

MOTOR-DRIVEN AUXILIARY FEEDWATER SYSTEM
(P-38A & P-38B)

- 3.17 On a loss of instrument air, the back press control valves (AF-4012 and AF-4019) are backed up by nitrogen to provide continued operation for greater than one hour. For extended operation an installed spare nitrogen cylinder must be valved in.
- 3.18 On line nitrogen cylinders should be changed out when pressure drops below 1850 psig to ensure operational design requirements are met. (Ref. CALC M-09334-266-IA.1)
- 3.19 On a loss of instrument air, the mini-recirc valves fail closed. The pumps should **NOT** be run with a flow less than 75 gpm without manually gagging the valves (AF-4007 & AF-4014) open.
- 3.20 AF-4012 and AF-4019, P38A(B) AFP Discharge Control valves SHALL be set to 1200 psi whenever the valves are in AUTO, or declared inoperable.
- 3.21 The minimum recirculation flow is 70 gpm.
- 3.22 The motor driven auxiliary feedwater pump is designed to deliver 200 gpm at 1192 psi with a shutoff head of 1305 psi.
- 3.23 There is a possibility that discharge MOV control switches can be placed in an "intermediate" position. Whenever the mode of operation (AUTO/MANUAL) is changed, the MOV control switch should be operated in the desired position (OPEN or SHUT), to verify the switch is **NOT** in the intermediate position.
- 3.24 Loss of DC power to the automatic logic is indicated by the white light near the control switches going out and 1C01A 2-8 (2-10), Auxiliary Feedwater System Disabled, alarm annunciating.
- 3.25 Motor-Driven Auxiliary Feedwater Pump Discharge MOV Modes of Operation:
- The automatic position (pushed-in) allows the valves to automatically open or shut.
 - The manual position (pulled-out) allows operator control of the valves, except that an automatic shut signal shuts the valve.
- 3.26 1C01A 2-8 (2-10), Auxiliary Feedwater System Disabled alarm annunciates whenever the control switch is in the manual (full pull-out) position. This indicates automatic actuation is restricted.

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