January 16, 2008

Florida Power and Light Turkey Point COL Project Meteorological Tower Relocation

FPL

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Purpose of Meeting

- To inform the NRC of the approach FPL is considering in the siting of its new meteorological tower and the basis for that approach

Meteorological Tower Relocation-Process

- Perform Site Survey to Identify Potential Meteorological Tower Site Locations
- Identify Technical and Logistical Issues Associated with each Candidate Location
- Evaluate each Potential Site and Select a Preferred and Alternate Location(s) for Siting the Meteorological Tower

Regulatory Basis

- Regulatory Guide 1.23, Meteorological Monitoring Programs for Nuclear Power Plants, Rev. 1, March 2007
- ANSI/ANS-3.11-2005, “Determining Meteorological Information at Nuclear Facilities”, American National Standards Institute/American Nuclear Society, December 2005
- EPA-454/R-99-005, “Meteorological Monitoring Guidance for Regulatory Modeling Applications”, United States Environmental Protection Agency, February 2000
- Regulatory Guide 1.206, Combined License Applications for Nuclear Power Plants *(LWR Edition)*, Revision 0 dated June 2007

Technical Approach

- Prepare Site Selection Criteria
- Site Survey
- Prepare Site Selection Study Report

Site Selection Criteria - Technical

Potential Tower Location Outside of Building Wake Zone of Influence

- Distance of Separation from Nearby Obstructions (e.g., Buildings and Other Structures, Tree Lines, Vegetation) Greater than 10 Times the Obstruction Height.

Site Characteristics

- Elevation
- Ground Cover
- Directly-Adjacent Areas
- Proximity to Shoreline

Site Selection Criteria – Other Considerations

Availability of Utilities (e.g. Power)

Property Ownership

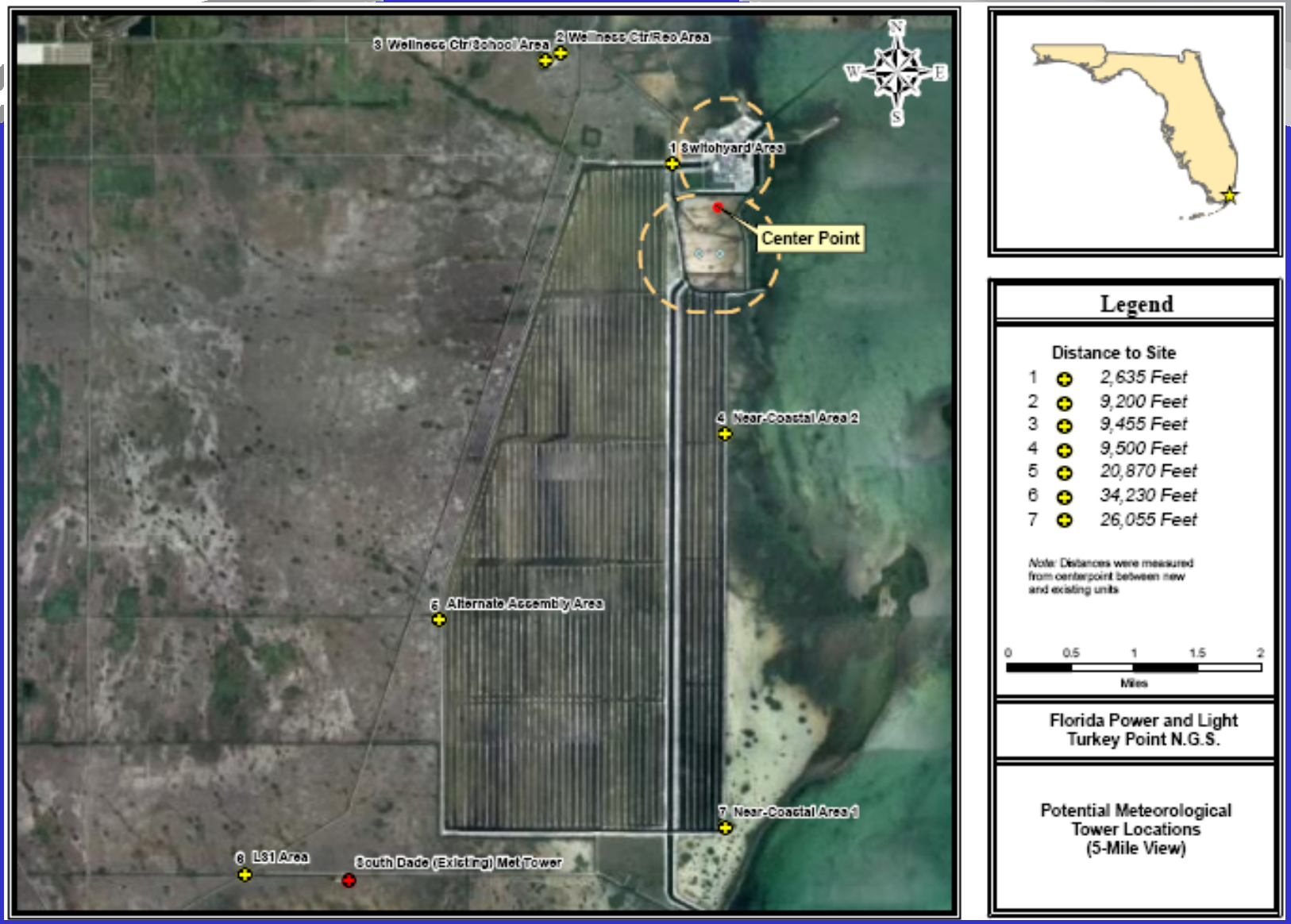
- Site Access and Security

Land Use and Other Restrictions

- Flood plains
- Wetlands
- Other Protected Areas

Site Survey

- Preliminary Identification of Potential Sites
- Additional Sites Identified
- Visited Each Site
- Performed Evaluation of Each Site
- Develop Recommendations



Potential Sites

Site Ranking

1. Alternate Assembly Area (Site 5)
2. Wellness Center / Recreational Area (Site 2)
3. L31 Area (Site 6)

1. Alternate Assembly Area

Location

- ~4 Miles South-Southwest of the Existing and Proposed Turkey Point Reactors

Data Quality

- Relatively Unobstructed Perimeter, Close Proximity to Canals

Other Considerations

- Reasonable Access to Power, Onsite, Security, Visual Focal Point for Assembly Area

2. Wellness Center Area

Location

- ~1.75 Miles Northwest of the Existing and Proposed Turkey Point Reactors

Data Quality

- Possible Wake Zone Interference from Firing Range, Close Proximity to Small Structures and Trees, Near Concrete (Reflective) Surfaces

Other Considerations

- Power, Easy Access, Security

3. L31 Area

Location

- ~6.5 Miles Southwest of the Existing and Proposed Turkey Point Reactors

Data Quality

- Similar Location to the South Dade (Existing) Met Tower

Other Considerations

- Environmental Restoration Issues (Timing of Land Availability), Distance from Reactors, Located Farther Inland, Site Needs to be Built Up in Flood Zone, Little Traffic and Areas of Public Use

Discussion