MDF PLANT DESIGN

PROJECT PROFILE

CLIENT: **Georgia-Pacific Corporation**
LOCATION: **Monticello, Georgia**

The Scope of this project was to provide preliminary engineering. AFE class capital estimate, and detailed engineering for a greenfield MDF plant. The plant was designed to produce 210-mm ft^2, sanded thin board MDF (1/8") with a continuous roll type press utilizing Southern Pine chips and sawdust and urea-formaldehyde resin. Evergreen served as the primary engineer throughout the project, providing site development, facilities, utilities, foundations, electrical/lighting, controls, materials handling, and equipment interface engineering.

Environmental issues were a significant challenge to overcome on this project. Evergreen provided all the consulting services to complete the environmental permits. Several operating plants were visited, including state-of-the-art facilities in Canada, Germany and Italy, to resolve final equipment selection issues.

Other Items of Interest:

- Plant situated on a gently sloping hillside requiring significant civil engineering
- State-of-the-art air emission abatement equipment including high efficiency cyclones, fabric filters and very high efficiency cartridge filter, regenerative thermal oxidizer (RTO), low NO_x burners and rotary bed filters
- PLC controlled, fiberoptic ethernet data highway, MMI control screen, and computer trending and printing capability
- Plant utilizes existing furnish storage area which was expanded and three 25 unit silos added for in-line storage
- Complete aerated propane back-up system
- Steam heat exchanger for dryer heat
- Flash tube dryer.
- New 50,000 pph boiler plant

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