PMLevyCOLNPEm Resource

From: Bruner, Douglas
Sent: Monday, February 28, 2011 9:54 AM
To: Masnik, Michael; Doub, Peyton; Stegen, Amanda; Baber, Daniel
Cc: Fetter, Allen; Schaaf, Robert; Scherpelz, Robert I; Miller, Beverly M; LevyCOL Resource
Subject: FW: Meeting with Progress Energy on Feb. 28th at 10am (UNCLASSIFIED)
Attachments: image001.gif; image002.png; image003.png; LevyUSFWSmeetingFeb28.pdf

FYI

From: Hambrick, Gordon A SAJ [mailto:Gordon.A.Hambrick@usace.army.mil]
Sent: Monday, February 28, 2011 9:38 AM
To: Bruner, Douglas
Subject: FW: Meeting with Progress Energy on Feb. 28th at 10am (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Doug: FYI, Don.

-----Original Message-----
From: Snead, Paul [mailto:paul.snead@pgnmail.com]
Sent: Saturday, February 26, 2011 8:05 PM
To: 'Annie_Dziergowski@fws.gov'
Cc: 'Mark Sramek'; Hambrick, Gordon A SAJ
Subject: Meeting with Progress Energy on Feb. 28th at 10am

Annie:

Attached is a copy of the presentation Progress Energy would like to use at our meeting on Monday. Please share it with anyone who you know will be calling in to the meeting. I've cc'd Mark Sramek and Don Hambrick on this e-mail per your e-mail below noting that they would be calling in.

See you on Monday.

Paul Snead
Supervisor

Environmental Services, Projects & Construction Progress Energy paul.snead@pgnmail.com <mailto:paul.snead@pgnmail.com>

(919) 546-2836

From: Annie_Dziergowski@fws.gov [mailto:Annie_Dziergowski@fws.gov]
Sent: Friday, February 25, 2011 10:38 AM

To: Snead, Paul
Cc: Dierolf, Amy C.; Bruzek, David A.; 'Karl_Bullock@golder.com'; Shelley.Norton@noaa.gov; Mark.Sramek@noaa.gov; Gordon.A.Hambrick@usace.army.mil; Alfredo_Begazo@fws.gov; Heath_Rauschenberger@fws.gov
Subject: Re: Meeting with Progress Energy on Feb. 28th at 10am

Thanks for sending the proposed agenda. Mark Sramek (NOAA) and Don Hambrick (COE) will be calling in for the meeting as well. The call in number is 877-817-0456, passcode 6129520, in case there is anyone else who needs to call. Look forward to working with all of you.

Thanks,
Ann <<image001.gif>> ie

****
Annie Dziergowski, Fish and Wildlife Biologist U.S. Fish and Wild <<image002.png>> life Service
Email: anni <<image003.png>> e_dziergowski@fws.gov
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Inactive hide details for "Snead, Paul" <paul.snead@pgnmail.com>"Snead, Paul" <paul.snead@pgnmail.com>

"Snead, Paul" <paul.snead@pgnmail.com>

02/22/2011 03:07 PM

To

"'Annie_Dziergowski@fws.gov'" <Annie_Dziergowski@fws.gov>

cc

"Dierolf, Amy C." <Amy.Dierolf@pgnmail.com>, "Bruzek, David A." <David.Bruzek@pgnmail.com>, "'Karl_Bullock@golder.com'" <Karl_Bullock@golder.com>

Subject

Meeting with Progress Energy on Feb. 28th at 10am

Annie:

Attached is a proposed agenda for our meeting on Monday.

We look forward to meeting with you.

Thanks,
Paul Snead
Supervisor
Environmental Services, Projects & Construction Progress Energy paul.snead@pgnmail.com <mailto:paul.snead@pgnmail.com>
(919) 546-2836

(See attached file: USFWSAgendaDraft.doc)

Classification: UNCLASSIFIED
Caveats: NONE

Hearing Identifier: Levy_County_COL_NonPublic
Email Number: 3671

Mail Envelope Properties (44CD2E65B0FF0E499CB32BC30CF781F04009DDA1A6)

Subject: FW: Meeting with Progress Energy on Feb. 28th at 10am (UNCLASSIFIED)
Sent Date: 2/28/2011 9:54:17 AM
Received Date: 2/28/2011 9:54:19 AM
From: Bruner, Douglas

Created By: Douglas.Bruner@nrc.gov

Recipients:
"Fetter, Allen" <Allen.Fetter@nrc.gov>
Tracking Status: None
"Schaaf, Robert" <Robert.Schaaf@nrc.gov>
Tracking Status: None
"Scherpelz, Robert I" <scherpelz@pnl.gov>
Tracking Status: None
"Miller, Beverly M" <Beverly.Miller@pnl.gov>
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"LevyCOL Resource" <LevyCOL.Resource@nrc.gov>
Tracking Status: None
"Masnik, Michael" <Michael.Masnik@nrc.gov>
Tracking Status: None
"Doub, Peyton" <Peyton.Doub@nrc.gov>
Tracking Status: None
"Stegen, Amanda" <Amanda.Stegen@pnl.gov>
Tracking Status: None
"Baber, Daniel" <DBaber@icfi.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
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image002.png	233	
image003.png	231	
LevyUSFWSmeetingFeb28.pdf	1254468	

Options
Priority: Standard
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Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

LNP Nuclear Plant Project

Meeting with USFWS

February 28, 2011

Progress Energy

Meeting Objective

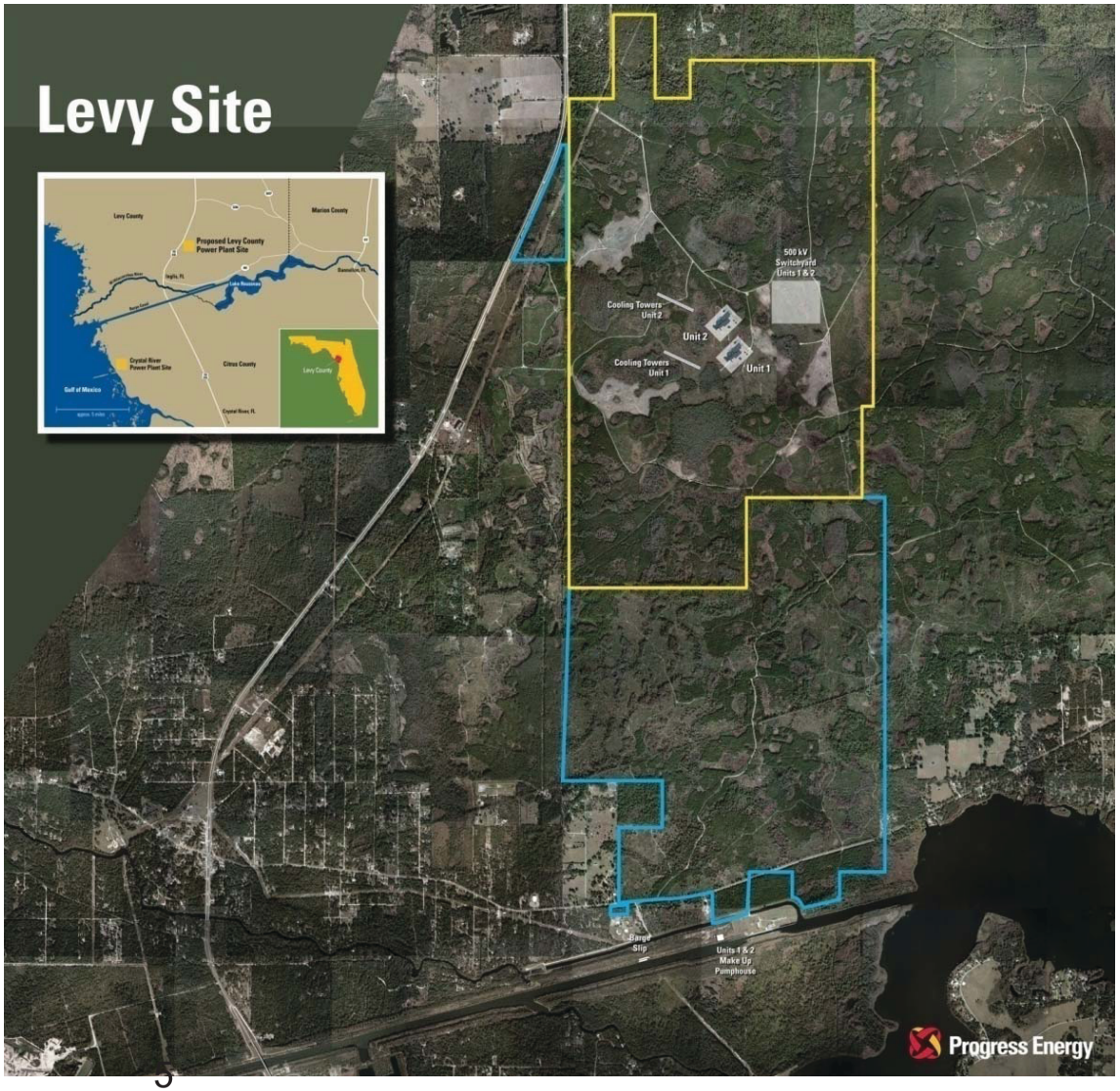
- Understand USFWS needs so that PEF can provide information needed to facilitate completion of the consultation process to allow finalization of the Levy Environmental Impact Statement.

Project Background

- Proposed 2 Westinghouse AP-1000 advanced nuclear power plants and support facilities
- Barge Slip on the Cross Florida Barge Canal
- Blow down Pipeline from Levy to CREC
- Approximately 180 miles of transmission lines
- Approximately 722 acres of project wetland impacts

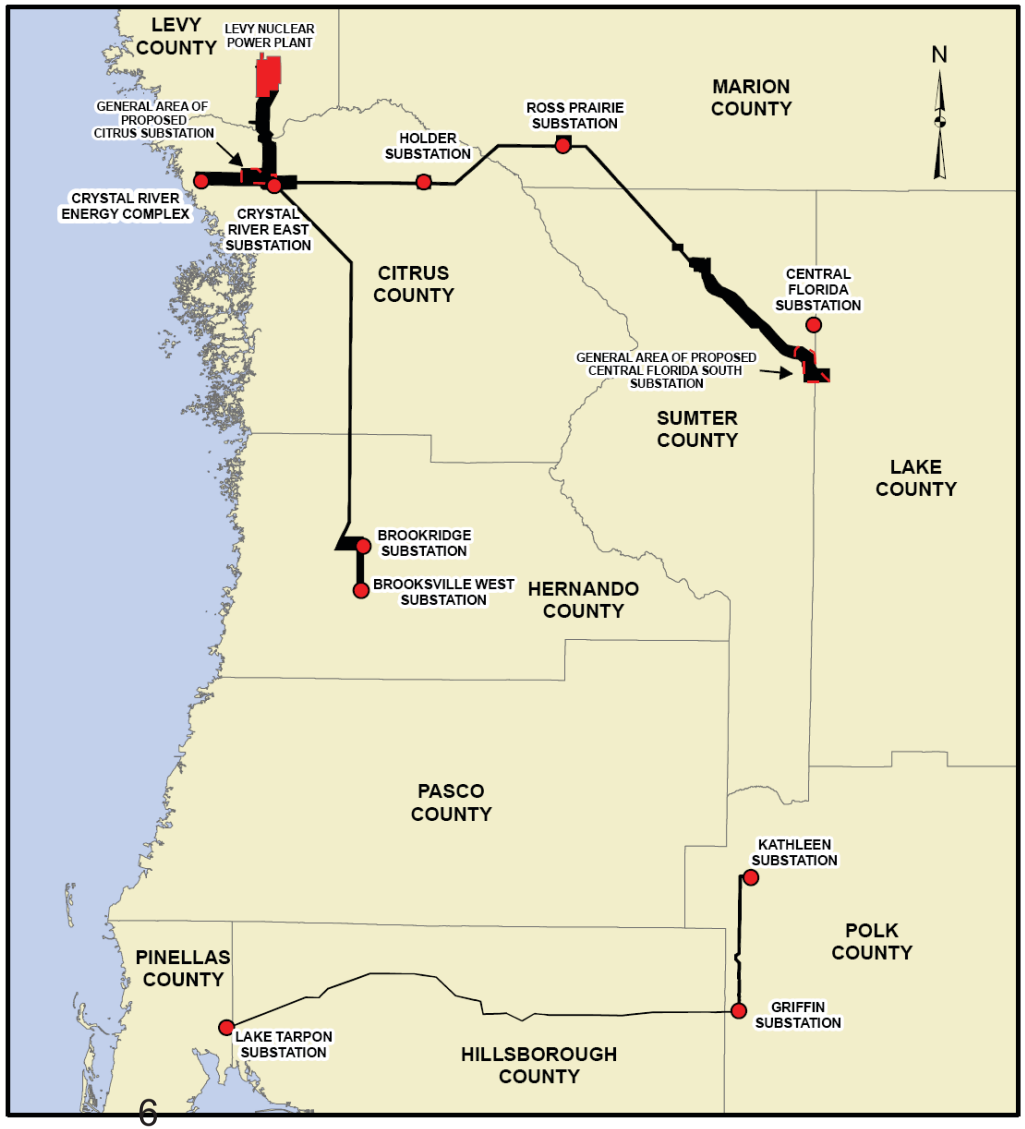
Project Background

Project Background



Progress Energy

Project Background



Proposed Transmission Lines

Facilities Include:

- Three new 500/230kV substations
- 91 miles of 500 kV lines
- 88 miles of 230 kV lines
- Upgrades to 5 transmission substations
- Two new distribution substations

Progress Energy

Regulatory Approvals

- State of Florida
  - Power Plant Site Certification – Issued August 2009
- Nuclear Regulatory Commission
  - Draft Environmental Impact Statement (DEIS) - Issued August 2010
  - Final Environmental Impact Statement (FEIS) – Scheduled April 2012
- US Army Corps of Engineers
  - Clean Water Act - Section 404 Permit

LNP Site Evaluation

- Evaluation began with review of high-resolution aerial imagery from several different years
- Review included GIS information on land use, soils, habitat connectivity, occurrence of listed species, and data from environmental resource agencies (e.g., Florida Natural Areas Inventory)
- Experienced ecologists have spent 100s of hours on the site, recording observations of vegetation, landforms, habitats, wildlife, water features, land use patterns, and relationships to adjacent lands
- Most of the site was historically pine flat wood uplands and depressional wetlands
- A small area of higher and drier (xeric) land lies at the extreme northern edge of the site
- Upland and wetland areas have been used for silviculture for over 100 years

LNP Site Listed Species

- The dense pine monoculture of the site, with harvesting before the trees become very large, nearly eliminates any potential for most listed wildlife to use the uplands
- Gopher tortoise burrows were seen in the drier area near the north edge of the property and the south edge of the property – consideration will be given to their presence in site planning and activities
- Wetlands may provide some foraging habitat for listed wading birds, but appropriate habitats are not present for significant nesting colonies to occur
- Alteration of the site for silviculture, and the dense pine canopy with little ground cover or understory, leave little opportunity for listed plant species to be present
- Active eagle nest on the property– avoidance during construction/operation

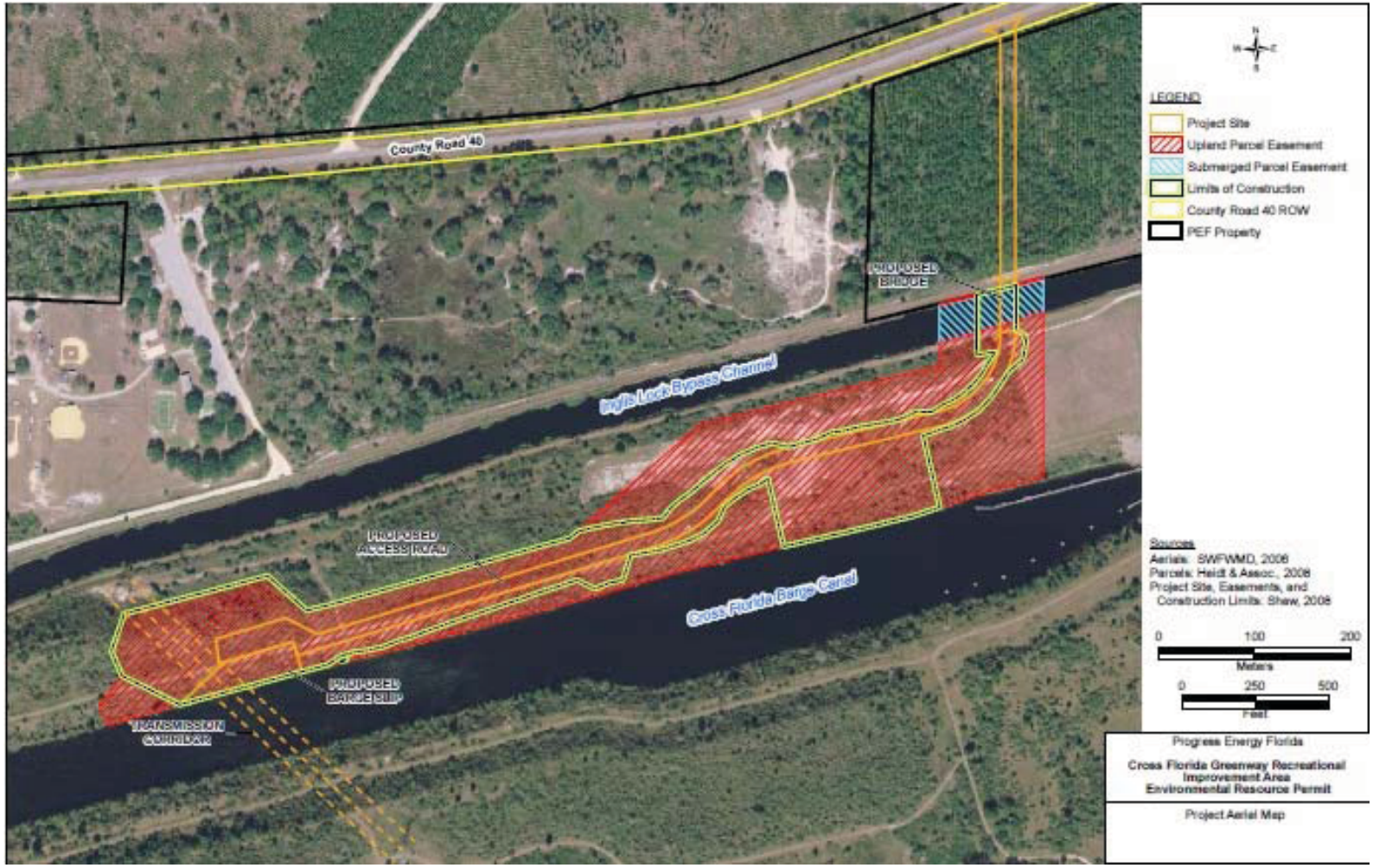
Closed Cycle Cooling

- The Levy Nuclear Plant proposes to have a makeup water intake structure on the Cross Florida Barge Canal and use salt water drawn up the canal from the Gulf of Mexico for the closed cycle mechanical draft cooling towers

- The cooling water intake structure will be designed to meet CWA 316(b) Phase I rules to minimize impingement and entrainment of aquatic organisms

- The blowdown from the cooling towers is proposed to be routed to the Gulf of Mexico via the discharge canal at the Crystal River Energy Complex

LNP Barge Slip



Progress Energy

Cross Florida Barge Canal looking West

Progress Energy

LNP Site Conditions

- Uplands
  - Dominated by densely planted pines, and areas where recent harvesting has left little or no vegetation.
  - Much of the site has been bedded - altering the terrain (microtopography) and soil profile of those areas
- Wetlands
  - Forested and non-forested wetlands are present
  - Most forested systems were historically cypress swamps – most have been logged, and portions have become dominated by other trees
  - Non-forested wetlands have been altered by the change in the adjacent uplands
  - Silviculture has degraded onsite wetlands through logging, bedding, fire suppression, road construction, and planting
- Wildlife Habitat
  - In spite of its size and rural setting, the active silviculture operation on the site has dramatically diminished the potential its historic biodiversity to be expressed
  - Parts of the site are suitable for some common bird, mammal and reptile species, but most species with specialized habitat requirements have little or no opportunity to use the site

LNP Site Listed Species

Terrestrial

- Florida Scrub Jay (LT)
- Wood Stork (LE)
- Red-cockaded Woodpecker (LE)
- Eastern Indigo Snake (LT)

Aquatic

- West Indian Manatee (LE)
- Gulf Sturgeon (LT)
- Smalltooth Sawfish (LE)
- Green Sea Turtle (LE)
- Leatherback Sea Turtle (LE)
- Loggerhead Sea Turtle (LT)
- Kemps Ridley Sea Turtle (LE)

Plants

- None

- Per the USFWS county listing

LNP Site Listed Species Conditions of Certification

- Includes the blow down pipeline and barge slip
- Negotiated with state agencies based on knowledge of site and local agency biologists knowledge
  - Includes:
    - Specific Species Surveys
    - If impacts cannot be avoided, appropriate permits and mitigation needed
    - Preparation of an Avian Protection Plan for plant site
    - Florida Manatee Conditions
      - Standard Manatee Conditions for In-Water Work (revision 2005)
      - Prior to inwater work FWC will be consulted to determine if manatee observers will be required during construction
      - Review of Cooling Water Intake Structure Final Design including review of vertical bar screens and trash rack/rake

LNP Site Listed Species Conditions of Certification

General Listed Species Surveys

1. Obtain and follow the current survey protocols, develop survey plan in consultation with FWC.
2. Surveys will be conducted prior to clearing and construction. Survey results provided to FWC. Coordination on appropriate impact mitigation methodologies if impacts cannot be avoided.

- Gopher frog
- **Eastern indigo snake**
- Florida pine snake
- Short-tailed snake
- Gopher tortoise
- **Florida scrub jay**
- Little blue heron
- White ibis
- Southeastern American kestrel
- Florida sandhill crane
- Bald Eagle
- **Red-cockaded woodpecker**
- **Snail kite**
- Florida mouse
- Sherman's fox squirrel
- Florida black bear
- **Florida manatee**

Federally listed species in bold

Transmission Corridor Selection Process

- Establish and Define the Project Study Area
- Regional Screening and Mapping
  - Including review of listed species and their habitats
- Selection and Evaluation of Candidate Corridors
  - Quantitative Evaluation
  - Detailed Evaluation (quantitative and qualitative considerations)
- Selection of the Preferred Corridor
- Refinement of the Preferred Corridor

Same process was followed in selecting the preferred rights of way

Majority of transmission lines are adjacent or within existing rights of way

Progress Energy

LNP Transmission Line Listed Species Conditions of Certification

- State licensing process under the Power Plant Siting Act included requirements for listed species surveys
- Negotiated with state agencies based on knowledge of corridor area and local FWC biologists knowledge
  - Includes
    - Specific Species Surveys
    - If impacts cannot be avoided, appropriate permits and mitigation needed
    - Preparation of an Avian Protection Plan for transmission lines

LNP Transmission Line Listed Species Conditions of Certification

General Listed Species Surveys

1. Obtain and follow the current survey protocols, develop survey plan in consultation with FWC.
2. Surveys will be conducted prior to clearing and construction. Survey results provided to FWC. Coordination on appropriate impact mitigation methodologies if impacts cannot be avoided.

- Gopher frog
- **Eastern indigo snake**
- Florida pine snake
- Short-tailed snake
- Gopher tortoise
- **Florida scrub jay**
- Little blue heron
- White ibis
- Southeastern American kestrel
- Florida sandhill crane
- **Whooping crane**
- Bald Eagle
- **Red-cockaded woodpecker**
- **Snail kite**
- Florida mouse
- Sherman's fox squirrel
- Florida black bear

Federally listed species in bold

Progress Energy

Transmission Line Activities

- Selection of Preferred Right of Way
- Much narrower than the certified corridors
  - Levy Common Corridor (Between LNP and Citrus Substation) – New Right of Way
    - Levy-Citrus (2 Lines)
    - Levy-Central Florida South
    - Levy-CREC
    - South Admin Substation line from Cross Florida Barge Canal to Substation on LNP site
  - Levy-Central Florida South
    - From Citrus-SR200 - Co-located within existing unimproved ROW
    - From SR200-Florida Turnpike – co-located with existing transmission line in new ROW
    - From Florida Turnpike to CFS – co-located with Florida Turnpike in new ROW
  - Citrus-Brookridge
    - Rebuild in existing transmission line ROW
  - Brookridge-Brooksville West
    - Rebuild in existing transmission line ROW
  - Polk-Hillsborough-Pinellas
    - Rebuild in existing transmission line ROW except for short distance at Lake Tarpon Substation

Transmission Line Activities

- Field Delineations of Jurisdictional Wetlands
- Field Review and Update of Land Use/Land Cover
- Pedestrian Surveys of Preferred ROW's for Listed Species
- Developed Tables of Habitats within Preferred ROW

Transmission Consolidated USFWS Listed Species List

Animals

- Florida grasshopper sparrow
- Florida scrub-jay
- Ivory-billed woodpecker
- *Audubon's crested caracara*
- Piping plover
- Wood stork
- Red-cockaded woodpecker
- Everglade snail kite
- Florida salt marsh vole
- Florida panther
- West Indian manatee
- American alligator
- Loggerhead sea turtle
- Green sea turtle
- Leatherback sea turtle
- Eastern indigo snake
- Bluetail mole skink
- Kemp's ridley sea turtle
- Sand skink
- Gulf sturgeon

Plants

- Florida bonamia
- Brooksville bellflower
- Pygmy fringe-tree
- Florida golden aster
- Pigeon wings
- Short-leaved rosemary
- Avon Park harebells
- Scrub mint
- Longspurred mint
- Scrub buckwheat
- Highlands scrub hypericum
- Cooley's water-willow
- Florida blazing star
- Scrub lupine
- Britton's beargrass
- Papery whitlow-wort
- Lewton's polygala
- Wireweed
- Sandlace
- Scrub plum
- Wide-leaf warea
- Carter's mustard
- Florida ziziphus

Per the USFWS County Listings

Progress Energy