

## 2. DESCRIPTION OF FACILITY

---

Renewable Biomass Group is proposing to construct and operate a wood pellet manufacturing facility in Adel, Cook County, Georgia. The operations are categorized under Standard Industrial Classification (SIC) code 2499, Wood Products – Not Elsewhere Classified. The Adel Facility will process whole logs, green wood residuals, and dry shavings into wood pellets to produce a source of alternative renewable fuel.

The Adel Facility operations will include the following equipment:

- ▶ One (1) truck tipper for green residuals;
- ▶ One (1) roundwood pile;
- ▶ One (1) drum debarker;
- ▶ One (1) chipper;
- ▶ One (1) bark storage pile;
- ▶ One (1) green chip storage pile;
- ▶ One (1) green hammermill;
- ▶ One (1) biomass-fired dryer;
- ▶ One (1) dry chips storage system;
- ▶ Three (3) dry hammermills;
- ▶ Eleven (11) pellet mills;
- ▶ Three (3) pellet coolers;
- ▶ Two (2) pellet storage silos; and
- ▶ One (1) pellet loadout area.

The Adel Facility will have an annual pellet production capacity of 450,000 metric tons per year (approximately 497,000 U.S. short tons per year) and will have the potential for continuous operation. All future references to tons in this permit application are in terms of U.S. short tons.

### 2.1 Raw Material Receiving and Processing

To optimize flexibility at the Adel Facility, Renewable Biomass Group plans to have the ability to receive raw material in the form of whole logs or green residuals.

Renewable Biomass Group will have the ability to bring softwood whole logs into the Adel Facility via trucks at a maximum annual capacity of 1,110,000 tons. Logs are unloaded at the unbinding rack and are stored in the whole log pile. The logs will be moved from the pile through a debarker and chipper to be processed into green chips. Bark from the debarker will be routed to the bark hog.

Additionally, Renewable Biomass Group will have the ability to bring green residuals to the facility by truck at a maximum annual capacity of 435,000 tons, where one (1) truck tipper will transfer the green residuals into the processing area along with green chips processed from the whole logs. The residuals will be screened and will be transported through on-site conveyors to the green hammermill as needed.

### 2.2 Green Hammermilling

The green hammermill enhances the in-feed quality of the wood residuals prior to the drying process. Renewable Biomass Group plans to install one (1) green hammermill at the Adel Facility. The green hammermill reduces the chip size to ½ inch. From the green hammermill, the material will be conveyed to