TAMPA FUEL FARM STUDY AND DESIGN

TAMPA INTERNATIONAL AIRPORT

To help the Tampa Fuel Committee (TFC) upgrade Tampa International Airport's 45-year-old fuel farm, Prime Engineering designed a state-of-the art replacement facility. The new ~$9.5 million facility features automated control centers, a post-tensioned concrete pump pad, and five new variable-speed hydrant pumps.

The state-of-the-art facility consists of the following components:

- ***New Hydrant Pumping System*** featuring variable-speed pumps and filters as well as a 3,600-gpm above-grade diesel fuel tank
- ***New Controls System*** featuring motor control center and automated, sensor-driven monitors
- ***Renovation of Existing Control Building*** including full architectural and structural upgrade
- ***Repurposing of Existing Pumping Facility*** including economically and environmentally friendly reuse of existing materials
- ***Site Work*** including complete utilities package, security upgrades, and road repairs

Challenges included:

- The project site previously contained several old fuel farms with buried, abandoned fuel lines -- a potential environmental hazard.
- The existing airport fueling system had to remain active during construction, requiring complex phasing.
- The project was constructed in severe Florida coastal weather.

Despite these issues, the Tampa International Airport Fuel Farm met or exceeded all operational benchmarks while staying under budget.