

MMT GASOLINE ADDITIVE SYSTEM DESIGN

RICHMOND, INDIANA; ST. LOUIS, MISSOURI

Prime Engineering installed a new MMT gasoline additive system at Kinder Morgan's Richmond, Indianola, and St. Louis Terminals. The system was designed to boost the octane of gasoline blended at the terminals. The MMT additive is injected directly into blend tanks and then mixed homogeneously with a mixing jet.

The injection system includes a storage tank with metering and injection skid which dispenses the additive at the tank injection nozzle. The terminals receive transmix pipelines and process it into gasoline and diesel.

Design for all sites includes the following:

- Two-cell concrete containment structure (29' x 14' x 6")
- 14,000-liter MMT additive tank with a 3- to 5-psig nitrogen blanket, supplied from B tanks attached to the exterior tank support frame
- Mechanical, electrical, structural, site development, and engineering disciplines

