

Client

Suffolk County Dept. of Public Works
 335 Yaphank Avenue
 Yaphank, NY 11980
 631-852-4225

Contact: Michael Monaghan, PE
 Chief Engineer, Facilities Engineering



Project Description

Design Phase:

In 2013 N&P completed bid documents on time and on budget for a 2,400 scfm (equal to approx. 20 gasoline gallons per minute), 3,600 psi CNG filling station at the DPW’s main complex located in Yaphank. The station’s design included two electric drive compressors to provide up to 1,600 scfm with all necessary electrical, plumbing, and controls to add a third compressor at any time to provide the full station capacity. The station features a regenerative gas dryer, storage tubes for approximately 330 gasoline gallon equivalents of CNG fuel, four high flow dispenser nozzles, and a time fill station. To achieve the County’s goals of minimizing operating costs, N&P’s design included a natural gas generator and a PLC control panel to schedule operation of the compressors to run from generator power as opposed to utility power during peak electric rate periods. The design also included a vented canopy to be installed above the filling area, and site improvements at the Yaphank Complex for improved traffic flow.

Future Services:

N&P will provide bid phase, construction administration and training services to the County as the project progresses. Construction administration will include full-time construction inspection services. Training services will include providing full operations and safety training to the County’s staff.

Relevant Project Components

- Natural Gas Compression, Controls and Dispensing System Design
- Mechanical, Electrical and Plumbing Design
- Station Layout and Site Design
- Survey; Base Mapping
- NEPA/FHWA/SEQRA Environmental Review
- Permitting
- Grant Review; Monitoring
- SWPPP Plan
- Bid Documents
- Training Manual/On-Site Training
- Bid Phase Services
- Construction Administration

