



Thermal Oil Heating Systems Kronospan – Eastaboga Alabama

Kronospan LLC commissioned a new high density fibreboard (HDF) plant in 2008 in the state of Alabama. Kronospan owns and operates medium density fibreboard (MDF) and HDF facilities around the world. This is their first board plant built in North America and incorporates many European design features proven in their other plants.

A key element of the HDF plant is the wood-fired energy system that provides process heat in the form of thermal oil for the board presses and steam generation, as well as hot gases to dry the fibres. When Kronospan selected Wellons Canada to supply and install this energy system, it was looking for a supplier with extensive North American biomass energy system experience, but also for a company with the engineering capability to integrate Kronospan's preferred European design features into the final system configuration.

Wellons design and equipment scope included:

- A 22 MW hog fuel fired thermal oil system incorporating a step grate combustor, and radiant helical coil and cassette style convective thermal oil heaters.
- An 8 MW sander dust fired thermal oil heater using only helical coil heaters.
- A 13 MW gas fired back up thermal oil heater
- Flue gas design to provide 20 MW of hot gas to the face of the fiber dryer. This included a MACT compliant dry ESP in the flue gas ducting upstream of the dryer inlet.
- Steam generation for fiber refining
- Two (2) live floor fuel storage bins
- Electrical and controls
- Mechanical installation



For more information about this project please contact Wellons Canada at 1.888.211.6077
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