

Table 9-A2.3-1
Features Included on Regional Screening Maps
500-kV LCR Corridor

Feature	Description
Residences	Identification of existing residential areas within the study area based on the FLUCCS 110-139 class definition areas and Land Use/Land Cover maps
Major Developments	Identification of approved Developments of Regional Impact within the study area
Existing PEF Transmission Lines	Identification of existing PEF transmission lines within the study area
Other Existing Linear Facilities	Identification of other existing linear facilities (existing and committed major public roads and existing railroads) within the study area
Conservation Lands and Parks	Identification of conservation lands and parks using federal, state, and local government data sources and available online data) in the study area
Wetlands	Identification of wetlands within the study area using the FLUCCS Land Use/Land Cover 600-654 class definition areas
National Register of Historic Places	Identification of NRHP sites within the study area
Threatened and Endangered Species	Identification of the location of threatened and endangered species within the study area based on the FNAI database
Airports	Identification of any licensed public or private airports and heliports registered with FAA and/or FDOT within the study area
Agriculture and Rangelands	Identification of agriculture and rangelands within the study area using will be identified through the FLUCCS Land Use/Land Cover 200-330 class definitions.

Notes:

PEF	Progress Energy Florida
FLUCCS	Florida Land Use Cover and Forms Classification System
GIS	Geographic Information Systems
FNAI	Florida Natural Areas Inventory
FAA	Federal Aviation Administration
FDOT	Florida Department of Transportation
NRHP	National Register of Historic Places

**Table 9-A2.3-2
Quantitative Evaluation Criteria
500-kV LCR Corridor**

Criterion	Description
Airports	A count of each airport within the corridor segment and within 20,000 feet of the corridor segment centerline ¹ and a count of each heliport within the corridor segment and within 5000 feet of the corridor segment
Archaeological Resources	A count of archaeological resource site locations within or in close proximity to the corridor segment ²
Commercial and Services Land Uses	Commercial and services land uses identified by the 140-149 FLUCCS (except 148 class definition) class definition series from the FLUCCS Land Use/Land Cover maps.
Community Facilities	A count of community facilities within the corridor segment ³
Conservation Lands and Parks	Area of conservation lands and parks within the corridor segment
Cost	The U.S. dollar amount estimated to construct the proposed transmission line within the corridor segment
Eagle Nests	A count of eagle nest locations within the corridor segment and within 1500 feet of the corridor segment centerline
Existing PEF Transmission Lines	Length of the corridor segment within or in close proximity to an existing PEF transmission line
Flood Plain	Area of a 100-year flood plain within the corridor segment
Forested Wetlands	Area of forested wetland areas within the corridor segment
Future Residential Land Use	Area of local government comprehensive plan adopted future land use map designated as residential within the corridor segment.
Herbaceous Wetlands	Area of herbaceous wetland areas within the corridor segment
Historic Resources	A count of historic resource site locations within the corridor segment ⁴
Industrial and Extractive Land Uses	Industrial and extractive land uses identified by the 150-166 FLUCCS class definition series from the FLUCCS Land Use/Land Cover maps.
Other Existing Linear Facilities	Length of existing and committed major public roads and existing railroads within the corridor segment
Parcels	A count of parcels within the corridor segment
Residences	A count of residences within the corridor segment
Schools	A count of existing and proposed public and existing private schools within the corridor segment ⁵
Threatened and Endangered Species	A count of protected species (flora and fauna) locations within the corridor segment (not including eagle nests)
Upland Forests	Area of upland forested areas within the corridor segment

¹ Airports are measured from the closest runway. Airports and heliports are identified by FAA and/or FDOT.

² Archaeological resource sites were approximated by adding a 500-foot radius to the resource site locations.

³ Community facility sites were approximated by adding a 100-foot radius to each community facility location.

⁴ Historic resource sites were approximated by adding a 500-foot radius to the resource site locations.

⁵ Existing schools were measured from school parcel boundaries; proposed school sites were approximated by adding a 500-foot radius to school locations.

Table 9-A2.3-3
Highest-Ranking Candidate Corridors
500-kV LCR Corridor

Rank	Candidate Corridor	Corridor Segments	Total Score
1	1438	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S14+S381+S353+S327+S354	15.6
2	1166	S19+S18+S17+S360+S15+S368+S24+S374+S343+S344+S346+S348+S349+S350+S353+S327+S354	16.4
3	3427	S19+S18+S17+S360+S15+S368+S24+S375+S378+S376+S346+S348+S349+S350+S353+S327+S354	16.6
4	1527	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S14+S381+S351+S355+S356+S359	17.2
5	1717	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S14+S381+S351+S355+S357+S359	17.2
6	403	S19+S18+S17+S360+S15+S368+S24+S374+S343+S344+S346+S348+S349+S350+S351+S352+S354	17.2
7	2968	S19+S18+S17+S360+S15+S368+S24+S375+S378+S376+S346+S348+S349+S350+S351+S352+S354	17.4
8	228	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S350+S353+S327+S354	18.1
9	307	S19+S18+S17+S360+S15+S368+S342+S379+S374+S343+S344+S346+S348+S349+S350+S353+S327+S354	18.2
10	2721	S19+S18+S17+S360+S15+S368+S342+S369+S377+S378+S376+S346+S348+S349+S350+S353+S327+S354	18.4
11	1285	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S14+S6+S5+S383+S55+S327+S354	18.4
12	409	S19+S18+S17+S360+S15+S368+S342+S379+S375+S378+S376+S346+S348+S349+S350+S353+S327+S354	18.4
13	1208	S71+S73+S23+S2+S9+S16+S349+S14+S56+S381+S353+S327+S354	18.5
14	1183	S71+S73+S23+S22+S74+S16+S349+S14+S56+S381+S353+S327+S354	18.5
15	100	S19+S18+S17+S360+S15+S371+S373+S379+S374+S343+S344+S346+S348+S349+S350+S353+S327+S354	18.5
16	334	S19+S18+S17+S360+S15+S371+S373+S369+S377+S378+S376+S346+S348+S349+S350+S353+S327+S354	18.7
17	3506	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S350+S351+S352+S354	18.8
18	730	S19+S18+S17+S360+S15+S368+S24+S375+S378+S376+S344+S117+S349+S350+S353+S327+S354	18.9
19	1929	S19+S18+S17+S360+S15+S368+S342+S379+S374+S343+S344+S346+S348+S349+S350+S351+S352+S354	18.9
20	1845	S71+S73+S23+S2+S9+S16+S349+S14+S381+S351+S355+S357+S359	19.0
21	2476	S71+S73+S23+S22+S74+S16+S349+S14+S381+S351+S355+S356+S359	19.0
22	873	S71+S73+S23+S22+S74+S16+S349+S14+S381+S351+S355+S357+S359	19.0
23	1262	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S14+S381+S351+S352+S354	19.1
24	1225	S19+S18+S17+S360+S15+S368+S342+S369+S377+S378+S376+S346+S348+S349+S350+S351+S352+S354	19.1
25	1464	S71+S73+S23+S22+S75+S53+S21+S57+S77+S383+S55+S327+S354	19.1

Note: The shading in Table 9-A2.3-3 indicates the highest-ranking candidate corridors included in the LCR Corridor. Candidate Corridor segments that are in bold font are those that are included in the LCR Corridor.

Table 9-A2.3-3
Highest-Ranking Candidate Corridors
500-kV LCR Corridor

Rank	Candidate Corridor	Corridor Segments	Total Score
26	391	S19+S18+S17+S360+S15+S371+S372+S377+S378+S376+S346+S348+S349+S350+S 353+S327+S354	19.1
27	3472	S19+S18+S17+S360+S15+S368+S342+S379+S375+S378+S376+S346+S348+S349+S350+S351+S 352+S354	19.1
28	1859	S19+S18+S17+S360+S15+S371+S373+S379+S374+S343+S344+S346+S348+S349+S350+S351+S 352+S354	19.3
29	690	S71+S73+S 23+S2+S9+S54+S53+S21+S56 +S381+S 353+S327+S354	19.3
30	1861	S71+S73+S 23+S22+S74+S54+S53+S21+S56 +S381+S 353+S327+S354	19.3
31	2609	S19+S18+S17+S360+S15+S371+S373+S369+S377+S378+S376+S346+S348+S349+S350+S351+S 352+S354	19.4
32	597	S19+S18+S17+S360+S15+S368+S24+S375+S378+S376+S344+S117+S349+S350+S351+S 352+S354	19.6
33	891	S71+S73+S 23+S2+S9+S74+S75+S53+S21+S56 +S381+S 353+S327+S354	19.7
34	427	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S14+S 56+S57+S77+S383+S55+S327+S354	19.7
35	3364	S19+S18+S17+S360+S15+S371+S372+S377+S378+S376+S346+S348+S349+S350+S351+S 352+S354	19.9
36	1549	S19+S18+S17+S360+S15+S368+S342+S379+S374+S343+S117+S349+S350+S 353+S327+S354	19.9
37	1947	S71+S73+S23+S22+S75+S53+S21+S56+S6+S5+S383+S55+S327+S354	19.9
38	1233	S71+S73+S 23+S22+S74 +S16+S349+S350+S 353+S327+S354	20.0
39	2306	S71+S73+S23+S22+S75+S53+S21+S76+S382+S55+S327+S354	20.0
40	2176	S71+S73+S 23+S2+S9 +S16+S349+S14+S6+S 5+S383+S55+S327+S354	20.2
41	66	S19+S18+S17+S360+S15+S371+S373+S379+S374+S343+S117+S349+S350+S 353+S327+S354	20.2
42	2608	S71+S73+S 23+S22+S74 +S16+S349+S14+S6+S 5+S383+S55+S327+S354	20.3
43	2242	S19+S18+S17+S360+S15+S368+S342+S369+S377+S378+S376+S344+S117+S349+S350+S 353+S327+S354	20.6
44	2784	S19+S18+S17+S360+S15+S368+S342+S379+S374+S343+S117+S349+S350+S351+S 352+S354	20.6
45	1838	S19+S18+S17+S360+S15+S368+S24+S374+S343+S117+S349+S14+S 56+S76+S382+S55+S327+S354	20.6
46	1761	S19+S18+S17+S360+S15+S368+S342+S379+S375+S378+S376+S344+S117+S349+S350+S 353+S327+S354	20.6
47	1531	S71+S73+S 23+S22+S74 +S16+S349+S350+S351+S 352+S354	20.7
48	936	S19+S18+S17+S13+S374+S343+S344+S346+S348+S349+S350+S 353+S327+S354	20.7
49	1207	S71+S73+S 23+S2+S9+S54+S53+S21+S56 +S381+S351+S355+S356+S 359	20.8
50	2698	S71+S73+S 23+S2+S9+S54+S53+S21+S56 +S381+S351+S355+S 357+S359	20.8

Note: The shading in Table 9-A2.3-3 indicates the highest-ranking candidate corridors included in the LCR Corridor. Candidate Corridor segments that are in bold font are those that are included in the LCR Corridor.

Table 9-A2.3-4
Quantitative Considerations of the Four LNP 500-kV Transmission Lines
In a Single Alignment (Levy/Citrus Common Corridor) or in Multiple Alignments¹

Direction Exiting the LNP			Quantitative Assessment of Specific Criteria						
			Homes	Parcels	T&E Species	Upland Forest	Wetland Forest	Wetland Non-Forest	Conservation and Parks
Multiple Alignments	SOUTH	South ² in the Common Corridor and continue south to the 500/230-kV TL	57	584	1	579 ac	380 ac	187 ac	730 ac
	EAST	East past the Dunnellon Airport then south to the 500/230-kV TL ³	477	1212	4	2090 ac	875 ac	389 ac	3529 ac
	WEST #1	South in the Common Corridor to Barge Canal, west to US 19 area and then south to the 500/230-kV TL ⁴	77	421	2	634 ac	360 ac	167 ac	1004 ac
	WEST #2	West to US 19 area and then south to the 500/230-kV TL ⁵	282	990	2	835 ac	492 ac	114 ac	167 ac
Combined Alignments	SOUTH + EAST + WEST #1+WEST#2		893	3207	9	4138 ac	2108 ac	858 ac	5430 ac
	SOUTH + EAST + WEST #1		611	2217	7	3303 ac	1616 ac	743 ac	5263 ac
	SOUTH + EAST + WEST #2		816	2786	7	3504 ac	1747 ac	691 ac	4426 ac
Four LNP 500-kV Transmission Lines in a Single Alignment - SOUTH Only LEVY/CITRUS COMMON CORRIDOR			57	581	1	579 ac	380 ac	187 ac	730 ac

¹ These candidate corridor alternatives all connect the LNP to the closest existing PEF major transmission line right-of-way, the existing PEF 500/230-kV transmission line right-of-way originating at the CREC. All candidate corridors are one-half mile wide.

² **SOUTH** Segment numbers: S71+S73+S23+S22+S75+S53+S21+S57+S77

⁴ **WEST #1** Segment numbers: S71+S73+S23+S22+S74+S16+S349+S14+S6+S5

³ **EAST** Segment numbers: S71+S52+S72+S41+S42+S65+S147+S104

⁵ **WEST #2** Segment numbers: S19+S18+S360+S15+S368+S24+S374+S343+S117+S349+S14+S381+S353

Table 9-A2.3-5
Easement, Title, and Crossing Approvals Anticipated to
Be Required for Transmission Line Construction
500-kV LCR Corridor

ROADS		
Levy County	Affected Agency	Type of Approval
81ST TER	Levy County	Department of Public Works Review
CR 40	Levy County	Department of Public Works Review

Table 9-A2.3-5
Easement, Title, and Crossing Approvals Anticipated to
Be Required for Transmission Line Construction
500-kV LCR Corridor

ROADS		
Citrus County	Affected Agency	Type of Approval
CR 488 (West Dunnellon RD)	Citrus County	Right-of-Way Utilization
N BAMBOO TER	Citrus County	Right-of-Way Utilization
N BASSWOOD AVE	Citrus County	Right-of-Way Utilization
N BEAD TREE PT	Citrus County	Right-of-Way Utilization
N BEECHTREE WAY	Citrus County	Right-of-Way Utilization
N BIRDSEYE CT	Citrus County	Right-of-Way Utilization
N BITTERROOT DR	Citrus County	Right-of-Way Utilization
N BLACK CHERRY TER	Citrus County	Right-of-Way Utilization
N BLACK OAK WAY	Citrus County	Right-of-Way Utilization
N BLACKTHORN AVE	Citrus County	Right-of-Way Utilization
N BLUE SPRUCE TER	Citrus County	Right-of-Way Utilization
N BONSAI AVE	Citrus County	Right-of-Way Utilization
N BOXTHORN TER	Citrus County	Right-of-Way Utilization
N BRIARPATCH AVE	Citrus County	Right-of-Way Utilization
N BROMELIAD TER	Citrus County	Right-of-Way Utilization
N BULL TOWNSEND PT	Citrus County	Right-of-Way Utilization
N CAVEWOOD AVE	Citrus County	Right-of-Way Utilization
N CHABAUD TER	Citrus County	Right-of-Way Utilization
N CORK FIR TER	Citrus County	Right-of-Way Utilization
N DAWNFLOWER AVE	Citrus County	Right-of-Way Utilization
N DAYLILY TER	Citrus County	Right-of-Way Utilization
N ELMTREE AVE	Citrus County	Right-of-Way Utilization
N FLAME VINE WAY	Citrus County	Right-of-Way Utilization
N FORSYTHIA WAY	Citrus County	Right-of-Way Utilization
N GALLERY LN	Citrus County	Right-of-Way Utilization
N GOLDENBELL WAY	Citrus County	Right-of-Way Utilization
N KIDARE TER	Citrus County	Right-of-Way Utilization
N MAPLE AVE	Citrus County	Right-of-Way Utilization
N MONAGHAN TER	Citrus County	Right-of-Way Utilization
N ODYSSEY DR	Citrus County	Right-of-Way Utilization
N SHANNON AVE	Citrus County	Right-of-Way Utilization
N STAR BLAZE DR	Citrus County	Right-of-Way Utilization
N TALLAHASSEE RD	Citrus County	Right-of-Way Utilization
US 19 (SR 55)	FDOT (District 7)	Utility
W ACACIA DR	Citrus County	Right-of-Way Utilization
W AMARYLLIS LN	Citrus County	Right-of-Way Utilization
W AMUR MAPLE PL	Citrus County	Right-of-Way Utilization

Table 9-A2.3-5
Easement, Title, and Crossing Approvals Anticipated to
Be Required for Transmission Line Construction
500-kV LCR Corridor

GOVERNMENTAL JURISDICTIONS		
Public Lands	Affected Agency	Type of Approval
Cross Florida Greenway	FDEP	Easement
Withlacoochee River	ACOE and FDEP	Section 10 Permit and Consent of Use
Crystal River State Park Preserve	FDEP	Easement
Buddy Risher Sports Complex	Levy County	Easement
Cross Florida Barge Canal	ACOE and FDEP	Section 10 Permit and Consent of Use

Table 9-A2.3-6
Land Use and Habitats
500-kV LCR Corridor

FLUCCS Code	Description	Acreage
<u>LAND USE</u>		
110	Residential, Low Density	709.87
150	Industrial	3.76
160	Extractive	182.99
170	Institutional	10.46
180	Recreational	37.31
810	Transportation	36.06
814	Roads and Highways	8.34
830	Utilities	835.80
TOTAL ACREAGE		1,824.58
<u>UPLAND HABITATS</u>		
190	Open Land	160.14
211	Improved Pastures	498.67
260	Other Open Lands (Rural)	154.90
320	Shrub and Brushland	46.54
411	Pine Flatwoods	39.94
412	Longleaf Pine-Xeric Oak	146.15
421	Xeric Oak	6.75
434	Hardwood-Conifer Mixed	1,406.30
441	Coniferous Plantations	1,880.86
740	Disturbed Lands	11.66
TOTAL ACREAGE		4,351.91
<u>AQUATIC HABITATS</u>		
510	Streams and Waterways	64.03
520	Lakes	10.97
530	Reservoirs	33.27
540	Bays and Estuaries	0.84
TOTAL ACREAGE		109.11
<u>WETLAND HABITATS</u>		
615	Stream and Lake Swamps (Bottomland)	75.84
621	Cypress	171.67
630	Wetland Forested Mixed	429.87
641	Freshwater Marshes	328.51
642	Saltwater Marshes	6.55
643	Wet Prairies	6.11
653	Intermittent Ponds	9.91
TOTAL ACREAGE		1,028.46
TOTAL ACREAGE IN THE 500-kV LCR CORRIDOR		7,314.07

Table 9-A2.3-7
Important Plant Species Reported in Levy and Citrus Counties That Can Reasonably Be Expected to Occur
500-kV LCR Corridor

Scientific Name	Common Name	Status				Probability of Occurrence in 500-kV LCR Corridor and Typical Habitat
		Federal	State			
<i>Adiantum tenerum</i>	Brittle Maidenhair Fern	N	E	Low		Limestone outcrops, grottoes, sinkholes
<i>Agrimonia incisa</i>	Incised Groove-bur	N	E	High		Sandhills and scrub
<i>Arnoglossum diversifolium</i>	Variable-leaved Indian-plantain	N	T	High		Freshwater and riparian habitats
<i>Asplenium pumilum</i>	Dwarf Spleenwort	N	E	Low		Pinelands
<i>Asplenium verecundum</i>	Modest Spleenwort	N	E	Low		Rockland hammocks, limestone outcrops, grottoes, sinkholes
<i>Blechnum occidentale</i>	Sinkhole Fern	N	E	Moderate		Moist woodlands, hammocks, rocky creek banks, woodlands with open shade
<i>Carex chapmanii</i>	Chapman's Sedge	N	E	Low		Grasslands, pinelands
<i>Centrosema arenicola</i>	Sand Butterfly Pea	N	E	High		Sandhill, scrubby flatwoods, dry upland woods
<i>Cheilanthes microphylla</i>	Southern Lip Fern	N	E	Moderate		Coastal habitats
<i>Drosera intermedia</i>	Spoon-leaved Sundew	N	T	High		Freshwater habitats
<i>Euphorbia commutata</i>	Wood Spurge	N	E	High		Riparian habitats
<i>Forestiera godfreyi</i>	Godfrey's Swampprivet	N	E	Moderate		Upland hardwood forests with limestone at or near the surface, often on slopes above lakes and rivers
<i>Glandularia maritima</i>	Coastal Vervain	N	E	Low		Back dunes, dune swales, coastal hammocks
<i>Glandularia tampensis</i>	Tampa Vervain	N	E	Low		Live oak–cabbage palm hammocks and pine-palmetto flatwoods
<i>Hasteola robertorum</i>	Florida Hasteola	N	E	High		Saturated, peaty soils of river and creek floodplain swamps; hydric hammocks with cabbage palm, cypress, or hardwood canopy
<i>Leitneria floridana</i>	Corkwood	N	T	High		Edges of marshy openings and along small drainages in coastal hydric hammocks; fresh or tidal marshes
<i>Matelea floridana</i>	Florida Spiny-pod	N	E	Moderate		Pinelands, temperate forests
<i>Monotropis reynoldsiae</i>	Pygmy Pipes	N	E	High		Upland mixed hardwood forest, mesic and xeric hammock, sand pine and oak scrub
<i>Pecluma ptilodon</i>	Swamp Plume Polypody	N	E	High		Rockland hammocks, strand swamps, wet woods
<i>Peperomia humilis</i>	Terrestrial Peperomia	N	E	High		Shell mounds and limestone outcrops in mesic hammocks, coastal berms, cypress swamps
<i>Phyllanthus leibmannianus</i> ssp. <i>platylepis</i>	Pinewood Dainties	N	E	High		Hydric hammocks, floodplain and bottomland forests
<i>Pteroglossaspis ecristata</i>	Giant Orchid	N	T	High		Sandhill, scrub, pine flatwoods, pine rocklands
<i>Rudbeckia triloba</i> var. <i>pinnatiloba</i>	Pinnate-lobed Coneflower	N	E	High		Freshwater habitats, grasslands, pinelands
<i>Spigelia loganioides</i>	Pinkroot	N	E	High		Floodplain forests, upland and hydric hardwood hammocks over limestone
<i>Spiranthes polyantha</i>	Green Ladies'-tresses	N	E	Low		Rock outcrops in mesic hammock, rockland hammock, maritime hammock
<i>Stylisma abdita</i>	Scrub Stylisma	N	E	High		Pinelands, sandhills, scrub
<i>Thelypteris reptans</i>	Creeping Maiden Fern	N	E	Low		Limestone grottoes and sinkholes
<i>Triphora craigheadii</i>	Craighead's Nodding-caps	N	E	Moderate		Mesic hardwood hammocks

Notes:	Source:
N = Not Listed	FNAI, FNAI Search, 2001
T = Threatened	FNAI, FNAI Tracking List, 2008
E = Endangered	SERPIN, 2008

Table 9-A2.3-8
Important Wildlife Species Reported in Levy and Citrus Counties That Can Reasonably Be Expected to Occur
500-kV LCR Corridor

Scientific Name	Common Name	Status			Probability of Occurrence in 500-kV LCR Corridor and Typical Habitat	
		Federal	State	F.A.C. Rule 39-1		
FISH						
<i>Acantharchus pomotis</i>	Mud Sunfish	N	N	Game	High	Vegetated sloughs, lakes, and pools and backwaters of creeks and small to medium rivers
<i>Ambloplites ariommus</i>	Shadow Bass	N	N	Game	High	Brushy and vegetated, gravel-bottomed, sand-bottomed and mud-bottomed pools of creeks and small to medium rivers
<i>Centrarchus macropterus</i>	Flier	N	N	Game	High	Swamps, vegetated lakes, ponds, sloughs and backwaters and pools of creeks and small rivers
<i>Cichla ocellaris</i>	Peacock Bass	N	N	Game	Low	In rapids and quiet waters with medium depth and rocky substrates
<i>Lepomis auritus</i>	Redbreast Sunfish	N	N	Game	High	Rocky and sandy pools of creeks and small to medium rivers; rocky and vegetated lake margins
<i>Lepomis gulosus</i>	Warmouth	N	N	Game	High	Vegetated lakes, ponds, swamps, quiet water areas of streams
<i>Lepomis macrochirus</i>	Bluegill	N	N	Game	High	Lakes, ponds, reservoirs and sluggish streams
<i>Lepomis megalotis</i>	Longear Sunfish	N	N	Game	High	Dense vegetation in small lakes, ponds and slow moving rivers and streams
<i>Lepomis microlophus</i>	Redear Sunfish	N	N	Game	High	Ponds, swamps, lakes, small to medium rivers
<i>Lepomis punctatus</i>	Spotted Sunfish	N	N	Game	High	Heavily vegetated ponds, lakes, pools of creeks and small to medium rivers, and swamps
<i>Micropterus salmoides floridanus</i>	Black Bass	N	N	Game	High	Clear non-flowing waters of upper estuaries, rivers, lakes, reservoirs, and ponds
<i>Morone chrysops</i>	White Bass	N	N	Game	High	Lakes, ponds and pools of small to large rivers
<i>Morone chrysops x Morone saxatilis</i>	Sunshine Bass	N	N	Game	High	Lakes, ponds and pools of small to large rivers
<i>Morone saxatilis</i>	Striped Bass	N	N	Game	High	Rivers
<i>Pomoxis nigromaculatus</i>	Black Crappie	N	N	Game	High	Lakes, ponds, sloughs, and backwaters and pools of streams
AMPHIBIANS						
<i>Rana capito</i>	Gopher Frog	N	SSC	N	High	Sandhill and scrub with isolated wetlands or large ponds; commensal with gopher tortoises
REPTILES						
<i>Alligator mississippiensis</i>	American Alligator	T (SA)	SSC	N	High	Most permanent bodies of fresh water, including marshes, swamps, lakes, and rivers
<i>Caretta caretta</i>	Loggerhead	T	T	N	Low	Marine coastal and oceanic waters; juveniles frequent coastal bays, inlets, and lagoons
<i>Chelonia mydas</i>	Green Turtle	E	E	N	Low	Estuarine and marine coastal and oceanic waters; juveniles frequent coastal bays, inlets, lagoons
<i>Drymarchon couperi</i>	Eastern Indigo Snake	T	T	N	High	Broad range of habitats, from scrub and sandhill to wet prairies and mangrove swamps; often commensal with gopher tortoises
<i>Gopherus polyphemus</i>	Gopher Tortoise	N	T	N	Observed by FNAI	Dry upland habitats, including sandhills, scrub, xeric oak hammock, and dry pine flatwoods; also pastures, old fields
<i>Lepidochelys kempii</i>	Kemp's Ridley	E	E	N	Low	Marine coastal waters; juveniles frequent bays, inlets, and lagoons

Table 9-A2.3-8
Important Wildlife Species Reported in Levy and Citrus Counties That Can Reasonably Be Expected to Occur
500-kV LCR Corridor

Scientific Name	Common Name	Status				Probability of Occurrence in 500-kV LCR Corridor and Typical Habitat
		Federal	State	F.A.C. Rule 39-1		
<i>Pituophis melanoleucus mugitus</i>	Florida Pine Snake	N	SSC	N	High	Sandhill, old fields and pastures, sand pine scrub, scrubby flatwoods; often commensal with gopher tortoises and pocket gophers
<i>Pseudemys concinna suwanniensis</i>	Suwannee Cooter	N	SSC	N	High	Rivers, large streams
<i>Stilosoma extenuatum</i>	Short-tailed Snake	N	T	N	High	Sandhill, xeric hammock, sand pine scrub
BIRDS						
<i>Ammodramus maritimus</i>	Scott's Seaside Sparrow	N	SSC	N	High	Tidal marshes
Anatidae (family)	Geese, Ducks	N	N	Game	High	Freshwater marshes, lake margins, wet prairies
<i>Aphelocoma coerulescens</i>	Florida Scrub-jay	T	T	N	Low	Low-growing oak scrub habitat
<i>Aramus guarana</i>	Limpkin	N	SSC	N	High	Mangroves, freshwater marshes, swamps, springs, spring runs, pond, river, and lake margins
<i>Athene cunicularia floridana</i>	Florida Burrowing Owl	N	SSC	N	Moderate	Dry prairie, sandhill, pastures
<i>Charadrius melodus</i>	Piping Plover	T	T	N	High	Tidal mudflats
<i>Cistothorus palustris marianae</i>	Marian's Marsh Wren	N	SSC	N	High	Tidal marshes
<i>Colinus virginianus</i>	Northern Bobwhite	N	N	Game	High	Brushy pastures, open woodlands
<i>Corvus</i> spp.	Crows	N	N	Game	High	Forested areas, pastures, suburban areas
<i>Egretta caerulea</i>	Little Blue Heron	N	SSC	N	High	Freshwater lakes, marshes, swamps, and streams; roosts in cypress trees
<i>Egretta thula</i>	Snowy Egret	N	SSC	N	High	Freshwater and coastal wetlands, streams, lakes, and swamps, manmade impoundments, ditches
<i>Egretta tricolor</i>	Tricolored Heron	N	SSC	N	High	Wetlands, ditches, pond and lake edges, coastal areas
<i>Eudocimus albus</i>	White Ibis	N	SSC	N	High	Freshwater and brackish marshes, salt flats, forested wetlands, wet prairies, swales, man-made ditches
<i>Falco peregrinus</i>	Peregrine Falcon	N	E	N	High	Open land near rivers and lakes, suburban areas
<i>Falco sparverius paulus</i>	Southeastern American	N	T	N	High	Open pine habitats, woodland edges, prairies, pastures
<i>Fulica americana</i>	American Coot	N	N	Game	High	Open ponds, marshes, coastal inlets, bays
<i>Gallinago gallinago</i>	Common Snipe	N	N	Game	High	Freshwater marshes, ponds, fields
<i>Gallinula chloropus</i>	Common Moorhen	N	N	Game	High	Freshwater marshes, ponds
<i>Grus canadensis pratensis</i>	Florida Sandhill Crane	N	T	N	High	Prairies, freshwater marshes, and pastures
<i>Haematopus palliatus</i>	American Oystercatcher	N	SSC	N	High	Mudflats
<i>Haliaeetus leucocephalus</i>	Bald Eagle	N	T	N	Observed by PEF	Coastal areas, bays, rivers, lakes, or other bodies of water
<i>Meleagris gallopavo osceola</i>	Florida Wild Turkey	N	N	Game	High	Oak woodlands, pine-oak forests
<i>Mycteria americana</i>	Wood Stork	E	E	N	High	Cypress strands and domes, mixed forested wetlands
<i>Pelecanus occidentalis</i>	Brown Pelican	N	SSC	N	High	Small islands in bays and estuaries
<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	SSC	N	Low	Old growth longleaf and slash pine forests
<i>Platalea ajaja</i>	Roseate Spoonbill	N	SSC	N	High	Tidal flats, coastal and freshwater marshes
Rallidae (family)	Rails	N	N	Game	High	Freshwater marshes, coastal salt marshes, ditches
<i>Rynchops niger</i>	Black Skimmer	N	SSC	N	High	Coastal waters; also large lakes, phosphate pits, and flooded agricultural fields
<i>Scolopax minor</i>	American Woodcock	N	N	Game	Moderate	Moist woodlands, thickets near open fields

Table 9-A2.3-8
Important Wildlife Species Reported in Levy and Citrus Counties That Can Reasonably Be Expected to Occur
500-kV LCR Corridor

Scientific Name	Common Name	Status			Probability of Occurrence in 500-kV LCR Corridor and Typical Habitat	
		Federal	State	F.A.C. Rule 39-1		
<i>Sterna antillarum</i>	Least Tern	N	T	N	High	Bays and estuaries
<i>Zenaida asiatica</i>	White-winged Dove	N	N	Game	High	Open fields, shrubland, residential areas
<i>Zenaida macroura</i>	Mourning Dove	N	N	Game	High	Open fields, residential areas
MAMMALS						
<i>Canis latrans</i>	Coyote	N	N	Furbearer	High	Forested areas, pastures
<i>Didelphis virginiana</i>	Virginia Opossum	N	N	Furbearer	High	Forested uplands, forested wetlands, residential areas
<i>Lynx rufus</i>	Bobcat	N	N	Furbearer	Moderate	Large forests, swamps, hammocks
<i>Lutra canadensis</i>	River Otter	N	N	Furbearer	High	Rivers, creeks, lakes, ponds, swamps
<i>Mephitis mephitis</i>	Striped Skunk	N	N	Furbearer	High	Brushy fields, weedy pastures, disturbed areas, residential areas
<i>Odocoileus virginianus</i>	White-tailed Deer	N	N	Game	High	Pine flatwoods, pine-oak forests, hammocks
<i>Podomys floridanus</i>	Florida Mouse	N	SSC	N	High	Xeric upland communities with sandy soils, including scrub, sandhill, and ruderal sites
<i>Procyon lotor</i>	Raccoon	N	N	Furbearer	High	Forested uplands, forested wetlands
<i>Sciurus carolinensis</i>	Eastern Gray Squirrel	N	N	Game	High	Forested uplands, urban areas
<i>Sciurus niger shermani</i>	Sherman's Fox Squirrel	N	SSC	N	High	Sandhills, pine flatwoods, pastures and other open, ruderal habitats with scattered pines and oaks
<i>Sorex longirostris eionis</i>	Homosassa Shrew	N	SSC	N	Low	Moist areas, forested wetlands, riparian forests, fields, brushy areas, and near Homosassa Springs area
<i>Spilogale putorius</i>	Eastern Spotted Skunk	N	N	Furbearer	High	Brushy fields, weedy pastures, disturbed areas, residential areas
<i>Sylvilagus floridanus</i>	Eastern Cottontail	N	N	Game	High	Brushland, weed and briar patches, abandoned fields, areas fringing cultivated fields
<i>Sylvilagus palustris</i>	Marsh Rabbit	N	N	Game	High	Wet bottomlands, swamps, marshes, hammocks
<i>Trichechus manatus</i>	Manatee	E	E	N	High	Bays, rivers
<i>Ursus americanus floridanus</i>	Florida Black Bear	N	T	N	Low	Large areas of forested uplands, forested wetlands

Notes:

N = Not Listed

T = Threatened

E = Endangered

SSC = Species of Special Concern

T(SA) = Threatened due to similarity in appearance to a federally listed species

Source:

FNAI, FNAI Search, 2001

FNAI, FNAI Tracking List, 2008

Table 9-A2.5-1
Maximum Calculated EMF
500-kV LCR Transmission Line¹

Right-of-Way (ROW) Configuration		ROW Width (ft)	Electric Field (kV/m)			Magnetic Field (mG)	
			Within ROW	Left Edge ² of ROW	Right Edge ² of ROW	Left Edge ² of ROW	Right Edge ² of ROW
Typical tangent steel H-frame with horizontal configuration on 220-ft right-of-way		220	9.0	1.30	1.30	96.73	96.73
Typical tangent steel monopole with delta configuration on 200-ft right-of-way		200	8.3	0.91	1.13	63.29	57.98
Typical tangent steel monopole with delta configuration; four lines on 670- to 1000-ft right-of-way		670 to1000	8.3	0.84	0.98	92.47	98.73
Typical tangent steel H-frame with horizontal configuration; four lines on 670- to 1000-ft right-of-way		670 to1000	9.0	1.36	1.36	122.68	122.60
Typical tangent steel H-frame with horizontal configuration on existing 1325-ft right-of-way parallel to PEF existing 500/230-kV lines		1,325	9.0	0.04	0.15	19.87	48.11
Typical tangent steel monopole with delta configuration on existing 1325-ft right-of-way parallel to PEF existing 500/230-kV lines		1,325	8.8	0.05	0.13	16.70	46.04
Florida EMF Rule limit for new 500-kV transmission line			10	2.00	2.00	200	200

¹ The Maximum Current Rating of the proposed 500-kV line is 3000 amperes per phase.

² Left and right side of ROW looking toward LNP.

Table 9-A2.5-2
Maximum Calculated Audible Noise
500-kV LCR Transmission Line

Right-of-Way Configuration	L ₅₀ *
	(dBA)
Typical tangent steel H-frame with horizontal configuration on 220-ft right-of-way	43
Typical tangent steel monopole with delta configuration on 200-ft right-of-way	42
Typical tangent steel monopole with delta configuration; four lines on 670- to 1000-ft right-of-way	46
Typical tangent steel H-frame with horizontal configuration; four lines on 670- to 1000-ft right-of-way	48
Typical tangent steel H-frame with horizontal configuration on existing 1325-ft right-of-way parallel to PEF existing 500/230-kV lines	48
Typical tangent steel monopole with delta configuration on existing 1325-ft right-of-way parallel to PEF existing 500/230-kV lines	48

*Maximum audible noise occurs during rain or other wet weather conditions.
Noise levels will be lower during dry weather conditions.
All calculated values are rounded up to the nearest whole number.