10.4 ERP Application

FORM #: 62-343.900(1)
FORM TITLE: JOINT ENVIRONMENTAL RESOURCE PERMIT APPLICATION
DATE: March 26, 2004

JOINT APPLICATION FOR

ENVIRONMENTAL RESOURCE PERMIT/

AUTHORIZATION TO USE SOVEREIGN SUBMERGED LANDS/

FEDERAL DREDGE AND FILL PERMIT

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION/
WATER MANAGEMENT DISTRICTS/
U.S. ARMY CORPS OF ENGINEERS

SECTION A

FOR AGENCY USE ONLY	
ACOE Application #	DEP/WMD Application #
Date Application Received	Date Application Received
Proposed Project Lat.	Fee Received $
Proposed Project Long.	Fee Receipt #

PART 1:

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters?
☒ yes ☐ no

Is this application being filed by or on behalf of a government entity or drainage district? ☐yes ☒no

PART 2:

A. Type of Environmental Resource Permit Requested (check at least one). See Attachment 2 for thresholds and descriptions.

- ☐ Noticed General - include information requested in Section B.
- ☐ Standard General (Single Family Dwelling) - include information requested in Sections C and D.
- ☐ Standard General (all other Standard General projects) - include information requested in Sections C and E.
- ☐ Individual (Single Family Dwelling) - include information requested in Sections C and D.
- ☒ Individual (all other Individual projects) - include information requested in Sections C and E.
- ☐ Conceptual - include information requested in Sections C and E.
- ☐ Mitigation Bank Permit (construction) - include information requested in Sections C and F. (If the proposed mitigation bank involves the construction of a surface water management system requiring another permit defined above, check the appropriate box and submit the information requested by the applicable section.)
- ☐ Mitigation Bank (conceptual) - include information requested in Sections C and F.

B. Type of activity for which you are applying (check at least one)

- ☒ Construction or operation of a new system, other than a solid waste facility, including dredging or filling in, on or over wetlands and other surface waters.
- ☐ Construction, expansion or modification of a solid waste facility.
- ☐ Alteration or operation of an existing system which was not previously permitted by a WMD or DEP.
- ☐ Modification of a system previously permitted by a WMD or DEP.

  Provide previous permit numbers:_____

  - ☐ Alteration of a system
  - ☐ Abandonment of a system
  - ☐ Removal of a system
  - ☐ Extension of permit duration
  - ☐ Construction of additional phases of a system

C. Are you requesting authorization to use Sovereign Submerged Lands?
☒yes ☐no
(See Section G and Attachment 5 for more information before answering this question.)

D. For activities in, on, or over wetlands or other surface waters, check type of federal dredge and fill permit requested:

Latitude	Longitude
☒Individual	☐Programmatic General ☐General
☐Nationwide	☐Not Applicable

E. Are you claiming to qualify for an exemption? ☐yes ☒no
If yes, provide rule number if known. _____

FORM #: 62-343.900 (1)
FORM TITLE: JOINT ENVIRONMENTAL RESOURCE PERMIT APPLICATION
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PART 3: **A. OWNER(S) OF LAND: The project traverses two land ownerships Progress Energy Florida (PEF) and FDEP Office of Greenways and Trails (OGT). OGT owns the land between the Inglis Lock Bypass Channel and the Cross Florida Barge Canal. Proprietary approval will be needed to carry out these activities on state lands.**	**B. ENTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)**
Name **Daniel Roderick**	Name
Title and Company **Vice President, Nuclear Projects & Construction** **Progress Energy Florida**	Title and Company
Address **PO Box 14042, SA2C**	Address
City, State, Zip **St. Petersburg, FL 33733**	City, State, Zip
Telephone and Fax **(352) 563-4800**	Telephone and Fax Phone: Fax:
E-mail Address: (optional) **Daniel.Roderick@pgnmail.com**	E-mail Address: (optional)
C. AGENT AUTHORIZED TO SECURE PERMIT	**D. CONSULTANT (IF DIFFERENT FROM AGENT)**
Name **John J (Jamie) Hunter**	Name **Paulette Fiske**
Title and Company **Lead Environmental Specialist** **Progress Energy Florida**	Title and Company **Project Engineer** **CH2M HILL**
Address **PO Box 14042, PEF-903**	Address **225 East Robinson St., Suite 505**
City, State, Zip **St. Petersburg, FL 33733**	City, State, Zip **Orlando, FL 32801-4321**
Telephone and Fax Phone: **(727) 820-5764** Fax:	Telephone and Fax Phone: **(407) 423-0001 x214** Fax: **(407) 839-5901**
E-mail Address: (optional) **John.Hunter@pgnmail.com**	E-mail Address: (optional) **Paulette.Fiske@CH2M.com**

PART 4: (Please provide metric equivalent for federally funded projects):-+

A. Name of Project, including phase if applicable: **Levy Nuclear Plant Units 1 and 2 (LNP)**

B. Is this application for part of a multi-phase project? ☐ Yes ☒ No

C. Total applicant-owned area contiguous to the project? **5,264** ac.; ___ ha.

North Property: **3105** ac.; ____ ha.
South Property: **2159** ac.; ____ ha.

D. Total area served by the system: LNP site: **385.10** ac.; ____ ha

E. Impervious area for which a permit is sought: **402.23** ac.; ___ ha.

LNP Site: **232.15** ac.; ____ ha.
Transmission Lines Pads and Access Roads: **203.0 ac**.; ____ ha.

F. Volume of water that the system is capable of impounding: LNP Site: **688.7 ac-ft**; _____ m3

G. What is the total area of work in, on, or over wetlands or other surface waters? **642.8 ac.; ____ sq. ft.**
To be updated once the agency field reviews are completed.

LNP Site and associated facilities: **225.9 ac.; ____ sq. ft. (includes makeup pipeline)**
Transmission Lines Pads: **330.9 ac.; ____ sq. ft.**

Blowdown Pipeline Route: **84.9 ac.; ____ sq. ft.**
Barge Slip/Boat Ramp Access: **1.1 ac.; ____ sq. ft.**

H. Total volume of material to be dredged**:** _____ **yd^3**
To be completed once the agency field reviews are completed.

LNP Site: _____ **yd^3(includes makeup pipeline)**
Transmission Lines Pads: _____**yd^3**

Makeup and Blowdown Pipeline Route: _____ **yd^3**

I. Number of new boat slips proposed: **0** wet slips; : **0** dry slips

PART 5:

Project location (use additional sheets if needed):
County(ies) **Levy (Nuclear Plant; Transmission Corridors); Marion (Transmission Corridor); Citrus, Hernando, Sumter & Lake (Transmission Corridor)**

Section(s) 7, 17-20, 29-32	**Township 16S**	**Range 17E**
Section(s) 1, 24-29, 32-36	**Township 17S**	**Range 16E**
Section(s) 5, 6, 7, 8, 17-20, 25-36	**Township 17S**	**Range 17E**
Section(s) 25, 30-36	**Township 17S**	**Range 18E**
Section(s) 24-26, 30-35	**Township 17S**	**Range 19E**
Section(s) 13-24	**Township 17S**	**Range 20E**
Section(s) 17-19, 20, 21, 27-29, 33-35	**Township 17S**	**Range 21E**

PART 5 – Continued

Section(s) 2-4, 10-14, 23-25	**Township 18S**	**Range 17E**
Section(s) 19, 29-33	**Township 18S**	**Range 18E**
Section(s) 2-4, 10-14, 23-25	**Township 18S**	**Range 21E**
Section(s) 1-3, 11-13,	**Township 18S**	**Range 21E**
Section(s) 18-20, 26-29, 33-35	**Township 18S**	**Range 22E**
Section(s) 4-9, 17-19, 21, 28, 30, 32, 33	**Township 19S**	**Range 18E**
Section(s) 1-3, 10-13,	**Township 19S**	**Range 22E**
Section(s) 7,17-21, 27- 29, 33- 36	**Township 19S**	**Range 23E**
Section(s) 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33, 34	**Township 20S**	**Range 18E**
Section(s) 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33, 34	**Township 21S**	**Range 18E**
Section(s) 1-3, 12, 13	**Township 20S**	**Range 23E**
Section(s) 6-8	**Township 20S**	**Range 24E**
Section(s) 3, 4, 9, 10, 9, 15, 16, 21, 22, 27, 28, 34	**Township 22S**	**Range 18E**
Section(s) 17-20, 29-32	**Township 26S**	**Range 23E**
Section(s) 34-36	**Township 27S**	**Range 17E**
Section(s) 21-24, 27-31	**Township 27S**	**Range 18E**
Section(s) 19-22, 26, 27, 35, 36	**Township 27S**	**Range 19E**
Section 31	**Township 27S**	**Range 20E**
Section(s) 5-8, 17-20, 29-32	**Township 27S**	**Range 23E**
Section(s) 12, 13	**Township 28S**	**Range 16E**
Section(s) 3-5, 7, 8	**Township 28S**	**Range 17E**
Section(s) 1-6	**Township 28S**	**Range 20E**
Section(s) 1-6	**Township 28S**	**Range 21E**
Section(s) 1-6	**Township 28S**	**Range 22E**
Section(s) 5, 6	**Township 28S**	**Range 23E**

Land Grant name, if applicable: **Not Applicable (N/A)**

Tax Parcel Identification Number: **N/A**

Street Address Road or other location: **N/A**

City, Zip Code, if applicable: _____

PART 6: Describe in general terms the proposed project, system, or activity.

Florida Power Corporation doing business as Progress Energy Florida, Inc. (PEF) is submitting a Combined License Application (COLA) for the proposed LNP Units 1 and 2 in Levy County, Florida. PEF proposes to build and operate two units of the Westinghouse Electric Company, LLC (Westinghouse), AP1000 Reactor (AP1000), a nuclear plant design certified under 10 Code of Federal Regulations (CFR) 52, Subpart B. The facilities include: a heavy haul road, a pipe corridor, removal of an upland berm and excavation with riprap placement below the Mean High Water Elevation of 1.21 ft within the Cross Florida Barge Canal to provide access to the barge slip/boat ramp constructed in uplands pursuant to a separate permit, and transmission corridors required to incorporate the additional power into the Florida electrical grid system.

The proposed transmission corridors will be located primarily within or adjacent to PEF's existing high voltage transmission lines. The corridor lengths range from 375 feet to 59.0 miles and the widths vary from approximately 300 feet to 1 mile for maximum flexibility when determining the right-of-way and for entering substations. Approximately 170 miles of transmission lines will need to be constructed to incorporate the power generated by LNP into the Florida electrical grid system.

PART 7:

A. If there have been any pre-application meetings, including onsite meetings, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

December 12, 2007 Meeting: Jim Maher/FDEP, Jim Stoutamire/FDEP, Aaron Sarchet/FDEP, Scott Woollam/FDEP, Toni Sturtevant/FDEP, Jena Brooks/FDEP, Mickey Thomason/OGT, Cindy Mulkey/FDEP, Jamie Hunter/PEF, Paul Lewis/PEF, Richard Brightman/ Hopping Green & Sams, and Frank Matthews/Hopping Green & Sams.

February 11, 2008 Meeting: Greg Strong/FDEP, Bill Green/FDEP, Jim Maher/FDEP, Rusty Price/FDEP, Chris Kirts/FDEP, Connie Webel/FDEP, Jeff Martin/FDEP, Cindy Mulkey/FDEP, Mike Halpin/FDEP, Paul Snead/PEF, Jamie Hunter/PEF, Amy Dierolf/PEF, Frank Matthews/Hopping Green & Sams, Dale Shepherd/Shaw Group, Randy Whetsel/Shaw Group, Manita Moultrie/Golder, Bill Marsh/CH2M HILL, Martha Klein/ CH2M HILL, Mitchell Griffin/CH2M HILL, and Paulette Fiske/CH2M HILL.

February 11, 2008 Meeting: Jason Spinning/USACE, Jon Griffin/USACE, Dorothy Boardman/USACE, Paul Snead/PE, Jamie Hunter/PEF, Amy Dierolf/PEF, Frank Matthews/Hopping Green & Sams, Dale Shepherd/Shaw Group, Randy Whetsel/Shaw, Manita Moultrie/Golder, Bill Marsh/CH2M HILL, Martha Klein/ CH2M HILL, Mitchell Griffin/CH2M HILL, and Paulette Fiske/CH2M HILL.

March 13, 2008; FDEP Jacksonville Office; Bill Green/FDEP; Greg Strong/FDEP; Jeff Martin/FDEP; Chris Kirts/FDEP; Jim Maher/FDEP; Connie Webel/FDEP; David Watson/Shaw; Scott Blanton/Shaw; George Drewett/Shaw; Jamie Hunter/Progress Energy; Mitchell Griffin/CH2M HILL; Martha Klein/CH2M HILL; Paulette Fiske/CH2M HILL**.**

April 18, 2008 Meetings: Jena Brooks/FDEP, Mickey Thomason/OGT, Bob Ballard/FDEP, Cindy Mulkey/FDEP, Carla Gaskin/FDEP (for Mimi Drew), Debby Tucker/FDEP, Toni Sturtevant/FDEP, Erma Slager/FDEP, Dale Shepherd/Shaw Group, Paul Sneed/PEF, Scott Woollam/FDEP, Frank Matthews/Hopping Green & Sams, Richard Brightman/ Hopping Green & Sams, and Martha Klein/CH2M HILL.

April 23, 2008 Meeting: Jason Spinning/USACOE, Jamie Hunter/PEF, Martha Klein/CH2M HILL, Darren Bishop/CH2M HILL, Gabriel Dupree/CH2M HILL, Richa Srivastava/CH2M HILL, and Amelia Savage/Hopping Green & Sams.

B. Please identify by number any MSSW/Wetland Resource/ERP/ACOE Permits pending, issued or denied for projects at the location, and any related enforcement actions.

Agency	Date	No.\Type of Application	Action Taken
USACE	**03/15/07**	**NWP SAJ-2007-618**	**Permit issued**
_____	_____	_____	_____
_____	_____	_____	_____

C. Note: The following information is required for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit or an authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding application) and/or (for proprietary authorizations) is located within a 500 ft. radius of the applicant's land. Please attach a plan view showing the owner's names and adjoining property lines. Attach additional sheets if necessary.

Refer to property owners tables for the plant site, pipe corridor, and heavy haul road (Attachment A.10) and for the transmission corridor (Attachment B Appendix E).

1. 2.

3. 4.

5. 6.

7. 8.

PART 8:

A. By signing this application form, I am applying, or I am applying on behalf of the applicant, for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto, does not relive me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Daniel Roderick		5/30/08
Typed/Printed Name of Applicant	Signature of Applicant	Date

Vice President, Nuclear Projects & Construction; Progress Energy Florida
(Corporate Title if applicable)

AN AGENT MAY SIGN ABOVE ONLY IF THE APPLICANT COMPLETES THE FOLLOWING:

B. I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

John J (Jamie) Hunter		
Typed/Printed Name of Applicant	Signature of Applicant	Date

Lead Environmental Specialist; Progress Energy Florida
(Corporate Title if applicable)

Please note: The applicant's original signature (not a copy) is required above.

PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

C. I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

Daniel Roderick		5/30/08
Typed/Printed Name of Applicant	Signature of Applicant	Date

Vice President, Nuclear Projects & Construction; Progress Energy Florida
(Corporate Title if applicable)

SECTION C

Environmental Resource Permit Notice of Receipt of Application

Note: this form does not need to be submitted for noticed general permits.
This information is required in addition to that required in other sections of the application. Please submit five copies of this notice of receipt of application and all attachments with the other required information. Please submit all information on 8 1/2" x 11" paper.

Project Name	**Levy Nuclear Plant Units 1 and 2 (LNP)**
County	**Levy**
Owner	**Progress Energy Florida, Inc.**
Applicant:	**Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.**
Applicant's Address:	**299 First Avenue North; St. Petersburg, FL 33701**

1. Indicate the project boundaries on a USGS quadrangle map. Attach a location map showing the boundary of the proposed activity. The map should also contain a north arrow and a graphic scale; show Section(s), Township(s), and Range(s); and must be of sufficient detail to allow a person unfamiliar with the site to find it.

   For the LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor, refer to the *USGS Quadrangle Map* (Attachment A.1 Figure 1) and *Location Map* (Attachment A.1 Figure 2).

   For the Transmission Line Corridors refer to Figures X-1, X-2, and X-3 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

2. Provide the names of all wetlands, or other surface waters that would be dredged, filled, impounded, diverted, drained, or would receive discharge (either directly or indirectly), or would otherwise be impacted by the proposed activity, and specify if they are in an Outstanding Florida Water or Aquatic Preserve:

   For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor, refer to the *Progress Energy Florida LNP-Wetland Unified Mitigation Assessment Method (UMAM) Scoring Summary Table* provided in the *Ecological Report* (Attachment A.2). Agency wetland jurisdictional determination field reviews are in progress. Updates to the impacts and *Ecological Report* will be provided once the field reviews are completed.

   For information related to the Transmission Line Corridors refer to *Tables 3* and *4* of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B). A wetland jurisdictional determination will be conducted to accurately identify all wetlands once the transmission corridor right-of-way has been selected and the property has been acquired.

   There are no OFWs within the LNP site, blowdown pipe, or heavy haul road corridors. The transmission corridors traverse OFWs and Class I, II, and III waters as specified in Chapter 62-302, F.A.C. as follows:

   - **Segment 1 crosses the Inglis Lock Bypass, the Marjorie Harris Carr Cross Florida Greenway and areas of the Withlacoochee River. The portions of the Inglis Lock Bypass Channel and the Marjorie Harris Cross Florida Greenway that lie within Segment 1 are classified as Class III waters.**
   - **Segment 2 crosses the Withlacoochee River which is classified as Class III waters.**
   - **Segment 3 intersects estuarine areas within Crystal Bay. Estuarine areas west of the existing CREC are Class II waters.**
   - **Segment 4 crosses the Withlacoochee River and Two Mile Prairie Lake. The Withlacoochee River is classified as Class III waters under Chapter 62-302, F.A.C.**
   - **Segment 5 bisects Whitehurst Pond, which is classified as a Class III water.**
   - **No named water bodies are crossed by or fall within the boundaries of Segment 6.**
   - **Segment 7 crosses a several named water bodies. Of the named water bodies that are crossed by the segment (Blackwater Creek, Hollomans Branch, Flint Creek, Hillsborough River, Trout Creek, Cypress Creek, Brushy Creek, and Rocky Creek), Blackwater Creek westward of the Hillsborough – Polk County line, the Hillsborough River, Trout Creek upstream to Bruce B. Downs Boulevard, and Cypress Creek are classified as OFW (FDEP, Chapter 62-302, Surface Water Quality Standards, 2006). The Hillsborough River, including the segment which intersects Segment 7, is a Class I water (Potable Water Supply). The remaining**

water bodies in the segment are classified as Class III waters, used for Recreation, Propagation and Maintenance of a Healthy, Well-Balanced Population of Fish and Wildlife.

The remaining water bodies for the project are classified as Class III waters, used for Recreation, Propagation and Maintenance of a Healthy, Well-Balanced Population of Fish and Wildlife. None of the wetlands within the project area are located in an Aquatic Preserve.

3. Attach a depiction (plan and section views), which clearly shows the works or other facilities proposed to be constructed. Use multiple sheets, if necessary. Use a scale sufficient to show the location and type of works.

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor, refer to the accompanying *Site and Structures Plans Levy Nuclear Plant Units 1 & 2*by The Shaw Group, Inc. (Attachment A.3). For the Transmission Line Corridors refer to Figures X.5 through X.9 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

4. Briefly describe the proposed project (such as "construct dock with boat shelter", "replace two existing culverts", "construct surface water management system to serve 150 acre residential development"):

Florida Power Corporation doing business as Progress Energy Florida, Inc. (PEF) is submitting a Combined License Application (COLA) for the proposed LNP Units 1 and 2 in Levy County, Florida. PEF proposes to build and operate two units of the Westinghouse Electric Company, LLC (Westinghouse), AP1000 Reactor (AP1000), a nuclear plant design certified under 10 Code of Federal Regulations (CFR) 52, Subpart B. The facilities include: a heavy haul road, a pipe corridor, removal of an upland berm and excavation below the Mean High Water Elevation of 1.21 ft within the Cross Florida Barge Canal to provide access to the barge slip/boat ramp constructed in uplands pursuant to a separate permit, and transmission corridors required to incorporate the additional power into the Florida electrical grid system.

The proposed transmission corridors will be located primarily within or adjacent to PEF's existing high voltage transmission lines. The corridor lengths range from 375 feet to 59.0 miles and the widths vary from approximately 300 feet to 1 mile for maximum flexibility when determining the right-of-way and for entering substations. Approximately 170 miles of transmission lines will need to be constructed to incorporate the power generated by LNP into the Florida electrical grid system.

5. Specify the acreage of wetlands or other surface waters, if any, that are proposed to be filled, excavated, or otherwise disturbed or impacted by the proposed activity:
To be updated once the agency field reviews are completed.
filled **638.0** ac.; excavated ac. **4.1** ac.; filled/excavated **0.67** ac.
other impacts **142.6** ac. (Temporary); _____ ac. (Shading); Total impacts **642.8** ac.

6. Provide a brief statement describing any proposed mitigation for impacts to wetlands and other surface waters (attach additional sheets if necessary):

A mitigation plan to compensate for unavoidable wetland impacts at the LNP site and associated facilities is being developed based on estimated losses of wetland functions determined through functional analyses. Results of the UMAM analysis are included in the *Ecological Report* (Attachment A.2). Compensatory mitigation will consist of a combination of onsite and offsite wetland preservation, enhancement, restoration and creation.

Purchase of credits from a wetland mitigation bank may be used where appropriate to compensate for impacts to wetlands within proposed transmission corridors.

FOR AGENCY USE ONLY

Application Name:
Application Number:
Office where the application can be inspected:

Note to Notice recipient: The information in this notice has been submitted by the applicant, and has not been verified by the agency. It may be incorrect, incomplete or may be subject to change.

SECTION E

INFORMATION REQUESTED FOR STANDARD GENERAL, INDIVIDUAL AND CONCEPTUAL ENVIRONMENTAL RESOURCE PERMIT APPLICATIONS NOT RELATED TO A SINGLE FAMILY DWELLING UNIT

Please provide the information requested below if the proposed project requires either a standard general, individual, or conceptual approval environmental resource permit and is not related to an individual, single family dwelling unit, duplex or quadruplex. The information listed below represents the level of information that is usually required to evaluate an application. The level of information required for a specific project will vary depending on the nature and location of the site and the activity proposed. Conceptual approvals generally do not require the same level of detail as a construction permit. However, providing a greater level of detail will reduce the need to submit additional information at a later date. If an item does not apply to your project, proceed to the next item. Please submit all information that is required by the Department on either 8 1/2 in. X 11 in. paper or 11 in. X 17 in. paper. Larger drawings may be submitted to supplement but not replace these smaller drawings.

I. Site Information

A. Provide a map(s) of the project area and vicinity delineating USDA/SCS soil types.

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor, refer to *Soils Composition Map* (Attachment A.1 Figure 3) and the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3). For the Transmission Line Corridors refer to Figure X-4 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

B. Provide recent aerials, legible for photo interpretation with a scale of 1" = 400 ft, or more detailed, with project boundaries delineated on the aerial.

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor, refer to the Aerial Maps (Figures 1 through 14) and Florida Land Use Land Cover Classification System (FLUCCS) Level III (Figures 15 through 29) provided as Figures within the *Ecological Report* (Attachment A.2) as well as to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3).

For the transmission lines corridors refer to Figure X-10 in the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

C. Identify the seasonal high water or mean high tide elevation and normal pool or mean low tide elevation for each onsite wetland or surface water, including receiving waters into which runoff will be discharged. Include dates, datum, and methods used to determine these elevations.

For the LNP site refer *Water Table Information* (Attachment A.8) for monitoring well data. Groundwater elevations were monitored for the period March 6, 2007 to December 4, 2007. The highest groundwater elevations obtained during this period were recorded on March 6, 2007. At that time, the water table ranged from 0.47 ft to 2.59 ft below grade. This may or may not represent seasonal high water table estimations.

Estimated SHWT for the transmission corridors to be provided after the right-of-way has been selected.

D. Identify the wet season high water tables at the locations representative of the entire project site. Include dates, datum, and methods used to determine these elevations.

For the LNP site refer to *Water Table Information* (Attachment A8) for monitoring well data. Groundwater elevations were monitored for the period March 6, 2007 to December 4, 2007. The highest groundwater elevations obtained during this period were recorded on March 6, 2007. At that time, the water table ranged from 0.47 ft to 2.59 ft below grade. This may or may not represent seasonal high water table estimations.

Estimated SHWT for the transmission corridors to be provided after the right-of-way has been selected.

II. Environmental Considerations

A. Provide results of any wildlife surveys that have been conducted on the site, and provide any comments pertaining to the project from the Florida Game and Fresh Water Fish Commission and the U.S. Fish and Wildlife Service.

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor, refer to the *Ecological Report* (Attachment A.2). For the transmission lines corridors refer to Section 2.4 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

B. Provide a description of how water quantity, quality, hydroperiod, and habitat will be maintained in onsite wetlands and other surface waters that will be preserved or will remain undisturbed.

Hydroperiod modeling for wetlands down-gradient of the proposed facilities was conducted and the results appear to indicate that construction will not have a significant impact on down-gradient wetlands. The results are summarized in the *Ecological Report* (Attachment A.2). Proper erosion and turbidity control measures will be maintained within the project area surrounding existing upland and wetland systems during construction. Upland areas adjacent to undisturbed wetland areas will be preserved to the greatest extent possible to provide a protective buffer.

For the transmission lines corridors refer to Section 2.3 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

C. Provide a narrative description of any proposed mitigation plans, including purpose, maintenance, monitoring, and construction sequence and techniques, and estimated costs.

A mitigation plan to compensate for unavoidable wetland impacts at the LNP site and associated facilities is being developed based on estimated losses of wetland functions determined through functional analyses. Results of the UMAM analysis are included in the *Ecological Report* (Attachment A.2). Compensatory mitigation will consist of a combination of onsite and offsite wetland preservation, enhancement, restoration and creation. Purchase of credits from a wetland mitigation bank may be used where appropriate to compensate for impacts to wetlands within proposed transmission corridors.

Onsite wetland enhancement will involve grading to improve hydrologic connection, selective harvest and thinning of pines, and prescribed burns to reduce undergrowth. Monitoring will be conducted to ensure that ecological success criteria are met. Offsite mitigation may include property acquisition and ecological restoration and preservation. PEF is currently conducting a GIS screening of properties in the vicinity of LNP to identify areas that are appropriate for offsite mitigation.

Consultations are ongoing with state and federal agencies to identify specific regional ecological needs and opportunities. These agencies include the following:

- **Office of Coastal and Aquatic Managed Areas**
- **Office of Greenways and Trails**
- **Southwest Florida Water Management District**
- **Florida Department of Agriculture and Consumer Services, Division of Forestry**
- **US Army Corps of Engineers**

Meetings with additional agencies, including the US Fish and Wildlife Agency and the Florida Fish and Wildlife Conservation Commission are forthcoming. Recommendations from resource agencies will be incorporated into the LNP mitigation plan to the extent possible in order to provide the most appropriate long-term net ecological benefits to the region.

The mitigation plan will be finalized following wetland jurisdictional determinations from the USACE and FDEP and further consultations with resource agencies.

For the transmission lines corridors, a wetland jurisdictional survey will be conducted within the right-of-way once the right-of-way has been selected, and the location of structures, pads and access roads is determined. A preliminary assessment of wetland impact and the functional loss of the wetlands was conducted based on a conceptual right-of-way. Loss of wetland functions associated with transmission line access roads and structure pads will be compensated through an approved mitigation bank in consultation with FDEP and USACE representatives. For wetland mitigation information related to the transmission corridors refer to Section 2.6 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

D. Describe how boundaries of wetlands or other surface waters were determined. If there has ever been a jurisdictional declaratory statement, a formal wetland determination, a formal determination, a validated informal determination, or a revalidated jurisdictional determination, provide the identifying number.

The USACE currently uses the Corps of Engineers Wetlands Delineation Manual (1987 Manual) to establish USACE jurisdiction under Section 404 of the Clean Water Act. The State of Florida uses the Florida Wetlands Delineation Manual (Florida Department of Environmental Protection [FDEP], 1995), to determine wetland boundaries pursuant to Chapter 62-340, Florida Administrative Code, Delineation of the Landward Extent of Wetlands and Surface Waters.

Wetlands for the LNP site and associated facilities were delineated in accordance with the definitions and routine methodologies described in the 1987 Manual, and the Florida Wetlands Delineation Manual. The limits of jurisdictional wetland boundaries are based on the dominance of hydrophytic vegetation, the presence of hydric soils, and evidence of wetland hydrology. Preliminary wetland impacts assessed using FLUCCS mapping are included as part of the *Levy Nuclear Power Plant Units 1 and 2 Storm Water Management Report* (Attachment A.7). The FDEP Wetland Evaluation and Delineation Section (WEDS) biologists are currently conducting a formal wetland delineation of the central LNP project area. An update to this information will be provided once the agency field reviews are completed. No FWS designated critical habitats for protected species are found on the LNP site. For more detail information on wetland delineation for the LNP site and associated facilities refer to the *Ecological Report* (Attachment A2).

Wetlands crossed by the transmission lines corridors were identified using recent aerial photographs (2008) and South West Florida Water Management District (SWFWMD) FLUCCS data of 2004 that was updated after ground verification between October 2007 and January 2008. For more detailed information in relation to the transmission corridors wetlands refer to Section 2.2 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

E. Impact Summary Tables:

1. For all projects, complete Tables 1, 2 and 3 as applicable.

   Refer to Table 1 for estimated wetland impacts for the LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor. Estimated impacts are currently based on FLUCCS mapping and are included with this application. An update to this information will be provided once the agency field reviews are completed.

   Preliminary estimated impacts for the transmission lines corridors are summarized in Table 3 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

2. For docking facilities or other structures constructed over wetlands or other surface waters, provide the information requested in Table 4.

   Refer to Table 4 for barge slip/boat ramp access facilities.

3. For shoreline stabilization projects, provide the information requested in Table 5.

   N/A

III. Plans

Provide clear, detailed plans for the system including specifications, plan (overhead) views, cross sections (with the locations of the cross sections shown on the corresponding plan view), and profile (longitudinal) views of the proposed project. The plans must be signed and sealed by an appropriate registered professional as required by law. Plans must include a scale and a north arrow. These plans should show the following:

A. Project area boundary and total land area, including distances and orientation from roads or other land marks;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3) as well as Aerial Maps (Figures 1 through 14) and FLUCCS Level III (Figures 15 through 29) provided as Figures within the *Ecological Report* (Attachment A.2).

Refer to Figure X-10 in the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B) for depiction of the transmission lines corridors.

B. Existing land use and land cover (acreage and percentages), and onsite natural communities, including wetlands and other surface waters, aquatic communities, and uplands. Use the Florida Land Use Cover & Classification System (FLUCCS) (Level III) for projects proposed in the South Florida Water Management District, the St. Johns River Water Management District, and the Suwannee River Water Management District and use the National Wetlands Inventory (NWI) for projects proposed in the Southwest Florida Water Management District. Also identify each community with a unique identification number which must be consistent in all exhibits.

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3) as well as Aerial Maps (Figures 1 through 14) and FLUCCS Level III (Figures 15 through 29) provided as Figures within the *Ecological Report* (Attachment A.2).

Transmission lines corridors land uses are depicted in Figure X-10 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

C. The existing topography extending at least 100 feet off the project area, and including adjacent wetlands and other surface waters. All topography shall include the location and a description of known benchmarks, referenced to NGVD. For systems waterward of the mean high water (MHW) or seasonal high water lines, show water depths, referenced to mean low water (MLW) in tidal areas or seasonal low water in non-tidal areas, and list the range between MHW and MLW. For docking facilities, indicate the distance to, location of, and depths of the nearest navigational channel and access routes to the channel.

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *USGS Quadrangle Map* (Figure 1) and *Topographic Map of LNP Site* (Attachment A.1 Figure 4) as well as the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3).

For the Transmission Line Corridors refer to Figures X-1, X-2 and X-3 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report report by Golder Associates (Attachment B).

D. If the project is in the known flood plain of a stream or other water course, identify the following: 1) the flood plain boundary and approximate flooding elevations; and 2) the 100-year flood elevation and floodplain boundary of any lake, stream or other watercourse located on or adjacent to the site;

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) depicting base flood information for the LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor are provided in Figure 5 (Attachment A.1 of this application) and Appendix A1 of the *Levy Nuclear Power Plant Units 1 and 2 Storm Water Management Report* by The Shaw Group, Inc. (Attachment A.3 of this application).

Floodplain issues, if any, for the transmission corridors to be provided after the right-of-way has been selected.

E. The boundaries of wetlands and other surface waters within the project area. Distinguish those wetlands and other surface waters that have been delineated by any binding jurisdictional determination;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3) as well as the for Aerial Maps (Figures 1 through 14) and FLUCCS Level III (Figures 15 through 29) provided as Figures within the *Ecological Report* (Attachment A.2).

For the transmission lines corridors refer to Figures X-10 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

F. Proposed land use, land cover and natural communities (acreage and percentages), including wetlands and other surface waters, undisturbed uplands, aquatic communities, impervious surfaces, and water management areas. Use the same classification system and community identification number used in III (B) above.

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3) as well as Aerial Maps (Figures 1 through 14) and FLUCCS Level III (Figures 15 through 29) provided as Figures within the *Ecological Report* (Attachment A.2).

For the transmission lines corridors refer to Figure X-10 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

G. Proposed impacts to wetlands and other surface waters, and any proposed connections/outfalls to other surface waters or wetlands;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor wetland impacts are pending final binding jurisdictional determinations. An estimate of wetland impacts based on FLUCCS Level III is provided in Table 1.

For the transmission lines corridors refer to Tables 3 and 4 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

H. Proposed buffer zones;

For transmission corridors a 25-ft deep foliage screen of existing vegetation with mature heights not exceeding 12 ft will be left intact at locations where the right-of-way crosses a navigable waterway if practicable. A path may be cleared through the vegetation for PEF maintenance access to the right-of-way. For the plant site proper erosion and turbidity control measures will be maintained within the project area surrounding existing upland and wetland systems during construction. Upland areas adjacent to undisturbed wetland areas will be preserved to the greatest extent possible to provide a protective buffer.

I. Pre- and post-development drainage patterns and basin boundaries showing the direction of flows, including any off-site runoff being routed through or around the system; and connections between wetlands and other surface waters;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3) as well as the Overall Drainage Basins (Figure 6, Attachment A.1). For transmission lines corridors detailed design information will be provided to the appropriate regulatory agencies no later than through the post-certification monitoring review process authorized by Rule 62-17.191, F.A.C., to demonstrate that drainage patterns and characteristics are not further altered from the predevelopment condition.

J. Location of all water management areas with details of size, side slopes, and designed water depths;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3). Any required storm water management controls associated with the transmission lines will be identified following route selection and final design of the access road and structure pads.

K. Location and details of all water control structures, control elevations, any seasonal water level regulation schedules; and the location and description of benchmarks (minimum of one benchmark per structure);

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3).

L. Location, dimensions and elevations of all posed structures, including docks, seawalls, utility lines, roads, and buildings;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3). Location of structures and access roads within the transmission line are pending; conceptual dimensions and elevations of structures are provided in Figures X-5 through X-9 and Section 1.4 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

M. Location, size, and design capacity of the internal water management facilities;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3) as well as the *Levy Nuclear Power Plant Units 1 and 2 Storm Water Management Report* (Attachment A.7). Any required storm water management controls associated with the transmission lines will be identified following actual route selection and final design of the access road and structure pads.

N. Rights-of-way and easements for the system, including all onsite and off-site areas to be reserved for water management purposes, and rights-of-way and easements for the existing drainage system, if any;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3). Right-of-way for the transmission corridor is pending route selection.

O. Receiving waters or surface water management systems into which runoff from the developed site will be discharged;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3). Any required storm water management controls associated with the transmission lines will be identified following actual route selection and final design of the access road and structure pads.

P. Location and details of the erosion, sediment and turbidity control measures to be implemented during each phase of construction and all permanent control measures to be implemented in post-development conditions;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3) as well as erosion control measures schedule (Attachment A.5).

For the transmission lines corridors refer to Section 1.4 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B) for erosion control measures to be taken during and after construction.

Q. Location, grading, design water levels, and planting details of all mitigation areas;

A mitigation plan to compensate for unavoidable wetland impacts at the LNP site and associated facilities is being developed based on estimated losses of wetland functions determined through functional analyses. Results of the UMAM analysis are included in the *Ecological Report* (Attachment A.2). Compensatory mitigation will consist of a combination of onsite and offsite wetland preservation, enhancement, restoration and creation. Purchase of credits from a wetland mitigation bank may be used where appropriate to compensate for impacts to wetlands within proposed transmission corridors.

Onsite wetland enhancement will involve grading to improve hydrologic connection, selective harvest and thinning of pines, and prescribed burns to reduce undergrowth. Monitoring will be conducted to ensure that ecological success criteria are met. Offsite mitigation may include property acquisition and ecological restoration and preservation. PEF is currently conducting a GIS screening of properties in the vicinity of LNP to identify areas that are appropriate for offsite mitigation.

Consultations are ongoing with state and federal agencies to identify specific regional ecological needs and opportunities. These agencies include the following:

- **Office of Coastal and Aquatic Managed Areas**
- **Office of Greenways and Trails**
- **Southwest Florida Water Management District**

- **Florida Department of Agriculture and Consumer Services, Division of Forestry**
- **US Army Corps of Engineers**

Meetings with additional agencies, including the US Fish and Wildlife Agency and the Florida Fish and Wildlife Conservation Commission are forthcoming. Recommendations from resource agencies will be incorporated into the LNP mitigation plan to the extent possible in order to provide the most appropriate long-term net ecological benefits to the region.

The mitigation plan will be finalized following wetland jurisdictional determinations from the USACE and FDEP and further consultations with resource agencies.

For the transmission lines corridors, a wetland jurisdictional survey will be conducted within the right-of-way once the right-of-way has been selected, and the location of structures, pads and access roads is determined. A preliminary assessment of wetland impact and the functional loss of the wetlands was conducted based on a conceptual right-of-way. Loss of wetland functions associated with transmission line access roads and structure pads will be compensated through an approved mitigation bank in consultation with FDEP and USACE representatives. For wetland mitigation information related to the transmission corridors refer to Section 2.6 of the USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant by Golder Associates (Attachment B).

R. Site grading details, including perimeter site grading;

For the LNP project site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3).

Refer to Figures X-7 through X-9 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* by Golder Associates (Attachment B) for illustration of potential grading required within the transmission line right-of-way related to access roads and pads.

S. Disposal site for any excavated material, including temporary and permanent disposal sites;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor, Building 186 is the designated stockpile area. No onsite disposal is anticipated. The clearing and grubbed vegetation will be burned. Anything that cannot be burned will be hauled off-site to an approved upland disposal area. The potential off-site disposal location will be: The Levy County Landfill, 4 miles SE of Bronson off US27; Bronson, Florida.

Excess material resulting from the excavation of the top soil layer for construction and placement of foundations associated with the transmission lines may be spread in upland areas as allowed by the conditions of certification (Section 1.4). Any required excavation within the transmission corridors will be provided upon final route selection/structure (pole) placement and access road layout/design.

T. Dewatering plan details;

For LNP project site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to *Dewatering Plan* (Attachment A.6).

The construction of the transmission lines should not require groundwater withdrawal, dewatering, or relocation of any water bodies (Attachment B Section 2.3). Any dewatering required within the transmission corridors will be provided upon final route selection/structure (pole) placement and access road layout/design.

U. For marina facilities, locations of any sewage pumpout facilities, fueling facilities, boat repair and maintenance facilities, and fish cleaning stations.

N/A.

V. Location and description of any nearby existing off-site features which might be affected by the proposed construction or development such as storm water management ponds, buildings or other structures, wetlands or other surface waters.

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3).

Any required storm water management controls associated with the transmission lines will be identified following route selection and final design of the access road and structure pads.

W. For phased projects, provide a master development plan.

N/A

IV. Construction Schedule and Techniques

Provide a construction schedule, and a description of construction techniques, sequencing and equipment. This information should specifically include the following:

A proposed construction date of June 2009 is anticipated for this project. The project is expected to require 7 years to complete. For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to accompanying *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3). For transmission line corridors refer to Section 1.4 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report report by Golder Associates (Attachment B) for a description of construction techniques and sequencing.

A. Method for installing any pilings or seawall slabs;

The *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3) include details as summarized below:

Construction of the Utility Bridge will include the installation of prestressed concrete piling in the Inglis Lock Bypass Channel. This work is scheduled to begin once the limited work authorization is received. These will be installed using crawler cranes with over 100 ton capacity and impact pile hammers. Concrete piling will be used for the bridges over the bypass canal. A lattice boom crawler crane similar to a Link-Belt 308 Hylab 5 will be used for the lifting work. The piles will be installed from land using a diesel impact hammer similar to a Conmaco D30-32. Steel templates will be used to control pile location.

B. Schedule of implementation of temporary or permanent erosion and turbidity control measures;

Temporary and permanent erosion and turbidity control measures will be installed before any existing areas are disturbed. For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3). For transmission line corridors refer to Section 1.4 the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

C. For projects that involve dredging or excavation in wetlands or other surface waters, describe the method of excavation, and the type of material to be excavated;

For LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor wetlands areas onsite will be stripped of topsoil and organics. It is anticipated from test pits that the organics to be removed will be 12 to 18 inches deep. These areas will be excavated using backhoes, loaded without dewatering and the material transported in trucks to the stockpiles. The topsoil and organics removed and stockpiled at the Spoil Area will be reused as topsoil in grassed areas.

Steel sheet piling will be installed at the Barge Slip/Boat Ramp and in a cofferdam for the construction of the Intake Structure. A lattice boom crawler crane similar to a Link-Belt 308 Hylab 5 will be used for the lifting work. The piles will be installed from land using a vibratory pile hammer similar to an ICE 416. Steel templates will be used to control pile locations. Concrete piling will be used for the bridges over the Inglis Lock Bypass Channel. A lattice boom crawler crane similar to a Link-Belt 308 Hylab 5 for the lifting work will be used. The piles will be installed from land using a diesel impact hammer similar to a Conmaco D30-32. Steel templates will be used to control pile location.

For description of excavation and filling methods applicable to the transmission lines corridors refer to Section 1.4 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B). Dredging details for the transmission corridor, if required, will be provided once final route selection/structure (pole) placement and access road layout/design is completed.

D. For projects that involve fill in wetlands or other surface waters, describe the source and type of fill material to be used. For shoreline stabilization projects that involve the installation of rip rap, state how

these materials are to be placed, (i.e. individually or with heavy equipment) and whether the rocks will be underlain with filter cloth;

Wetland areas will be filled after organics are removed for the construction of the LNP site, heavy haul road, and blowdown pipe corridor. Fill source will consist of onsite material proceeding from the excavation of proposed storm water management areas and off-site borrow. Offsite borrow material will be clean fill that meets or exceeds the requirements of Section 120-6 of the Florida Department of Transportation (FDOT) Standard Specifications.

Rip rap will be placed at the barge canal for stabilization in three foot thick beds consisting of 12 to 24 inches limestone. Geotextile fabric will not be placed underneath the rip rap. Rip rap will be placed by backing dump trucks to the top of slope, dumping the stone directly onto the stabilization area and flattening down the area to a 3H:1V slope with an excavator bucket. Rip rap will be placed to produce a well graded mass by distributing larger rock fragments throughout and eliminating "pockets" of small rock fragments. Individual pieces will be rearranged by mechanical equipment or by hand as necessary to obtain the distribution of fragment sizes specified above.

Construction in wetland areas for the transmission line corridor is detailed Section 2.2 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

E. If dewatering is required, detail the dewatering proposal including the methods that are proposed to contain the discharge, methods of isolating dewatering areas, and indicate the period dewatering structures will be in place (Note: a consumptive use or water use permit may by required);

An impervious "diaphragm wall" will be installed around a 75 foot deep cut and pressure grouting injected under the excavation to minimize water flow into the excavation. Dewatering the excavation of the nuclear island that is within the diaphragm wall will be required. Six foot or four foot pumps will be used to collect and remove any inflow water or storm water discharging into a temporary settling pond with a filtration device for discharge into the natural site wetlands.

Because of the diaphragm wall and the grout injection, it is not anticipated that more than 60 to 100 gallons per minute (GPM) be discharged.

Pipeline and minor excavations will be dewatered primarily using well-point systems as needed. Using up to 12" well-point pumps with flows up to 2400 GPM is anticipated. Maximum flows for a short time are anticipated when the system is first started and then average flows of 10% to 20% of the maximum. Some sump pumping of these excavations is also expected. The sump pumps will be 2" to 6" pumps with anticipated flows of approximately 100 GPM. Both of these discharges will be pumped into temporary settling ponds with filtration devices for discharge into the natural site wetlands.

The dewatering structures will be installed prior to beginning any construction in the different areas and phases. The temporary devices will be removed after the permanent structures and best management practices are in place.

The construction of the transmission lines should not require groundwater withdrawal, dewatering, or relocation of any water bodies (Attachment B Section 2.3). Any dewatering required within the transmission corridors will be provided upon final route selection/structure (pole) placement and access road layout/design.

F. Methods for transporting equipment and materials to and from the work site. If barges are required for access, provide the low water depths and draft of the fully loaded barge;

Equipment and materials for LNP project site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor construction will be transported to the site by "over the road" trucking; and barges. Borrow material will be delivered to the project by over the road trucking. Roadway base materials, concrete aggregates, and temporary construction materials will be delivered by over the road trucks. Prefabricated items for the plants will be delivered by barge. Barges will require 12 foot low water depths. Barges will be sized by the load to draft less than the 12 foot low water depths. Refer to "Attachment 53J" (Attachment A.5) for a delivery schedule. Plant equipment will be transported to the site by "over the road" trucks. This equipment will be scheduled for "just-in-time" delivery. It will be unloaded at the planned equipment receiving areas where it will be unloaded, inspected and given a quality check before being installed. The heavy pre-fabricated modules will be placed on approximately 125-foot by 40-foot barges and transported to the site on multi-axel transports using the heavy haul road. The low water depths on the barge canal are 12 feet.

For transmission lines, equipment and materials will be transported to site via trucks on existing and/or new access roads. Refer to Section 1.4 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B) for additional information related to the transportation of materials and equipment as it relates to the installation of transmission lines.

G. Demolition plan for any existing structures to be removed; and

There are no existing structures on the site that will require demolition.

H. Identify the schedule and party responsible for completing monitoring, record drawings, and as-built certifications for the project when completed.

PEF will be responsible for any monitoring, record drawings, and as-built certificates.

V. Drainage Information

A. Provide pre-development and post-development drainage calculations, signed and sealed by an appropriate registered professional, as follows:

For the LNP site, heavy haul road, barge slip/boat ramp access, and blowdown pipe corridor, refer to the *Levy Nuclear Power Plant Units 1 and 2 Storm Water Management Report* by The Shaw Group, Inc. (Attachment A.7).

Drainage calculations for the transmission corridor will be submitted after corridor selection is finalized. Detailed design information for the transmission corridors will be provided to the appropriate regulatory agencies no later than through the post-certification monitoring review process authorized by Rule 62-17.191, F.A.C., to demonstrate that drainage patterns and characteristics are not further altered from the predevelopment condition.

1. Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin;
2. Water table elevations (normal and seasonal high) including aerial extent and magnitude of any proposed water table draw down;
3. Receiving water elevations (normal, wet season, design storm);
4. Design storms used including rainfall depth, duration, frequency, and distribution;
5. Runoff hydrograph(s) for each drainage basin, for all required design storm event(s);
6. Stage-storage computations for any area such as a reservoir, close basin, detention area, or channel, used in storage routing;
7. Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction;
8. Flood routings through onsite conveyance and storage areas;
9. Water surface profiles in the primary drainage system for each required design storm event(s);
10. Runoff peak rates and volumes discharged from the system for each required design storm event(s);
11. Tail water history and justification (time and elevation); and
12. Pump specifications and operating curves for range of possible operating conditions (if used in system).

B. Provide the results of any percolation tests, where appropriate, and soil borings that are representative of the actual site conditions;

Monitoring wells were set within the surficial aquifer and hydraulic conductivity values were determined for four quarterly reporting periods. Further information is provided in the *Levy Nuclear Power Plant Units 1 and 2 Storm Water Management Report* by The Shaw Group, Inc. (Attachment A.7). Appendix D provides the groundwater level information; Appendix E provides the testing, and

Appendix F provides the values reported by the Natural Resource Conservation Commission (NRCS) for comparison.

C. Provide the acreage, and percentages of the total project, of the following: Values provided for the portion of the owned land for which improvements are proposed.
Values to be updated once agency field reviews are completed.

1. Impervious surfaces, excluding wetlands;
   Total 458.98 ac.;
   LNP Site: 212.48 ac.;
   Transmission Lines Pads: 203.00 ac.;

2. Pervious surfaces (green areas, not including wetlands);
   Total 28,032.49 ac.;
   LNP Site: 361.63 ac.;
   Transmission Lines Corridors: 27,422.70 ac.;

   Blowdown Pipeline Route: 248.16 ac.;

3. Lakes, canals, retention areas, other open water areas; and
   Retention Areas **63.15 Wet Pond + 33.06 Dry Retention = 96.21 ac.;**

4. Wetlands. **To be updated once the agency field reviews are completed.**
   Total 642.8 ac.;
   LNP Site: 225.9 ac.;
   Transmission Lines Routes: 330.9 ac.;

   Blowdown Pipeline Route: 84.9 ac.;
   Barge Slip/Boat Ramp access: 1.1 ac.;

D. Provide an engineering analysis of floodplain storage and conveyance (if applicable), including:

Floodplain information is provided Section 6 of the *Levy Nuclear Power Plant Units 1 and 2 Storm Water Management Report* by The Shaw Group, Inc. (Attachment A.7).

1. Hydraulic calculations for all proposed traversing works;

2. Backwater water surface profiles showing upstream impact of traversing works;

3. Location and volume of encroachment within regulated floodplain(s); and

4. Plan for compensating floodplain storage, if necessary, and calculations required for determining minimum building and road flood elevations.

E. Provide an analysis of the water quality treatment system including:

Wet detention ponds and dry retention swales/ponds are proposed for the LNP site and heavy haul road as shown in Section 5 of the *Levy Nuclear Power Plant Units 1 and 2 Storm Water Management Report* by The Shaw Group, Inc. (Attachment A.7). Any required storm water management systems associated with the transmission lines will be identified following actual route selection and final design of the access road and structure pads. Turbidity and erosion abatement BMPs will be utilized during construction and operation. Impacts proposed to jurisdictional wetlands within the transmission corridors will be detailed during the post-certification process.

1. A description of the proposed stormwater treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis; and

2. Site plans and calculations that address stage-storage and design elevations, which demonstrate compliance with the appropriate water quality treatment criteria.

F. Provide a description of the engineering methodology, assumptions and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, two diskette copies, if available, and justification for model selection.

For proposed drainage calculations for LNP site, heavy haul road, and blowdown pipe corridor, refer Section 5 of the *Levy Nuclear Power Plant Units 1 and 2 Storm Water Management Report* by The Shaw Group, Inc. (Attachment A.7). Drainage calculations for the transmission corridor will be submitted after corridor selection is finalized. Detailed design information for the transmission corridors will be provided to the appropriate regulatory agencies no later than through the post-certification monitoring review process authorized by Rule 62-17.191, F.A.C., to demonstrate that drainage patterns and characteristics are not further altered from the predevelopment condition. Impacts proposed to jurisdictional wetlands within the transmission corridors will be detailed during the post-certification process.

VI. Operation and Maintenance and Legal Documentation

A. Describe the overall maintenance and operation schedule for the proposed system.

PEF will perform routine maintenance of the proposed storm water management systems in accordance with the approved FDEP Environmental Resource Permit.

B. Identify the entity that will be responsible for operating and maintaining the system in perpetuity if different than the permittee, a draft document enumerating the enforceable affirmative obligations on the entity to properly operate and maintain the system for its expected life, and documentation of the entity's financial responsibility for long-term maintenance. If the proposed operation and maintenance entity is not a property owner's association, provide proof of the existence of an entity, or the future acceptance of the system by an entity which will operate and maintain the system. If a property owner's association is the proposed operation and maintenance entity, provide copies of the articles of incorporation for the association and copies of the declaration, restrictive covenants, deed restrictions, or other operational documents that assign responsibility for the operation and maintenance of the system. Provide information ensuring the continued adequate access to the system for maintenance purposes. Before transfer of the system to the operating entity will be approved, the permittee must document that the transferee will be bound by all terms and conditions of the permit.

PEF will be the entity responsible for operating and maintaining the proposed storm water management systems.

C. Provide copies of all proposed conservation easements, storm water management system easements, property owner's association documents, and plats for the property containing the proposed system.

Refer to the Special Warranty Deed (Doc #499472), dated September 14, 2007 and Warranty Deed (Instrument #503598), dated December 14, 2007 (Attachment A.9). The proposed storm water management systems will be located within the northern PEF property boundaries as depicted in the Location Map (Attachment A.1 Figure 2).

D. Provide indication of how water and waste water service will be supplied. Letters of commitment from off-site suppliers must be included.

All water and wastewater services will be provided by new facilities owned and operated by PEF.

Portable water for the site will be supplied by on site wells. Permits will be applied for at a later date. The water will be supplied through an underground distribution system. Well sites are to be located on the north east portion of the site along road number 4 and the batch plant (122). Sanitary sewer is to be treated in a package plant located to the southwest of Unit 1. This will be a tertiary treatment system with final UVX disinfection. Effluent will then be discharged to the southwest. There will be approximately 100,000 gals/day of effluent generated at the site during construction, (30gals/day/person x 3000 persons). Effluent will be piped underneath perimeter road and discharged via a rip rap apron.

E. Provide a copy of the boundary survey and/or legal description and acreage of the total land area of contiguous property owned/controlled by the applicant.

Refer to the *Site and Structures Plans Levy Nuclear Plant Units 1 & 2* by The Shaw Group, Inc. (Attachment A.3).

VII. Water Use

A. Will the surface water system be used for water supply, including landscape irrigation, or recreation.

The wet detention pond water may be used for cooling tower water on an as-available basis.

B. If a Consumptive Use or Water Use permit has been issued for the project, state the permit number.

N/A

C. If no Consumptive Use or Water Use permit has been issued for the project, indicate if such a permit will be required and when the application for a permit will be submitted.

Water use permits are required for usage of over 500,000 GPD average annual use. These permits will be obtained prior to the commencement of any dewatering activities.

D. Indicate how any existing wells located within the project site will be utilized or abandoned.

Wells were identified within a 10-mile radius (Attachment A.1 Figure 7). Wells to be abandoned will be pressure grouted from total depth to land surface, the casing riser cut flush with ground surface, and an abandonment report filed with SWFWMD in accordance with SWFWMD Regulation of Wells rules in Chapter 40D-3.

Table 1
Project Impact Summary

WL & SW ID	WL & SW TYPE	WL & SW SIZE	WL & SW NOT IMPACTED	TEMPORARY WL & SW IMPACTS			PERMANENT WL & SW IMPACTS			MITIGATION I D
				WL & SW TYPE	IMPACT SIZE	IMPACT CODE	WL & SW TYPE	IMPACT SIZE	IMPACT CODE	
	5100			5100	0.000 SQ.FT. (0.000 AC.)		5100	159925.000 SQ.FT. (3.671 AC.)		
	5300			5300	0.000 SQ.FT. (0.000 AC.)		5300	814.000 SQ.FT. (0.019 AC.)		
	6150			6150	0.000 SQ.FT. (0.000 AC.)		6150	1490461.000 SQ.FT. (34.216 AC.)		
	6210			6210	3996697.000 SQ.FT. (91.752 AC.)		6210	3730406.000 SQ.FT. (85.638 AC.)		
	6240			6240	0.000 SQ.FT. (0.000 AC.)		6240	6792.000 SQ.FT. (0.156 AC.)		
	6300			6300	305365.000 SQ.FT. (7.010 AC.)		6300	3035555.000 SQ.FT. (69.687 AC.)		
	6410			6410	178921.000 SQ.FT. (4.107 AC.)		6410	450679.000 SQ.FT. (10.346 AC.)		
	6420			6420	0.000 SQ.FT. (0.000 AC.)		6420	234108.000 SQ.FT. (5.374 AC.)		
PROJECT TOTALS:					1148983.000 SQ.FT. (102.869 AC.)			9108740.000 SQ.FT. (209.108 AC.)		

WL = Wetland; **SW** = Surface water; **ID** = Identification number, letter, etc.
Wetland Type: Use an established wetland classification system and, in the comments section below, indicate which classification system is being used.
Impact Code (Type): D = dredge; F = fill; H = change hydrology; S = shading; C = clearing; O = other. Indicate the final impact if more than one impact type is proposed in a given area. For example, show F only for an area that will first be demucked and then backfilled.
Note: Multiple entries per cell are not allowed, except in the "Mitigation ID" column. Any given acreage of wetland should be listed in one row only, such that the total of all rows equals the project total for a given category (column). For example, if Wetland No. 1 includes multiple wetland types and multiple impact codes are proposed in each type, then each proposed impact in each wetland type should be shown on a separate row, while the size of each wetland type found in Wetland No. 1 should be listed in only one row.
Comments: FLUCCS III

TABLE 4
DOCKING FACILITY SUMMARY

Type of Structure*	Type of Work**	Number of Identical Docks	Length (feet)	Width (feet)	Height (feet)	Total square feet over water	Number of slips
Barge Slip/Boat Ramp[1]	Altered/Modified	1	250	50	--	0	1

	TOTALS:	Existing	Proposed
*Dock, Pier, Finger Pier, or other structure (please specify what type)	Number of Slips	0	0
**New, Replaced, Existing (unaltered), Removed, or Altered/Modified	Square Feet over the water	0	0 sq. ft.

[1]The project will consist of removal of an upland berm and excavation below the Mean High Water Elevation of 1.21 ft within the Cross Florida Barge Canal to provide access to the barge slip/boat ramp constructed in uplands by others.

Use of Structure:
Will the docking facility provide:

Live-aboard Slips? If yes, Number: **No**
Fueling Facilities: If yes, Number **None**
Sewage Pump-out Facilities? If yes, Number: **None**
Other Supplies or Services Required for Boating (excluding refreshments, bait and tackle)
☐ Yes ☒ No

Type of Materials for Decking and Pilings (i.e., CCA, pressure treated wood, plastic, or concrete)

Pilings **None**
Decking **Concrete**
Proposed Dock-Plank Spacing (if applicable) **N/A**

Proposed Size (length and draft), Type, and Number of Boats Expected to Use or Proposed to be Mooring at the facility) In addition to potential construction access for upland industrial development, variable size recreational boats will use this facility for recreational access. No moorings are proposed.

SECTION G

Application for Authorization to Use Sovereign Submerged Lands

Part 1: Sovereign Submerged Lands title information (see Attachment 5 for an explanation). Please read and answer the applicable questions listed below:

A. I have a sovereign submerged lands title determination from the Division of State Lands which indicates that the proposed project is NOT ON sovereign submerged lands (Please attach a copy of the title determination to the application). Yes☐ No☒

- If you answered Yes to Question A and you have attached a copy of the Division of State Lands Title Determination to this application, you do not have to answer any other questions under Part I or II of Section G.

B. I have a sovereign submerged lands title determination from the Division of State Lands which indicates that the proposed project is ON sovereign submerged lands (Please attach a copy of the title determination to the application). Yes☐ No☒

- If you answered yes to question B please provide the information requested in Part II. Your application will be deemed incomplete until the requested information is submitted.

C. I am not sure if the proposed project is on sovereign submerged lands (please check here). ☒

- If you have checked this box department staff will request that the Division of State Lands conduct a title determination. If the title determination indicates that the proposed project or portions of the project are located on sovereign submerged lands you will be required to submit the information requested in Part II of this application. The application will be deemed incomplete until the requested information is submitted.

D. I am not sure if the proposed project is on sovereign submerged lands and I DO NOT WISH to contest the Department's findings (please check here). ☐

- If you have checked this box refer to Part II of this application and provide the requested information. The application will be deemed incomplete until the requested information is submitted.

E. It is my position that the proposed project is NOT on sovereign submerged lands (please check here)☐

- If you have evidence that indicates that the proposed project is not on sovereign submerged lands please attach the documentation to the application. If the Division of State Lands title determination indicates that your proposed project or portion of your proposed project are on sovereign submerged lands you will be required to provide the information requested in Part II of this application.

Sovereign Submerged Lands Determination Comment: The Cross Florida Barge Canal and Inglis Lock Bypass Channel did not exist when Florida became a state; however, the land between these two suface waters is owned by the Trustees of the Internal Improvement Trust Fund. This project proposed work on submerged lands within the Cross Florida Barge Canal and Inglis Lock Bypass Channel.

Proprietary approval will be needed to carry out these activities on state lands. For the intake structure as well as the blowdown and makeup pipes, PEF will need an easement over the upland portions and a lease over the submerged areas. For the utility bridge, PEF will need an easement over the upland areas on either side of the Inglis Lock Bypass Channel and a second easement over submerged lands for the footprint of the Inglis Lock Bypass Channel that the bridge will span.

F. If you wish to contest the findings of the title determination conducted by the Division of State Lands please contact the Department of Environmental Protection's Office of General Counsel. Your proposed project will be deemed incomplete until either the information requested in Part II is submitted or a legal ruling indicates that the proposed project is not on sovereign submerged lands.

Part II: If you were referred to this section by Part I, please provide this additional information. Please note that if your proposed project is on sovereign submerged lands and the below requested information is not provided, your application will be considered incomplete.

A. Provide evidence of title to the subject riparian upland property in the form of a recorded deed, title insurance, legal opinion of title, or a long-term lease which specifically includes riparian rights. Evidence submitted must demonstrate that the application has sufficient title interest in the riparian upland property.

The land is owned by the Trustees of the Internal Improvement Trust Fund but is not expected to be considered Sovereign Submerged Land. Title information is not provided at this time.

B. Provide a detailed statement describing the existing and proposed upland uses and activities. For commercial uses, indicate the specific type of activity, such as marina, ship repair, dry storage (including the number of storage spaces), commercial fishing/seafood processing, fish camp, hotel, motel resort restaurant, office complex, manufacturing operation, etc.

Existing land cover types were classified based on Florida Land Use, Cover, and Forms Classification System (FLUCFCS) Level III codes, as interpreted and mapped by the Southwest Florida Water Management District (SWFWMD, 1999) or observations made during field surveys performed by CH2M HILL ecologists. Project Land Use Figures are provided in the *Ecological Report* (Attachment A.2).

For the transmission corridors, the existing land use and habitat types for each segment were identified using Florida Land Use and Cover Forms Classification System (FLUCCS) data (FDOT, 1999) and the Guide to the Natural Communities of Florida (FNAI and FDNR, 1990). Existing land use/land cover data dated 2004 was obtained from the SWFWMD (SWFWMD, 2008) and updated after ground truthing between October 2007 and January 2008. Land use is mapped at Level II or Level III and land cover (habitats) is mapped at Level III. Land use and habitats are depicted in Figures X-10.1 through 10.7 of the *USACE Environmental Resource Permit Application for Transmission Corridors Associated with the Levy Nuclear Plant* report by Golder Associates (Attachment B).

For rental operations, such as trailer or recreational vehicle parks and apartment complexes, indicate the number of wet slip units/spaces available for rent or lease and describe operational details (e.g., are spaces rented on a month-to-month basis or through annual leases).

N/A

For multi-family residential developments, such as condominiums, townhomes, or subdivisions, provide the number of living units/lots and indicate whether or not the common property (including the riparian upland property) is or will be under the control of a homeowners association.

N/A

For projects sponsored by a local government, indicate whether or not the facilities will be open to the general public. Provide a breakdown of any fees that will be assessed, and indicate whether or not such fees will generate revenue or will simply cover costs associates with maintaining the facilities.

N/A

C. Provide a detailed statement describing the existing and proposed activities located on or over the sovereign submerged lands at the project site. This statement must include a description of docks and piers, types of vessels (e.g., commercial fishing, liveaboards, cruise ships, tour boats), length and draft of vessels, sewage pumped facilities, fueling facilities, boat hoists, boat ramps, travel lifts, railways, and any other structure or activities existing or proposed to be located waterward of the mean/ordinary high water line.

The transmission corridor Segment 1, utility bridge, intake structure, barge slip/boat ramp access, as well as a portion of the blowdown and makeup pipelines are within ownership by the Trustees of the Internal Improvement Trust Fund. Although some of the areas are submerged, Sovereign Submerged Land designation is not expected.

If slips are existing and/or proposed, please indicate the number of powerboat slips and sailboat slips and the percentage of those slips available to the general public on a "first come, first served" basis. This statement must include a description of channels, borrow sites, bridges, groins, jetties, pipelines, or other utility crossings, and any other structures or activities existing or proposed to be located waterward of the mean/ordinary high water line. For shoreline stabilization activities, this statement must include a description of seawalls, bulkheads, riprap, filling activities, and any other structure or activities existing or proposed to be located along the shoreline.

N/A

D. Provide the linear footage of shoreline at the mean/ordinary high water line owned by the application which borders sovereign submerged lands.

N/A

E. Provide a recent aerial photo of the area. A scale of 1"=200' is preferred. Photos are generally available at minimal cost from your local government property appraiser's office or from district Department of Transportation offices. Indicate on the photo the specific location of your property/project site.

Refer to the figures within the Ecological Report for further information.

PROPRIETARY PROJECT DESCRIPTIONS

Please check the most applicable activity which applies to your project(s):

Leases

☐ Commercial marinas (renting wet slips) including condos, etc., if 50% or more of their wet slips are available to the general public
☐ Public/Local governments
☐ Yacht Clubs/Country Clubs (when a membership is required)
☐ Condominiums (requires upland ownership)
☐ Commercial Uplands Activity (temporary docking and/or fishing pier associated with upland revenue generating activities, i.e., restaurants, hotels, motels) for use of the customer at not charge
☐ Miscellaneous Commercial Upland Enterprises where there is a charge associated with the use of overwater structure (Charter Boats, Tour Boats, Fishing Piers)
☐ Ship Building/Boat Repair Service Facilities
☐ Commercial Fishing Related (Offloading, Seafood Processing)
☐ Private Single-family Residential Docking Facilities; Townhome Docking Facilities; Subdivision Docking Facilities (upland lots privately owned)

Public Easements and Use Agreements

☐ Miscellaneous Public Easements and Use Agreements
☐ Bridge Right-of-way (DOT, local government)
☐ Breakwater of groin
☐ Subaqueous Utility Cable (TV, telephone, electrical)
☐ Subaqueous Outfall or Intake
☐ Subaqueous Utility Water/Sewer
☐ Overhead Utility w/Support Structure on Sovereign Submerged Lands
☐ Disposal Site for Dredged Material
☐ Pipeline (gas)
☐ Borrow Site

Private Easements

☐ Miscellaneous Private Easements
☐ Bridge Right-of-way
☐ Breakwater Groin
☐ Subaqueous Utility Cable (TV, telephone, electrical)
☒ Subaqueous Outfall or Intake
☐ Subaqueous Utility Water/Sewer
☒ Overhead Utility Crossing
☐ Disposal Site for Dredged Material
☐ Pipeline (gas)

Consents of Use

- ☐ Aerial Utility Crossing w/no support structures on sovereign submerged lands
- ☐ Private Dock
- ☐ Public Dock
- ☐ Multi-family Dock
- ☐ Fishing Pier (private or Multi-family)
- ☐ Private Boat Ramp
- ☒ Sea Wall
- ☒ Dredge
- ☐ Maintenance Dredge
- ☐ Navigation Aids/Markers
- ☐ Artificial Reef
- ☒ Riprap
- ☐ Public Boat Ramp
- ☐ Public Fishing Pier
- ☐ Repair/Replace Existing Public Fishing Pier
- ☐ Repair/Replace Existing Private Dock
- ☐ Repair/Replace Existing Public Dock
- ☐ Repair/Replace Existing Multi-family Dock
- ☐ Repair/Replace Existing Fishing Pier (Private or Multi-family)
- ☐ Repair/Replace Existing Private Boat Ramp
- ☐ Repair/Replace Existing Sea Wall, Revetments, or Bulkheads
- ☐ Repair/Replace/Modify structures/activities within an exiting lease, easement, management agreement or use agreement area or repair/replace existing grandfathered structures
- ☐ Repair/Replace Existing Public Boat Ramp

Miscellaneous

- ☐ Biscayne Bay Letters of Consistency/Inconsistency w/258.397, F.S.
- ☐ Management Agreements - Submerged Lands
- ☐ Reclamation
- ☐ Purchase of Filled, Formerly Submerged Lands
- ☐ Purchase of Reclaimed Lake Bottom
- ☐ Treasure Salvage
- ☐ Insect Control Structures/Swales
- ☐ Miscellaneous projects which do not fall within the activity codes listed above

Appendix 10.4 ERP
Attachment A.1 Figures

Appendix 10.4 ERP
Attachment A.2 Ecological Report

ECOLOGICAL DESCRIPTION

This document provides ecological descriptions of the terrestrial communities on and in the vicinity of the LNP site and associated facilities, and evaluates the relationships of important floral and faunal species to onsite habitats.

TERRESTRIAL ECOLOGY

Terrestrial ecological resources were evaluated through published reports, agency consultation, and site reconnaissance. Descriptions of the terrestrial ecological resources on and in the vicinity of the site are provided.

Associated facilities comprise the following:

- Barge Slip\Boat Ramp Access
- Heavy Haul Road
- Substations
- Transmission Corridors

LNP Site

The LNP site is located in the Gulf Coastal Lowlands region of the Atlantic Coastal Plain Physiographic Province, which extends parallel to the Gulf Coast of Florida from Ft. Myers north and west to the Alabama state line. The region is characterized by broad, flat marine erosional plains that are low, generally less than 60 feet MSL in elevation. Elevation of the LNP site ranges from about 39 to 54 feet MSL.

The LNP site encompasses approximately 1256 hectares (3105 acres) in southwestern Levy County, 4.5 miles north of the town of Inglis and 7 miles east of the Gulf of Mexico. It is bounded by Goethe State Forest on the north, pine plantation on the east and south, and an exotic animal hunting ranch and Highway 19 on the west. The local terrain is typified by broad, low flats interspersed with shallow depressions. Pine flatwoods are the predominant vegetative community type in the region, with many of these systems having been converted from natural longleaf pine (*Pinus palustris*) and slash pine (*P. elliottii*) communities to slash and loblolly pine (*P. taeda*) plantations.

Until purchase by Progress Energy in 2007 the site was in active silviculture use and leased for hunting and target practice. The LNP site is undeveloped except for a network of limerock roads constructed for logging and hunting access. Surface drainage is generally to the west (See Figure 1, Attachment 1, in Attachment A of the ERP Application), but localized drainage patterns on the site

have been altered through silviculture activities such as grading, construction of logging roads, and limited ditching.

The plant site area is defined as the proposed location of the core nuclear facilities, encompassing about 121 hectares (300 acres) near the center of the LNP property. Land cover in the plant site area comprises clear-cut fields, planted pine, cypress swamps, and depressional marshes that occur mostly as isolated basins in stands of planted pine.

Soils in the study area have been extensively disturbed through clearing, logging road construction, and bedding. The predominant soils onsite (See Figure 3, Attachment 1, in Attachment A of the ERP Application) are Smyrna fine sands and Placid and Samsula soils, depressional. Smyrna fine sands are described as poorly drained and level soils in flatwoods, with a seasonal high water table at 6 to 18 inches for 1 to 4 months. Placid and Samsula soils, depressional are described as very poorly drained and nearly level soils in depressions in flatwoods. They are ponded, with the seasonal high water table typically above the surface for more than 6 months and within a depth of 12 inches during the rest of the year. The predominant soils map unit onsite is common across the region, covering approximately 28 percent of Levy County acreage.

Existing Cover Types

Existing vegetative cover types on the LNP site as described below are based on the Florida Land Use and Cover Forms Classification System (FLUCCS), interpreted and mapped by the Southwest Florida Water Management District and field-verified during ecological surveys conducted by CH2M HILL between September 2006 and April 2008 (See Figures, Map 1 through Map 29).

Major vegetative cover types on the LNP site are listed in Table 1 and described below in order of decreasing prevalence. Species lists are based on field surveys by CH2M HILL.

Natural communities onsite have been logged and are in various stages of regeneration. Remnant natural systems, such as logged cypress swamps in which cypress no longer comprises the dominant vegetative canopy cover, are described below under the classification that reflects current vegetative composition.

Tree Plantations (Code 440)

Encompassing about 720 ha (1760 ac), or 57 per cent of the land area, Tree Plantations comprise the predominant cover class onsite. Most of the site is planted with slash pine, and to a lesser extent, loblolly pine (*Pinus taeda*). The silviculture operations represent stages of short-rotation (<30 years) pine production from newly planted seedlings to early-maturity pine stands for the pulpwood market. After harvest the land is graded, bedded and replanted with pine seedlings. Bedding is the technique of forming continuous mounds of soil alternating with furrows. It is a common site preparation practice, especially

Wetlands are defined jointly by the Army Corps of Engineers (ACOE) and the Environmental Protection Agency (EPA) as “those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.” Wetlands include swamps, marshes, bogs, and similar areas. The USACE currently uses the Corps of Engineers Wetlands Delineation Manual (1987 Manual) to establish ACOE jurisdiction under Section 404 of the Clean Water Act. The State of Florida uses the Florida Wetlands Delineation Manual (Florida Department of Environmental Protection [FDEP], 1995), to determine wetland boundaries pursuant to Chapter 62-340, Florida Administrative Code, *Delineation of the Landward Extent of Wetlands and Surface Waters.*

Wetlands in the study area were delineated in accordance with the definitions and routine methodologies described in the 1987 Manual, and the Florida Wetlands Delineation Manual. The limits of jurisdictional wetland boundaries are based on the dominance of hydrophytic vegetation, the presence of hydric soils, and evidence of wetland hydrology. The FDEP Wetland Evaluation and Delineation Section (WEDS) biologists are currently conducting a formal wetland delineation of the central LNP project area.

Wetlands on and in the vicinity of the subject parcel were initially identified and characterized through review of agency databases, published documents and subsequently through field delineation by CH2M HILL. The most common wetland systems onsite are cypress swamps, cypress-hardwood mixed swamps and freshwater marsh.

No FWS designated critical habitats for protected species are found on the LNP site.

Preexisting Environmental Stresses

The major pre-existing environmental stresses on the LNP site are associated with the prolonged silviculture operations that reshaped the local landscape and converted diverse native vegetative communities to even-aged, monospecific planted pine stands. Earthwork can alter the soil substrate, distort local drainage patterns and profoundly transform natural communities.

The predominant forces shaping the succession of vegetative communities in pine plantations are fire and logging. Fire suppression encourages the proliferation of dense understory vegetation and the buildup of peat, which can fill what were formerly open water areas. Fire suppression also facilitates succession from cypress swamps to hardwood swamps. Heavy equipment may compact and damage wetland soils, and logging directly alters the vegetative composition of forests and changes drainage patterns through the construction of dikes, roads, bedding, and bedding. Clearcutting can exacerbate localized flooding, at least temporarily, through the loss of transpiring vegetation.

The large population of feral hogs onsite has damaged the native ecosystems. Feral hogs compete for mast (acorns, nuts and seeds) with native species such as deer, turkeys, bobwhite quail and squirrels, which can adversely impact the local population of these species. Hogs also eat reptiles, amphibians, small mammals and the eggs and young of many ground-nesting birds. They can inhibit forest regeneration by feeding on tree seeds and seedlings.

Associated Facilities

The Associated Facilities are structures necessary to the construction and/or operation of the LNP but which are located to a large extent outside the LNP property. These facilities comprise the following:

- Heavy Haul Road
- Barge Slip\Boat Ramp Access
- Makeup and Blowdown Pipelines
- Transmission Corridors

The heavy haul road, makeup pipeline, and blowdown pipeline are identified collectively as early infrastructure facilities, because they will be constructed in advance of the LNP generating facilities. Access to a barge slip/boat ramp within the Cross Florida Barge Canal will be facilitated by this project by removal of an upland berm and excavation below the Mean High Water Elevation of 1.2 feet. The barge slip/boat ramp, constructed in uplands pursuant to a separate permit, will be utilized by LNP. Land cover classes for the early infrastructure facilities are depicted on Table 6.

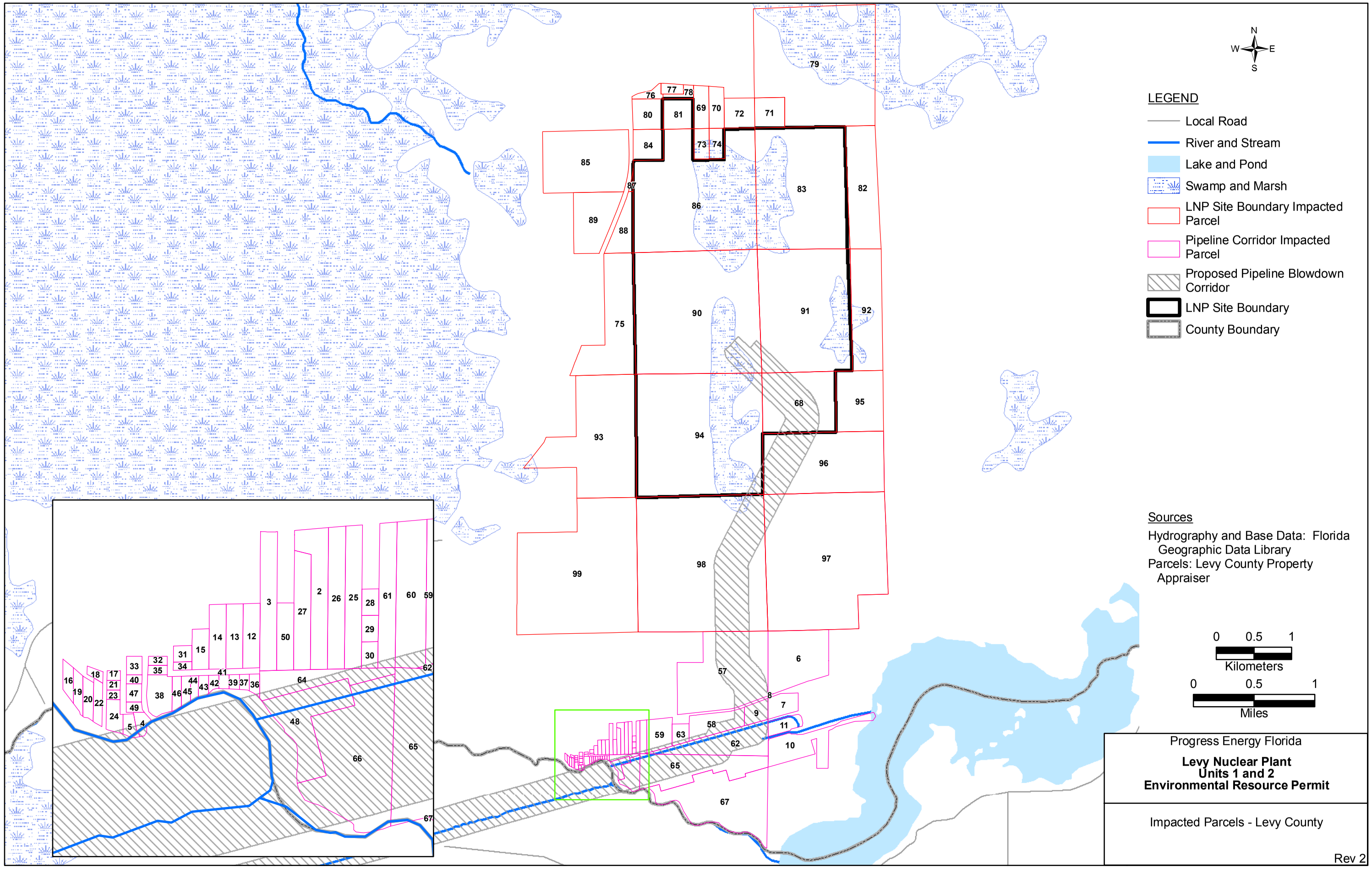
By a considerable margin, the dominant FLUCCS land cover type in the areas of the early infrastructure facilities is Tree Plantations, encompassing nearly half of the total acreage, or 145 ha (359 ac) out of 331 ha (819 ac). Upland Coniferous Forests encompass 41 ha (102 ac), Upland Hardwood Forest 22 ha (54.7 ac) and Vegetated Non-Forested Wetland, 21 ha (52 ac).

Threatened and endangered species that may potentially occur in the area of the early infrastructure facilities are similar to those that may occur on the LNP site. Dominant FLUCCS land cover types in the areas proposed for the transmission corridors are presented in Table 7.

Monitoring

The objectives of the terrestrial ecology monitoring program are to identify effects on the terrestrial community caused by the development, construction, and operation of LNP Units 1 and 2, and identify alternatives or engineering measures that could be used to reduce potential adverse effects. The monitoring program consists of pre-application, construction and pre-operational monitoring.

Appendix 10.4 ERP
Attachment A.10 Property Owners


N
W
E
S
LEGEND
Local Road
River and Stream
Lake and Pond
Swamp and Marsh
LNP Site Boundary Impacted Parcel
Pipeline Corridor Impacted Parcel
Proposed Pipeline Blowdown Corridor
LNP Site Boundary
County Boundary
Sources
Hydrography and Base Data: Florida Geographic Data Library
Parcels: Levy County Property Appraiser
0 0.5 1
Kilometers
0 0.5 1
Miles
Progress Energy Florida
Levy Nuclear Plant
Units 1 and 2
Environmental Resource Permit
Impacted Parcels - Levy County
Rev 2

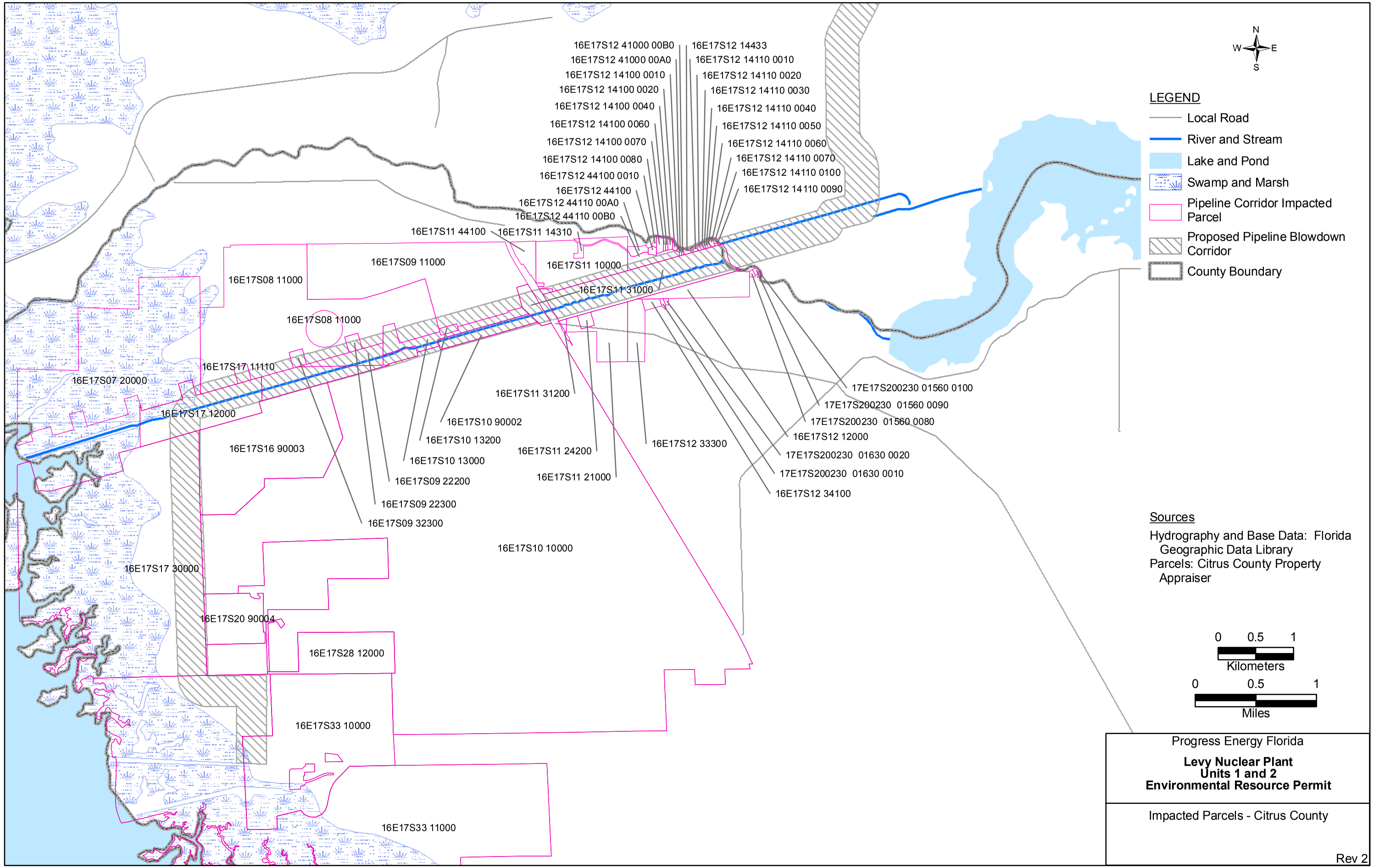
Site Boundary Impacted Parcels

Parcel ID	Owner Name	Mailing Address	City	State	Zip
0716170384000100	MCBRIDE ROBIN	1720 SE 11 ST	OCALA	FL	34471
0716170384200000	LEVINS RICHARD M & VONDA Z	8750 NE 157TH PL	INGLIS	FL	34449
0716170384500000	SMITH DEBORAH & ROBERT K	8850 SE 157 PL	INGLIS	FL	34449
0716170384700000	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
0716170384800000	ROBINSON LEVAUGHN F -TR-	PO BOX 40	YANKEETOWN	FL	34498
0716171436501600	BAYLESS MILDRED M -TRUSTEE-	PO BOX 4055 CARTER HOUSE	DOWLING PARK	FL	32060
0716171436501600	BAYLESS MILDRED M -TRUSTEE-	PO BOX 4055 CARTER HOUSE	DOWLING PARK	FL	32060
0816170384900000	TIITF/FORESTRY-DEPT OF AG	3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
0816170385000000	TIITF/AG FORESTRY	3900 COMMON WEALTH BLVD	TALLAHASSEE	FL	32399
1316160286400000	ROBINSON LEVAUGHN F -LIFE EST-	PO BOX 40	YANKEETOWN	FL	34498
1316160286400000	ROBINSON LEVAUGHN F -LIFE EST-	PO BOX 40	YANKEETOWN	FL	34498
1316160286500000	LYBASS JAMES H JR FAMILY LLC	PO BOX 38	DUNNELLON	FL	34430
1316160286500000	LYBASS JAMES H JR FAMILY LLC	PO BOX 38	DUNNELLON	FL	34430
1716170386600000	ROBINSON ESTATES INC	C/O RAYONIER WOODLANDS, PO BOX 728	FERNANDINA BEACH	FL	32035
1716170386600100	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
1816170386700000	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
1816170386800000	LEVINS RICHARD M & VONDA Z	8750 NE 157TH PL	INGLIS	FL	34449
1816170386800100	MCBRIDE ROBIN	1720 SE 11 ST	OCALA	FL	34471
1816170386800100	MCBRIDE ROBIN	1720 SE 11 ST	OCALA	FL	34471
1916170386900000	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
2016170387000000	ROBINSON ESTATES INC	C/O RAYONIER WOODLANDS, PO BOX 728	FERNANDINA BEACH	FL	32035
2016170387000100	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
2416160290400000	ROSS HAROLD	PO BOX 505	INGLIS	FL	34449
2516160290900000	ROSS HAROLD	PO BOX 505	INGLIS	FL	34449
2916170388900000	ROBINSON ESTATES INC	C/O RAYONIER WOODLANDS, PO BOX 728	FERNANDINA BEACH	FL	32035
2916170388900100	FLORIDA POWER CORPORATIONS	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
2916170389000000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
3016170389300000	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
3116170389400000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
3216170389600000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
3616160299800000	ROSS HAROLD	PO BOX 505	INGLIS	FL	34449
071617143650160A	VERBISKI RICHARD	8250 SE 157 PL, GOETHE ROAD	INGLIS	FL	34449

Pipeline Impacted Corridor Parcels - Levy County

Parcel ID	Owner Name	Mailing Address	City	State	Zip
0117160300300100	MOORE BARRY	PO BOX 48	HOWELLS	NY	10932
0117160300300300	DAN'S MOBILE HOME PARK INC	1 DAN'S DR	INGLIS	FL	34449
0117160300300500	CRICHTON BRUCE	16250 SE 72ND CT	INGLIS	FL	34449
0117160300300600	RIMES PAULETTA JEAN -TR-	PO BOX 8	INGLIS	FL	34449
0117160300301400	STOUT DOUGLAS J & SUSAN R	2 DAN'S DRIVE	INGLIS	FL	34449
0117160300301500	CRICHTON BRUCE	16250 SE 72ND CT	INGLIS	FL	34449
0117160300900100	BILLUPS MITCHELL E & INEZ D	151 N MAPLE ST	INGLIS	FL	34449
0117160300900200	BRENNAN PATTYE R &THOMAS J JR	PO BOX 709	INGLIS	FL	34449
0117160300901000	PRESSLER DAVID W	858 NW 81 TER	PLANTATION	FL	33324
0117160300901400	SIMMENS CRAIG & VIRGINIA	100 SIMMENS RANCH RD	SILVER CITY	NM	88061
0117160300901500	SWAIN MARVIN D & ROBERTA	160 HUDSON ST	INGLIS	FL	34449
0117160845600000	HOUCHENS JAN KAREN	P O BOX 912	INGLIS	FL	34449
0117160846100400	COSEY GEORGE H	1151 N VAN WERT RD	VILLA RICA	GA	30180
0117161771400000	FARNAN ROBERT W & MARY J	PO BOX 609	INGLIS	FL	34449
0117161771500000	OWENS RUTH W	347 HUDSON ST	INGLIS	FL	34449
0117161771600000	TURNER RAYMOND G & KENNA K	PO BOX 1107	INGLIS	FL	34449
0117161771700000	FURINO LOUIS A & PAM A	271 HUDSON ST	INGLIS	FL	34449
0517170395900100	TIITF/DEP REC & PARKS	3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
0517170396100000	TIITF/DEP REC & PARKS	3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
0517170396400000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
0517170396500000	SMITH CHARLES J & LOUISE	P O BOX 488	DUNNELLON	FL	34430
0517170396500000	SMITH CHARLES J & LOUISE	P O BOX 488	DUNNELLON	FL	34430
0617170396700000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
0617170396700000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
0617170396700100	LEVY COUNTY PORT AUTHORITY	P O DRAWER 310	BRONSON	FL	32621
0617170396900100	LEVY COUNTY PORT AUTHORITY	P O DRAWER 310	BRONSON	FL	32621
0617170397000100	TIITF/DEPT REC & PARKS	C/O DEP DOUGLAS BLDG	TALLAHASSEE	FL	32399
0617170397000300	BESCHER JOHN J	8150 HIGHWAY 40 E	INGLIS	FL	34449
0617170397000400	GIBSON FREDA	PO BOX 1234	INGLIS	FL	34449
0717170397100000	FLORIDA STATE OF TIITF	3900 COMMONWEALTH BLVD, MAIL STATION 115	TALLAHASSEE	FL	32399
0717170397200000	TIITF/DEPT OF REC & PARKS	C/O DEP DOUGLAS BLDG	TALLAHASSEE	FL	32399
1217160313400000	LEE DALTON D	PO BOX 422	FLORAL CITY	FL	34436
1217160313500000	TIITF/DEPT OF REC & PARKS	C/O DEP-DOUGLAS BLDGE	TALLAHASSEE	FL	32399
1217160313500100	TIITF/DEPT OF REC & PARKS	C/O DEP-DOUGLAS BLDGE	TALLAHASSEE	FL	32399
1217160313600000	HUDSON MARY JARVIS	190 HUDSON ST	INGLIS	FL	34449
1217160313600100	DEWEESE MITCHELL P & SUZANNE	245 PALM ST	INGLIS	FL	34449
1217160313600200	KENNEDY ROBERT M & BONNIE L	1353 MILLER ST NE	PALM BAY	FL	32905
1217160313600300	BROWN LAWRENCE E & KATHLEEN A	211 PALM ST	INGLIS	FL	34449
1217160313800000	STRAHIN MARY E	322 HUDSON ST	INGLIS	FL	34449
1217160313900000	HILLENGAS DONALD V & RITA J	296 HUDSON ST	INGLIS	FL	34449
1217160314000000	WATSON LUCILLE H	272 HUDSON ST	INGLIS	FL	34449
1217160314100000	MILLER SYDNEY & SUSANNE P	340 HUDSON ST	INGLIS	FL	34449
1217160314200000	MACKENZIE WICK	362 HUDSON ST	INGLIS	FL	34449
1217160314300000	ALDRICH SHARON D	14475 W OZELLO TR	CRYSTAL RIVER	FL	34429
1217160314400000	BUTLER FLOYD F & GEORGIE C- CO-TRS-	200 HUDSON ST	INGLIS	FL	34449
1217160314500000	EILAND ARCHIE G & MARTHA	P O DRAWER 489	INGLIS	FL	34449
1217160314600000	TARR WILLIAM L JR	262 HUDSON ST	INGLIS	FL	34449
1217160845000000	CRANE ALICE M & KENNETH V -CO TRUSTEES-	PO BOX 928	INGLIS	FL	34449
1217160845300000	MCKNIGHT MARY JANE -TR-	240 MASTADON DR	INGLIS	FL	34449
1217160845300100	KREIDLER SCOTT & DIANA	1110 MCLEAN ST	DUNEDIN	FL	34698
1217160846100000	DIGHTMAN MORRIS	1324 N LIBERTY LAKE RD #204	LIBERTY LAKE	WA	99019

Parcel ID	Owner Name	Mailing Address	City	State	Zip
1217160846100500	DRAKE WAYNE A	PO BOX 604	INGLIS	FL	34449
1217160846300000	DRAKE WAYNE J & BONNIE J	PO BOX 604	INGLIS	FL	34449
1217160846700000	STACKLIN ELIZABETH W	244 PALM ST	INGLIS	FL	34449
1916170386900000	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
2016170387000100	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
2916170388900100	FLORIDA POWER CORPORATIONS	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
2916170389000000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
3016170389300000	FLORIDA POWER CORPORATION	299 FIRST AVENUE NORTH	ST PETERSBURG	FL	33701
3116170389400000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
3216170389600000	LYBASS J H JR FAM LLC	PO BOX 38	DUNNELLON	FL	34430
011716030030020A					
011716030030040C	UMHOEFER DONALD R & MARIE	2129-B RT 32	SAUGERTIES	NY	12477
011716030030040D	ZIMMER ROBERT E & SUSAN J	258 BAMA RD	GILBERT	SC	29054
011716030030040E	UMHOEFER EDWINA T	152 BREEZY WAY	INGLIS	FL	34449
121716031360010A	BAIRD KEITH & OLIVIA	12080 NE 8TH AVE	OCALA	FL	34479
121716031360030A	HATCHER ROBERT E & DONNA J	2530 141 CT	MORRISTON	FL	32668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16E17S12 44100
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16E17S20 90004
16E17S28 12000
16E17S33 10000
16E17S33 11000
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E
S
LEGEND
Local Road
River and Stream
Lake and Pond
Swamp and Marsh
Pipeline Corridor Impacted Parcel
Proposed Pipeline Blowdown Corridor
County Boundary
Sources
Hydrography and Base Data: Florida Geographic Data Library
Parcels: Citrus County Property Appraiser
0 0.5 1
Kilometers
0 0.5 1
Miles
Progress Energy Florida
Levy Nuclear Plant
Units 1 and 2
Environmental Resource Permit
Impacted Parcels - Citrus County
Rev 2

Pipeline Impacted Corridor Parcels - Citrus County

Parcel ID	Owner Name	Mailing Address	City	State	Zip
16E17S07 20000	TIITF DEP GREENWAYS GREENWAYS ST REC AREA	C/ODEP 3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S08 11000	CITRUS MINING & TIMBER INC IAC LEASEHOLD-TIMBER	PO BOX 277	CRYSTAL RIVER	FL	34423
16E17S08 11100	CITRUS MINING & TIMBER INC IAC LEASEHOLD-MINING	PO BOX 277	CRYSTAL RIVER	FL	34423
16E17S09 11000	CITRUS MINING & TIMBER INC ATTN DIXIE HOLLINS PRES	PO BOX 277	CRYSTAL RIVER	FL	34423
16E17S09 22200	TIITF DEP GREENWAYS GREENWAYS ST REC AREA	3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S09 22300	CITRUS MINING & TIMBER INC	PO BOX 277	CRYSTAL RIVER	FL	34423
16E17S09 32300	CITRUS MINING & TIMBER INC	PO BOX 277	CRYSTAL RIVER	FL	34423
16E17S10 10000	HCR LIMESTONE INC ATTN HOLCIM TAX DEPARTMENT	201 JONES RD	WALTHAM	FL	2451
16E17S10 10000	HCR LIMESTONE INC ATTN HOLCIM TAX DEPARTMENT	201 JONES RD	WALTHAM	FL	2451
16E17S10 13000	CITRUS MINING & TIMBER INC ATTN DIXIE M HOLLINS PRES	PO BOX 277	CRYSTAL RIVER	FL	34423
16E17S10 13200	CITRUS MINING & TIMBER INC ATTN DIXIE HOLLINS PRES	PO BOX 277	CRYSTAL RIVER	FL	34423
16E17S10 90001	TIITF STATE OF FLA C/O DEP	3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S10 90002	TIITF STATE OF FLA C/O DEP	3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S11 10000	GOODMAN HARVEY ATTN HOPS INTL INC	15105 NW 77TH AVE	MIAMI LAKES	FL	33014
16E17S11 14310	GOODMAN HARVEY ATTN HOPS INTL INC	15105 NW 77TH AVE 4TH FL	MIAMI LAKES	FL	33014
16E17S11 21000	FELBURN FOUNDATION THE ATTN MUTCH & BRIGHAM PA	2114 NW 40TH TER A 1	GAINESVILLE	FL	32605
16E17S11 24200	TIITF DEP GREENWAYS GREENWAYS ST REC AREA	C/O DEP 3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S11 31000	TIITF DEP GREENWAYS GREENWAYS ST REC AREA	C/ODEP 3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S11 42300	CITRUS COUNTY FIRE PROTECTION TAXING DIST	3600 W SOVEREIGN PATH STE 266	LECANTO	FL	34461
16E17S11 42301	SMITH WALTER	27 SWAIN PL	WEST ORANGE	NJ	7052
16E17S11 44100	RIVER LODGE RESORT LLC	BOX 1447	CRYSTAL RIVER	FL	34423
16E17S12 12000	GOODMAN HARVEY ATTN HOPS INTL INC	15105 NW 77TH AVE 4TH FL	MIAMI LAKES	FL	33014
16E17S12 14100 0010	CLARK DAVID J & ANN L	12591 W FOSS GROVES PATH	INGLIS	FL	34449
16E17S12 14100 0020	SCHLACHTER STEWART A & MARY L	12619 W FOSS GROVES PATH	INGLIS	FL	34449
16E17S12 14100 0040	ADAMS MITCHELL E & MARIE A	12659 W FOSS GROVES PATH	INGLIS	FL	34449
16E17S12 14100 0060	LAWSON FRANK W & SUSAN F & FRANK J SOFKA	509 DUQUE RD	LUTZ	FL	33549
16E17S12 14100 0070	LAWSON FRANK W & SUSAN F & FRANK J SOFKA	509 DUQUE RD	LUTZ	FL	33549
16E17S12 14100 0080	SMITH LAWRENCE ALLEN	3191 SE 54TH CIR	OCALA	FL	34471
16E17S12 14110 0010	HILL BRUCE M & SONIA J	14932 69TH DR	NORTH PALM BEACH GARI	FL	33418
16E17S12 14110 0020	SCRIVNER BILLIE M	5106 W PLATT ST	TAMPA	FL	33609
16E17S12 14110 0030	NORRIS DAVID T & MICHELE B	914 S MAIN ST	HOPKINSVILLE	KY	42240
16E17S12 14110 0040	HAGAMAN FRANK ALLEN	899 DURROW DR	ST LOUIS	MO	63141
16E17S12 14110 0050	BARFIELD ANNA M	17611 53RD RD	MCALPIN	FL	32062
16E17S12 14110 0060	WHITE JAY	2305 FOXBORO WAY	TALLAHASSEE	FL	32309
16E17S12 14110 0070	DRAKE BONNIE J	12307 W EDWARDS CT	INGLIS	FL	34449
16E17S12 14110 0090	COLLINS EDWARD A JR	347 MORNING DEW LN	SENECA	SC	29678
16E17S12 14110 0100	SMITH KESS M & FRANCES G	PO BOX 35	HAWTHORNE	FL	32640
16E17S12 14433	VAUGHN RICHARD & MICHELLE	12481 W FOSS GROVES PATH	INGLIS	FL	34449
16E17S12 33300	FELBURN FOUNDATION THE ATTN MUTCH & BRIGHAM PA	2114 NW 40TH TER A 1	GAINESVILLE	FL	32605
16E17S12 34100	TIITF DEP GREENWAYS GREENWAYS ST REC AREA	C/O DEP 3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S12 41000 00A0	WILLIS EMIL N	12575 W FOSS GROVE PATH	INGLIS	FL	34449
16E17S12 41000 00B0	FUCHS JOHN L 3RD & SONDRA L TRUSTEES	12537 W FOSS GROVE PATH	INGLIS	FL	34449
16E17S12 44100	LEE MARIAN L & GARY A FADORSEN	PO BOX 895	INGLIS	FL	34449
16E17S12 44100 0010	LYON ROLF C	PO BOX 515	INGLIS	FL	34449
16E17S12 44110 00A0	HEINDEL CONNIE	3635 CATAWBA RD	BLACKSBURG	VA	24060
16E17S12 44110 00B0	PYROTECH INTERNATIONAL INC	PO BOX 76	HINCKLEY	OH	44233
16E17S16 14000	TIITF DEP GREENWAYS GREENWAYS ST REC AREA	C/O DEP 3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S16 90003	TIITF STATE OF FLA C/O DEP	3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S17 11110	CITRUS MINING & TIMBER INC	PO BOX 277	CRYSTAL RIVER	FL	34423
16E17S17 12000	TIITF DEP GREENWAYS GREENWAYS ST REC AREA	C/O DEP 3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S17 30000	TIITF DEPT ENV PROT DIV STATE LANDS	3900 COMMONWEALTH BLVD MS 115	TALLAHASSEE	FL	32399
16E17S18 20000	TIITF DEP GREENWAYS GREENWAYS ST REC AREA	C/O DEP 3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S20 90004	TIITF STATE OF FLA C/O DEP	3900 COMMONWEALTH BLVD	TALLAHASSEE	FL	32399
16E17S21 30000	HCR LIMESTONE INC ATTN HOLCIM TAX DEPARTMENT	201 JONES RD	WALTHAM	MA	2451
16E17S28 12000	CITY NATIONAL BANK OF FLORIDA TRUSTEE -- TRUST DEPT --	25 W FLAGLER ST STE 711	MIAMI	FL	33130
16E17S33 10000	FLORIDA POWER CORP ATTN TAX DEPT PEF 131	PO BOX 14042	SAINT PETERSBURG	FL	33733
16E17S33 11000	FLORIDA POWER CORP ATTN TAX DEPT PEF 131	PO BOX 14042	SAINT PETERSBURG	FL	33733
17E17S200230 01560 0080	LOUGHRIDGE THOMAS E & JOAN A	10668 N SUNFLOWER PT	CRYSTAL RIVER	FL	34428

Parcel ID	Owner Name	Mailing Address	City	State	Zip
17E17S200230 01560 0090	YOUNG J BRAD & ROSEMARY	10700 N SUNFLOWER PT	CRYSTAL RIVER	FL	34428
17E17S200230 01560 0100	WEIGLE JAMES J & SUSAN M	10661 N SUNFLOWER PT	CRYSTAL RIVER	FL	34428
17E17S200230 01630 0010	KJERA JOEL & IMOGENE CLARK	16019 CHASTAIN RD	ODESSA	FL	33556
17E17S200230 01630 0020	KREUSCH JOHN P & JENNIFER	12687 W DEODAR ST	CRYSTAL RIVER	FL	34428