



## COFFEE PLANT CONTROLS & AUTOMATION

CLIENT - Reily Foods  
LOCATION - Knoxville, TN  
COMPLETED - February 2007

### DESCRIPTION

Matrix PDM Engineering provided electrical and control system design for the new plant to receive, blend, roast, grind and package coffee that features two million pounds of green and roasted storage capacity and roasting capability of 6,000 lb/hr. The project included a new coffee plant building design on the existing client site.

The project included a ControlLogix-based control system for the coffee roaster and balance of the plant, an integrated coffee production planning, operation and tracking solution, ability to plan production activity based on the automated inventory updates, product recipe management for blending and roasting, and the ability to track product genealogy from green bean lot through roasting to ground fill production runs.

Matrix also developed a manufacturing execution system (MES) that serves as an interface between the client's business system and the plant floor. The MES layer consists of a SQL database and a web-based application, which enables the client to manage the day-to-day production.

### PRINCIPAL FEATURES

- Electrical and controls design
- Control system integration
- Balance of plant work
- Scheduling and execution

**FOR MORE INFORMATION:**

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