1 Buckeye Drive
Perry, FL 32348-7702

Contact Information:
Director: Lonnie O. Ingram
ingram@ufl.edu | 352-392-8176

Plant Manager: Ralph Hoffman
rhoff@ufl.edu | 850-584-4507

Chief Process Engineer: Ismael U. Nieves
ismael.nieves@ufl.edu | 850-584-4507
Everything entering the process leaves as a commercial product.

**Step 1. BIOMASS FEED**

**Step 2. PRETREATMENT**

**Step 3. LIQUEFACTION**

**Step 4. SEED PROPAGATION**

**Step 5. FERMENTATION**

**Step 6. BEER WELL**

**Step 7. DISTILLATION**

**Step 8. DECANTER**

**Step 9. DATA ANALYSIS**

**PROCESS CHEMICALS:**
Magnesium Sulfate, Trace Metals, N, P, K

- Fertilizer Co-Products
- Solid Boiler Fuel Co-Products
  - 1-2 tons/day

- Ethanol
  - 210-350 tons/day

**Day 0:**
- Pretreatment
- Liquefaction

**Day 1:**
- Fermentation

**Day 1-3:**
- Beer Well
- Distillation
- Decanter

- Seed Propagation