

250,000 PPH PACKAGE BOILER

(Selection and Installation)

CLIENT: Weyerhaeuser Paper Company (now International Paper Company)
LOCATION: Springfield, Oregon

The scope of this project was as follows:

1. Study present plant steam production and usage during critical periods to determine the additional boiler requirements.
2. Ensure that equipment required on the boiler meets present and future EPA requirements.
3. Total scheduling from selection through start-up.
4. Select boiler.
5. Provide dual fuel equipment.
6. Provide budgetary costs.
7. Total engineering for boiler installation.
8. Start-up assistance.

The following engineering skills were required in this project:

- Plant process evaluation
- Emission requirements
- Emission controls
- Budget controls
- Project scheduling
- Project management
- Complete understanding of steam generation and control
- Foundation design
- Building design
- Structural, including free-standing stack
- Electrical
- Instrumentation and controls
- Burner management
- Flame safety
- Piping design & stress analysis
- FM and insurance carrier requirements for boilers
- Valve sizing and requirements
- Start-up
- Drawing requirements and standards

