

S. T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS



BUCKEYE PARTNERS L.P.

PORT EVERGLADES PUMP STATION JET FUEL TRANSFER IMPROVEMENTS
FORT LAUDERDALE, FLORIDA





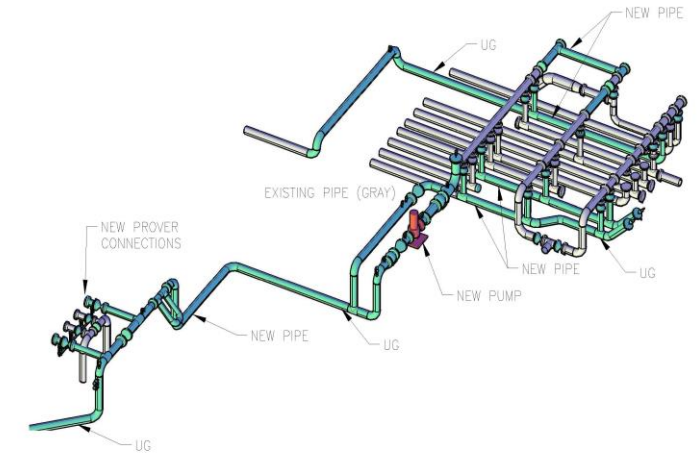
PROJECT SUMMARY



S. T. Hudson Engineers, Inc. was selected by Buckeye Partners, L.P. to design upgrades to the piping, pumping, electrical, and instrumentation systems necessary to increase jet fuel pumping rates to Fort Lauderdale Airport (FLL) and Miami International Airport (MIA). This project removed a pumping station bottleneck and allowed Buckeye to transfer jet fuel to both FLL and MIA simultaneously. The project also included the installation of a dedicated booster pump, custody transfer meter, and modifications to the shipper manifold at the Buckeye Port Everglades Pump Station.

PROJECT SCOPE

- Equipment
 - Installation of new 250 HP vertical deep well pump.
 - Installation of new Coriolis custody transfer meter
- Instrumentation/ Electrical
 - Tie into spare breaker on 4160 bus
 - Installation of new pad-mounted 4160-480V transformer for 250HP motor
 - New meter station with Coriolis meter, temp/pressure transmitters, and signal wiring to control system
 - Integrate variable frequency drive into existing control system
 - Install suction & discharge pressure transmitters
- Piping
 - Install 10 MOV's and modify existing manifold
 - Piping tie-in from manifold to booster pump
 - Install underground piping from booster pump to new meter station
 - Install underground piping from meter station to existing Buckeye pig station and tie in piping.



PLAN NEW PIPE



PHOTO BEFORE

H6951 FT LAUDERDALE