June 18, 2010

Ms. Nancy Linehan, Director
Office of Planning & Policy & Coordination
Florida Wildlife and Fisheries Conservation Commission
South Region Office
8535 Northlake Boulevard
West Palm Beach, FL 33412

SUBJECT: REQUEST FOR PARTICIPATION IN THE SCOPING PROCESS AND LIST OF STATE LISTED PROTECTED SPECIES FOR THE ENVIRONMENTAL REVIEW FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE APPLICATION REVIEW

Dear Ms. Linehan:

The U.S. Nuclear Regulatory Commission (NRC) staff is reviewing an application submitted by the Florida Power & Light Company (FPL) for a combined license (COL) for construction and operation of two new nuclear power plants at its Turkey Point site near Homestead, Florida. As part of the review of this COL application, the NRC staff is preparing an environmental impact statement (EIS) as required by Title 10 of the *Code of Federal Regulations* (10 CFR) Part 51, the NRC's regulations that implement the National Environmental Policy Act of 1969, as amended (NEPA). The EIS includes an analysis of pertinent environmental matters including those involving impacts to fish and wildlife. This letter is to initiate consultation under the provisions of the Fish and Wildlife Coordination Act of 1934, as amended (FWCA).

FPL submitted the application for the COL on June 30, 2009, pursuant to the NRC requirements in 10 CFR Part 52. The NRC staff accepted the application for docketing on September 4, 2009. It is available through the web-based version of NRC's Agencywide Documents Access and Management System (ADAMS), which can be found at http://www.nrc.gov/reading-rm/adams.html. The files for the environmental report portion of the application are listed under the accession number ML091980548. The Turkey Point COL application is also available on the Internet at http://www.nrc.gov/reactors/new-reactors/col/turkey-point.html.

The Turkey Point site consists of approximately 11,000 acres in southeast Miami-Dade County, Florida, approximately 25 miles south of Miami and 4.5 miles east of southeastern municipal limits of Homestead, Florida on Biscayne Bay. The Turkey Point site currently has five operating power plants installed; three fossil units (Units 1, 2 and 5) and two pressurized water nuclear units (Units 3 and 4). The existing units have a combined capacity to generate 3,350 mega watts of electricity. FPL plans to construct two new nuclear units south of the existing units. The new units would be built on an undeveloped island that is surrounded by portions of the cooling canal system associated with Units 1 through 4. Other areas that will be permanently affected on site include the location for a training center just north of the new units, and a reclaimed water treatment facility northwest of the existing units. Offsite areas that

will be affected include the routes for transmission lines, a route for the pipeline for reclaimed water from Miami, and a borrow pit for fill material. The siting area for new transmission lines will be completely within Miami-Dade County.

The proposed cooling system consists of a closed-cycle wet cooling system. FPL plans to use reclaimed water from the Miami-Dade Water and Sewer Department (MDWASD) as the primary source of makeup water to the system. The water would be delivered from MDWASD via a pipeline to a water treatment plant and from there to a basin under the cooling towers. However, to ensure the availability of makeup water, FPL also plans to build a 100 percent back-up system that will use radial wells built under Biscayne Bay at the peninsula called Turkey Point. The maximum makeup rate from this system would be approximately 43,200 gallons per minute (gpm) to make up losses from evaporation, blowdown, and drift. Waste heat would be dissipated to the atmosphere through three mechanical draft cooling towers for each unit. Blowdown from the cooling towers would discharge via deep injection wells to the "Boulder Zone" of the lower Floridan aquifer. Enclosed with this letter are figures that illustrate the site.

The NRC staff, in its review, will evaluate the environmental impacts of construction and operation of Turkey Point Units 6 and 7 and will consider alternatives, including alternative sites. FPL has identified four alternative sites that will be evaluated in the EIS. The four alternate sites to be evaluated in the EIS are located in Glades County (using Lake Okeechobee or the C-43 Channel as a water supply), Martin County (using Lake Okeechobee or the C-44 Channel as a water supply), Okeechobee County (using Lake Okeechobee or the Kissimmee River as a water supply), and St. Lucie County (using the Atlantic Ocean as a water supply). The NRC staff will also evaluate impacts from transmission line rights-of-way and site preparation activities, such as land clearing and excavation, in cumulative impacts analysis.

To support the preparation of the NRC EIS on the proposed action, the NRC requests your office provide to the NRC staff information on State-listed, proposed, and candidate species and critical habitat that may be in the vicinity of the Turkey Point site, the alternative sites, and the associated transmission line rights-of-way. In addition, please provide any information you consider appropriate under the provisions of the FWCA.

The NRC staff plans to hold two public NEPA scoping meetings on July 15, 2010 at the Homestead YMCA located at 1034 Northeast 8th Street, Homestead, Florida 33030. The first meeting will convene at 1:00 p.m., and will continue until approximately 4:00 p.m. The second meeting will convene at 7:00 p.m., with a repetition of the overview portions of the first meeting, and will continue until approximately 10:00 p.m. Each meeting will be preceded by a 1-hour open house, during which members of the public may meet and talk with NRC staff members on an informal basis.

Please provide any information, comments, or concerns you feel are appropriate on the scope of the proposed action during the scoping comment period, which ends on August 16, 2010. Comments should be submitted either by mail to the Chief, Rules, Announcements and Directives Branch, Division of Administrative Services, Mail Stop TWB-05-B01M, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001 or by e-mail to TurkeyPoint.COLEIS@nrc.gov. When the NRC staff completes the draft EIS on the proposed action, the staff plans to send the draft EIS to your office for comment. The anticipated publication date for the draft EIS is October 2011.

If you have any questions concerning the NRC staff's environmental review of this COL application, please contact Mr. Andrew Kugler, Environmental Project Manager at 301-415-2828 or by e-mail at Andrew.kugler@nrc.gov. In his absence, please contact Ms. Tomeka Terry at 301-415-1488 or by email at tomeka.terry@nrc.gov.

Sincerely,

/RA/

Laurel Bauer, Acting Chief
Environmental Projects Branch 2
Division of Site and Environmental Reviews
Office of New Reactors

Docket Nos.: 52-040 and 52-041

Enclosures: As Stated

cc w/o Enclosure: See next page

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Sincerely,

/RA/

Laurel Bauer, Acting Chief
Environmental Projects Branch 2
Division of Site and Environmental Reviews
Office of New Reactors

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OFFICE	PM:RAP2: DSER:NRO	BIO:RENV: DSER:NRO	LA:RAP2: DSER:NRO	PM:RAP2: DSER:NRO	OGC	ActingBC:RAP2: DSER:NRO
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DATE	06/17/2010	06/16/2010	06/08/2010	06/04/2010	06/11/2010	06/18/2010

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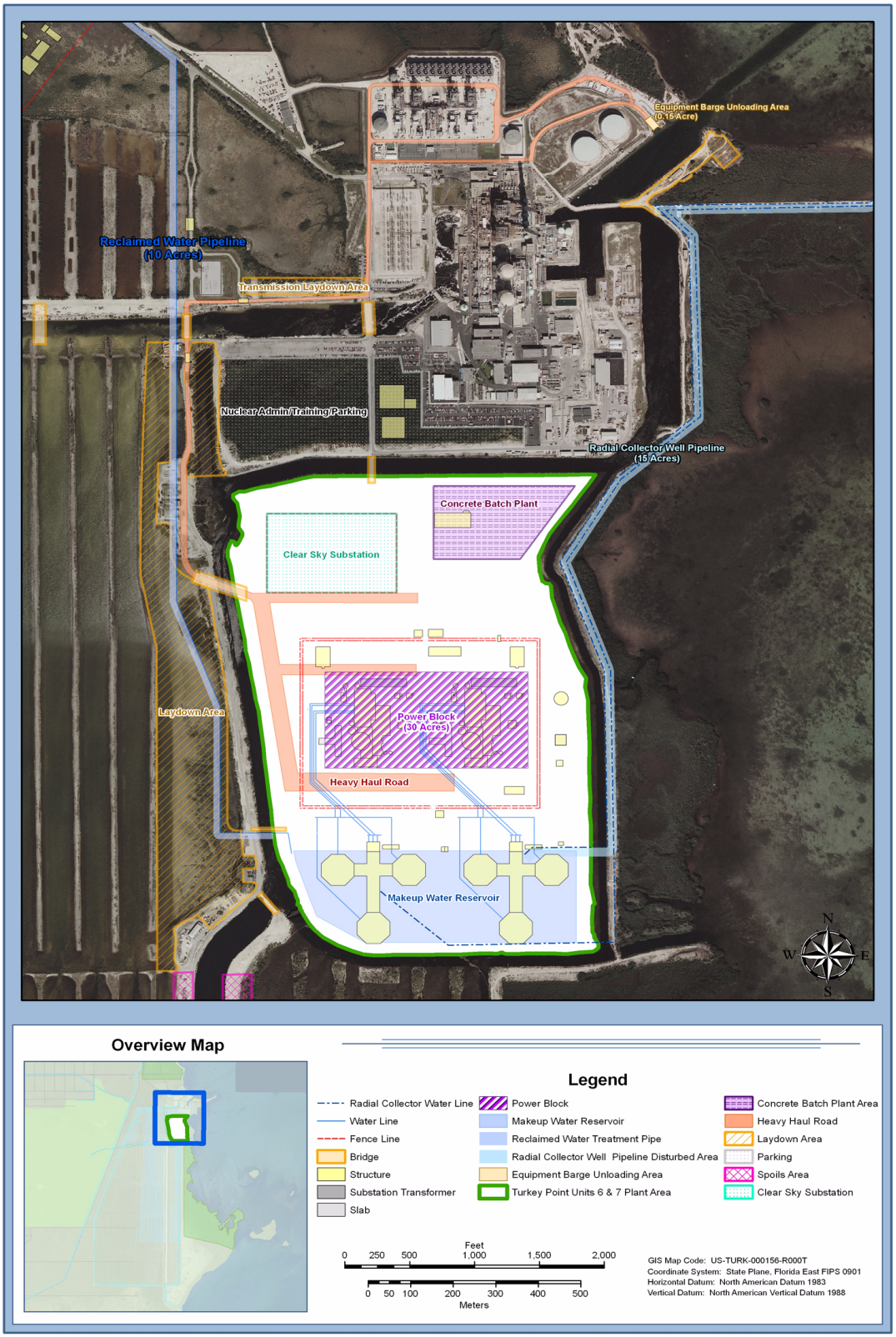

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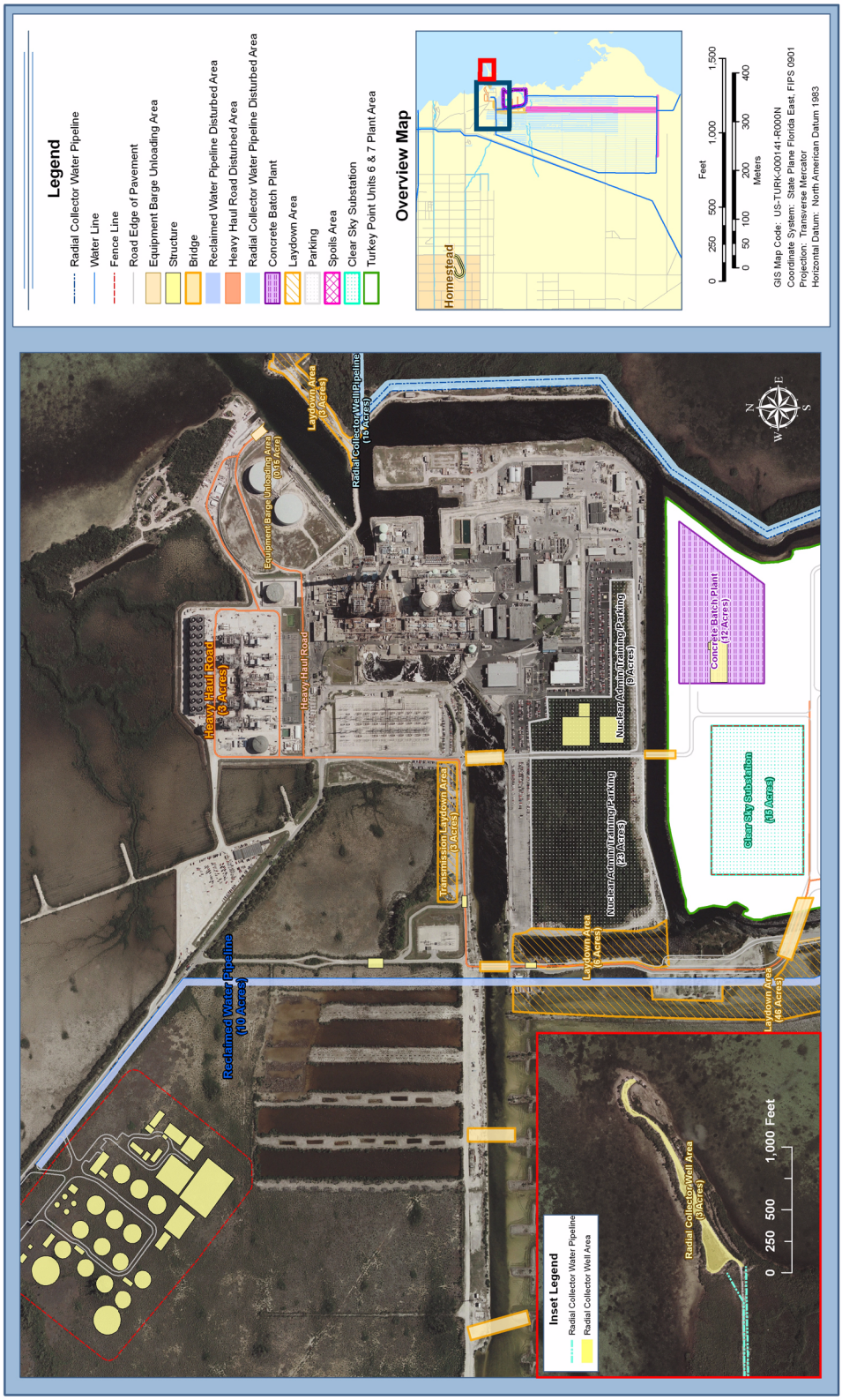

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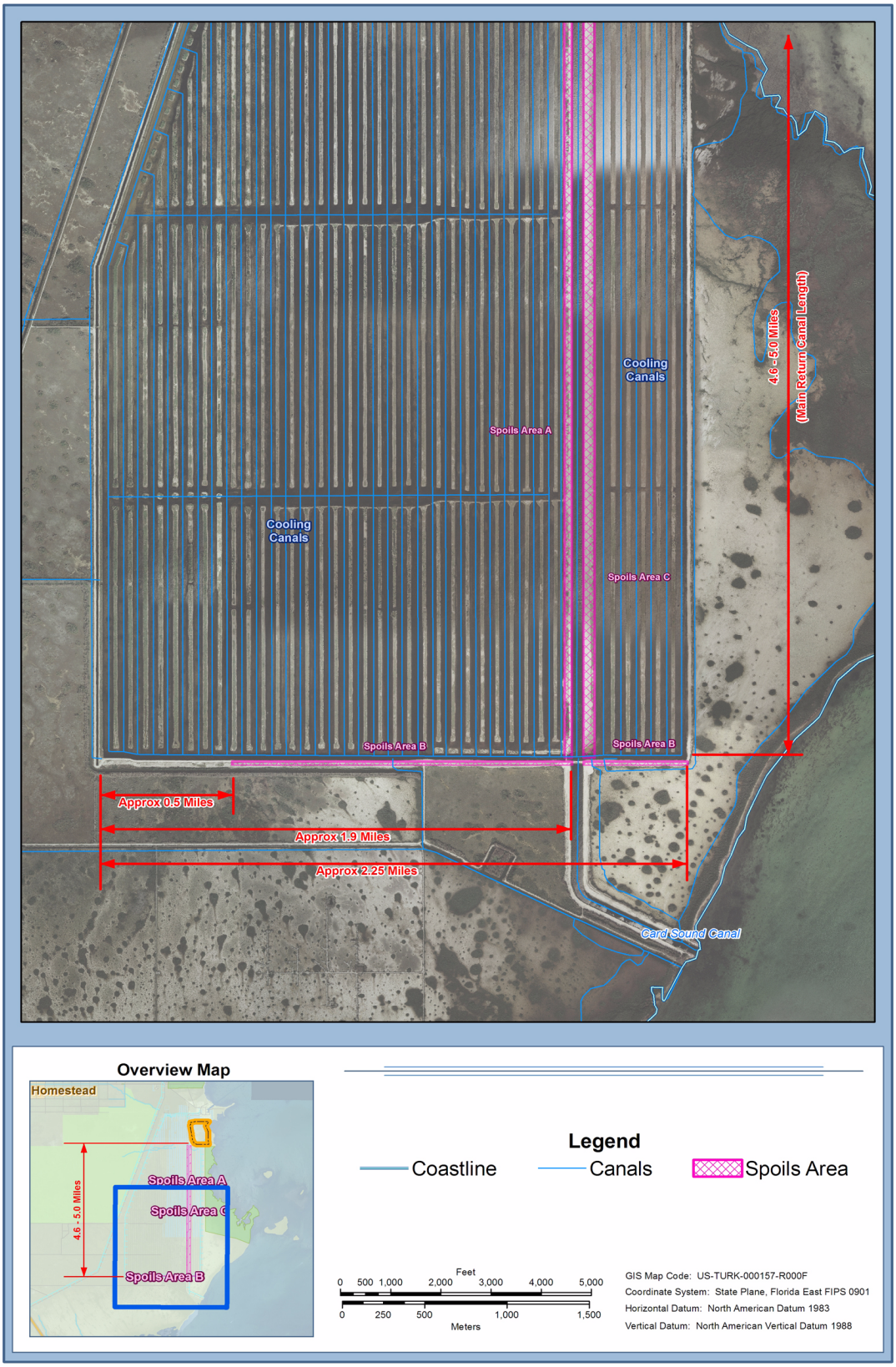

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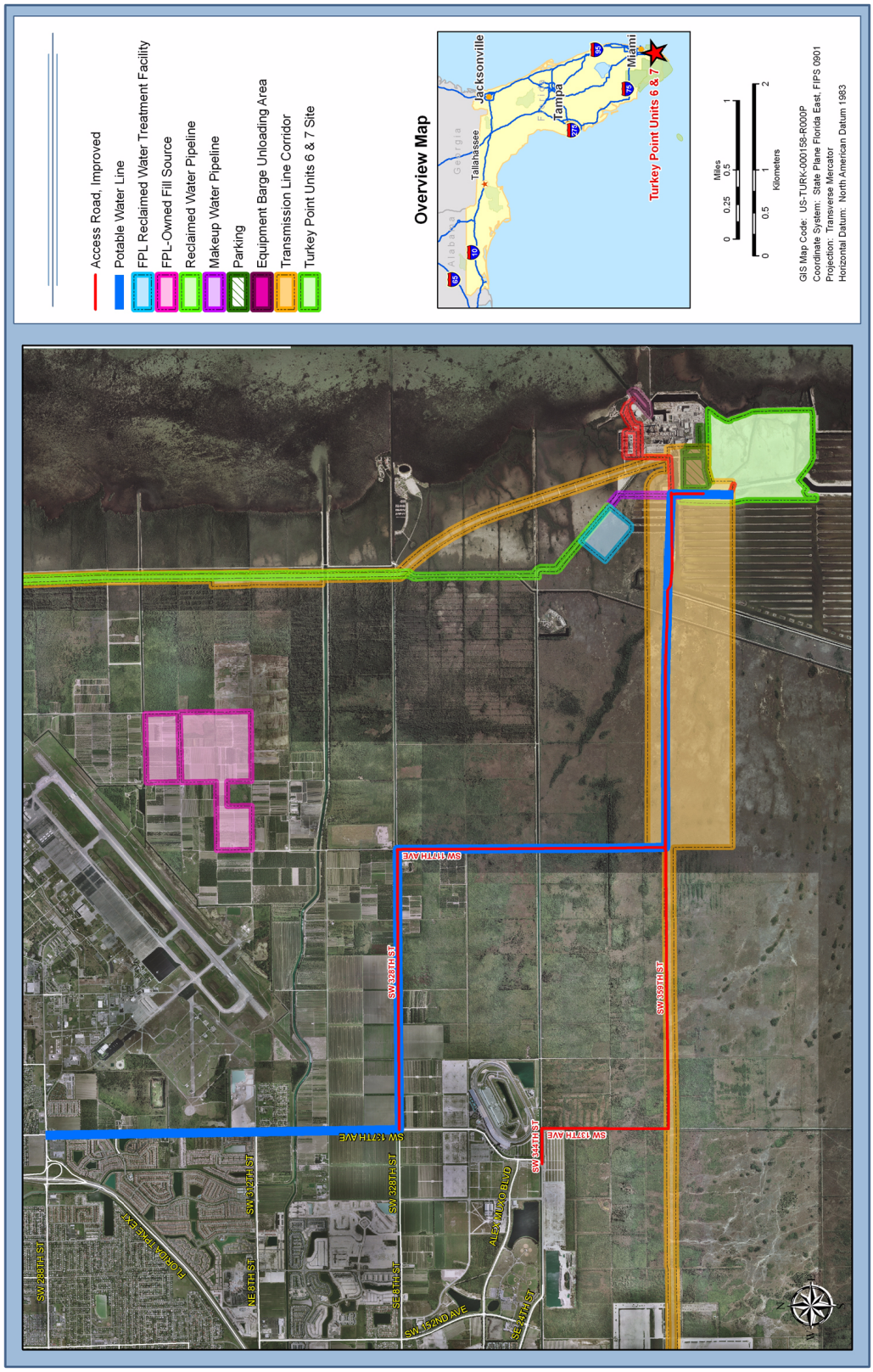

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