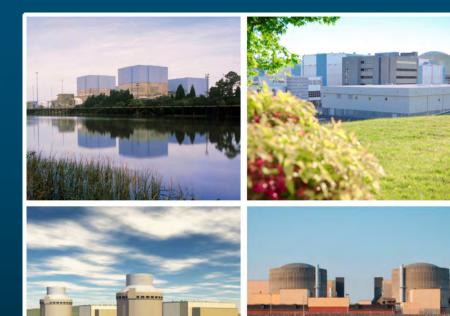
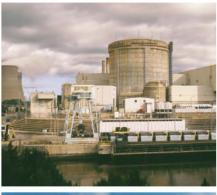
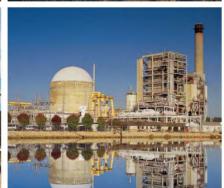
#### **Exhibit DEF-004**











#### **Levy Nuclear Plant – Overview Panel**

Chris Fallon - Bob Kitchen - Paul Snead

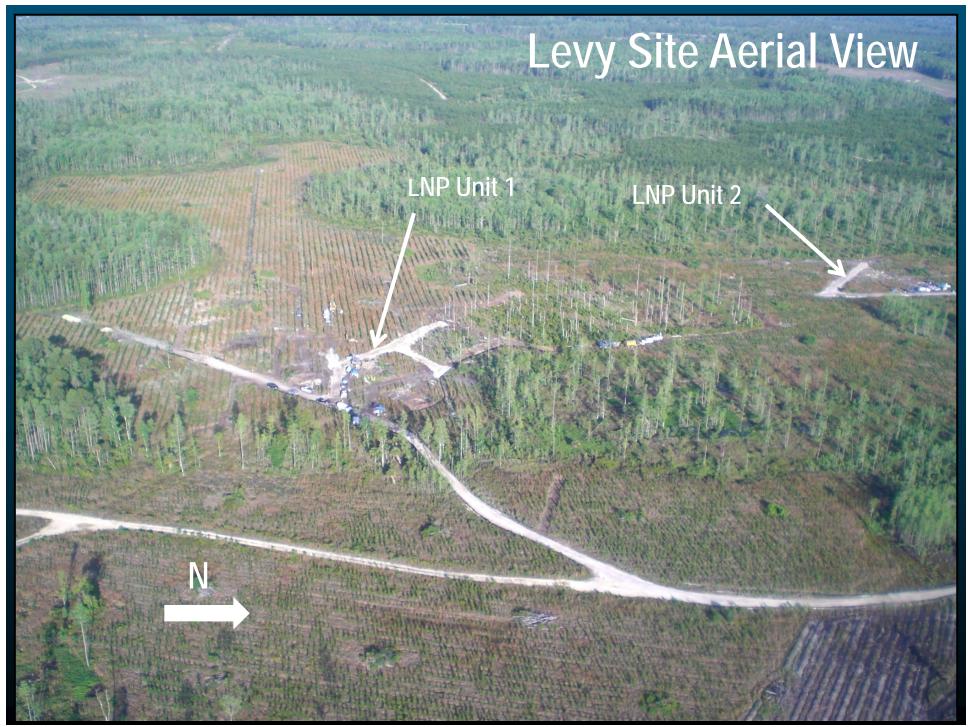


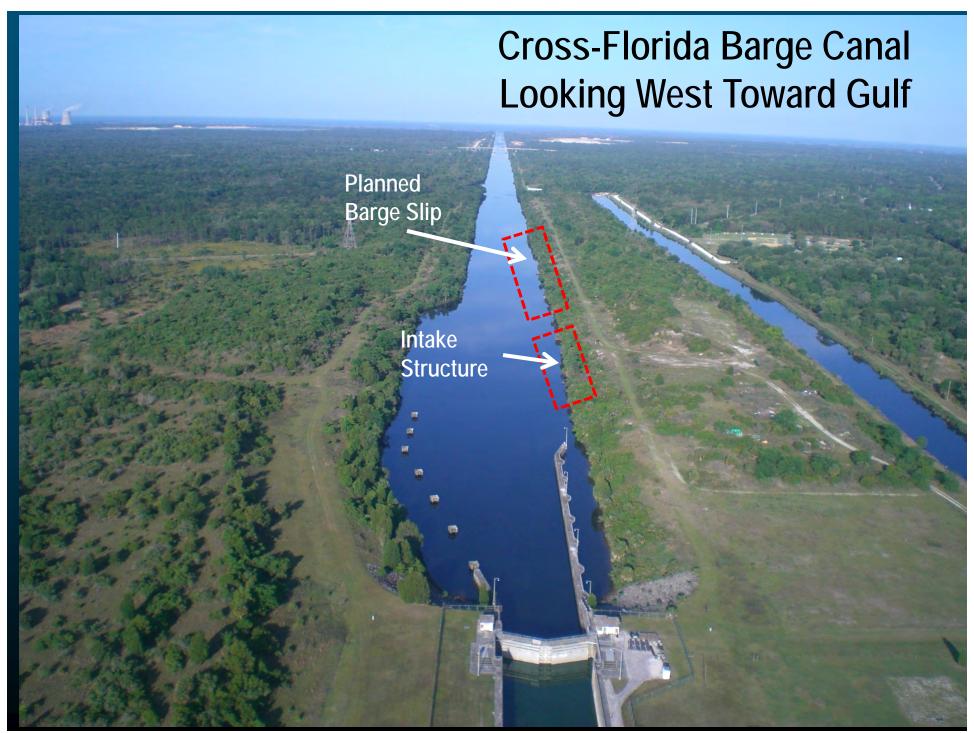
# Duke Energy Florida Service Territory



### **Site Location**









### **Levy COL Application**

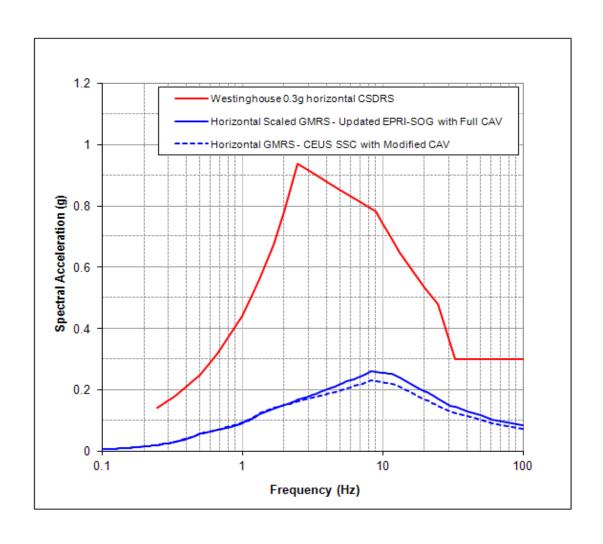
- Combined License Application (COLA) for two units
  - Submitted July 2008
  - Incorporates by Reference the AP1000 Design Control Document (DCD)
  - Adopts the R-COLA resolution of standard plant licensing issues

- NRC Guidance Utilized
  - Regulatory Guide 1.206 "Combined License Applications for Nuclear Power Plants"
  - NUREG-0800 "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants"
  - NUREG-1555 "Standard Review Plans for Environmental Reviews for Nuclear Power Plants"
  - RIS 2006-06 "New Reactor Standardization Needed to Support the Design-Centered Licensing Review Approach"

## AP1000 Emergent Issues

- Emergent issues result from detailed design for construction
- ISG-11 evaluation to identify issues that cannot be deferred
  - Condensate Return Design Change
  - Main Control Room Dose
  - Main Control Room Heatup
  - Combustible Gas Control in Containment
  - Source Range Neutron Flux Doubling Block Permissive

### Large Seismic Margin



#### **Environmental**

- ER and FEIS SMALL to MODERATE impacts
  - No obviously superior alternative site
- Florida Site Certification under Florida Power Plant Siting Act issued August 2009 included:
  - 401 Water Quality Certification
  - Coastal Zone Management Act Certification
- US Army Corps of Engineers 404 Permit issued December 2015

