

AFS Energy Systems is pleased to announce that we have accepted a contract to design a second 31.0 MMBTU/HR gas burner for the Musser Lumber Company in Rural Retreat, VA.

In addition to being selected for the burner system AFS is overseeing thing engineering, fabrication, and installation of the entire dry biomass in feed system. The combination of these systems makes AFS a total energy provider for Musser Lumber's energy and heating needs.

Musser Lumber Company is a provider of top-quality Northern Appalachian hardwood lumber to commercial, industrial, and residential clients across the globe. Musser Lumber Company purchases green lumber throughout Virginia, West Virginia, Ohio, and Pennsylvania to produce industry leading kiln dried Northern Appalachian hardwood lumber.

AFS Direct Fired NG Furnace & Mixing Chamber complete with a 31.0 MMBTU/ HR Natural Gas Fired Burner System.

The system mixes ambient air with the combustion gases to deliver 250° F air to the dryer inlet including:

- 31.0 MMBTU/ HR natural gas burner with a modulating range of 7:1.
- Siemens state of the art burner control system.
- Swing out burner with access platform and railing for ease of maintenance.
- Mixing chamber with structural support steel insulated and jacketed.
- Ambient air intake louvers on all sides of chamber.
- Hot air supply duct to the dryer inlet insulated and jacketed.
- NFPA / UL gas train and natural gas piping to the burner.
- Pre-wired starter panel with solid state variable speed controller mounted in the UL master control cabinet.
- Field controls including thermocouples and high limit RTD.

The AFS turnkey process is handling all aspects of the project from the engineering, fabrication, installation supervision & labor, material, & training. AFS is onsite at the facility for the start-up, testing, and training. AFS directly coordinates PLC programing and start-up with DryerOne and Musser Lumber maintenance personnel.