

Burner Management System Sequence

Permissive (Gas On)
Low Pressure Switch – Made
High Pressure Switch – Made
Proof of Closure Switches – Made
Double Block and Bleed/Vent – Open
Air Pressure Switch – Not Made
Air Position (verify low fire position) <ul style="list-style-type: none"> – Low Fire (Made) – High Fire (Not Made)
UV Detector – No Flame Detected

BMS Sequence
Combustion Air Blower Energized
Air Pressure Switch – Made
Low → High Fire combustion Air Damper Position
Self-Checking UV Detector Scanning (No Flame)
Proof of Closure Switch – Made
Low Pressure Switch – Made
High Pressure Switch – Made
Minimum 4 Full Volume Changes (Water Tube Boilers- Min. 8) (Blower CFM, fire box size, venting/stacks, pre-heated air)
High → Low Fire Air Position
Pilot SSOV 1 & 2 Energized <ul style="list-style-type: none"> – Maximum 10 seconds for ignition
Self-Checking UV Detector senses pilot flame
Main SSOV 1 & 2 - Energized, Maximum 15 seconds for ignition <ul style="list-style-type: none"> – DB&B Closes (if applicable)
Self-Checking UV Detects main flame
Pilot SSOV 1 & 2 close
BMS runs into auto mode (monitoring interlocks)