



Formica Corporation

Evendale, Ohio

New Natural Gas and Biomass Boiler Plant

Problem

The existing coal fired boiler plant was antiquated, in very poor condition, and environmentally non compliant. In addition, Formica did not have funding for a new boiler house project that would have addressed the steam requirements for ongoing plant operations.

Resolution

Optimira built a completely new boiler house consisting of (3) 60,000 lb/hr natural gas fired boilers and (1) 20,000 lb/hr wood fired/Formica waste burning boiler that would be environmentally compliant. Optimira had complete responsibility for the project including air quality and remediation environmental permitting.

Project Description

A boiler house consisting of (3) 60,000 lb/hr natural gas fired boilers, and (1) 20,000 lb/hr wood fired boiler operating @ 250 psig conditions. The project encompassed rigging and boiler installation, boiler stacks, a water treatment system, salt storage/brine mixing, the installation of air compressors, insulated piping, mechanical and electrical interconnections, boiler control system, storage silo, blowdown flash tanks, heat exchanger, blowpipe system vent, ash removal system, mechanical and electrical interconnections, fire protection, total electrical and MCC, and other mechanical equipment.

The Optimira team was involved in site preparation, environmental permitting and testing, engineering mechanicals, and project management.

The project also included the demolitions of the existing Formica boiler house.



End Result

Optimira funded the project. Formica paid Optimira the plant owning and operating cost via payment for the unit cost of steam.