**From:** EPSAP@dbprod.dep.state.fl.us
**To:** Arif, Syed; Walker, Elizabeth (AIR); Linero, Alvaro; Read, David; Koerner, Jeff; Holtom, Jonathan; Scearce, Lynn; Friday, Barbara
**Subject:** A new application was submitted in EPSAP on FDEP
**Date:** Monday, November 17, 2014 9:55:03 AM

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A new Long Form application was submitted in EPSAP for the following facility:

Application Number: 3896-1
Facility ID: 1050234
Facility Name: DUKE ENERGY FLORIDA, INC.
Site Name: HINES ENERGY COMPLEX
County: Polk
Facility Office: FDEP Division of Air Resource Management

Application Purpose: Air construction permit.

Application Comment: Duke Energy is proposing to add inlet air coolers on all eight combustion turbines to decrease the compressor inlet temperature during high ambient temperature days yielding an increase in turbine power output and efficiency. At night mechanical chillers will be used to chill the water stored in a thirteen (13) million gallon thermal energy storage tank. During the day, when ambient inlet air temperatures exceed 60 degrees F, the chilled water from the tank will be combined with chilled water from the chillers, and circulated through a heat exchanger mounted to the turbine air inlet filter in order to cool the compressor inlet air to 50 degrees F. The chiller project will also include the installation of one two cell mechanical draft design cooling tower per chiller module.

Uploaded Electronic Attachments? Yes
Sending Hard-copy Attachments? No

Emissions Units included in the Scope of Application:
EU 1: AC1B
EU 2: AC1B
EU 14: AC1B
EU 15: AC1B
EU 16: AC1B
EU 17: AC1B
EU 18: AC1B
EU 19: AC1B

Professional Engineer: MICHAEL BALLENGER, 407-982-2891, mballenger@trinityconsultants.com

Owner/Authorized Representative: DAVID BURNEY, 813-909-3002, david.burney@duke-energy.com

At your earliest convenience, please log-in to the EPSAP application
located at http://appprod.dep.state.fl.us/epsap_eng/default.asp
to begin the application review process.