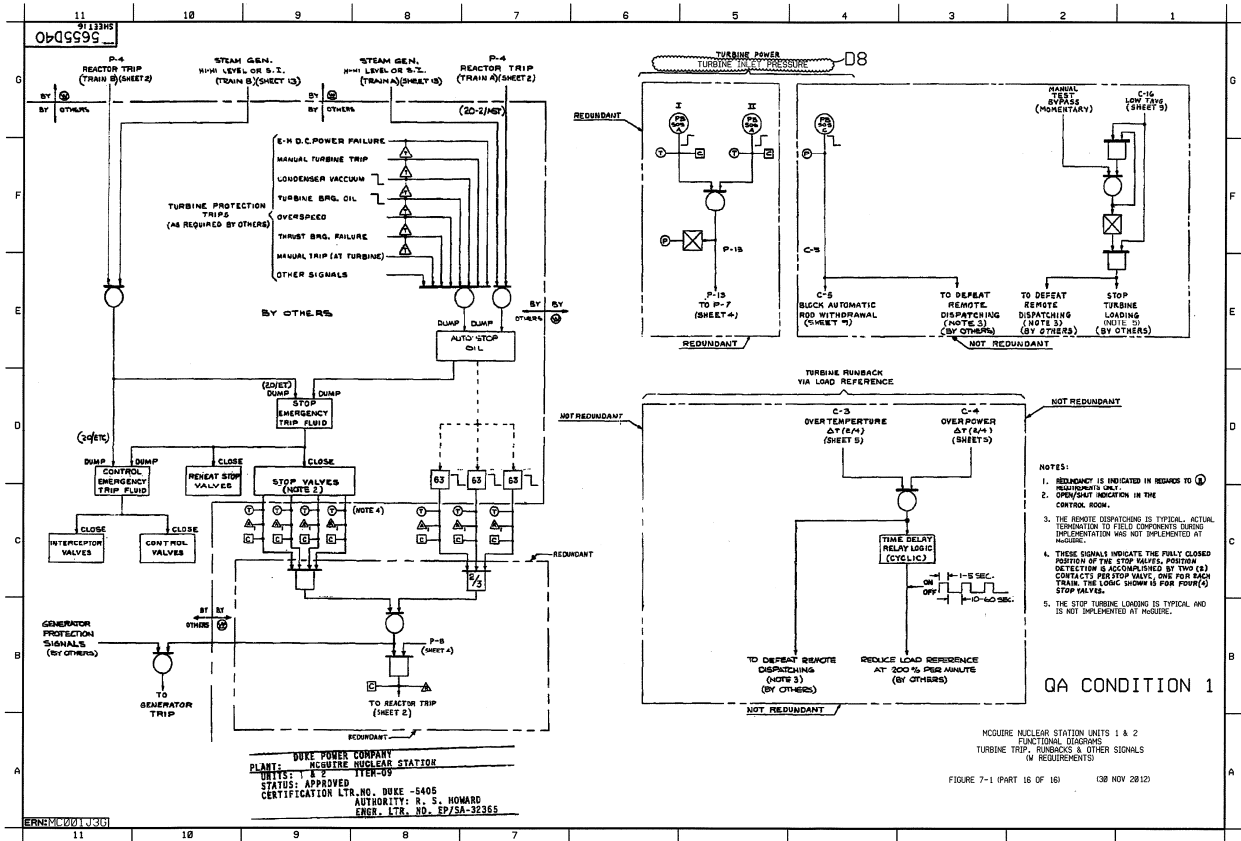
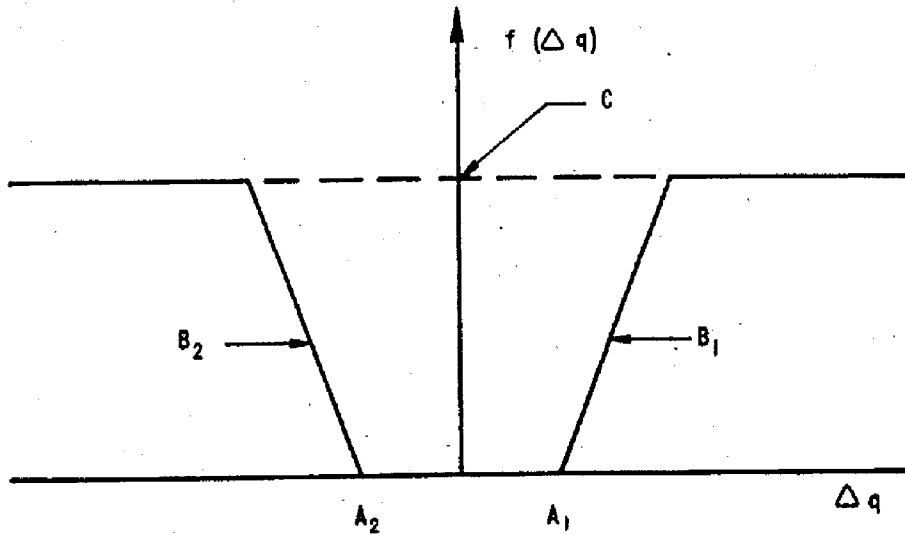


Figure 7-2. Setpoint Reduction Function for Overpower and Overtemperature Δ Trips

- Δq - NEUTRON FLUX DIFFERENCE BETWEEN UPPER AND LOWER LCHG
ION CHAMBERS
- A_1, A_2 - LIMIT OF $f(\Delta q)$ DEADBAND
- B_1, B_2 - SLOPE OF RAMP; DETERMINES RATE AT WHICH FUNCTION
REACHES IT'S MAXIMUM VALUE ONCE DEADBAND IS EXCEEDED
- C - MAGNITUDE OF MAXIMUM VALUE THE FUNCTION MAY ATTAIN

Figure 7-3. Typical Illustration of High ΔT Trip. (ΔT °F T_{AVG})

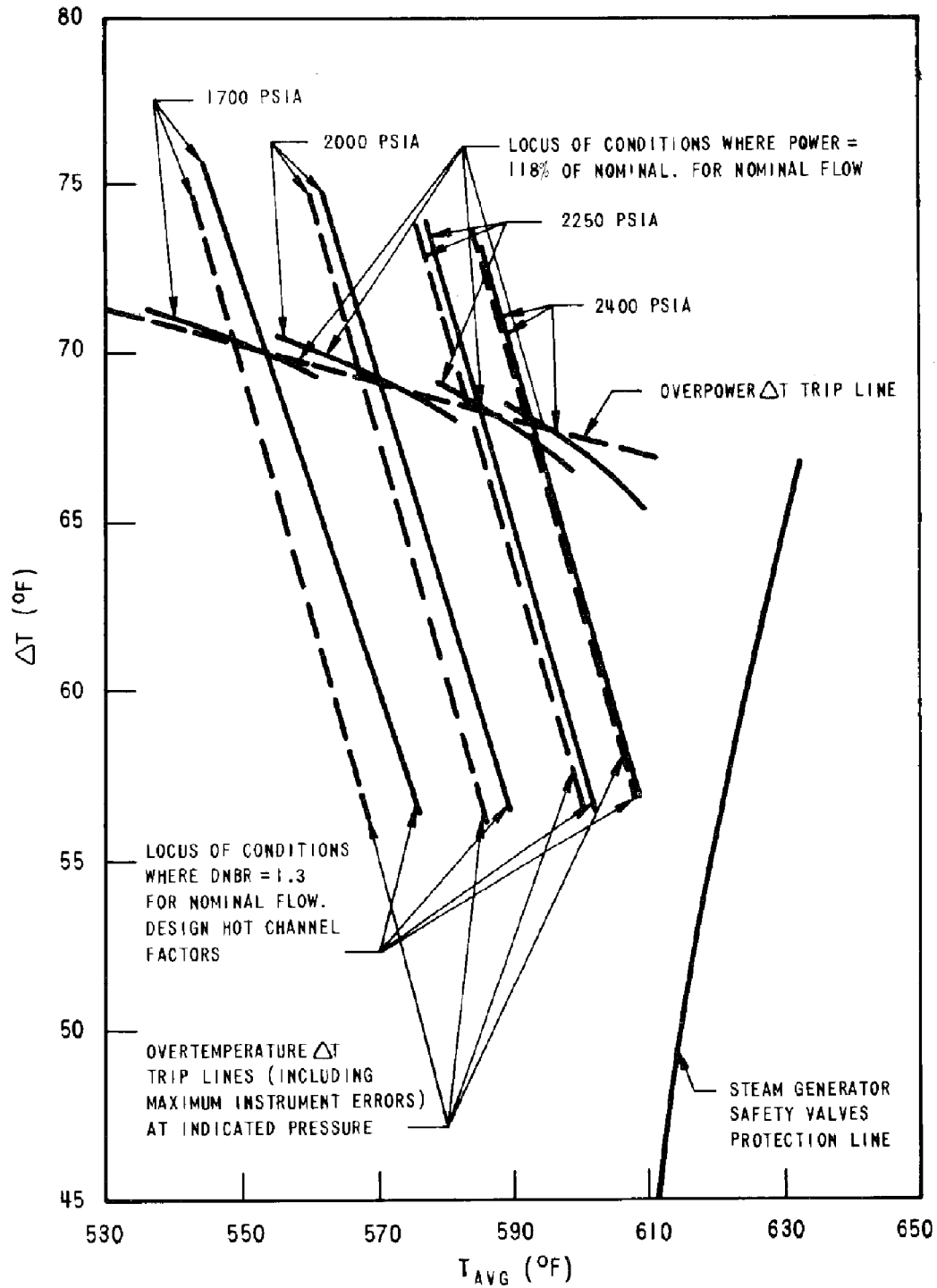


Figure 7-4. Design to Achieve Isolation Between Channels

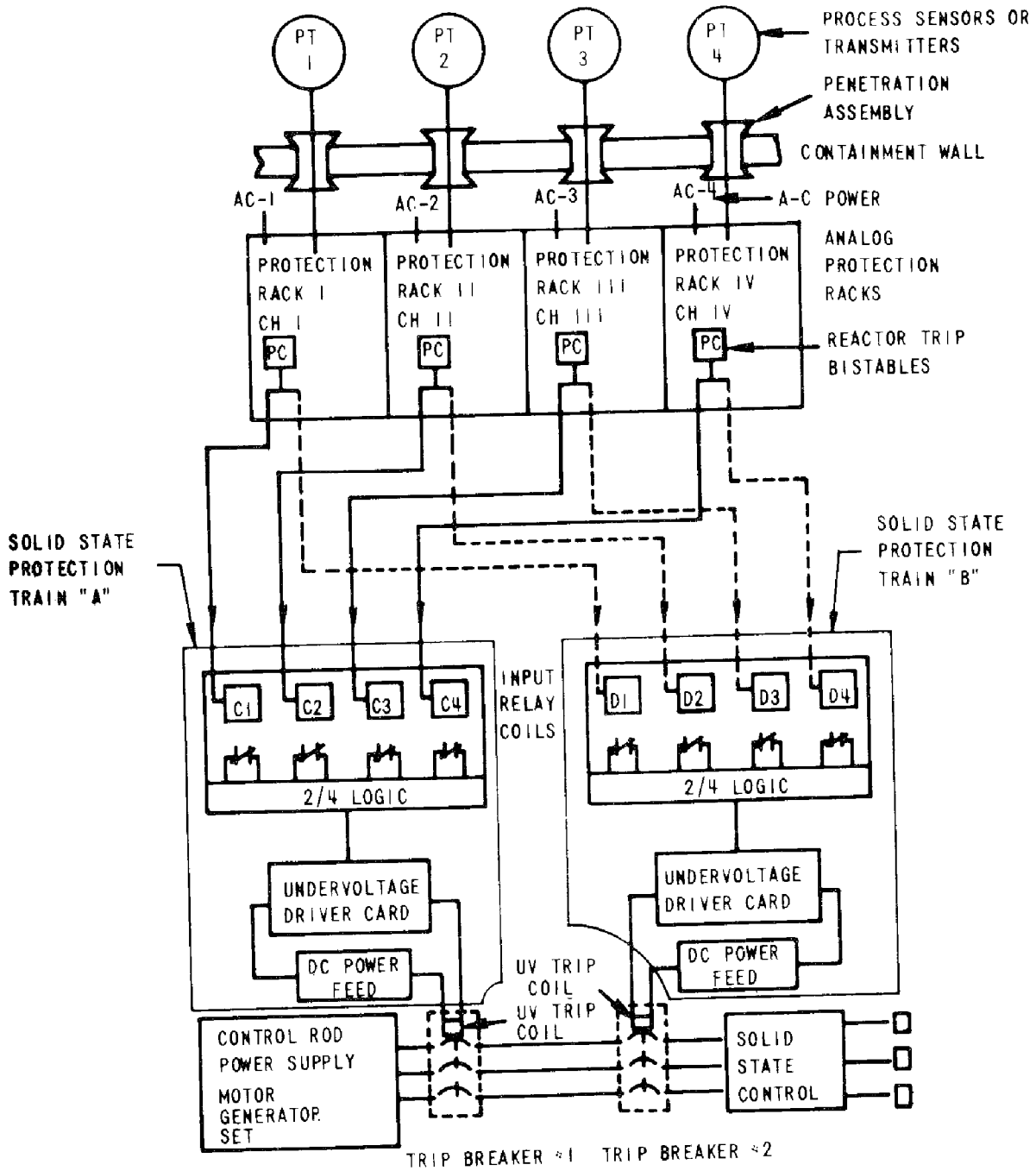
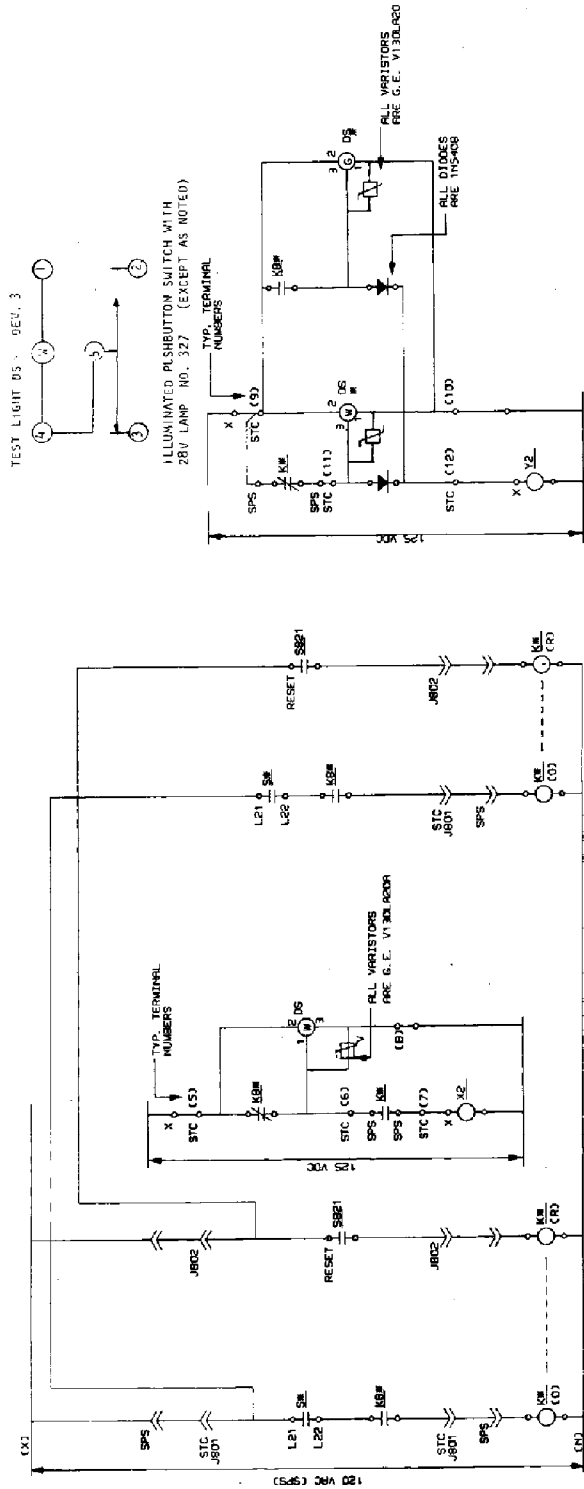


Figure 7-5. Engineered Safeguards Test Cabinet-Index, Notes and Legend



DETAIL A TYPICAL PROTECTION ACTIVATION CIRCUIT BLOCKING SCHEMES (CONTACT CLOSURE FOR ACTIVATION)

DETAIL B TYPICAL PROTECTION ACTIVATION CIRCUIT BLOCKING SCHEMES (CONTACT OPENING FOR ACTIVATION)

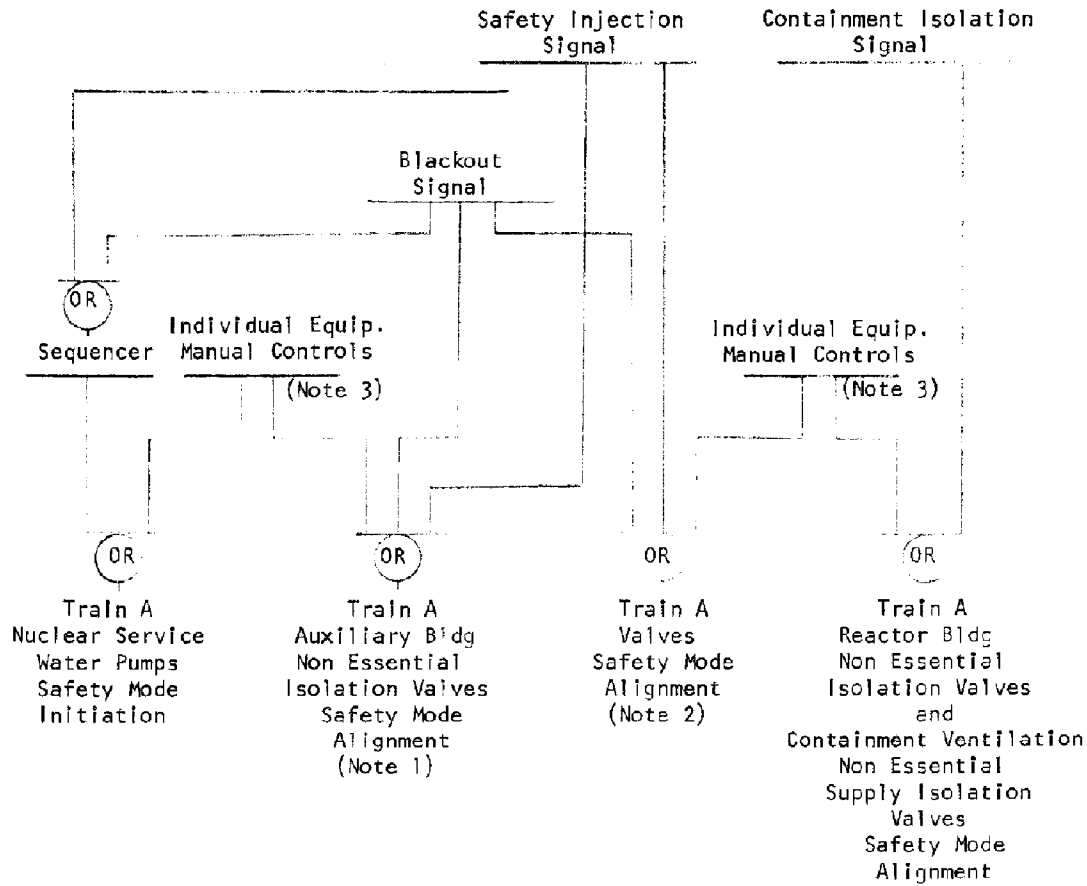
GENERAL NOTES:

1. IN DETAILS A, B, THE SYMBOL REPRESENTS THE SUFFIX NUMBERS OF THE DEVICE REFERENCED.
 EXAMPLE:
 K1 - SPS RELAY, K601, K602, ETC.
 K(1) - OPERATING COIL
 K(1) - RESET COIL
 S8 - STC TEST SWITCH, S802, S834, ETC.
 K81 - STC RELAY, K811, K817, ETC.
 DS2 - STC LIGHT, DS8009, DS8077, ETC.

2. LOCATION LEGEND

- SPS - SOLID STATE PROTECTION SYSTEM
- STC - SAFEGUARDS TEST CABINET
- X - SPS, M.C., AUXILIARY RELAY BACK, ETC.
- ASC - AUXILIARY SAFEGUARDS CABINET

Figure 7-6. Logic Diagram Nuclear Service Water System



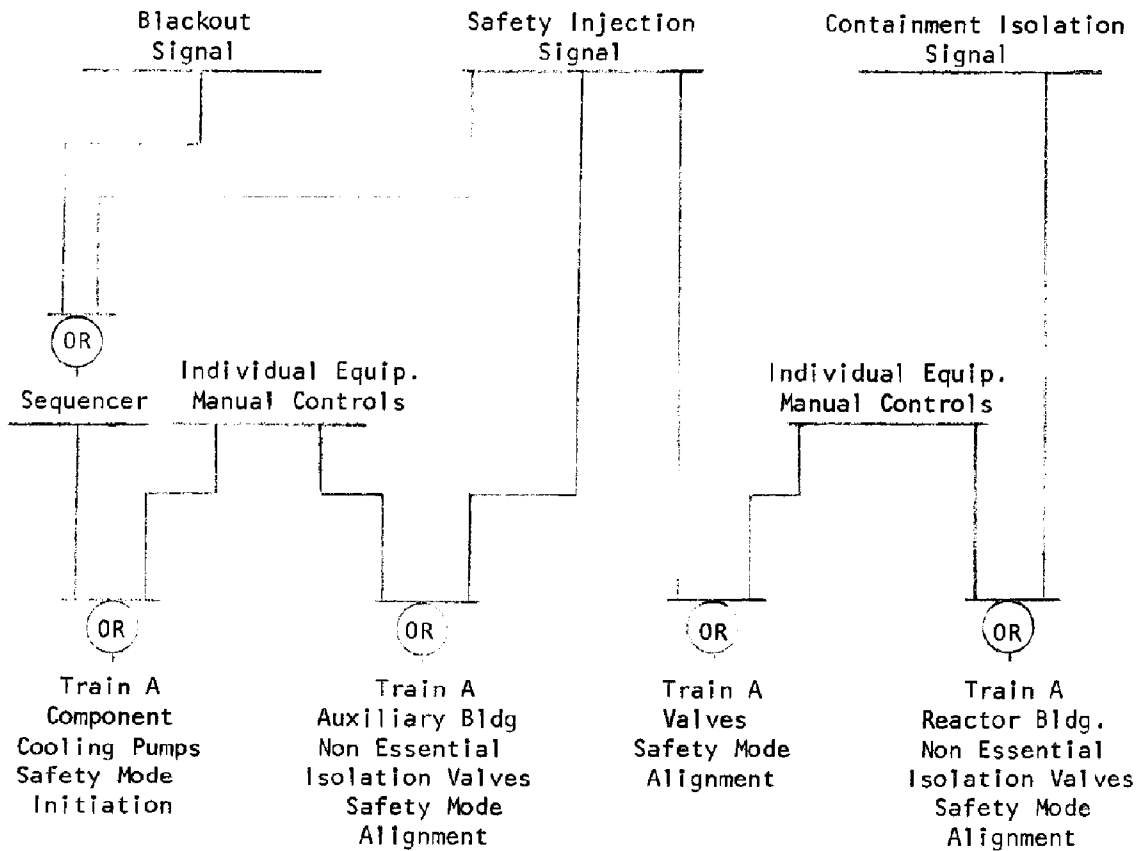
(Train B Similar)

Note 1 - Auxiliary Bldg. Supply Isolation valve does not receive blackout signal in order to supply cooling water to containment ventilation system during blackout.

Note 2 - Crossover valves do not receive blackout signal.

Note 3 - A separate manual control switch is provided for each pump and valve which receives a safety injection or containment isolation signal. Each such device is controlled independently of any others in the manual mode. Capability for simultaneous manual actuation of all devices by a single control switch is not provided or implied.

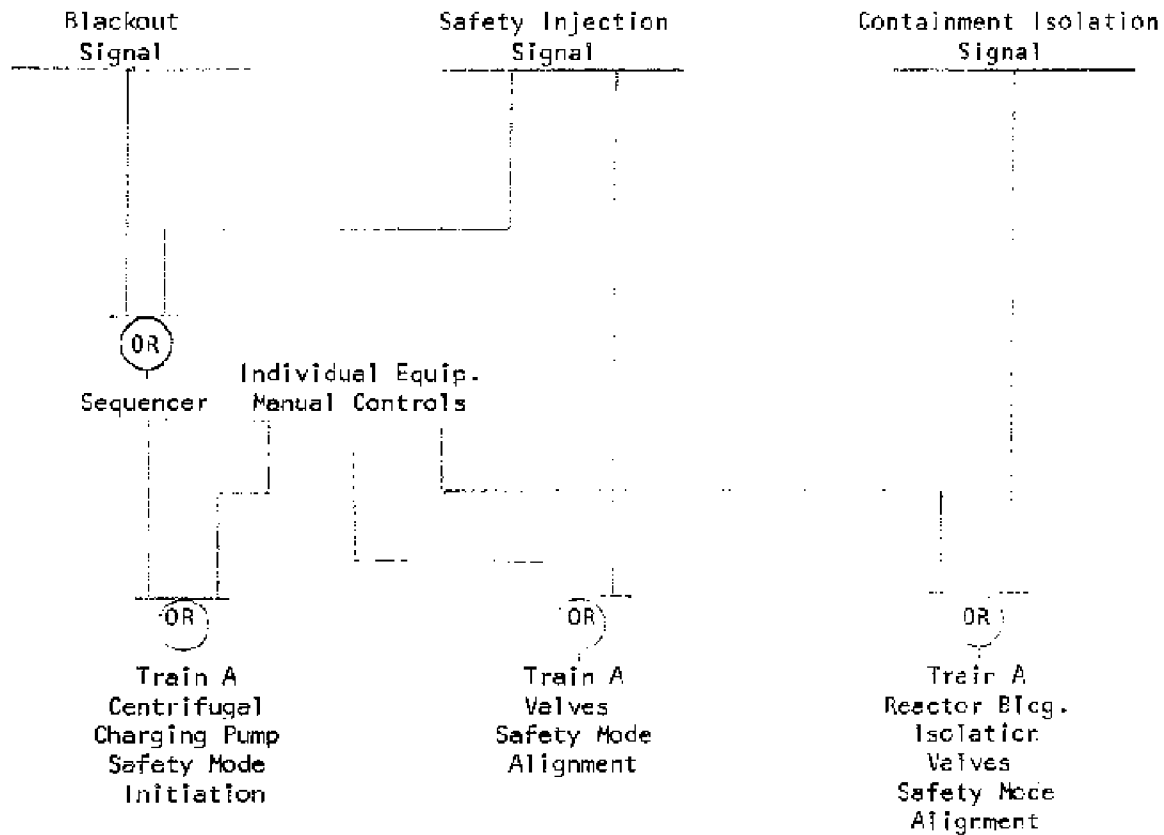
Figure 7-7. Logic Diagram Component Cooling Water System



(Train B Similar)

NOTE: A separate manual control switch is provided for each pump and valve which receives a safety injection or containment isolation signal. Each such device is controlled independently of any others in the manual mode. Capability for simultaneous manual actuation of all devices by a single control switch is not provided or implied.

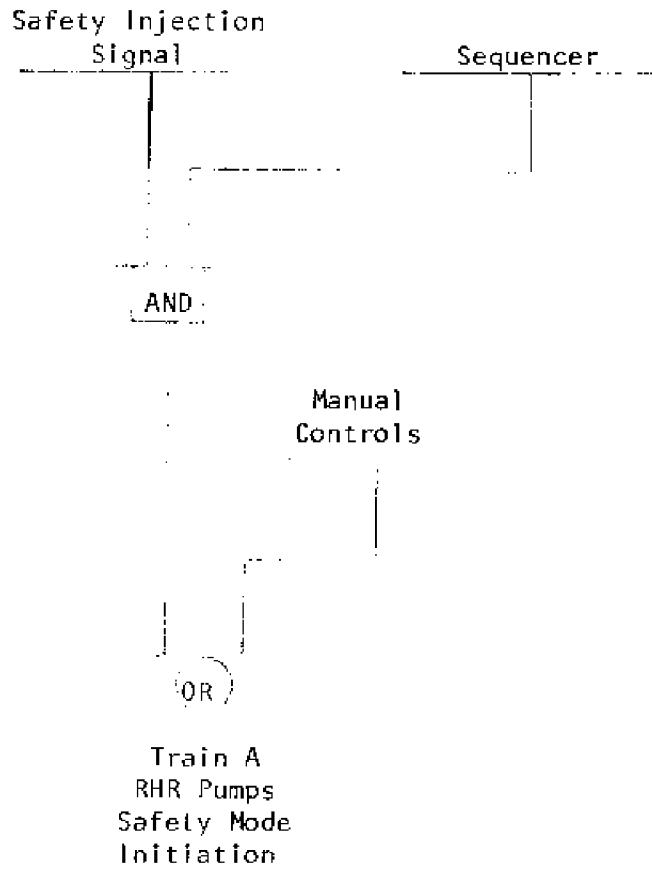
Figure 7-8. Logic Diagram Chemical and Volume Control System



(Train B Similar)

NOTE: A separate manual control switch is provided for each pump and valve which receives a safety injection or containment isolation signal. Each such device is controlled independently of any others in the manual mode. Capability for simultaneous manual actuation of all devices by a single control switch is not provided or implied.

Figure 7-9. Logic Diagram Residual Heat Removal System

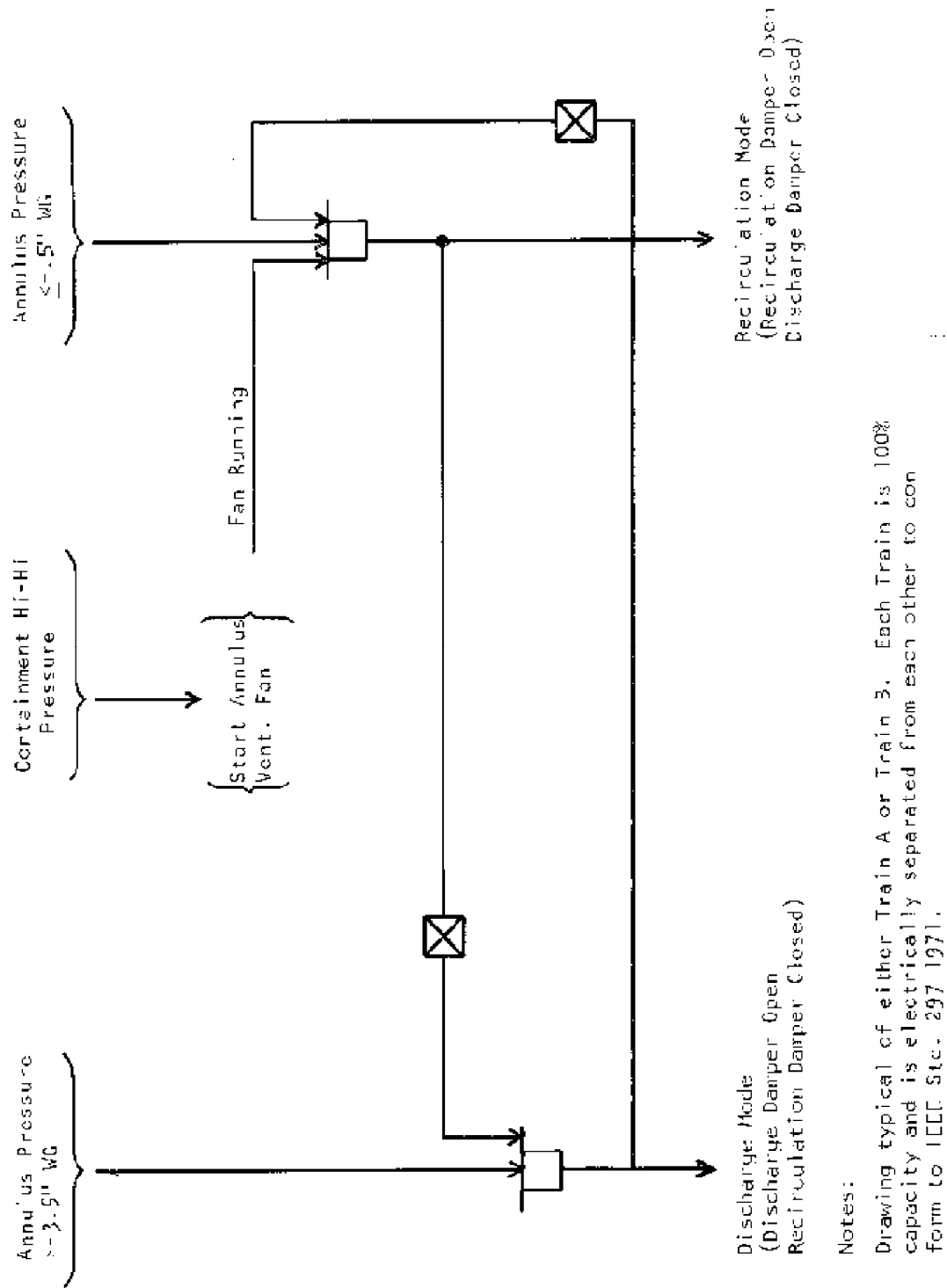


Train B (same)

Figure 7-10. Deleted Per 1996 Update

Figure 7-11. Deleted Per 1996 Update

Figure 7-12. Logic Diagram - Annulus Vent System



Notes:
 Drawing typical of either Train A or Train B. Each Train is 100% capacity and is electrically separated from each other to conform to IEEE Std. 297-1971.

Figure 7-13. Door Monitoring Zones

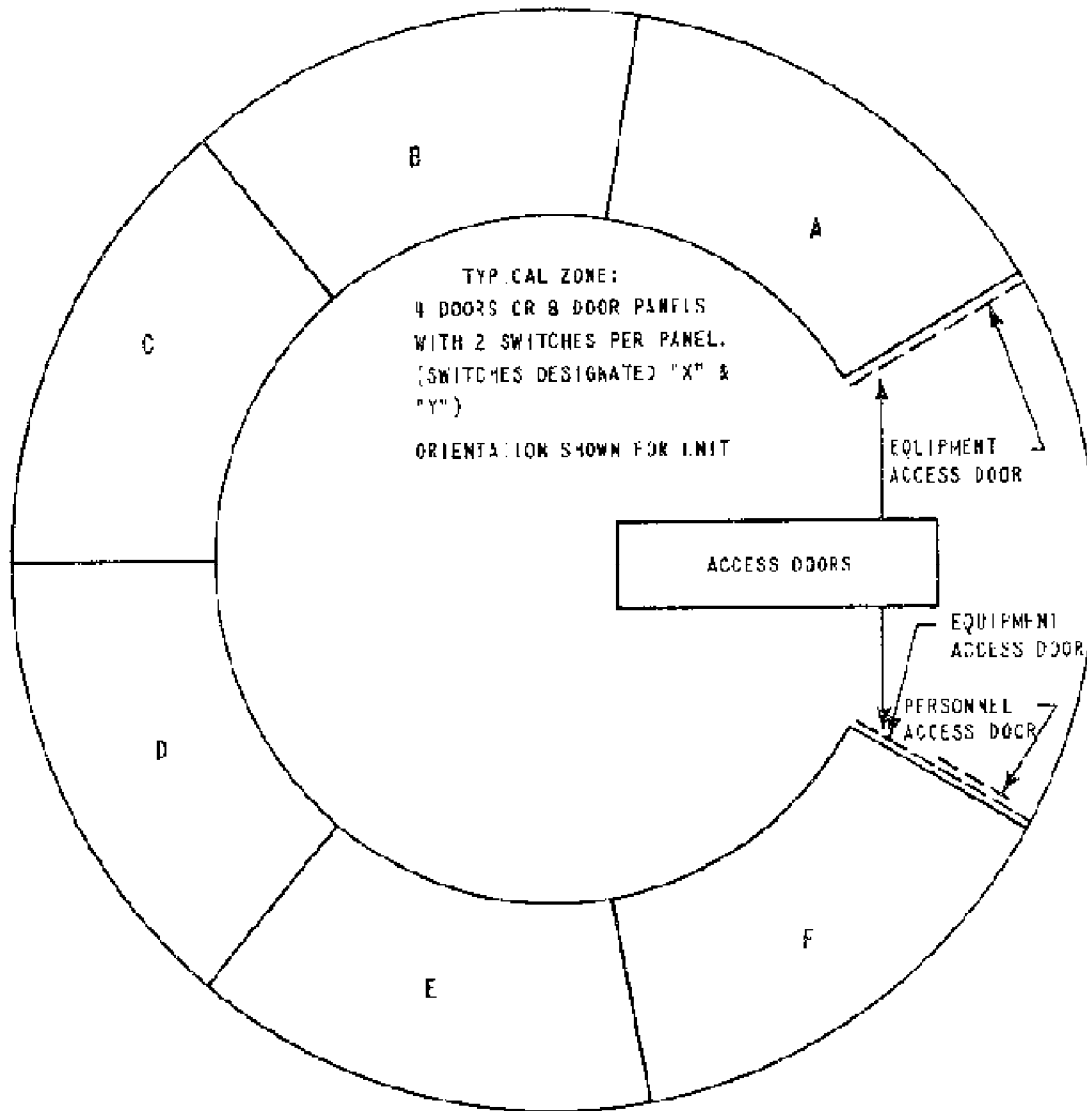


Figure 7-14. Logic Diagram - Lower Inlet Doors

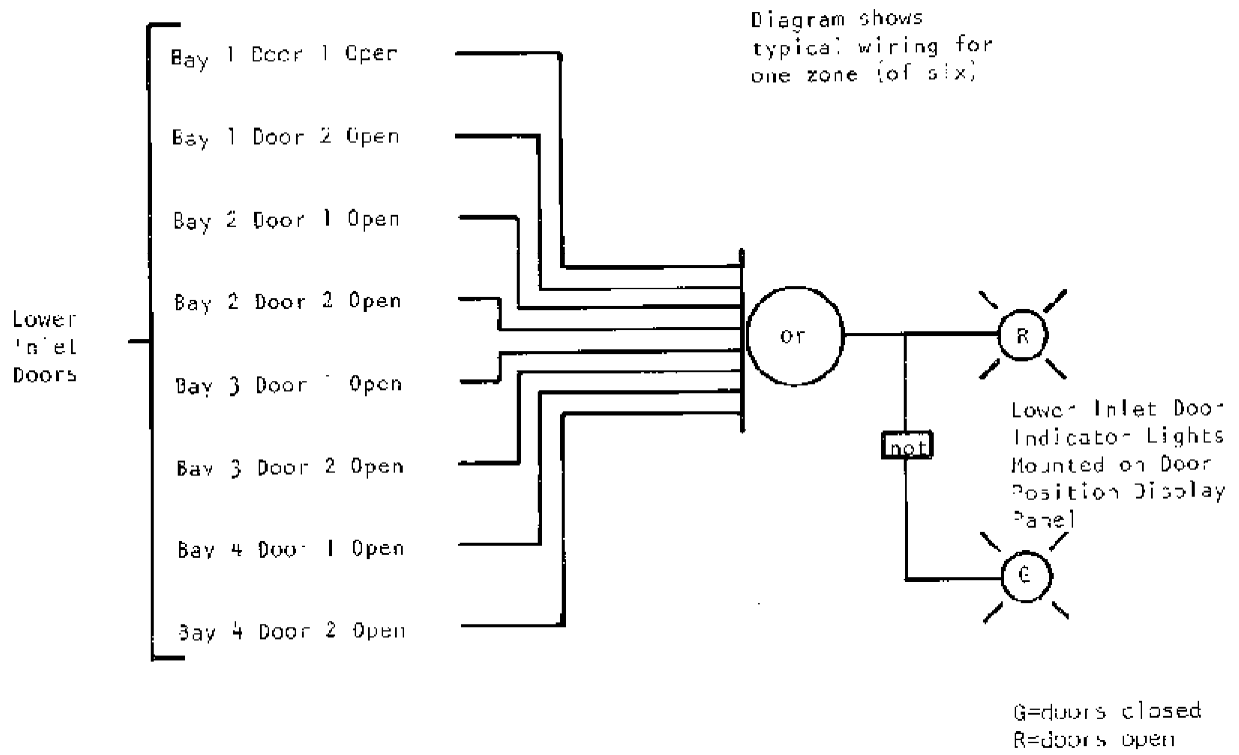
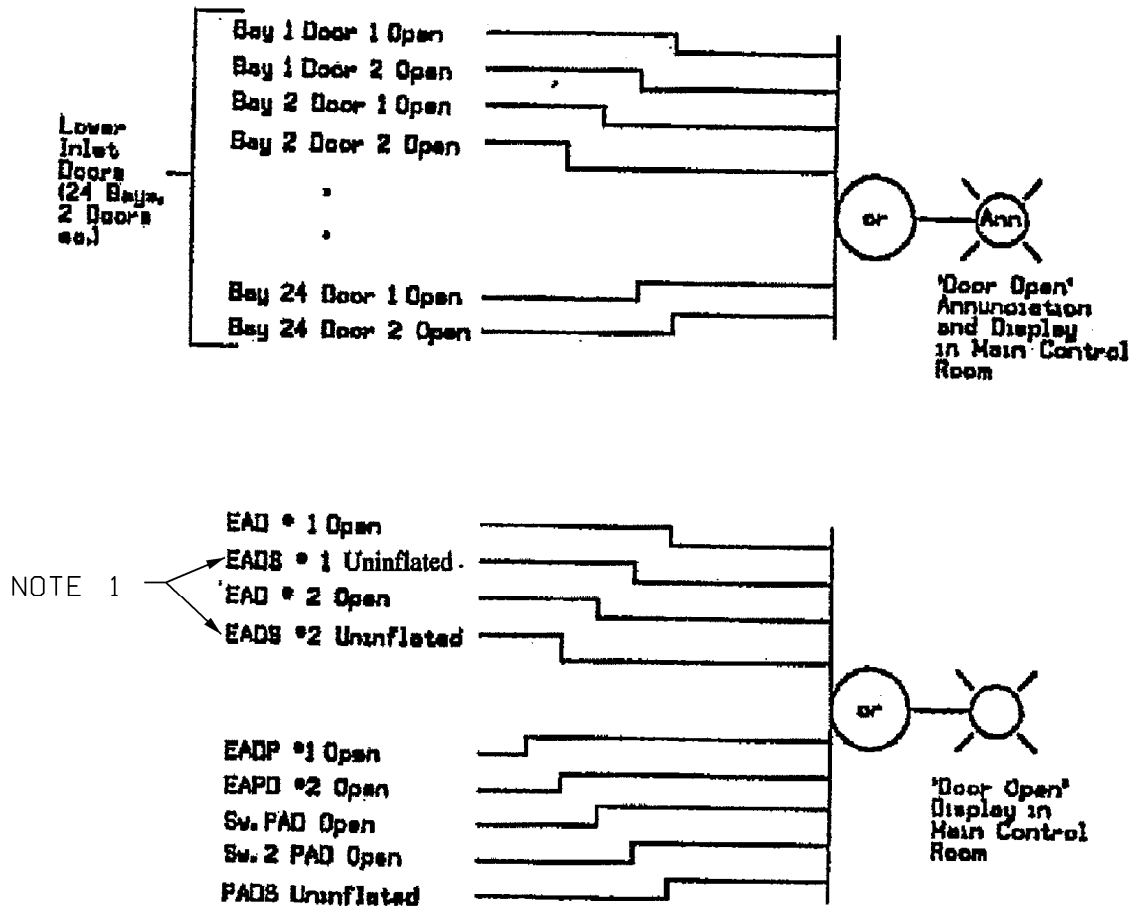


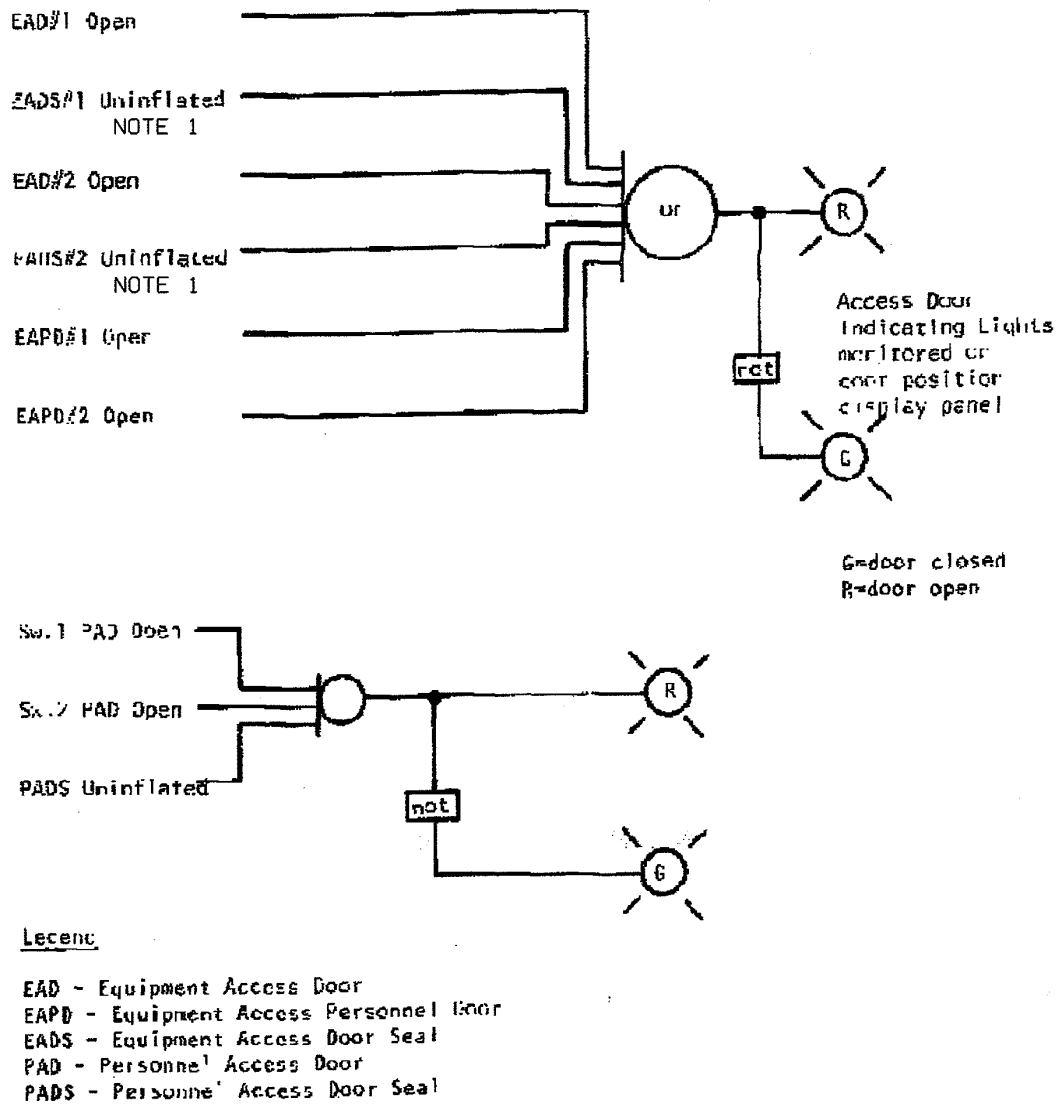
Figure 7-15. Logic Diagram: Lower Inlet Doors, Personnel Access Doors, Equipment Access Doors and Equipment Access Personnel Doors



NOTE 1:

THE EQUIPMENT ACCESS DOOR SEALS (EADS) HAVE BEEN MODIFIED SO THAT THE EQUIPMENT ACCESS DOORS ARE PERMANENTLY IN THE CLOSED POSITION WITH THE EQUIPMENT ACCESS DOOR SEALS DEFLATED. THEREFORE, THE INDICATION HAS BEEN REWIRED TO REMOVE THE EQUIPMENT ACCESS DOOR SEAL (EADS) ALARM PORTION FROM THE REST OF THE CIRCUITRY.

Figure 7-16. Logic Diagram: Equipment Access and Equipment Access Personnel Doors



Note 1: The Equipment Access Door Seals (EADS) have been modified so that the Equipment Access Doors are permanently in the closed position with the Equipment Access Door seals deflated. Therefore, the alarm indication has been rewired to remove the Equipment Access Door Seal (EADS) alarm portion from the rest of the circuitry.

Figure 7-17. Ice Condenser RTD Location

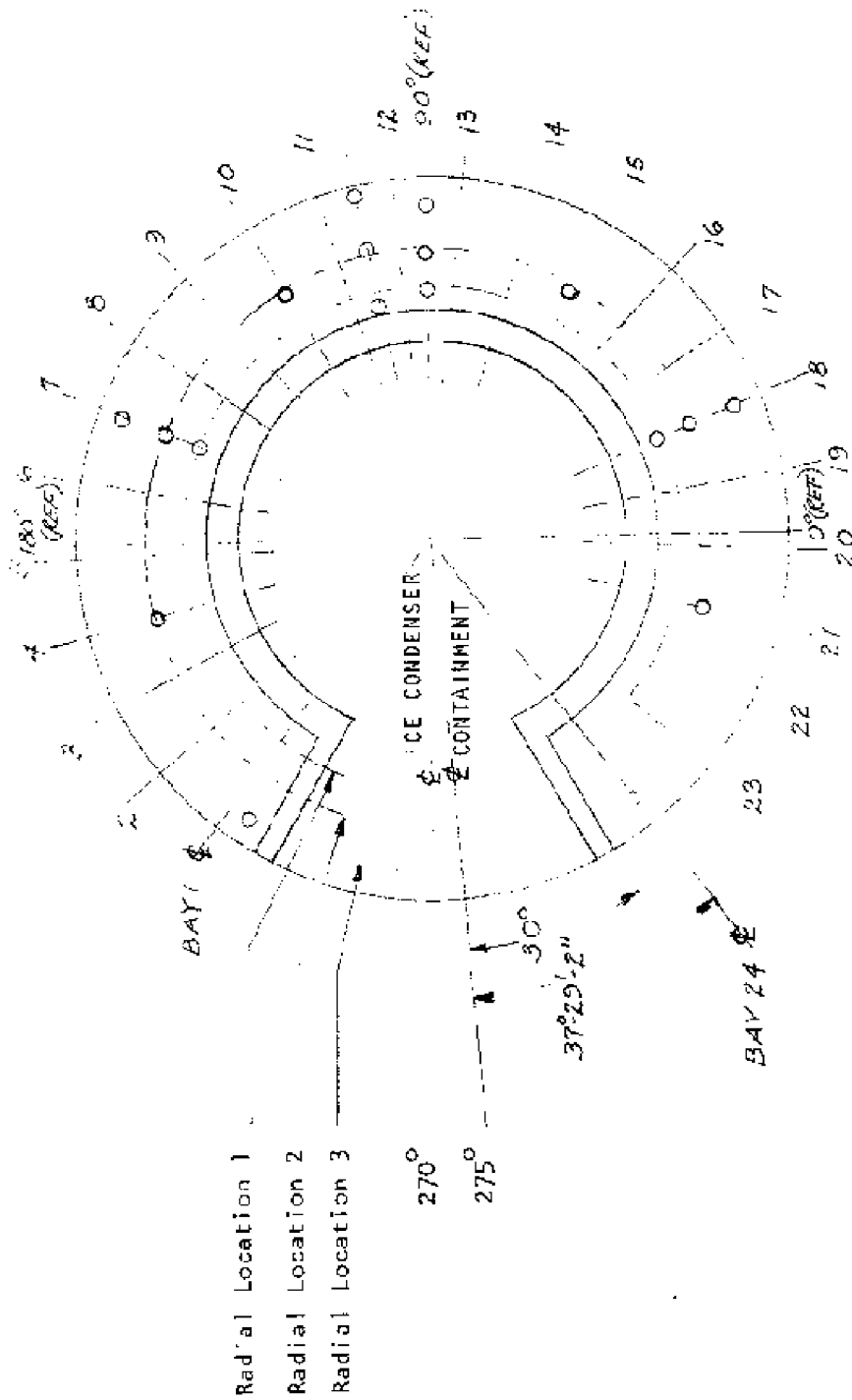


Figure 7-18. Block Diagram: Ice Condenser Temperature Monitoring System

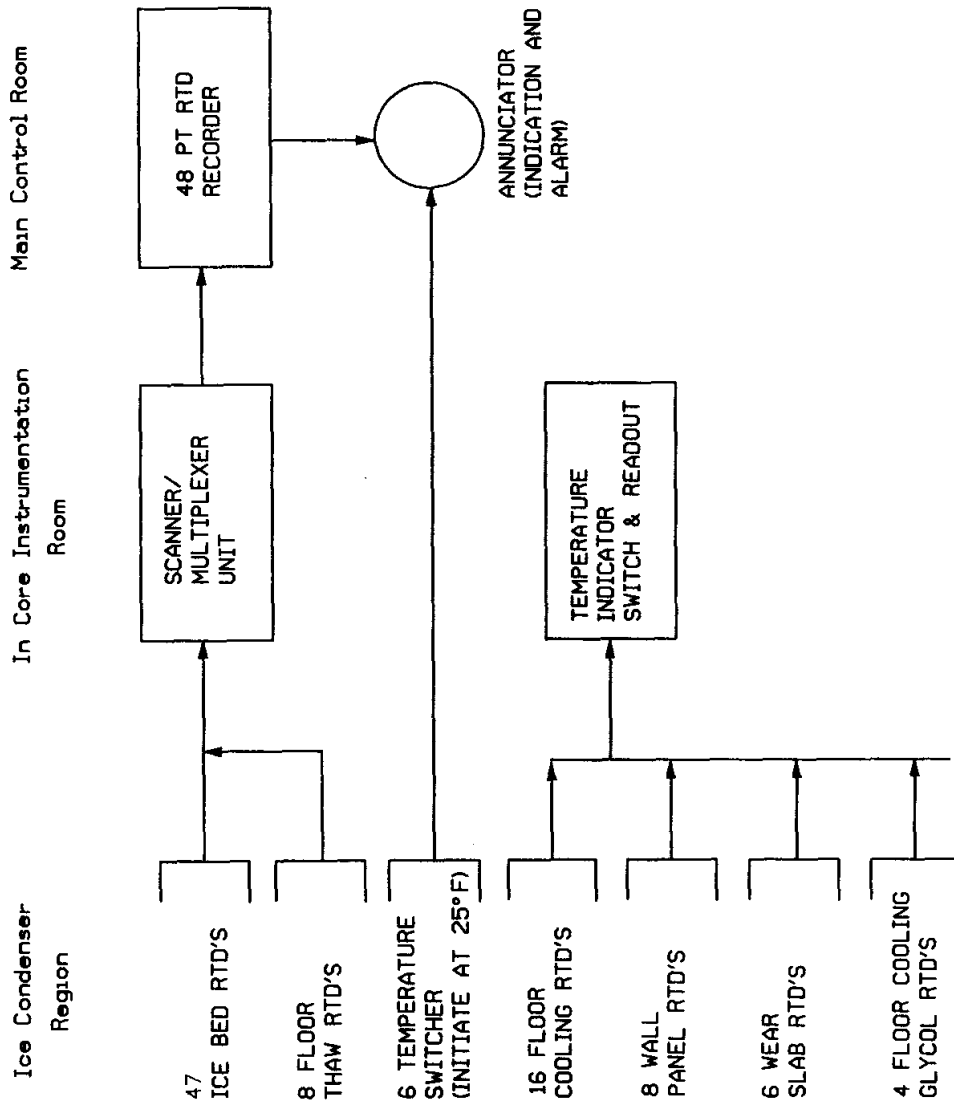


Figure 7-19. Containment Pressure Control System Logic

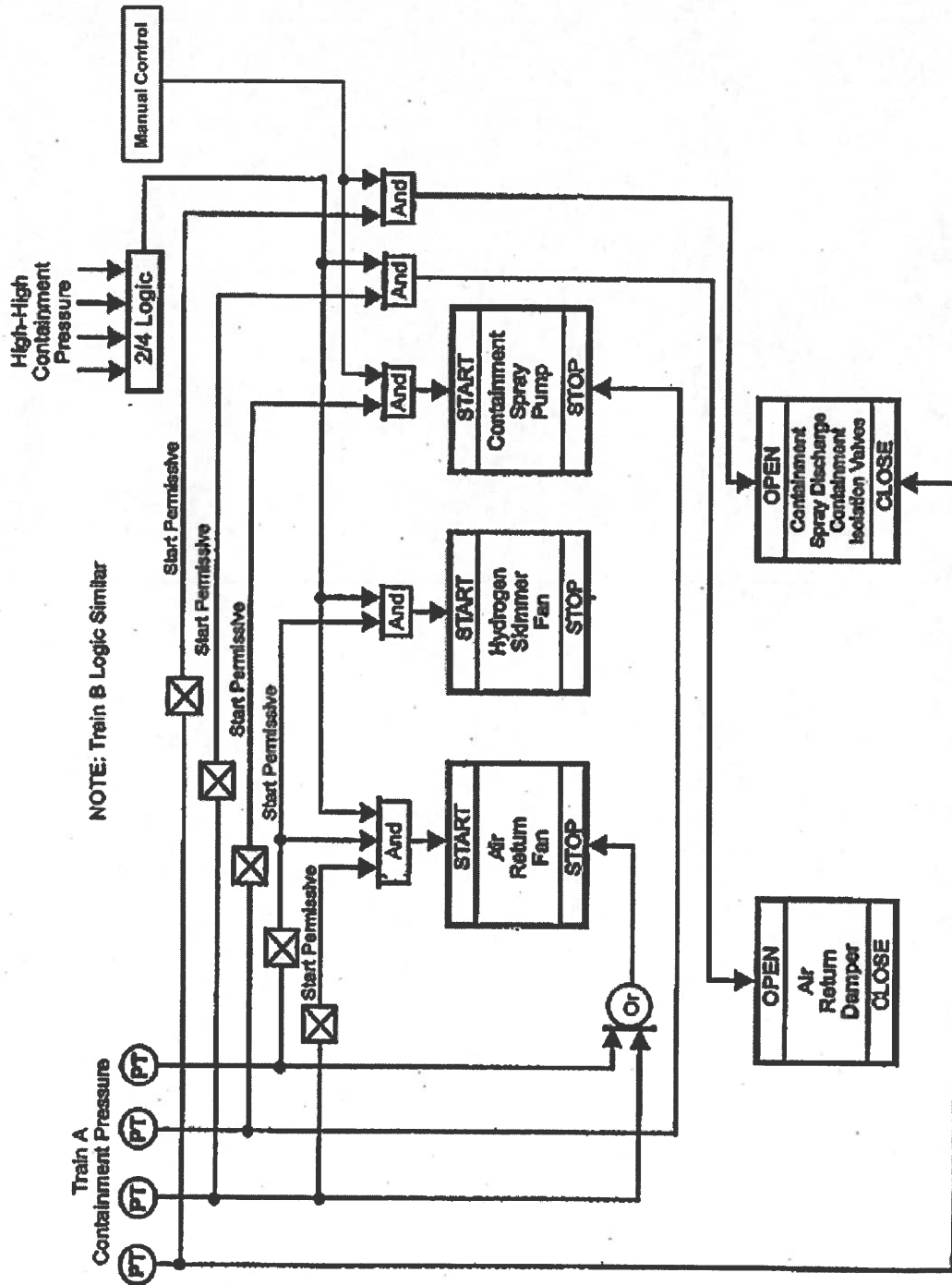


Figure 7-20. Reactor Coolant System Overpressure Protection - Train A

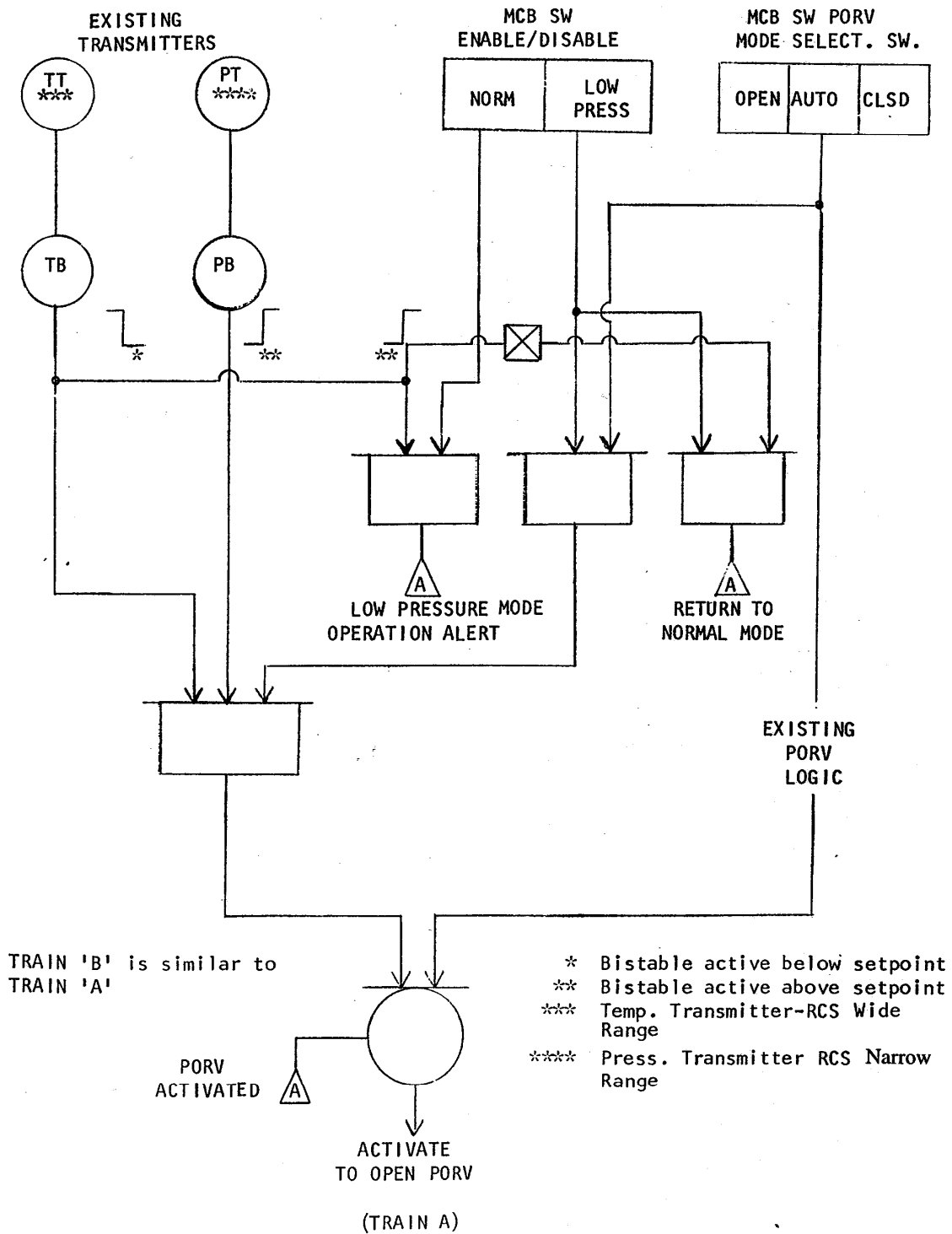


Figure 7-21. Simplified Block Diagram of Reactor Control System

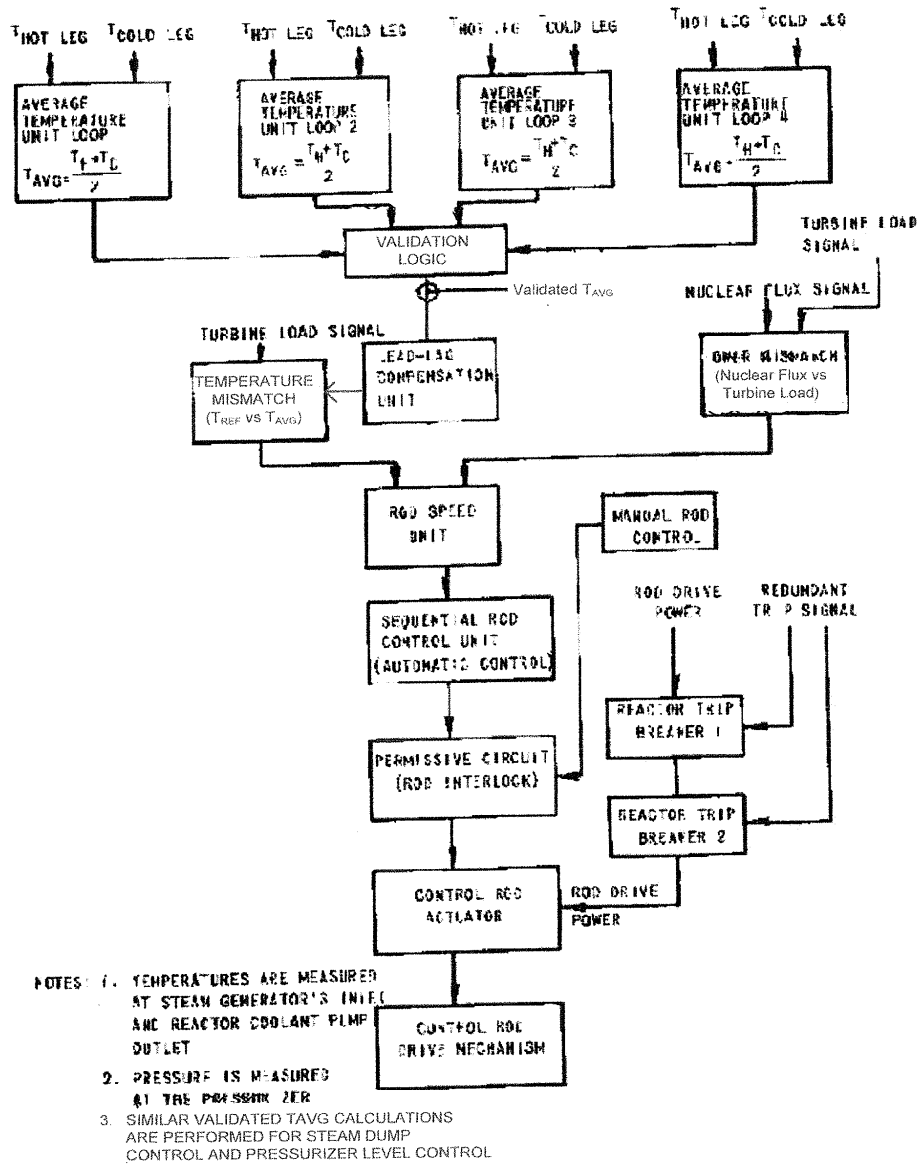


Figure 7-22. Deleted Per 2011 Update

Figure 7-23. Deleted Per 2011 Update

Figure 7-24. Deleted Per 2011 Update

Figure 7-25. Deleted Per 2011 Update

Figure 7-26. Deleted Per 2011 Update

Figure 7-27. Basic Flux-Mapping System

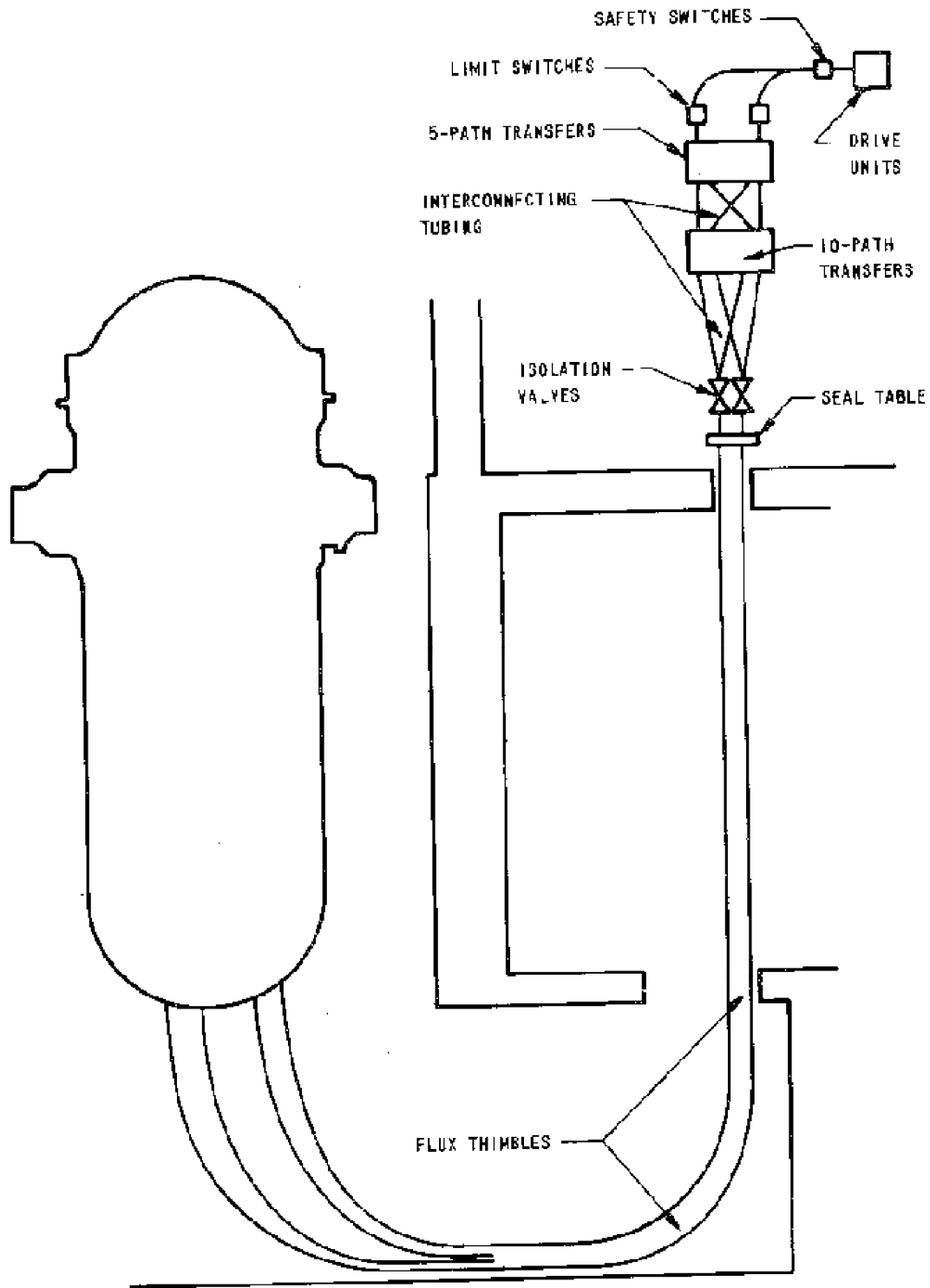


Figure 7-28. Deleted Per 1996 Update.

Figure 7-29. Control Room Layout

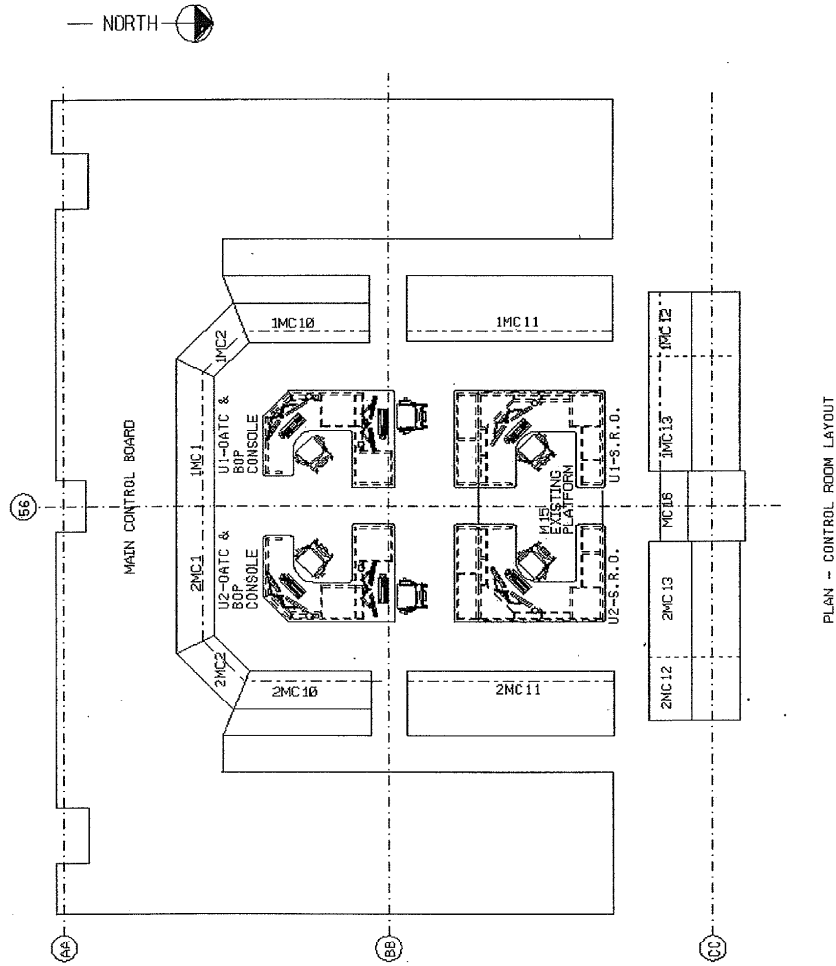


Figure 7-30. Rod Deviation Comparator

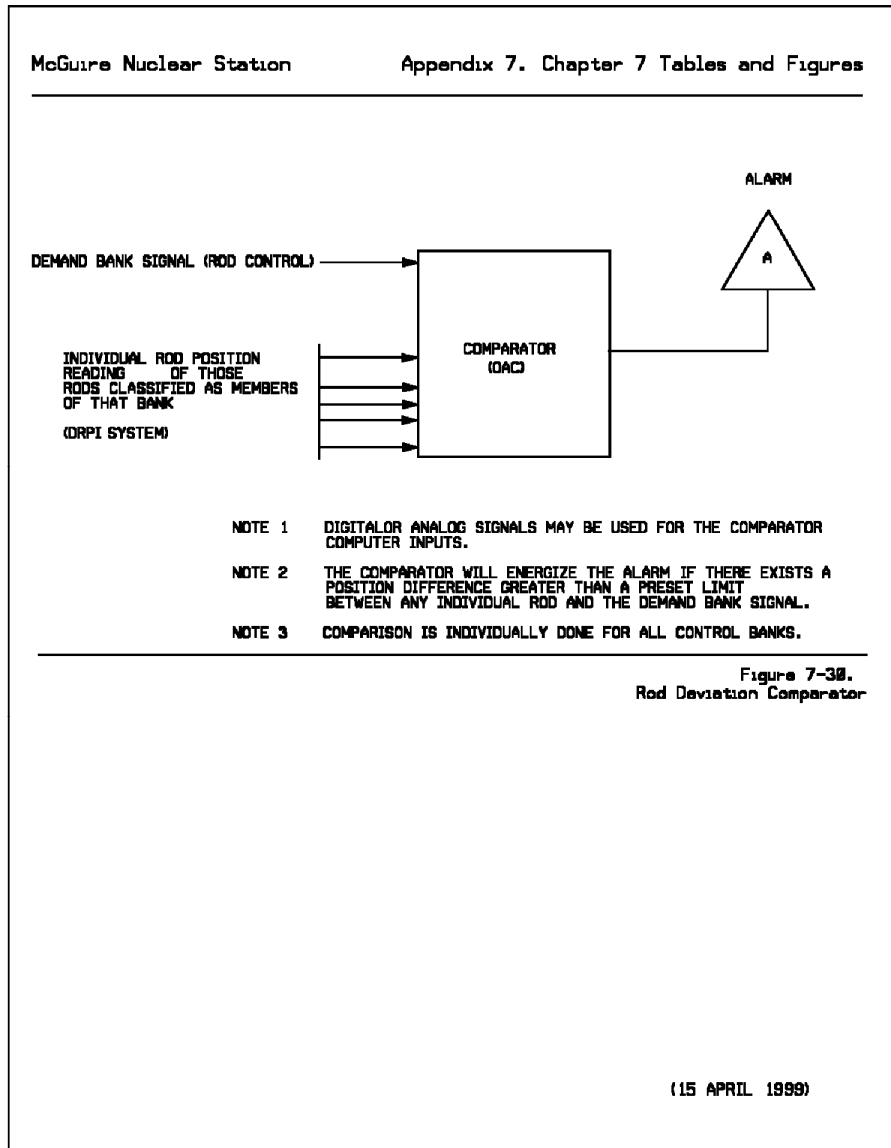
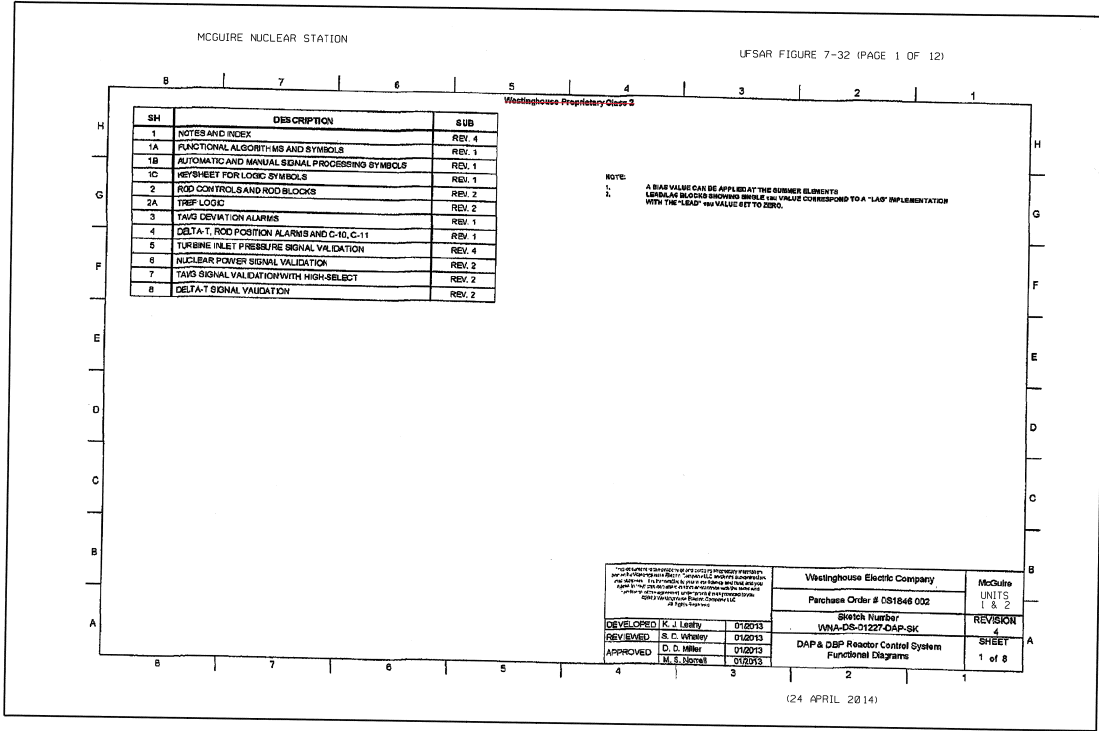
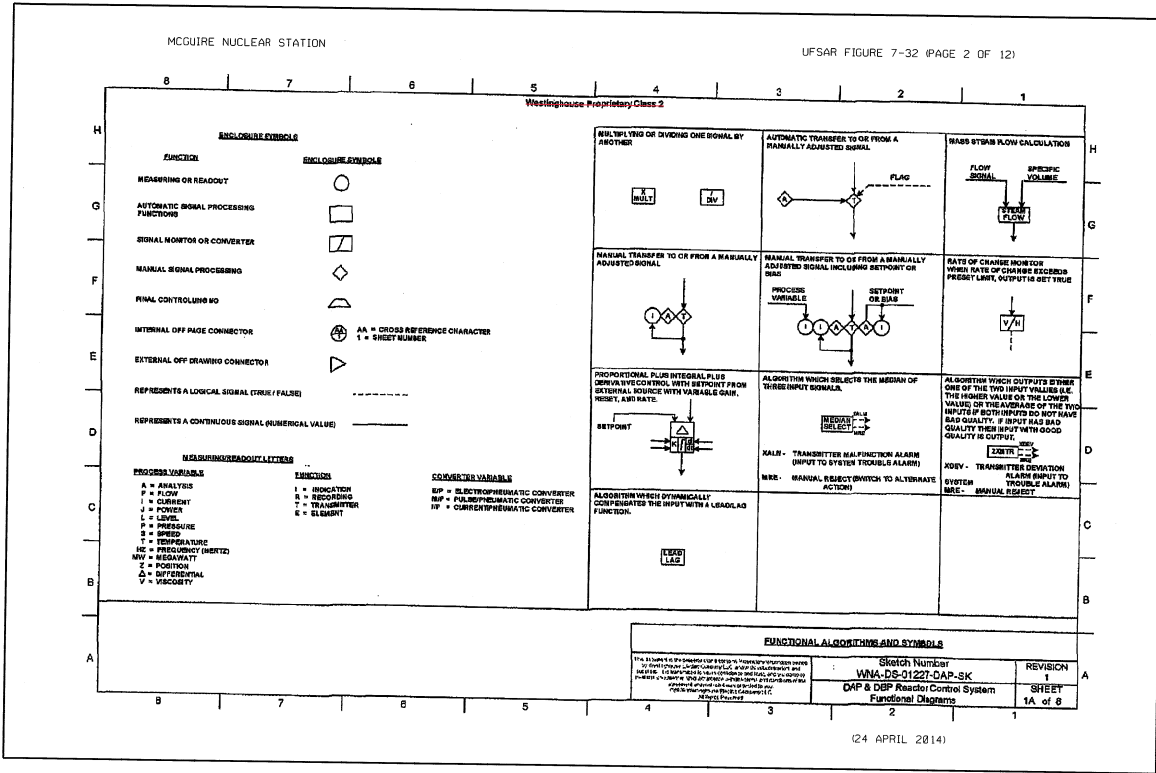
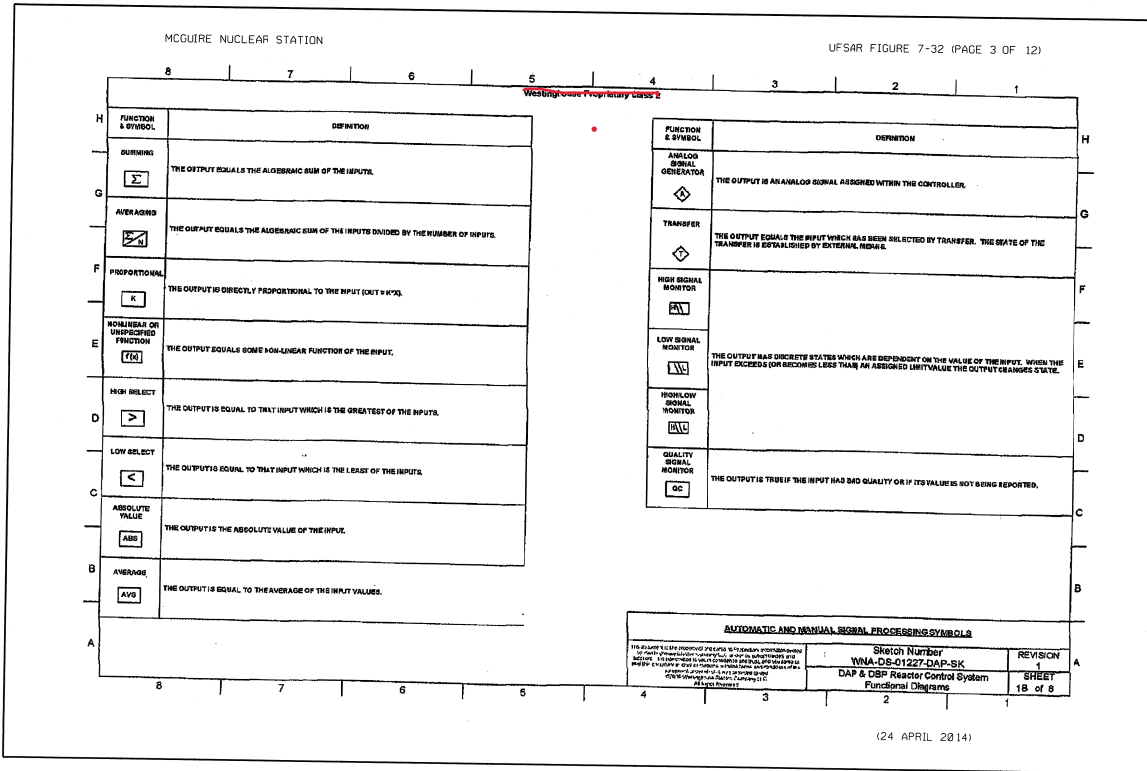


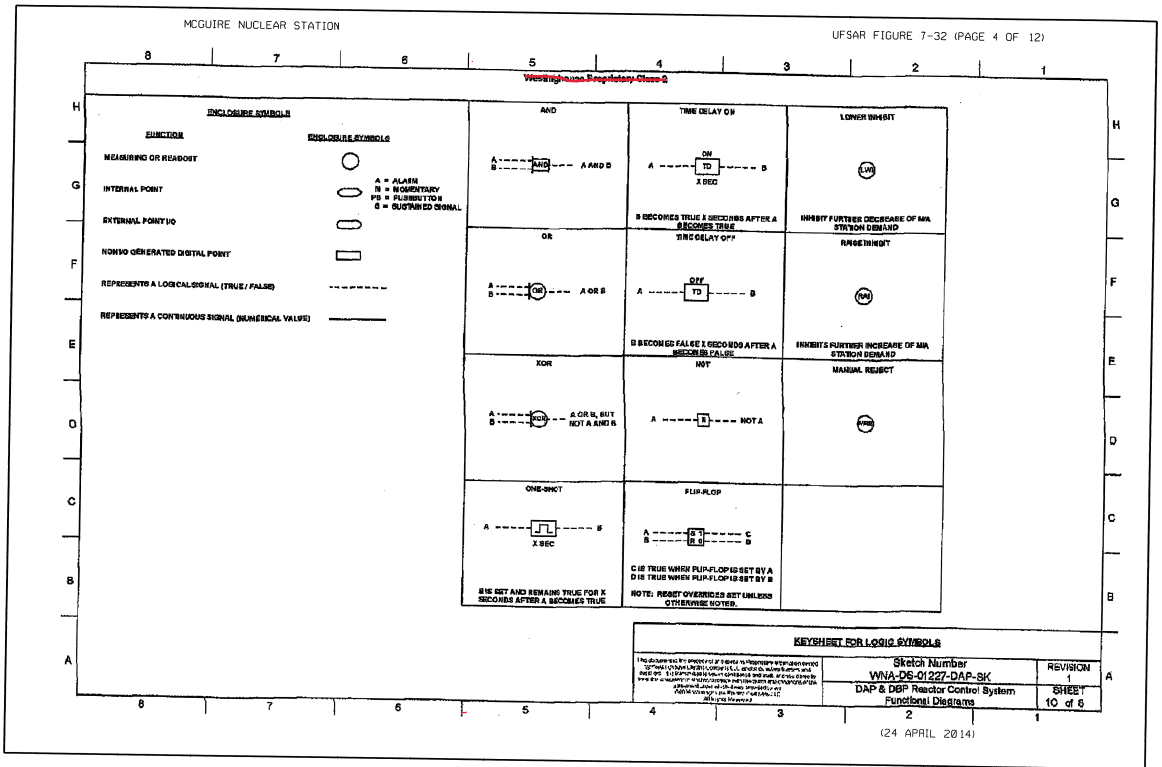
Figure 7-31. Deleted Per 2011 Update

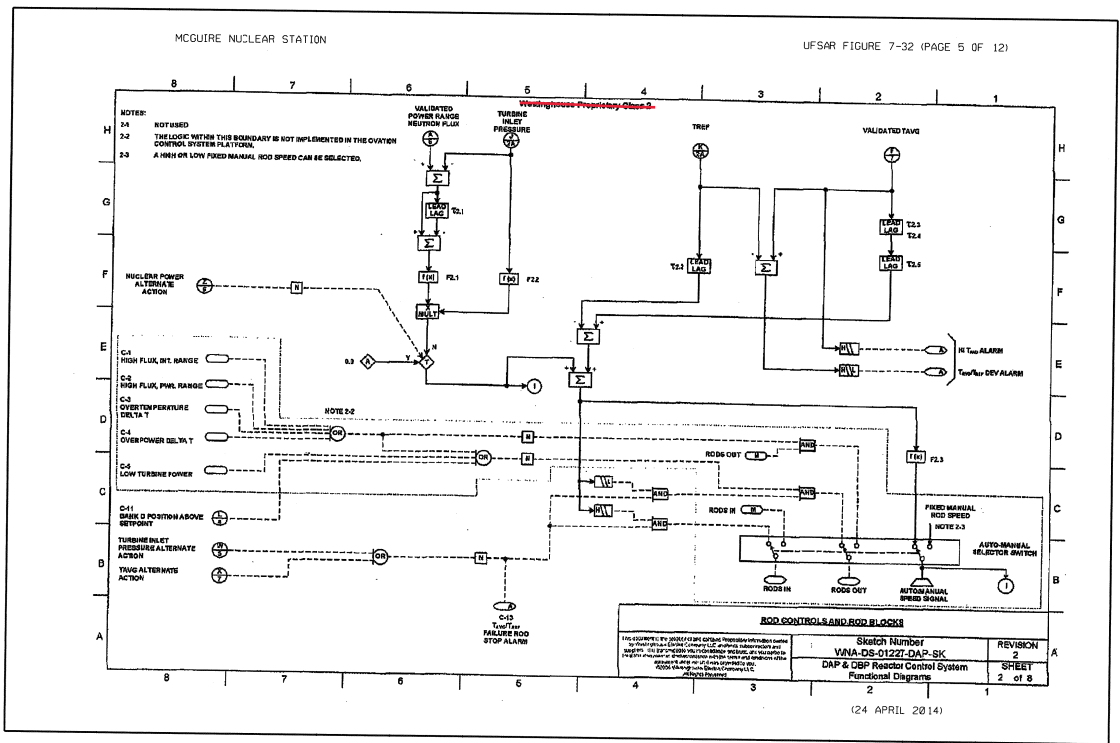
Figure 7-32. DAP & DBP Reactor Control System Functional Diagrams

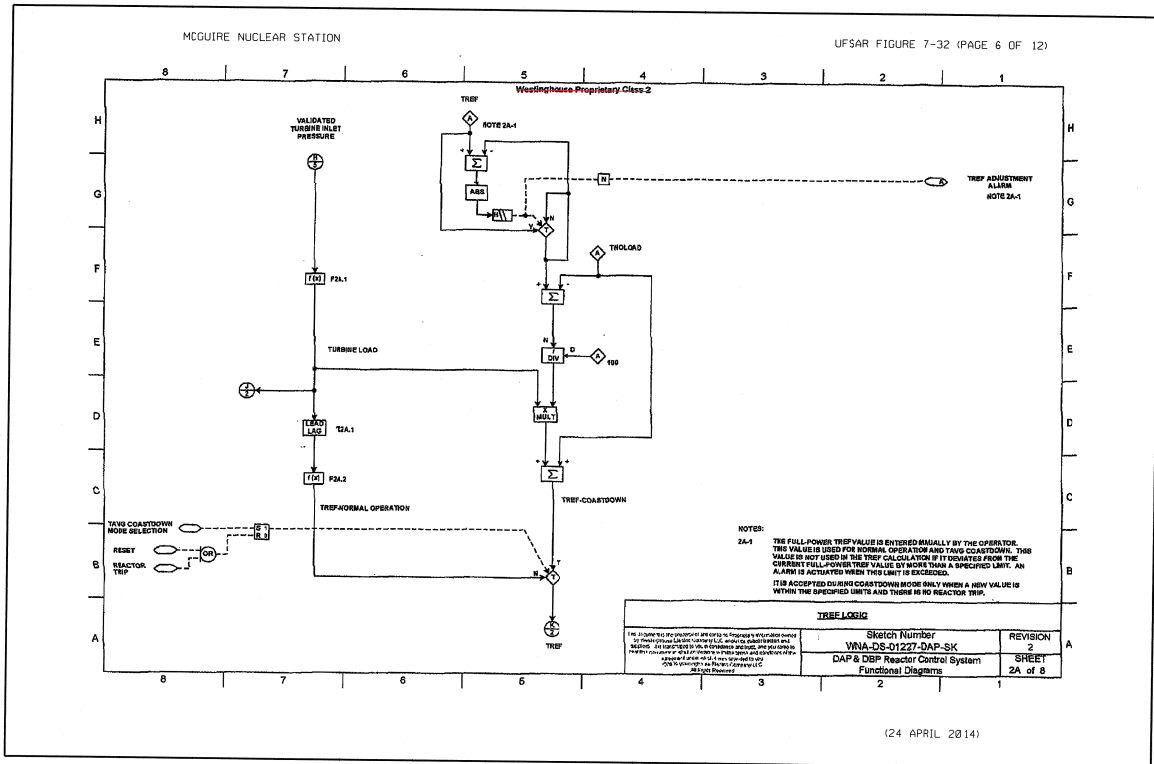


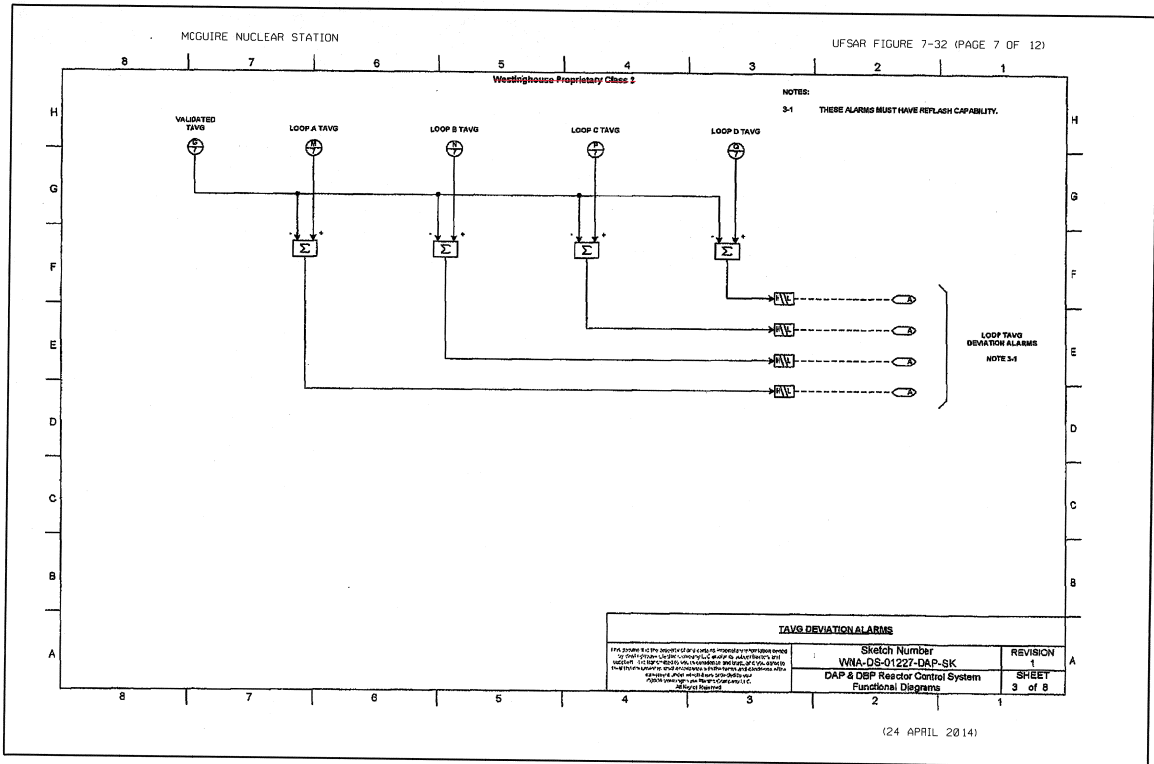


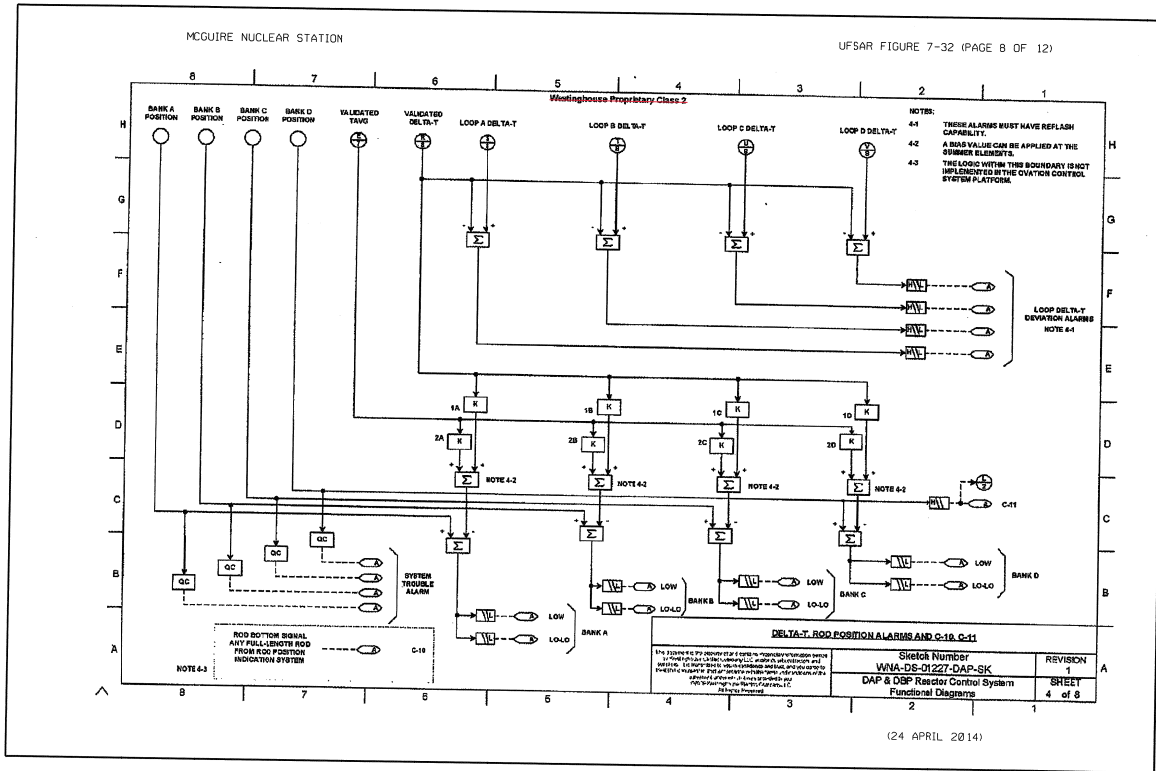


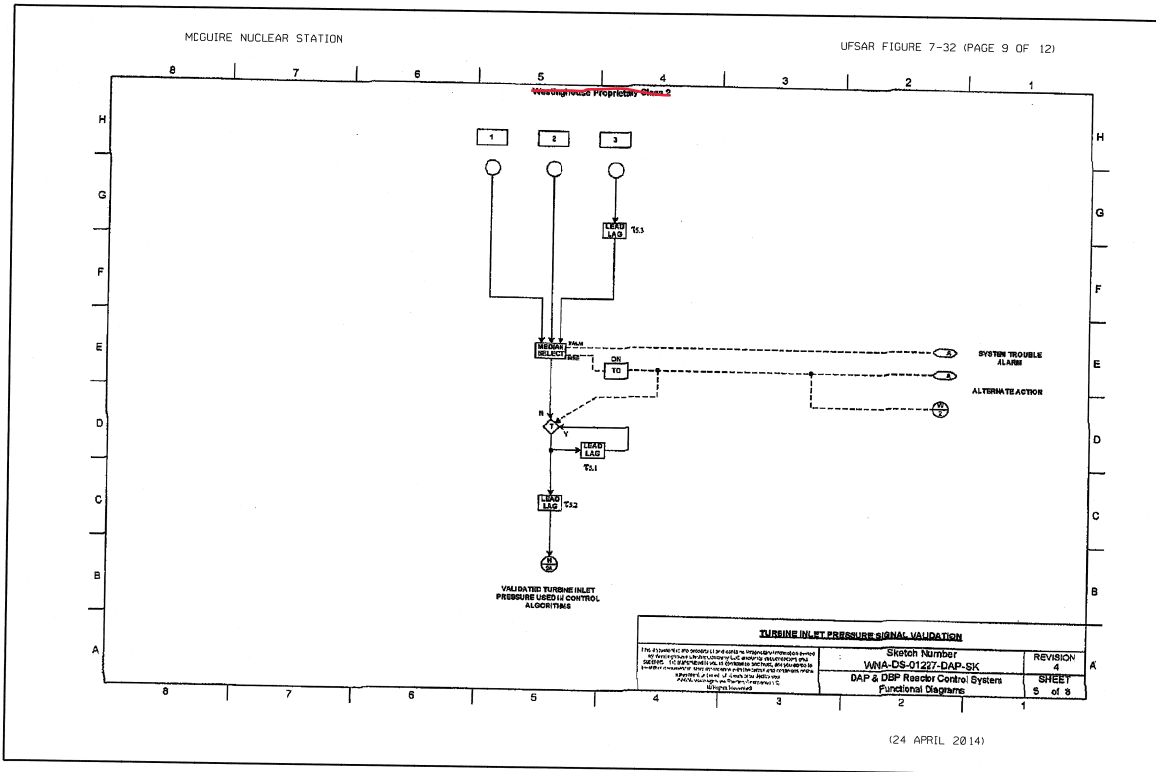


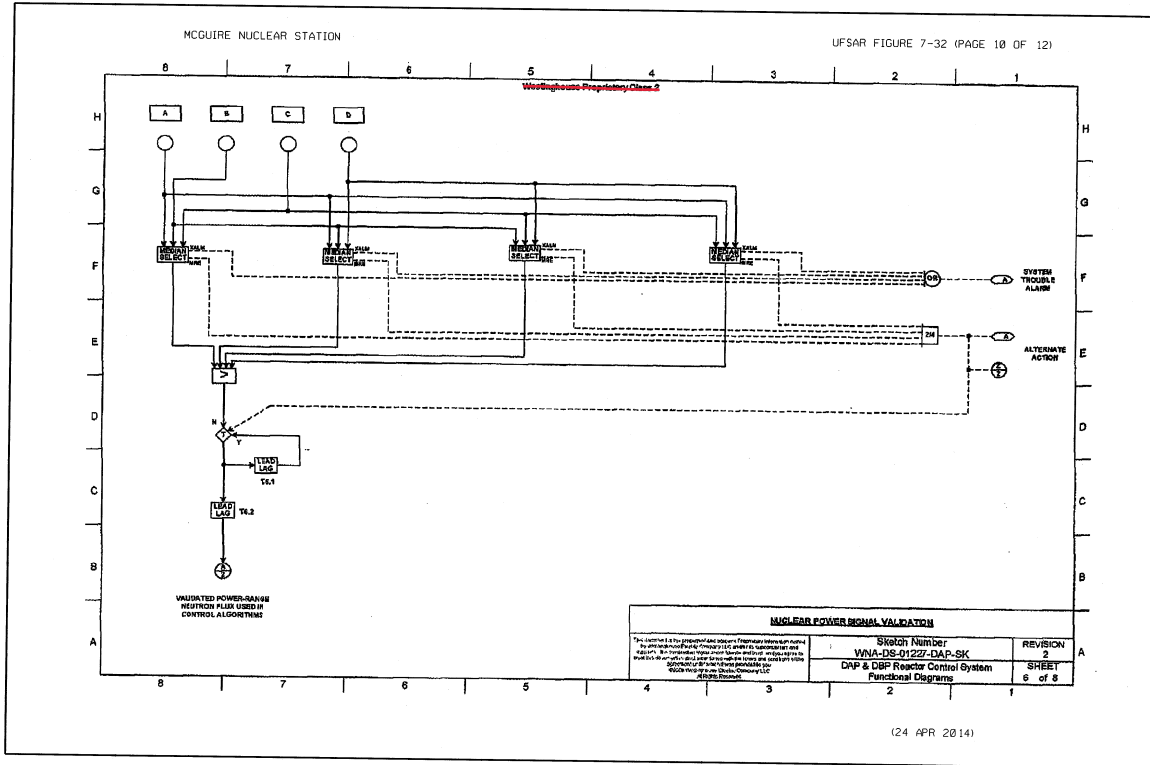


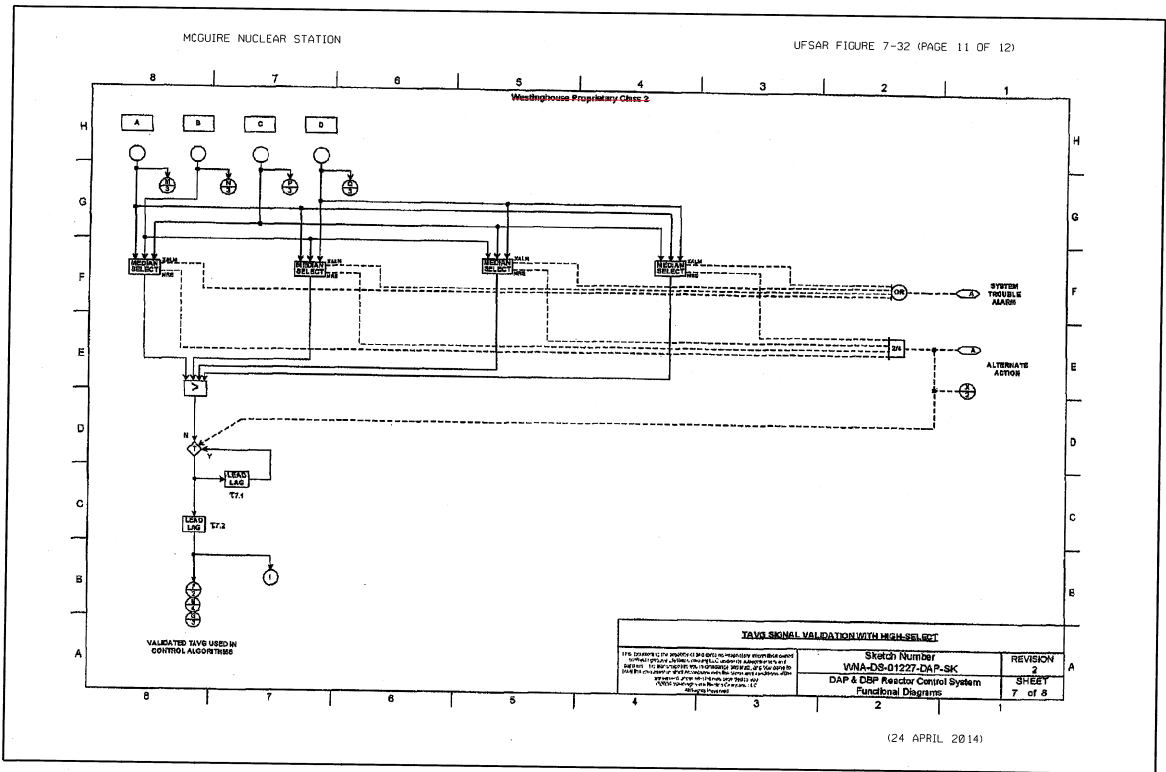












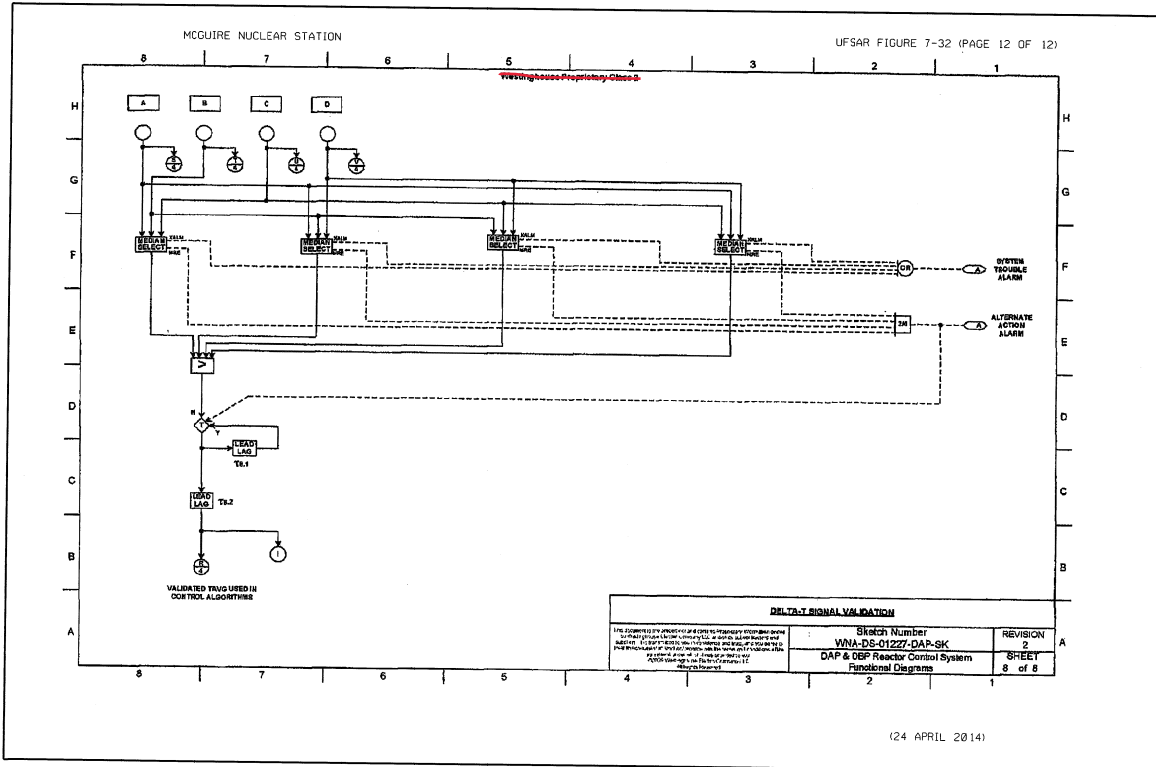
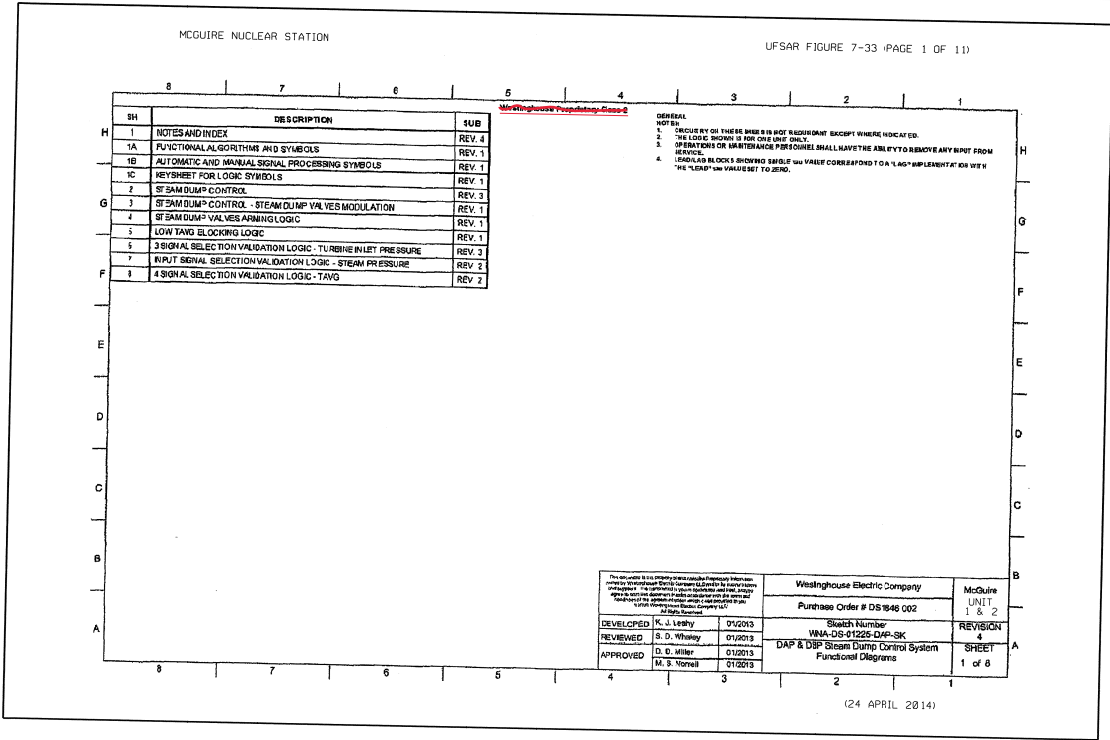
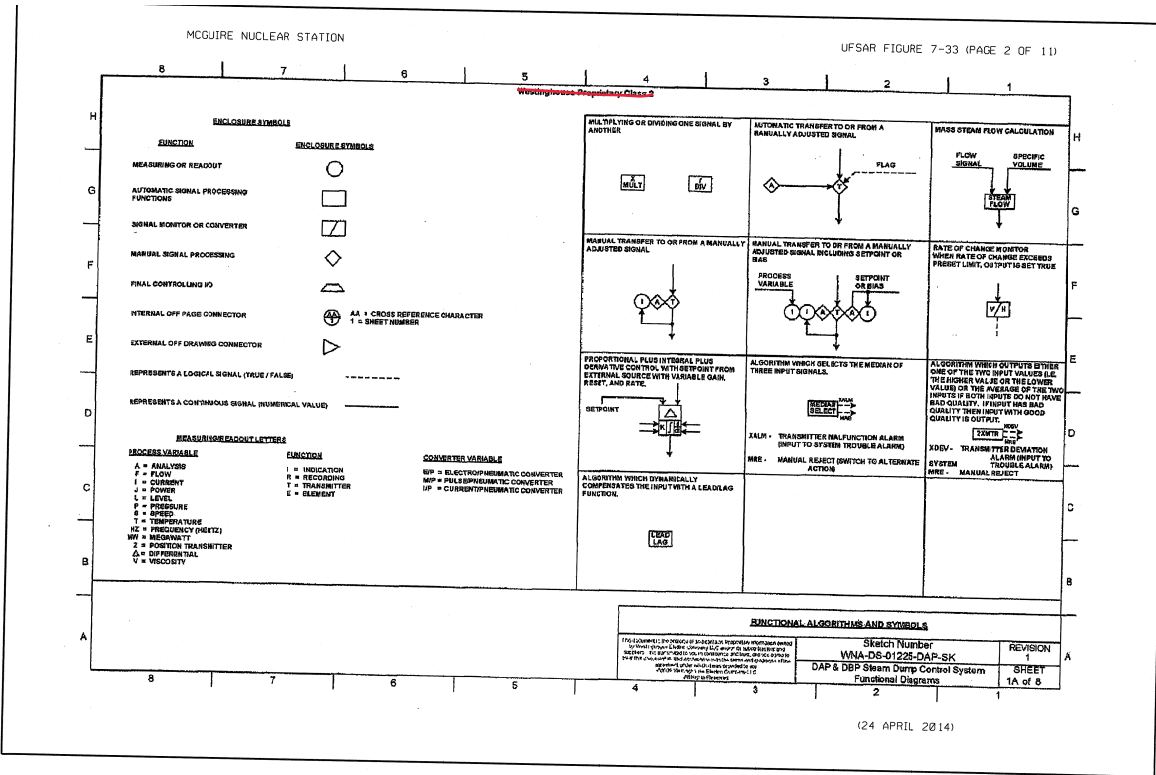
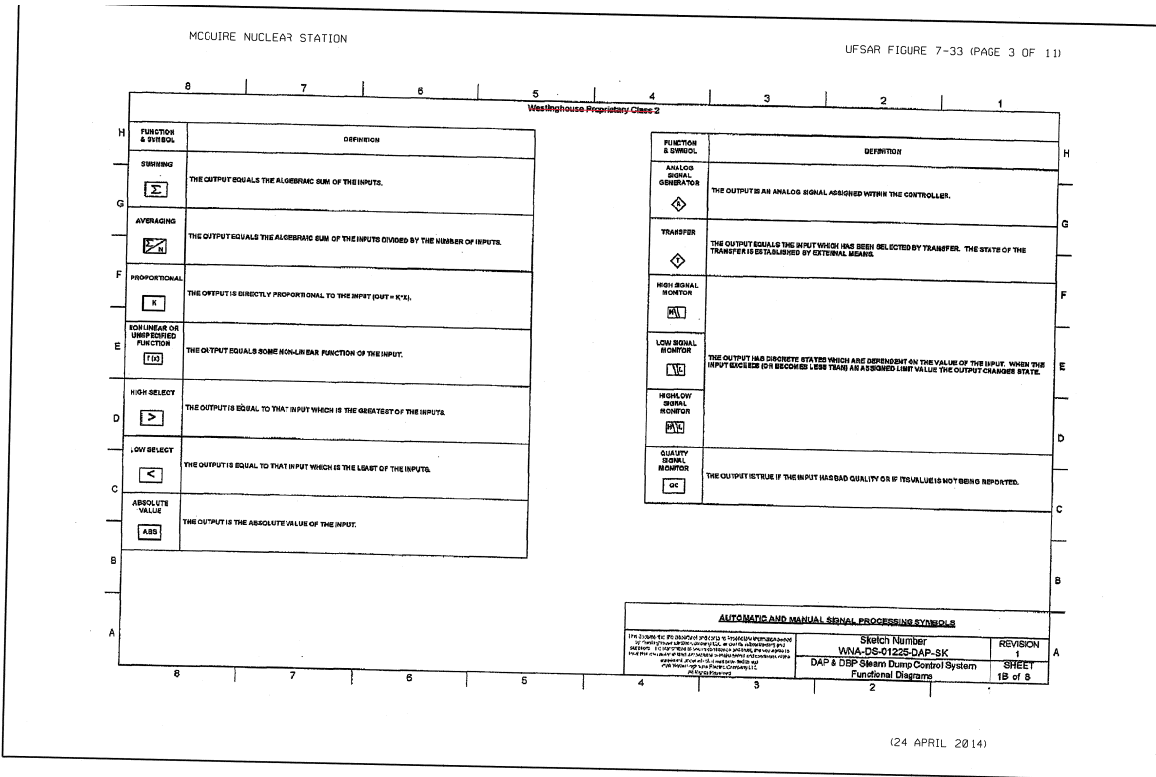
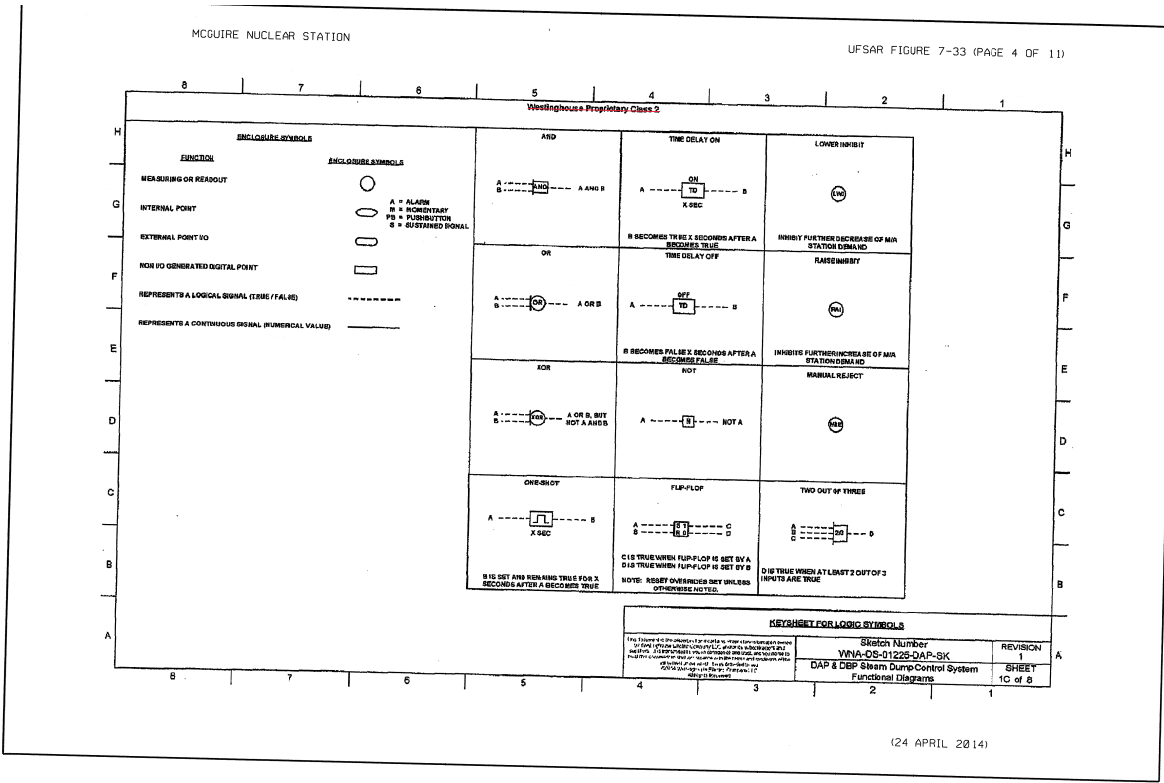


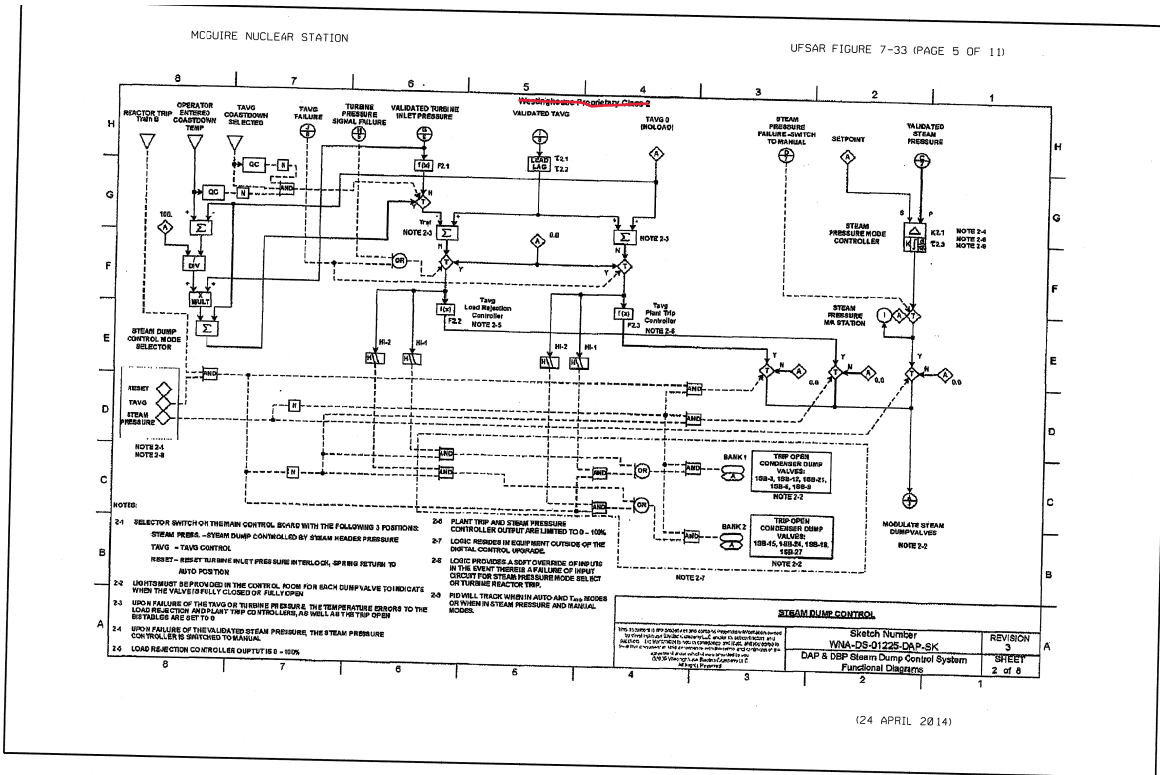
Figure 7-33. DAP & DBP Steam Dump Control System Functional Diagrams

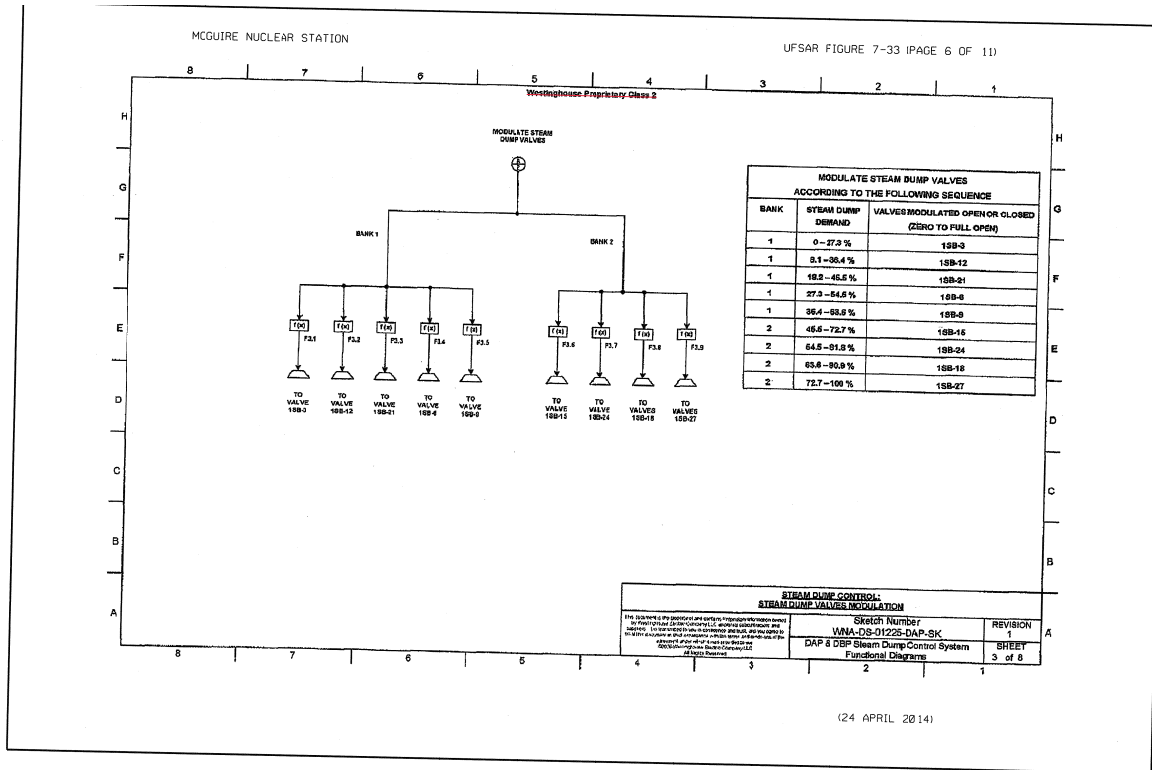


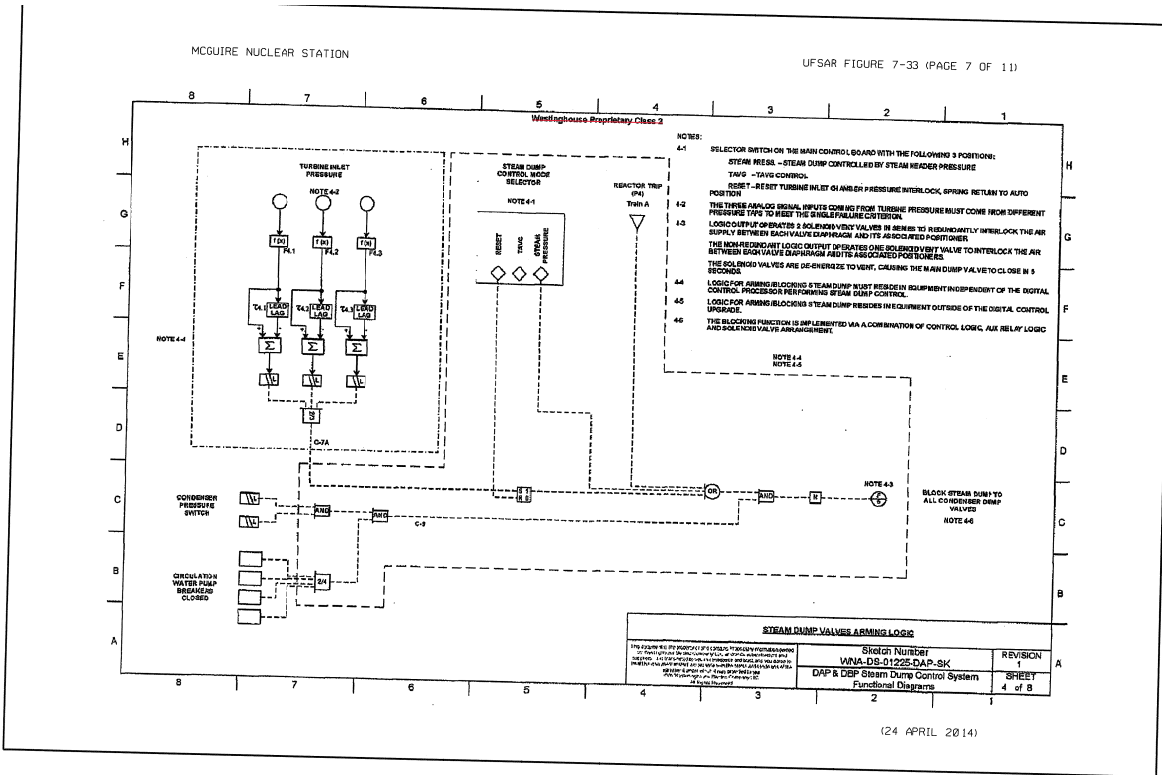


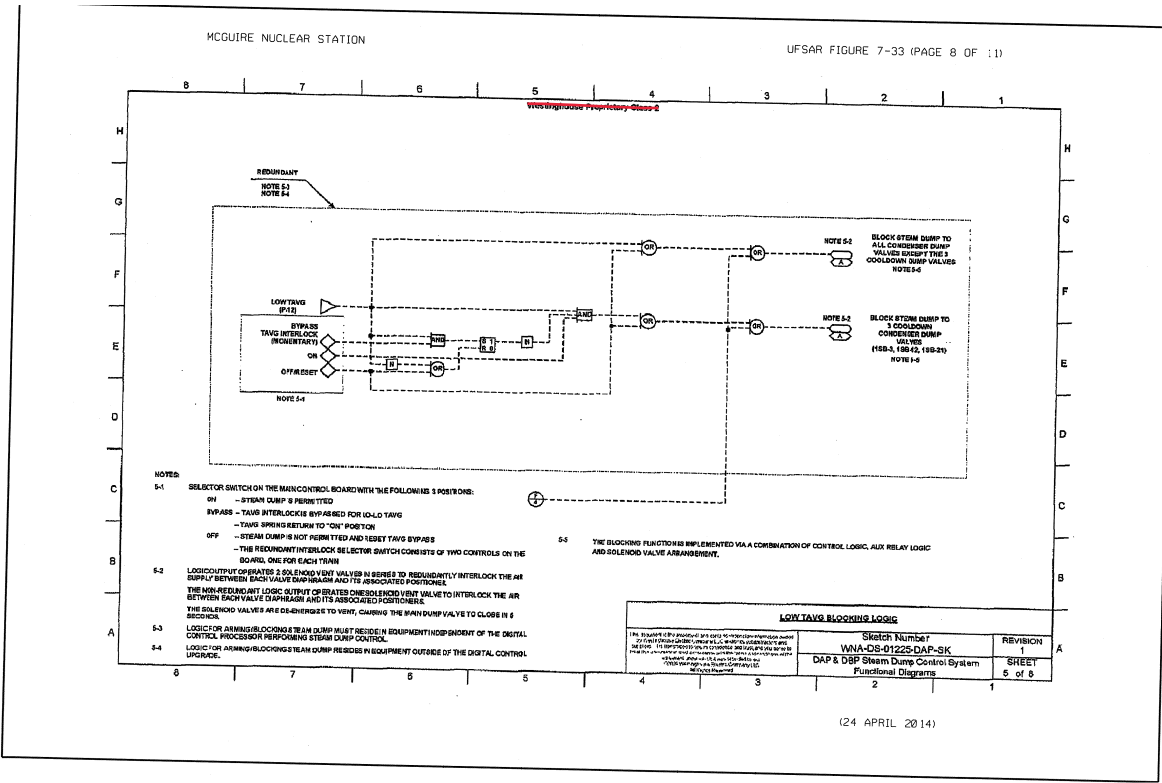


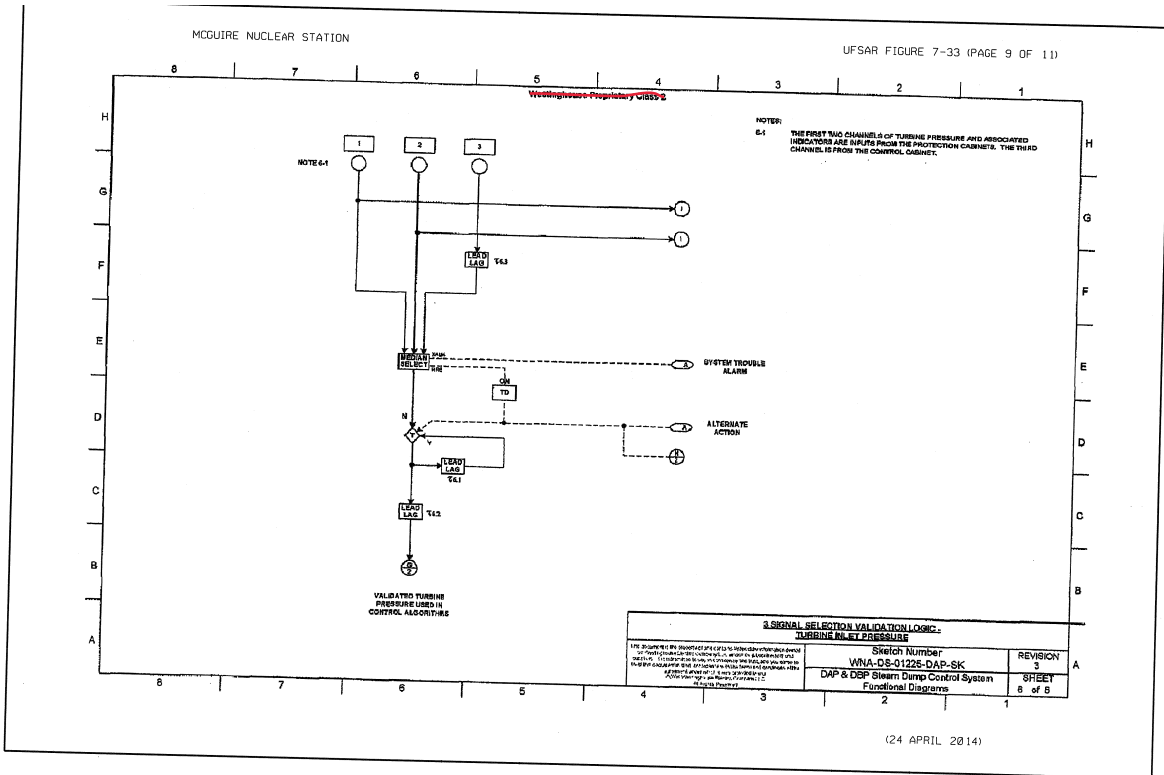


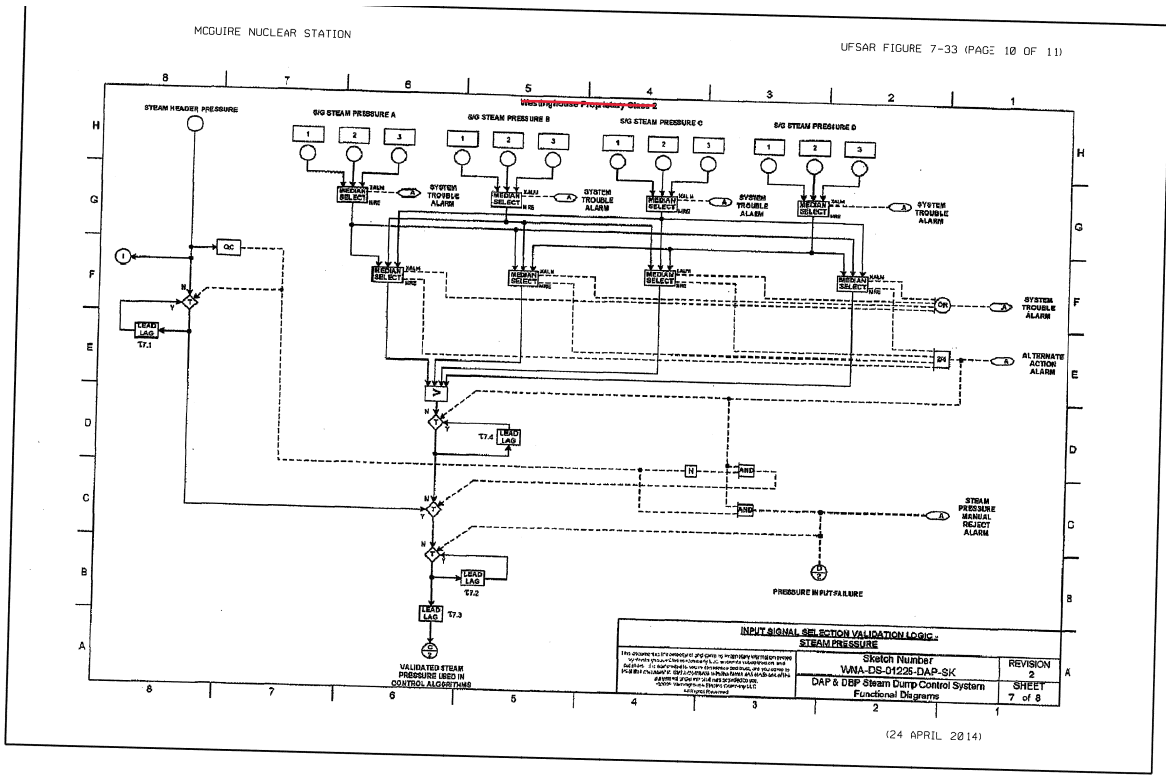












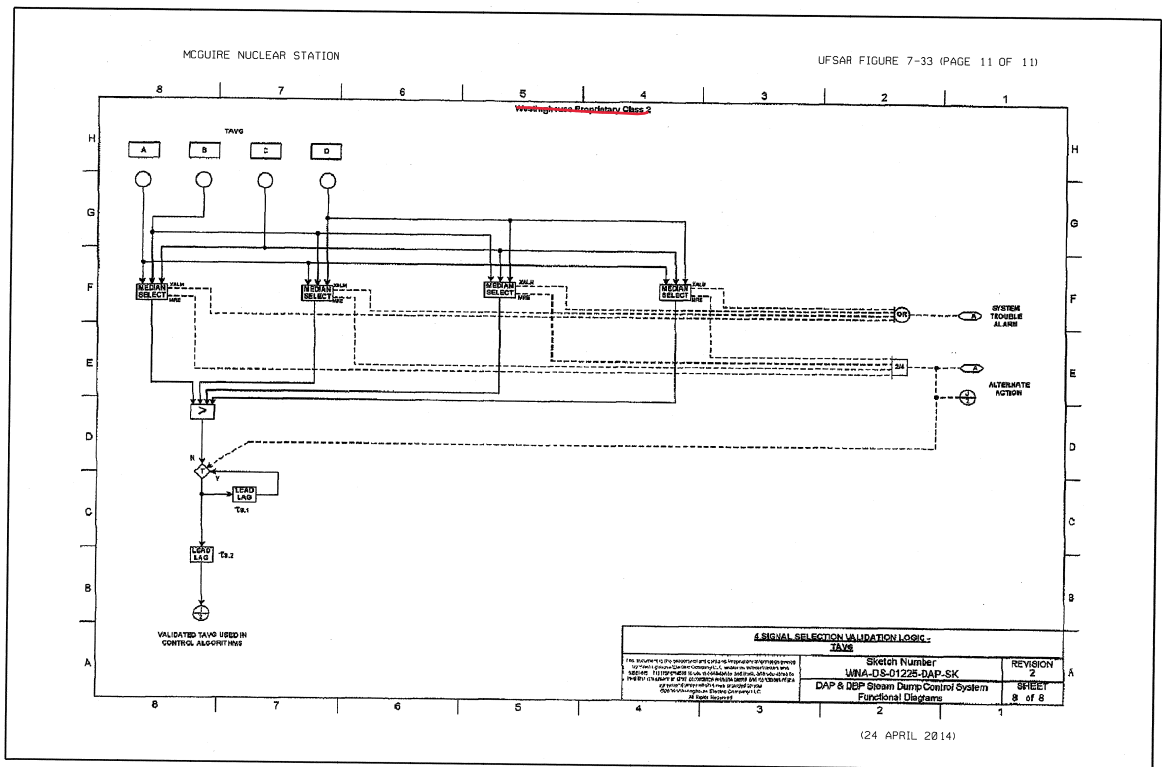
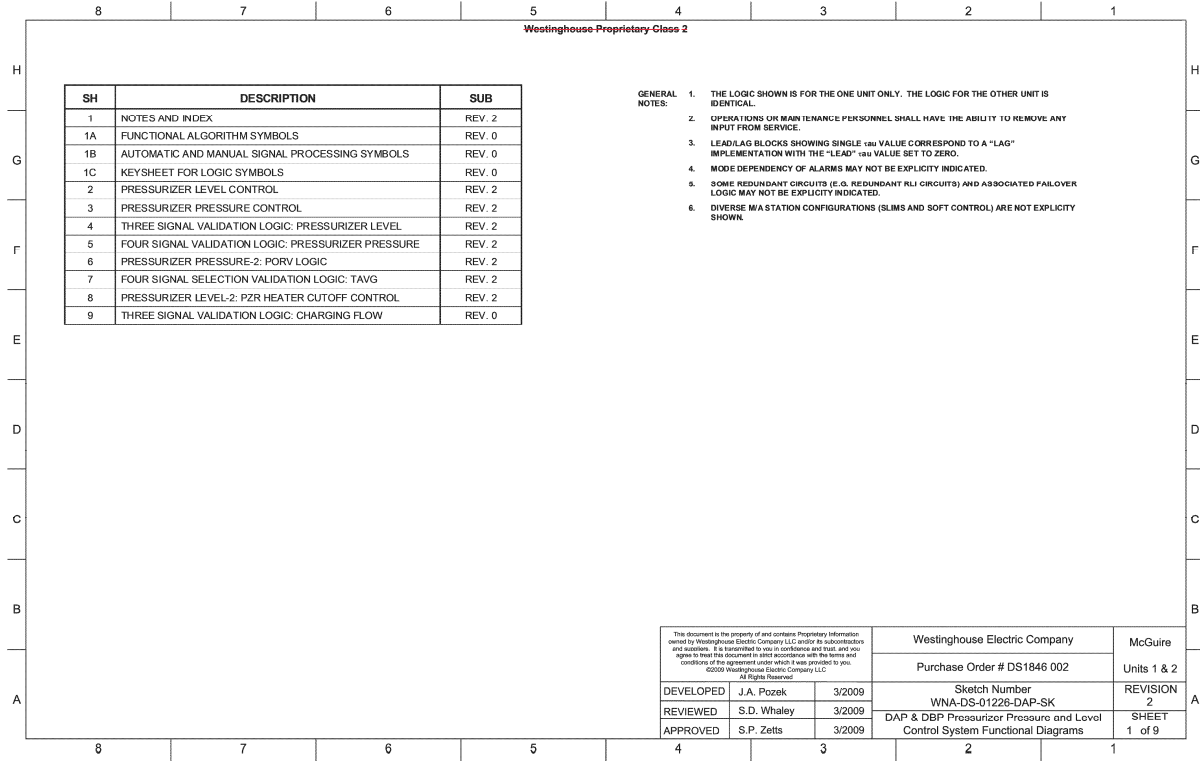
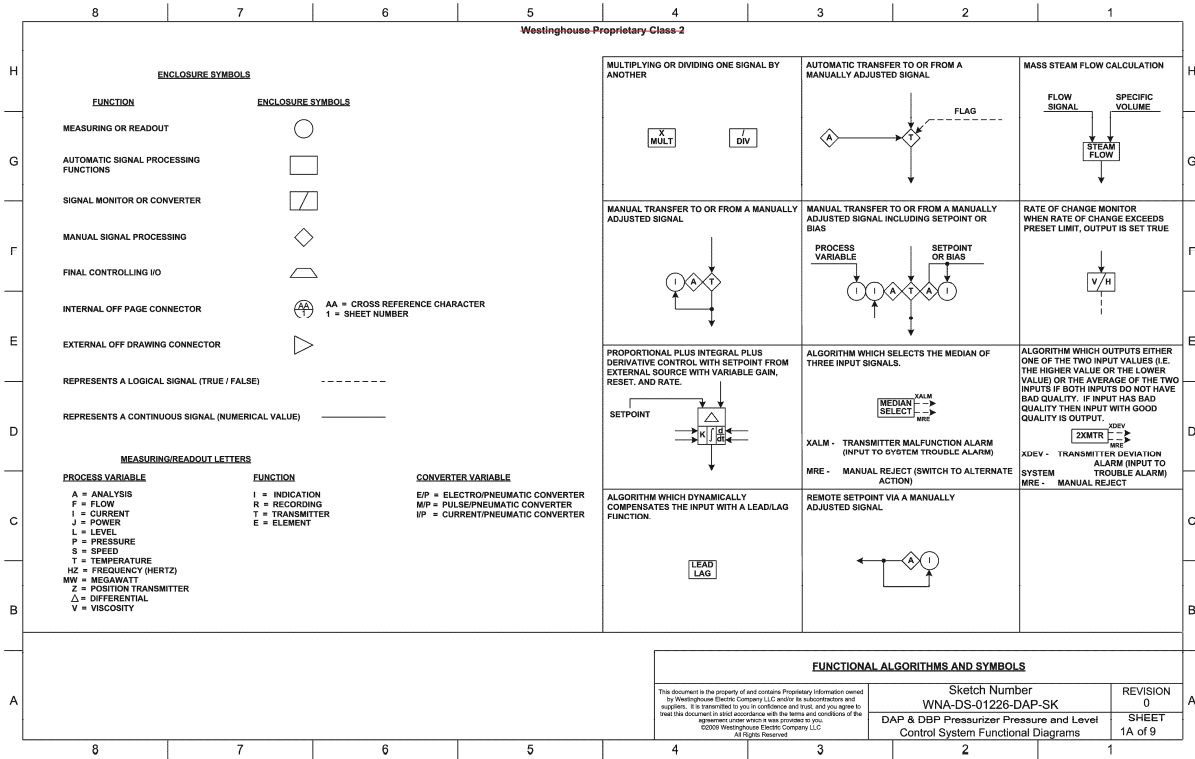









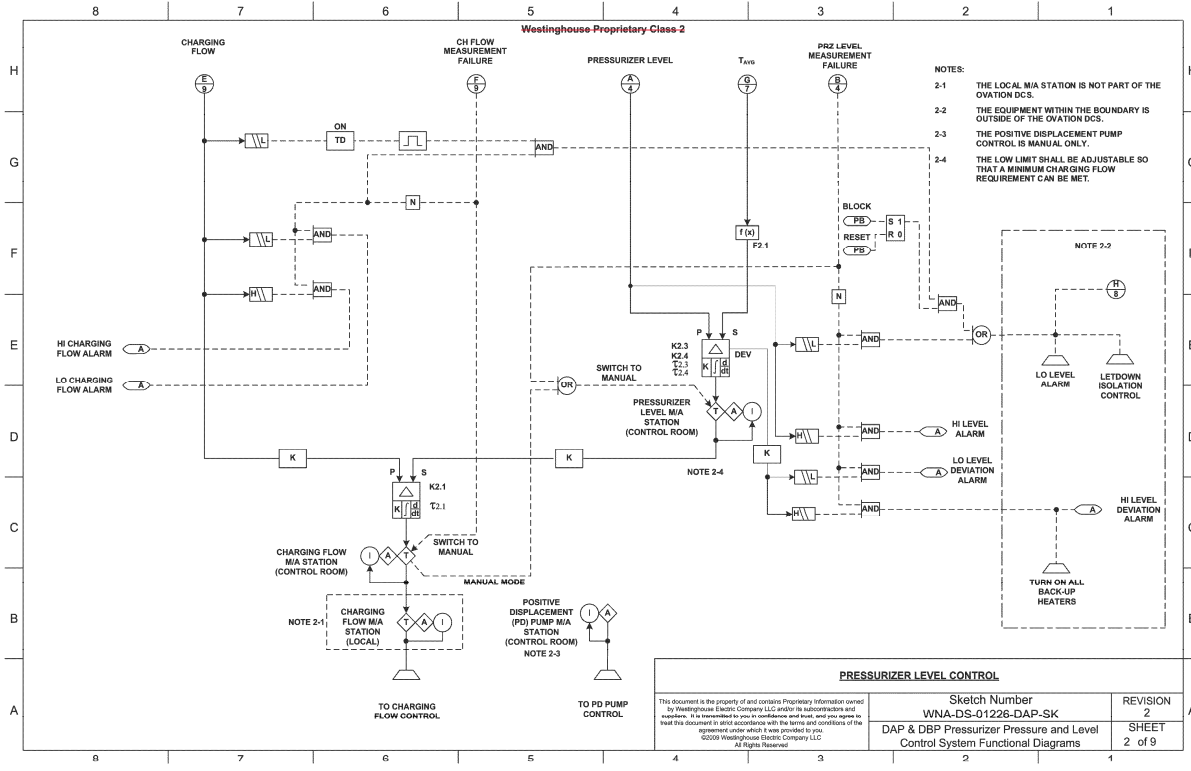
Figure 7-34. DAP & DBP Pressurizer Pressure and Level Control System Functional Diagrams

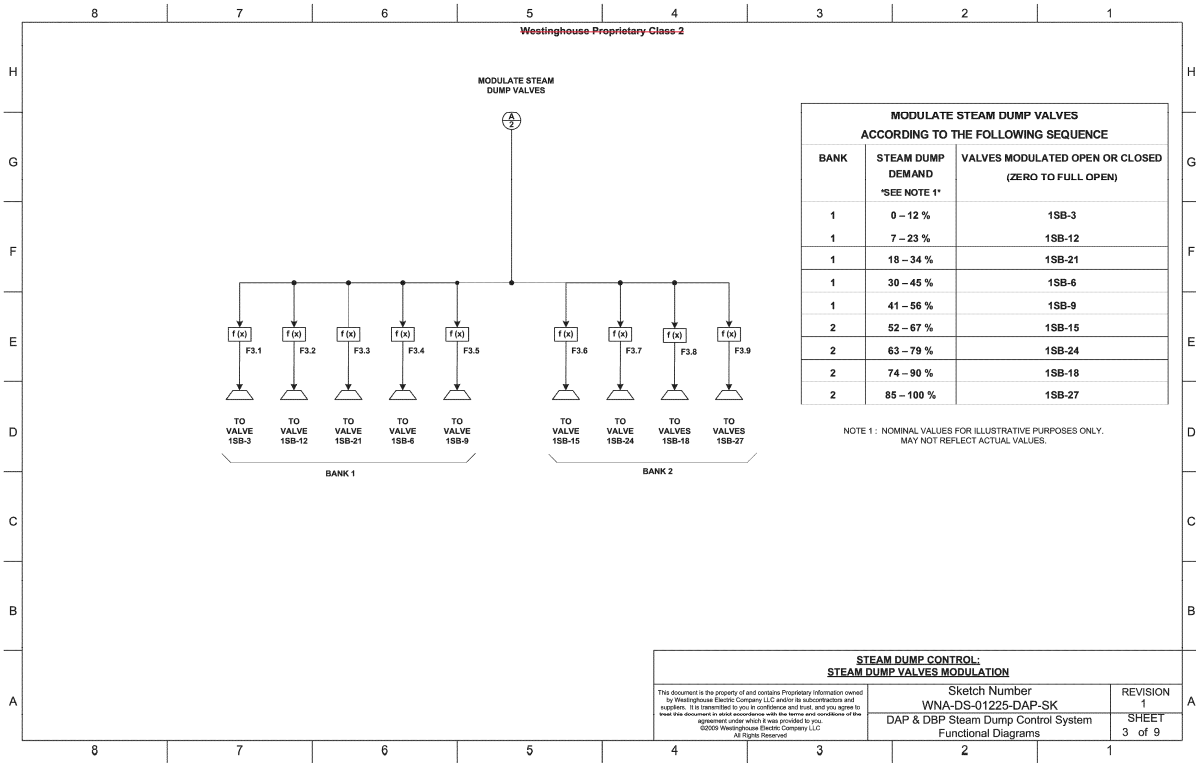


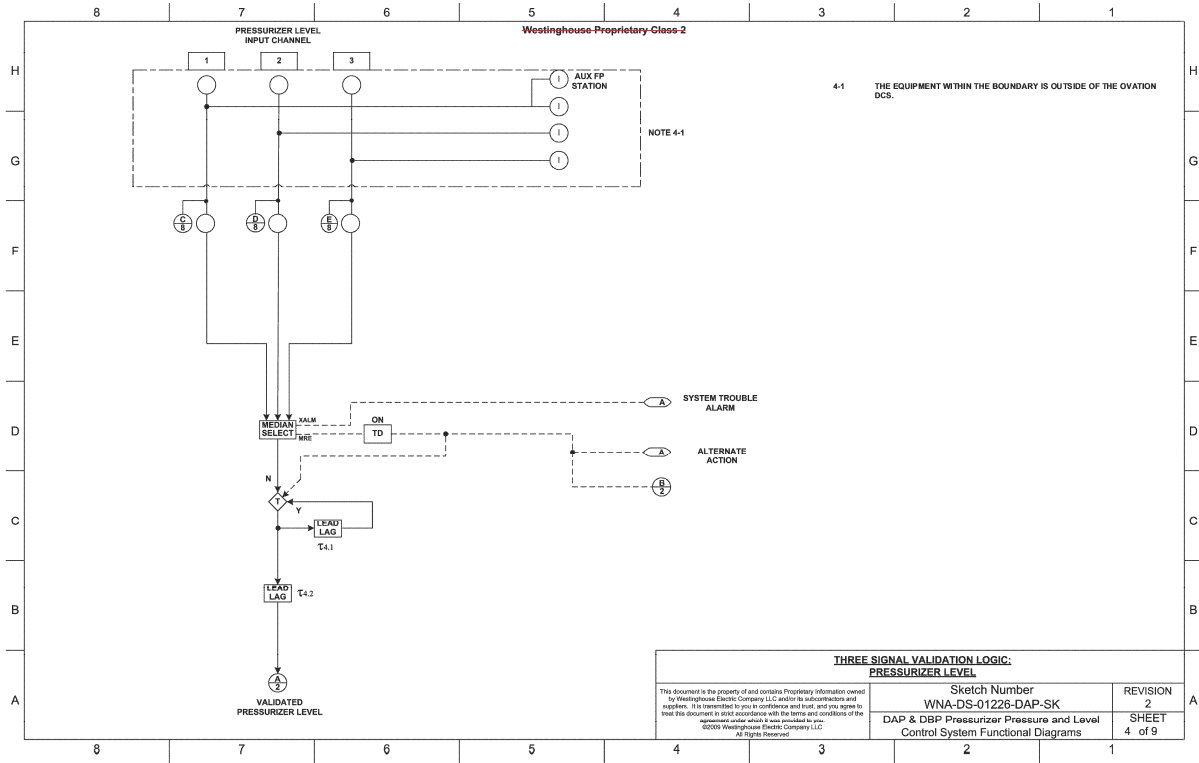


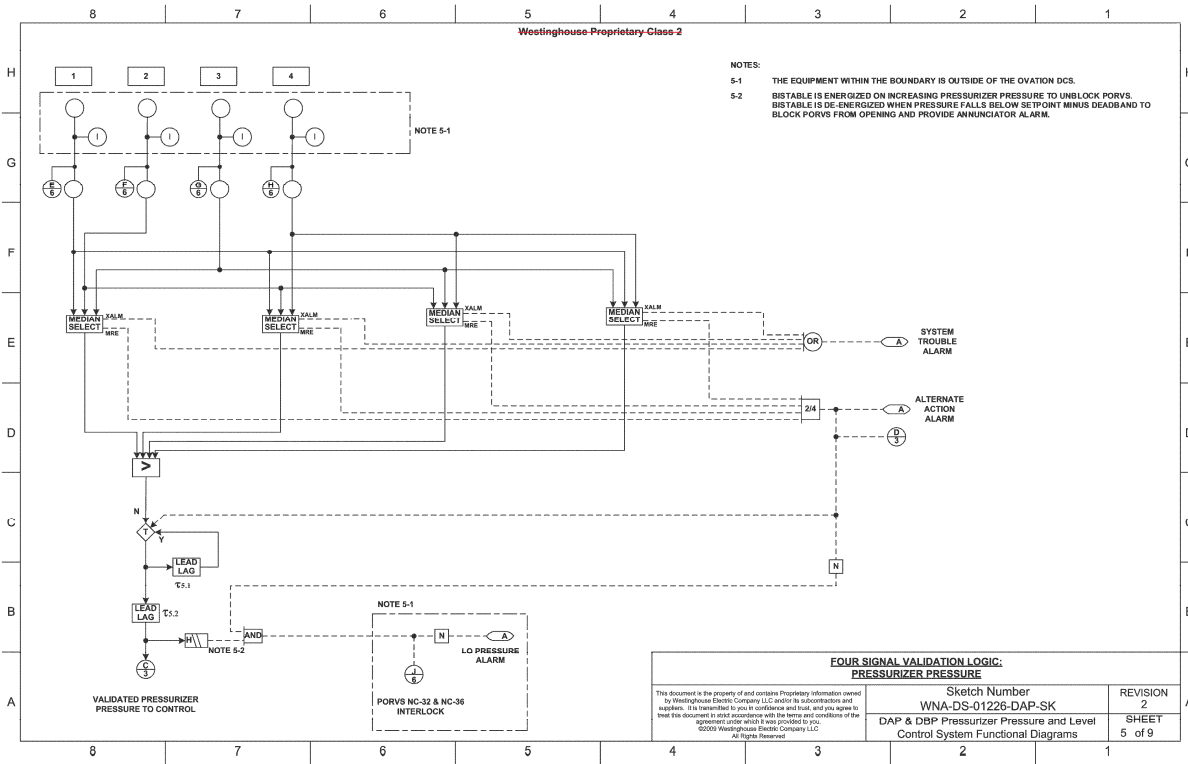
8		7		6		5		4		3		2		1							
Westinghouse Proprietary Class-2																					
H	FUNCTION & SYMBOL	DEFINITION										H									
G	SUMMING 	THE OUTPUT EQUALS THE ALGEBRAIC SUM OF THE INPUTS.										G									
F	AVERAGING 	THE OUTPUT EQUALS THE ALGEBRAIC SUM OF THE INPUTS DIVIDED BY THE NUMBER OF INPUTS.										F									
E	PROPORTIONAL 	THE OUTPUT IS DIRECTLY PROPORTIONAL TO THE INPUT (OUT = K*X).										E									
D	NONLINEAR OR UNSPECIFIED FUNCTION 	THE OUTPUT EQUALS SOME NON-LINEAR FUNCTION OF THE INPUT.										D									
C	HIGH SELECT 	THE OUTPUT IS EQUAL TO THAT INPUT WHICH IS THE GREATEST OF THE INPUTS.										C									
B	LOW SELECT 	THE OUTPUT IS EQUAL TO THAT INPUT WHICH IS THE LEAST OF THE INPUTS.										B									
A	ABSOLUTE VALUE 	THE OUTPUT IS THE ABSOLUTE VALUE OF THE INPUT.										A									
AUTOMATIC AND MANUAL SIGNAL PROCESSING SYMBOLS																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; font-size: small;"> This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company LLC and/or its subcontractors and suppliers. It is transmitted to you in confidence and trust, and you agree to treat this document in strict accordance with the terms and conditions of the agreement under which it was created by you. ©2009 Westinghouse Electric Company LLC All Rights Reserved </td> <td style="width: 25%;"> Sketch Number WNA-DS-01226-DAP-SK </td> <td style="width: 25%;"> REVISION 0 </td> </tr> <tr> <td colspan="2" style="text-align: center;"> DAP & DBP Pressurizer Pressure and Level Control System Functional Diagrams </td> <td style="text-align: center;"> SHEET 1B of 9 </td> </tr> </table>																This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company LLC and/or its subcontractors and suppliers. It is transmitted to you in confidence and trust, and you agree to treat this document in strict accordance with the terms and conditions of the agreement under which it was created by you. ©2009 Westinghouse Electric Company LLC All Rights Reserved	Sketch Number WNA-DS-01226-DAP-SK	REVISION 0	DAP & DBP Pressurizer Pressure and Level Control System Functional Diagrams		SHEET 1B of 9
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DAP & DBP Pressurizer Pressure and Level Control System Functional Diagrams		SHEET 1B of 9																			
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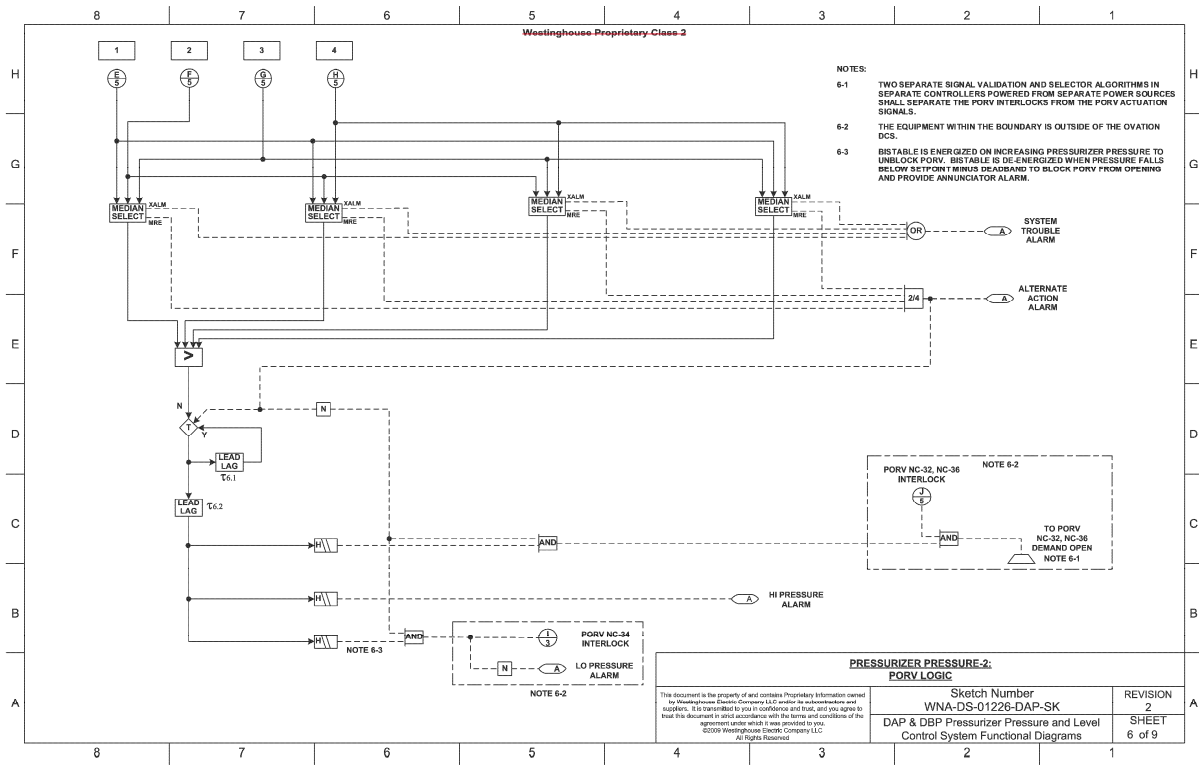
		8	7	6	5	4	3	2	1
Westinghouse Proprietary Class 2									
H	ENCLOSURE SYMBOLS				AND		TIME DELAY ON		LOWER INHIBIT
G	FUNCTION		ENCLOSURE SYMBOLS		<p>A --- AND --- A AND B</p>		<p>A --- TD --- B</p> <p>X SEC</p> <p>B BECOMES TRUE X SECONDS AFTER A BECOMES TRUE</p>		<p>(LW)</p> <p>INHIBIT FURTHER DECREASE OF M/A STATION DEMAND</p>
F	MEASURING OR READOUT		○		<p>A = ALARM</p> <p>M = MOMENTARY</p> <p>PB = PUSHBUTTON</p> <p>S = SUSTAINED SIGNAL</p>		<p>B BECOMES TRUE X SECONDS AFTER A BECOMES TRUE</p>		<p>INHIBIT FURTHER DECREASE OF M/A STATION DEMAND</p>
E	INTERNAL POINT		◐		OR		TIME DELAY OFF		RAISE INHIBIT
D	EXTERNAL POINT I/O		◑		<p>A --- OR --- A OR B</p>		<p>A --- TD --- B</p> <p>X SEC</p> <p>B BECOMES FALSE X SECONDS AFTER A BECOMES FALSE</p>		<p>(RA)</p> <p>INHIBITS FURTHER INCREASE OF M/A STATION DEMAND</p>
C	NON I/O GENERATED DIGITAL POINT		◒		XOR		NOT		MANUAL REJECT
B	REPRESENTS A LOGICAL SIGNAL (TRUE / FALSE)		-----		<p>A --- XOR --- A OR B, BUT NOT A AND B</p>		<p>A --- N --- NOT A</p>		<p>(MR)</p>
A	REPRESENTS A CONTINUOUS SIGNAL (NUMERICAL VALUE)		_____		ONE-SHOT		FLIP-FLOP		
					<p>A --- X SEC --- B</p> <p>B IS SET AND REMAINS TRUE FOR X SECONDS AFTER A BECOMES TRUE</p>		<p>A --- S --- C</p> <p>B --- R --- D</p> <p>C IS TRUE WHEN FLIP-FLOP IS SET BY A</p> <p>D IS TRUE WHEN FLIP-FLOP IS SET BY B</p> <p>NOTE: RESET OVERRIDES SET UNLESS OTHERWISE NOTED.</p>		
KEYSHEET FOR LOGIC SYMBOLS									
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				DAP & DBP Pressurizer Pressure and Level Control System Functional Diagrams			SHEET 1C of 9		

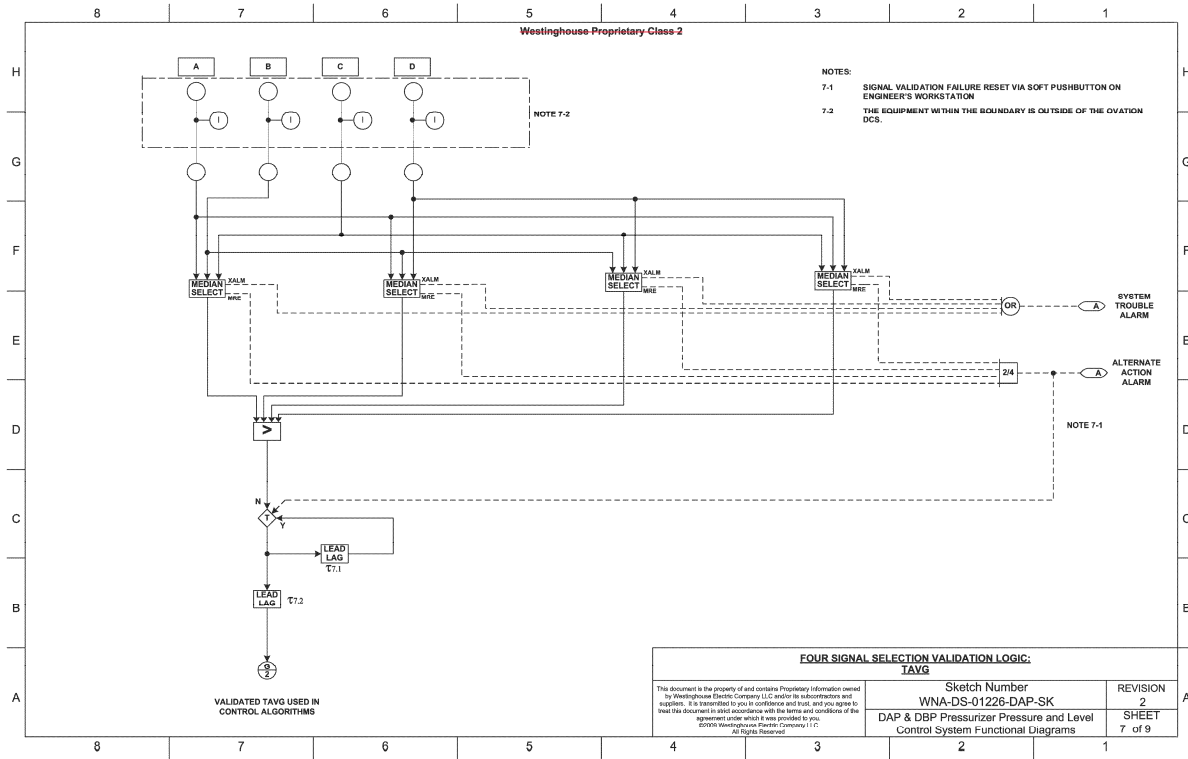


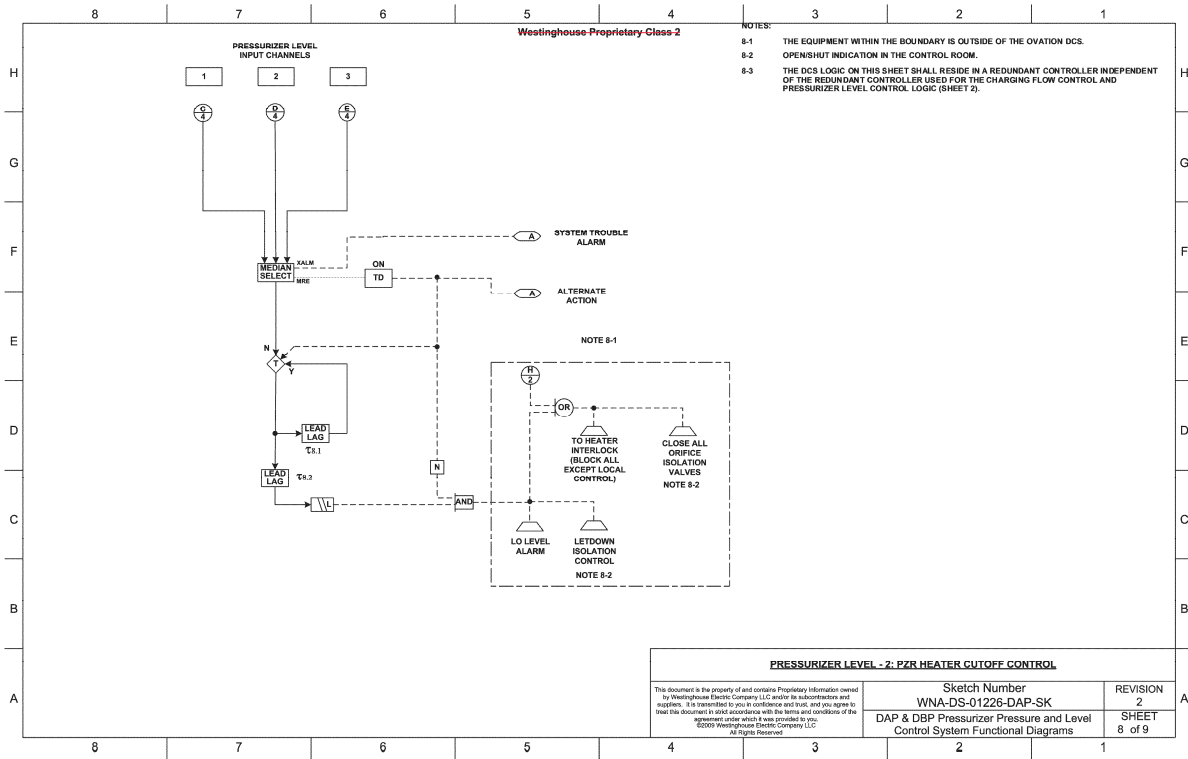












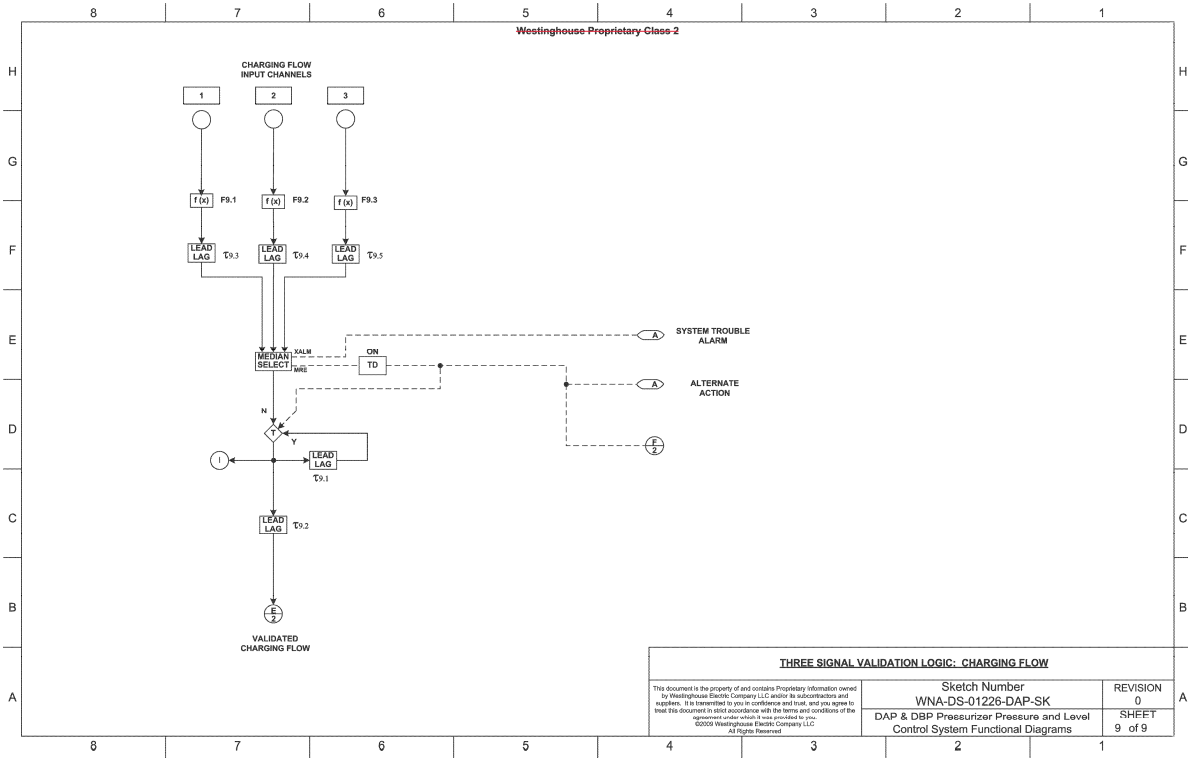
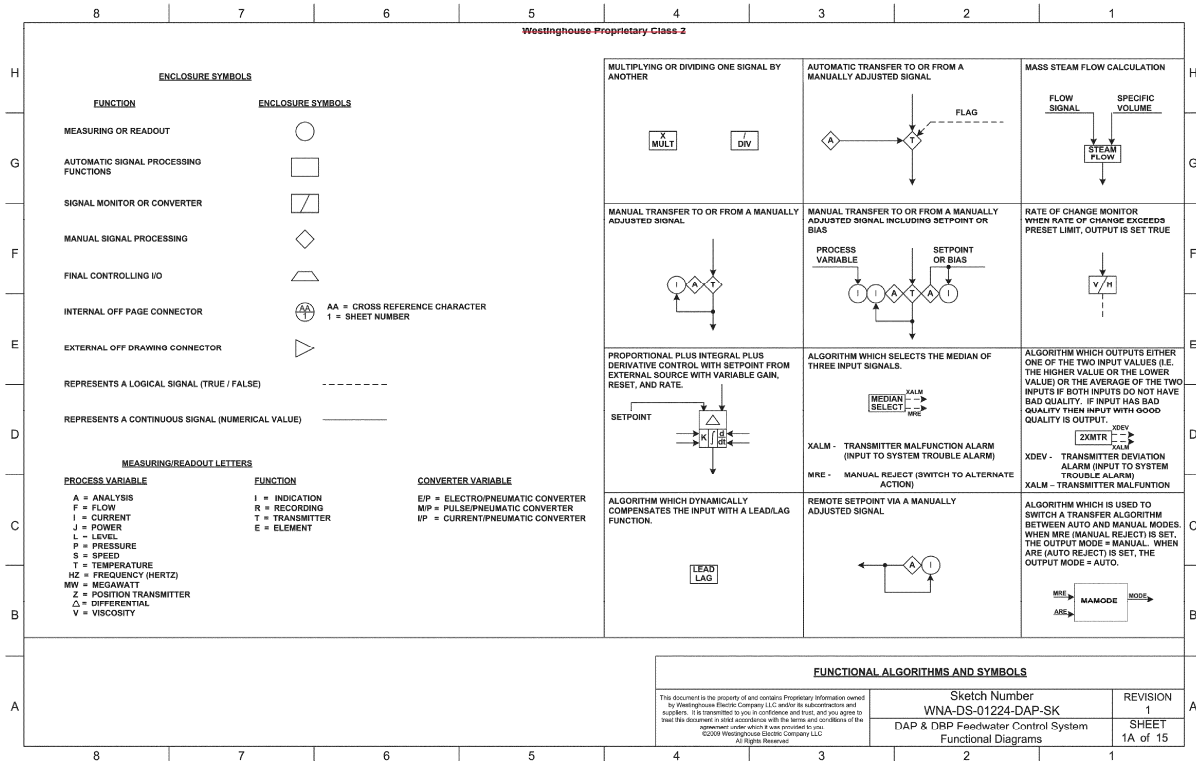
















Figure 7-35. DAP & DBP Feedwater Control System Functional Diagrams

		8	7	6	5	4	3	2	1																																																
Westinghouse Proprietary Class-2																																																									
H G F E D C B A	GENERAL NOTES:		1. THE LOGIC SHOWN IS FOR THE FWCS OF ONE STEAM GENERATOR EXCEPT WHERE SOME FUNCTIONS ARE SHARED. THE LOGIC FOR THE OTHER STEAM GENERATOR IS IDENTICAL. 2. OPERATIONS OR MAINTENANCE PERSONNEL SHALL HAVE THE ABILITY TO REMOVE ANY INPUT FROM SERVICE. 3. LEAD/LAG BLOCKS SHOWING SINGLE (SU) VALUE CORRESPOND TO A "LAG" IMPLEMENTATION WITH THE "LEAD" (SU) VALUE SET TO ZERO. 4. MODE DEPENDENCY OF ALARMS MAY NOT BE EXPLICITLY INDICATED. 5. SOME REDUNDANT CIRCUITS (E.G. REDUNDANT RLI CIRCUITS) AND ASSOCIATED FAILOVER LOGIC MAY NOT BE EXPLICITLY INDICATED. 6. DIVERSE M/A STATION CONFIGURATIONS (SLIMS AND SOFT CONTROL) ARE NOT EXPLICITLY SHOWN																																																						
	1	NOTES AND INDEX								REV. 2																																															
	1A	FUNCTIONAL ALGORITHM SYMBOLS								REV. 1																																															
	1B	AUTOMATIC AND MANUAL SIGNAL PROCESSING SYMBOLS								REV. 1																																															
	1C	KEYSHEET FOR LOGIC SYMBOLS								REV. 1																																															
	2	FEEDWATER FLOW DEMAND CALCULATION								REV. 2																																															
	3	VALVE LINEARIZATION CALCULATION								REV. 2																																															
	4	FEEDWATER PUMP TURBINE SPEED DEMAND CALCULATION								REV. 2																																															
	5	FOUR SIGNAL SELECTION & VALIDATION LOGIC-SG NR WATER LEVEL								REV. 2																																															
	6	TWO SIGNAL VALIDATION LOGIC WITH ARBITRATOR - STEAM FLOW								REV. 1																																															
	7	THREE SIGNAL VALIDATION LOGIC - FEEDWATER FLOW								REV. 1																																															
	8	TWO SIGNAL SELECTION BYPASS								REV. 2																																															
	9	THREE SIGNAL VALIDATION LOGIC - STEAM PRESSURE								REV. 2																																															
	10	FOUR SIGNAL SELECTION & VALIDATION LOGIC - DELTA T, AND FEEDWATER TEMPERATURE								REV. 2																																															
	11	FEEDSTEAM DELTA P								REV. 2																																															
12	FIVE SIGNAL VALIDATION LOGIC- FEEDPUMP SPEED								REV. 2																																																
13	TWO SIGNAL VALIDATION LOGIC WITH ARBITRATOR - FWP RECIRCULATION FLOW								REV. 1																																																
14	FWP RECIRCULATION VALVE CONTROL								REV. 1																																																
15	NUCLEAR POWER SIGNAL VALIDATION								REV. 0																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="font-size: small;"> This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company, LLC and/or its subcontractors and suppliers. The recipient's use of this document is restricted and you agree to treat this document in strict accordance with the terms and conditions of the agreement under which it was provided to you. ©2009 Westinghouse Electric Company, LLC All Rights Reserved </td> <td colspan="2" style="text-align: center;">Westinghouse Electric Company</td> <td colspan="3" style="text-align: center;">McGuire</td> </tr> <tr> <td colspan="3"></td> <td colspan="2" style="text-align: center;">Purchase Order # DS1846 002</td> <td colspan="3" style="text-align: center;">Units 1 & 2</td> </tr> <tr> <td colspan="3">DEVELOPED J.A. Pozek 3/2009</td> <td colspan="2" style="text-align: center;">Sketch Number</td> <td colspan="3" style="text-align: center;">REVISION</td> </tr> <tr> <td colspan="3">REVIEWED S.D. Whaley 3/2009</td> <td colspan="2" style="text-align: center;">WNA-DS-01224-DAP-SK</td> <td colspan="3" style="text-align: center;">2</td> </tr> <tr> <td colspan="3">APPROVED S.P. Zetts 3/2009</td> <td colspan="2" style="text-align: center;">DAP & DBP Feedwater Control System</td> <td colspan="3" style="text-align: center;">SHEET</td> </tr> <tr> <td colspan="3"></td> <td colspan="2" style="text-align: center;">Functional Diagrams</td> <td colspan="3" style="text-align: center;">1 of 15</td> </tr> </table>										This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company, LLC and/or its subcontractors and suppliers. The recipient's use of this document is restricted and you agree to treat this document in strict accordance with the terms and conditions of the agreement under which it was provided to you. ©2009 Westinghouse Electric Company, LLC All Rights Reserved			Westinghouse Electric Company		McGuire						Purchase Order # DS1846 002		Units 1 & 2			DEVELOPED J.A. Pozek 3/2009			Sketch Number		REVISION			REVIEWED S.D. Whaley 3/2009			WNA-DS-01224-DAP-SK		2			APPROVED S.P. Zetts 3/2009			DAP & DBP Feedwater Control System		SHEET						Functional Diagrams		1 of 15		
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			Functional Diagrams		1 of 15																																																				



8		7		6		5		4		3		2		1	
Westinghouse-Proprietary Class-2															
H	FUNCTION & SYMBOL											DEFINITION	H		
G	SUMMING 											THE OUTPUT EQUALS THE ALGEBRAIC SUM OF THE INPUTS.	G		
F	AVERAGING 											THE OUTPUT EQUALS THE ALGEBRAIC SUM OF THE INPUTS DIVIDED BY THE NUMBER OF INPUTS.	F		
E	PROPORTIONAL 											THE OUTPUT IS DIRECTLY PROPORTIONAL TO THE INPUT (OUT = K*X).	E		
D	NON-LINEAR OR UNSPECIFIED FUNCTION 											THE OUTPUT EQUALS SOME NON-LINEAR FUNCTION OF THE INPUT.	D		
C	HIGH SELECT 											THE OUTPUT IS EQUAL TO THAT INPUT WHICH IS THE GREATEST OF THE INPUTS.	C		
B	LOW SELECT 											THE OUTPUT IS EQUAL TO THAT INPUT WHICH IS THE LEAST OF THE INPUTS.	B		
A	ABSOLUTE VALUE 											THE OUTPUT IS THE ABSOLUTE VALUE OF THE INPUT.	A		
AUTOMATIC AND MANUAL SIGNAL PROCESSING SYMBOLS												H			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px; vertical-align: top;"> This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company LLC and/or its subsidiaries and its suppliers. It is transmitted by you in confidence and trust, and you agree to hold this document in strict accordance with the terms and conditions of the agreement under which it was provided to you. ©2009 Westinghouse Electric Company LLC All Rights Reserved. </td> <td style="text-align: center; vertical-align: top;"> Sketch Number WNA-DS-01224-DAP-SK DAP & DBP Feedwater Control System Functional Diagrams </td> <td style="text-align: center; vertical-align: top;"> REVISION 1 SHEET 1B of 15 </td> </tr> </table>												This document is the property of and contains Proprietary Information owned by Westinghouse Electric Company LLC and/or its subsidiaries and its suppliers. It is transmitted by you in confidence and trust, and you agree to hold this document in strict accordance with the terms and conditions of the agreement under which it was provided to you. ©2009 Westinghouse Electric Company LLC All Rights Reserved.	Sketch Number WNA-DS-01224-DAP-SK DAP & DBP Feedwater Control System Functional Diagrams	REVISION 1 SHEET 1B of 15	H
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G	ANALOG SIGNAL GENERATOR 											THE OUTPUT IS AN ANALOG SIGNAL ASSIGNED WITHIN THE CONTROLLER.	G		
F	TRANSFER 											THE OUTPUT EQUALS THE INPUT WHICH HAS BEEN SELECTED BY TRANSFER. THE STATE OF THE TRANSFER IS ESTABLISHED BY EXTERNAL MEANS.	F		
E	HIGH SIGNAL MONITOR 											THE OUTPUT HAS DISCRETE STATES WHICH ARE DEPENDENT ON THE VALUE OF THE INPUT. WHEN THE INPUT EXCEEDS (OR BECOMES LESS THAN) AN ASSIGNED LIMIT VALUE THE OUTPUT CHANGES STATE.	E		
D	LOW SIGNAL MONITOR 												D		
C	HIGH/LOW SIGNAL MONITOR 											THE OUTPUT IS TRUE IF THE INPUT HAS BAD QUALITY OR IF ITS VALUE IS NOT BEING REPORTED.	C		
B	QUALITY SIGNAL MONITOR 												B		
A	SQUARE ROOT 											THE OUTPUT IS THE SQUARE ROOT OF THE INPUT.	A		
8		7		6		5		4		3		2		1	

		8	7	6	5	4	3	2	1
Westinghouse Proprietary-Class 2									
H		ENCLOSURE SYMBOLS			AND		TIME DELAY ON		LOWER INHIBIT
G		FUNCTION			ENCLOSURE SYMBOLS		OR		TIME DELAY OFF
F		MEASURING OR READOUT			INTERNAL POINT		XOR		NOT
E		INTERNAL POINT			EXTERNAL POINT I/O		ONE-SHOT		FLIP-FLOP
D		EXTERNAL POINT I/O			NON I/O GENERATED DIGITAL POINT		MANUAL REJECT		SPECIFIC VOLUME
C		REPRESENTS A LOGICAL SIGNAL (TRUE / FALSE)			REPRESENTS A CONTINUOUS SIGNAL (NUMERICAL VALUE)		UNSET		SET
B		REPRESENTS A LOGICAL SIGNAL (TRUE / FALSE)			REPRESENTS A CONTINUOUS SIGNAL (NUMERICAL VALUE)		UNSET		SET
A		REPRESENTS A LOGICAL SIGNAL (TRUE / FALSE)			REPRESENTS A CONTINUOUS SIGNAL (NUMERICAL VALUE)		UNSET		SET

KEYSHEET FOR LOGIC SYMBOLS		
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	DAP & DBP Feedwater Control System Functional Diagrams	SHEET 1C of 15

