



## *Signature Project*

*Energy - Air Quality Control*

### Port Everglades Electrostatic Precipitator Project

**Schedule:**

Mobilization: 08/2004  
Mechanical Mobilization:  
11/2005

**OCI Role:**

Mechanical Construction  
and Construction  
Management

**Significant Aspects:**

235,000+ OCI Man-hours  
45,000+ Subcontractor  
Man-hours

**Project Manager:**

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For more information on how OCI can provide effective project execution and innovative solutions to meet your challenges, please contact:

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*Port Everglades, Florida*

*Florida Power & Light Company*

In 2004, Overland Contracting, Inc. (OCI) was selected by Florida Power & Light Company (FPL) as the contractor to construct two new precipitators on two 200 MW oil-fired boilers located in South Florida. The Unit 2 precipitator was installed above existing duct during a 5½ month pre-outage period. An eight-week outage followed the pre-outage period, during which OCI demolished the existing ductwork from the air preheater outlets to the I.D. fan inlets and the mechanical dust collectors. Following demolition, OCI installed new ductwork from the air preheater outlets to the new precipitator inlets and from the precipitator outlets to the I.D. fan inlets. OCI also completed the portions of the precipitator that could not be installed prior to the outage. Following the successful completion of Unit 2, Unit 1 was constructed in a similar manner.

In addition to building the two precipitators, OCI performed a complete overhaul of two existing air preheaters, per unit, during the outages. The overhaul included removal and rebuilding the kingsbury bearings; installation of new baskets, rotor, sector plates, and seals; and two new IK sootblowers. OCI also installed a new flyash handling system to support the new precipitators, which included the installation of two new silos, supporting structure and all piping tie-ins. An alkaline injection system was installed that injects a dry alkaline powder into the gas duct to reduce NO<sub>x</sub>. Finally, OCI completed installation of Balance of Plant (BOP) systems.

OCI completed the Unit 2 outage three days ahead of schedule. Despite a hurricane that shut down the jobsite for five days and a three-day outage delay, OCI completed Unit 1 on schedule.

