

## Lamar Energy Plant – Luminant, Paris, Texas (formerly NextEra, Lamar Power Partners, LP, and Panda Energy International)



Hayter Engineering has enjoyed an on-going relationship with the Lamar Energy Plant since 1998. The plant is operated by a subsidiary of NextEra Energy Resources. It is a 1,000-megawatt combined-cycle, natural gas-fired power plant operating approximately 16 hours every day, and when operating at full power generates enough electricity for about 1 million homes. Commercial operation began in 2000. Projects that Hayter Engineering performed are:

- o **Route Study** – the initial work for the new energy plant in Paris began with a route study in 1998 for alternate pipeline routes and surveying.
- o **30" Raw Water Transmission Main** – this is an 8 mile pipeline from the City of Paris Water Treatment Plant near Lake Crook to the Lamar Energy Plant which is located on South Loop 286. This project was completed in 1999.
- o **Raw Water Pumping/Vertical Turbine Pumps** – a new raw water pump station was built at the power plant and three vertical turbine pumps were installed at the City of Paris Water Treatment Plant to serve the power plant. This project was completed in 2000.
- o **Sanitary Sewer Force Main and Cooling Tower Blowdown Wastewater** – 4" class 200 PVC sanitary force main and 12" DR 14 PVC cooling tower blowdown. This project was completed in 2000.
- o **Expansion Survey** – preliminary pipeline route which included cross section surveys, staking and GPS coordinates from Pat Mayse Lake to Lamar Energy Center. This project was completed in 2008.
- o **Stormwater Detention Basin Modification** – design modifications to the existing detention basin to allow retention of flows and subsequent piping to the plant outfall. Design was complete in 2012.
- o **20" Raw Water Pipeline to Daisy Dairy** – This project extended a 20" raw water line about 4 miles from the NextEra power generation plant near Paris to Daisy Farms. This project also included metering facilities, a booster pump station, and controls designed to add NextEra wastewater discharges to the new pipeline in the future. The project was completed in 2014.

### CLIENT

NextEra Energy Resources

### CONTACTS

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### CONSTRUCTION COSTS

Route Study

30" Raw Water Transmission Main:  
\$4,498,545.99

Pump Station: \$1,015,610.00

Sanitary Sewer Force Main and  
Cooling Tower Blowdown  
Wastewater: \$305,111.74

Expansion Survey: \$25,830.00

Detention Basin: \$18,929.00

20" Raw Water Pipeline: \$1,471,290.29

### SERVICES PROVIDED:

Civil Design

Cost Estimating

Design Surveying

Geotechnical Engineering

Electrical Specifications

TxDOT Permits

Construction Bid & Award

O & M Manuals

Construction Review

Record Drawings

One-Year Warranty Review