

WOOD PELLET PLANT

CLIENT: Bear Mountain Forest Products
LOCATION: Brownsville, Oregon

Evergreen Engineering®, Inc., provided civil, structural, mechanical, piping, electrical design, and control programming for a project that doubled the production capacity to 175,000 tons/yr of an existing pellet plant. In addition to providing all the engineering for the project, Evergreen provided overall project management and start-up assistance for the owner. The project included new material handling, sizing and screening, three new pellet mills, pellet cooling, and a packaging line. A second dryer with a WESP and dust burner was also added.

Evergreen's design covered the following:

- Civil/Structural
 - Equipment & WESP foundation
 - Equipment supports and platforms
- Mechanical/Piping
 - Facility general arrangements
 - P&IDs and PFDs
 - Design of fabricated equipment
 - Equipment selection
 - Dust burner
 - Material handling and sizing equipment
 - Drying equipment
 - Pellet production equipment
 - Dust collection and conveying equipment
 - Design of natural gas piping system
- Electrical
 - New service transformer and switchgear
 - Design of MCC's, VFD's, and Softstarts
 - Design of power, grounding, lighting, and controls
 - PLC and HMI programming
- Project Management
 - Project budgeting and scheduling
 - Contractor coordination

