TABLE OF CONTENTS

SECTION PAGE

LIST OF APPENDICES v
LIST OF TABLES vi
LIST OF FIGURES viii
LIST OF ACRONYMS AND ABBREVIATIONS x
SCA DEFINITIONS xiv
1.0 INTRODUCTION AND GENERAL INFORMATION 1-1
1.1 INTRODUCTION 1-1
1.2 THE APPLICANT 1-2
1.3 OVERVIEW OF THE PROJECT 1-4
1.4 SUMMARY OF PUBLIC OUTREACH PROGRAM 1-5
2.0 NEED FOR THE PROPOSED FACILITY 2-1
3.0 SITE AND VICINITY CHARACTERIZATION 3-1
3.1 SITE AND ASSOCIATED FACILITIES DELINEATION 3-1
3.1.1 EXISTING USES 3-1
3.1.2 ADJACENT PROPERTIES AND NEARBY AREAS 3-2
3.1.3 ONE HUNDRED YEAR FLOOD ZONE 3-2
3.2 SOCIAL AND POLITICAL ENVIRONMENT 3-2
3.2.1 GOVERNMENTAL JURISDICTIONS 3-2
3.2.2 ZONING AND LAND USE PLANS 3-3
3.2.3 DEMOGRAPHY AND ONGOING LAND USE 3-4
3.2.4 LEASES, EASEMENTS, TITLE, AGENCY WORKS 3-6
3.2.5 REGIONAL, SCENIC, CULTURAL, AND NATURAL LANDMARKS 3-10
3.2.6 ARCHAEOLOGICAL AND HISTORICAL SITES 3-11
3.2.7 SOCIAL AND ECONOMIC CHARACTERISTICS AND PUBLIC SERVICES 3-12
3.2.8 AREA PUBLIC SERVICE AND UTILITIES 3-14
3.3 PHYSICAL AND BIOLOGICAL ENVIRONMENT 3-18
3.3.1 GEOLOGY AND HYDROLOGY 3-19
3.3.2 SUBSURFACE HYDROLOGY 3-22
3.3.3 SITE WATER BUDGET AND AREA USERS 3-25
3.3.4 SURFICIAL HYDROLOGY 3-27
3.3.5 VEGETATION/LAND USE 3-29

3.3.6 ECOLOGY 3-29
3.3.7 NOISE 3-35
3.3.8 OTHER ENVIRONMENTAL FEATURES 3-41
4.0 THE PLANT AND DIRECTLY ASSOCIATED FACILITIES 4-1
4.1 BACKGROUND 4-1
4.2 SITE LAYOUT 4-3
4.3 FUEL 4-3
4.4 AIR EMISSIONS AND CONTROLS 4-5
4.4.1 AIR EMISSIONS UNITS 4-5
4.4.2 AIR EMISSION CONTROLS 4-9
4.4.3 CONTROL TECHNOLOGY DESCRIPTION 4-10
4.4.4 DESIGN DATA FOR CONTROL EQUIPMENT 4-17
4.4.5 DESIGN PHILOSOPHY 4-18
4.5 PLANT WATER USE 4-18
4.5.1 HEAT DISSIPATION SYSTEM 4-20
4.5.2 DOMESTIC/SANITARY WASTEWATER 4-20
4.5.3 POTABLE WATER SYSTEMS 4-21
4.5.4 PROCESS WATER SYSTEMS 4-21
4.6 CHEMICAL AND BIOCIDE WASTE 4-22
4.6.1 COOLING SYSTEM WATER CHEMICAL TREATMENT 4-22
4.6.2 STEAM CYCLE WATER TREATMENT 4-22
4.6.3 SANITARY WASTEWATER TREATMENT 4-23
4.6.4 MAKEUP WATER DEMINERALIZATION 4-23
4.6.5 CHEMICAL CLEANING 4-23
4.6.6 MISCELLANEOUS DRAINS 4-24
4.7 SOLID AND HAZARDOUS WASTES 4-24
4.7.1 SOLID WASTES 4-24
4.7.2 HAZARDOUS WASTES 4-25
4.8 ON-SITE DRAINAGE SYSTEM 4-25
4.8.1 DESIGN CRITERIA AND APPLICABLE REGULATIONS 4-25
4.8.2 CONSTRUCTION SITE DRAINAGE 4-25
4.8.3 OPERATIONAL SITE DRAINAGE 4-27
4.9 HEAVY EQUIPMENT AND MATERIALS 4-27
4.9.1 CONSTRUCTION MATERIALS AND EQUIPMENT 4-27
4.9.2 ROADS 4-28

4.9.3 RAIL/SHIP 4-28
4.10 ASSOCIATED LINEAR FACILITIES 4-28
4.11 EMERGENCY DISASTER PREPAREDNESS PLANS 4-29
5.0 ENVIRONMENTAL EFFECTS OF SITE PREPARATION, AND PLANT AND ASSOCIATED FACILITIES CONSTRUCTION 5-1
5.1 LAND IMPACTS 5-1
5.1.1 GENERAL CONSTRUCTION IMPACTS 5-1
5.1.2 ROADS 5-3
5.1.3 FLOOD ZONES 5-4
5.1.4 TOPOGRAPHY AND SOILS 5-4
5.2 IMPACT ON SURFACE WATER BODIES AND USES 5-6
5.2.1 IMPACT ASSESSMENT 5-6
5.2.2 MEASURING AND MONITORING PROGRAMS 5-9
5.3 GROUNDWATER IMPACTS 5-9
5.3.1 IMPACT ASSESSMENT 5-9
5.3.2 MEASURING AND MONITORING PROGRAMS 5-10
5.4 ECOLOGICAL IMPACTS 5-10
5.4.1 IMPACT ASSESSMENT 5-10
5.4.2 MEASURING AND MONITORING PROGRAMS 5-12
5.5 AIR IMPACTS 5-12
5.5.1 AIR EMISSIONS 5-12
5.5.2 CONTROL MEASURES 5-14
5.6 SOLID WASTES 5-15
5.7 IMPACT ON HUMAN POPULATIONS 5-15
5.7.1 CONSTRUCTION WORKFORCE 5-16
5.7.2 TRANSPORTATION 5-17
5.7.3 HOUSING 5-18
5.7.4 EDUCATION 5-19
5.7.5 CONSTRUCTION NOISE IMPACTS 5-19
5.8 IMPACT ON LANDMARKS AND SENSITIVE AREAS 5-23
5.9 IMPACT ON ARCHAEOLOGICAL AND HISTORIC SITES 5-24
5.10 SPECIAL FEATURES 5-24
5.11 BENEFITS FROM CONSTRUCTION 5-24
6.0 EFFECTS OF PLANT OPERATION 6-1
6.1 EFFECTS OF THE OPERATION OF THE HEAT DISSIPATION SYSTEM 6-1

6.1.1 TEMPERATURE EFFECT ON RECEIVING BODY OF WATER 6-1
6.1.2 EFFECTS ON AQUATIC LIFE 6-3
6.1.3 BIOLOGICAL EFFECTS OF MODIFIED CIRCULATION 6-4
6.1.4 EFFECTS OF OFF-STREAM COOLING 6-4
6.1.5 MEASUREMENT PROGRAM 6-5
6.2 EFFECTS OF CHEMICAL AND BIOCIDE DISCHARGES 6-5
6.2.1 INDUSTRIAL WASTEWATER DISCHARGES 6-5
6.2.2 COOLING TOWER BLOWDOWN 6-5
6.2.3 MEASUREMENT PROGRAMS 6-6
6.3 IMPACTS ON WATER SUPPLIES 6-6
6.3.1 SURFACE WATER 6-6
6.3.2 GROUNDWATER 6-6
6.3.3 DRINKING WATER 6-6
6.3.4 LEACHATE AND RUNOFF 6-6
6.3.5 MEASUREMENT PROGRAMS 6-6
6.4 SOLID/HAZARDOUS WASTE DISPOSAL IMPACTS 6-7
6.4.1 SOLID WASTE 6-7
6.4.2 HAZARDOUS WASTE 6-7
6.5 SANITARY AND OTHER WASTE DISCHARGES 6-7
6.6 AIR QUALITY IMPACTS 6-7
6.6.1 IMPACT ASSESSMENT 6-8
6.6.2 MONITORING PROGRAMS 6-12
6.7 NOISE IMPACTS 6-13
6.7.1 METHODOLOGY 6-13
6.7.2 IMPACT ANALYSIS 6-14
6.8 CHANGES IN NON-AQUATIC SPECIES POPULATIONS 6-17
6.8.1 IMPACTS 6-17
6.8.2 MONITORING 6-18
6.9 OTHER PLANT OPERATION EFFECTS 6-18
6.9.1 OPERATIONS TRAFFIC 6-18
6.9.2 LIGHTING 6-18
6.10 ARCHAEOLOGICAL SITES 6-19
6.11 RESOURCES COMMITTED 6-19
7.0 ECONOMIC AND SOCIAL EFFECTS OF PLANT CONSTRUCTION AND OPERATION 7-1

7.1 ECONOMIC AND SOCIAL BENEFITS 7-1
7.1.1 DIRECT ECONOMIC AND SOCIAL BENEFITS 7-1
7.1.2 ECONOMIC BENEFITS OF CONSTRUCTION 7-3
7.1.3 FISCAL BENEFITS TO LOCAL GOVERNMENTS 7-4
7.1.4 ECONOMIC BENEFITS OF OPERATION 7-5
7.1.5 ENVIRONMENTAL BENEFITS 7-5
7.2 ECONOMIC AND SOCIAL COSTS 7-6
7.2.1 TEMPORARY EXTERNAL COSTS 7-6
7.2.2 LONG-TERM EXTERNAL COSTS 7-7
8.0 SITE AND DESIGN ALTERNATIVES 8-1
9.0 ELECTRICAL TRANSMISSION LINES 9-1

LIST OF APPENDICES

APPENDIX 10.1 COORDINATION
APPENDIX 10.2 FEDERAL PERMIT APPLICATIONS OR APPROVALS
APPENDIX 10.2.1 316 DEMONSTRATIONS
APPENDIX 10.2.2 NPDES APPLICATIONS/PERMITS
APPENDIX 10.2.3 HAZARDOUS WASTE DISPOSAL APPLICATION/PERMIT
APPENDIX 10.2.4 SECTION 10 OR 404 APPLICATIONS/PERMITS
APPENDIX 10.2.5 PREVENTION OF SIGNIFICANT DETERIORATION PERMIT APPLICATION
APPENDIX 10.2.6 AIR OPERATION PERMIT
APPENDIX 10.2.7 COASTAL ZONE MANAGEMENT CERTIFICATIONS
APPENDIX 10.2.8 OTHER FEDERAL PERMITS OR APPROVALS
APPENDIX 10.2.8-1 FEDERAL AVIATION AGENCY OE DOCKET NO. 64-SO-7 DETERMINATION OF NO HAZARD TO AIR NAVIGATION
APPENDIX 10.2.8-2 U.S. COAST GUARD PRIVATE AIDS TO NAVIGATION APPLICATION NO. 16518
APPENDIX 10.2.8-3 DEPARTMENT OF THE ARMY PERMIT NO. SAJ-1996-05163 NATIONWIDE PERMIT NUMBER 3
APPENDIX 10.2.8-4 U.S. FISH AND WILDLIFE SERVICE SPECIAL PURPOSE SALVAGE PERMIT NO. MB697722-0
APPENDIX 10.2.8-5 U.S. FISH AND WILDLIFE SERVICE DEPREDATION PERMIT NO. MB135540-0
APPENCIX 10.2.8-6 NPDES STATUS OF INTAKE CANAL
APPENDIX 10.3 ZONING DESCRIPTIONS
APPENDIX 10.4 ENVIRONMENTAL RESOURCE PERMIT

APPENDIX 10.5 LAND USE PLAN DESCRIPTIONS
APPENDIX 10.6 EXISTING STATE PERMITS
APPENDIX 10.6.1 FDEP TITLE V AIR OPERATING PERMIT
APPENDIX 10.6.2 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION MANATEE PROTECTION PLAN
APPENDIX 10.6.3 MANATEE PROTECTION ZONE PERMIT NO. MPZ-0001-11-BRO
APPENDIX 10.6.4 MIGRATORY BIRD NEST REMOVAL PERMIT NO. LSNR-11-00026
APPENDIX 10.6.5 SCIENTIFIC COLLECTING PERMIT NO. LSSC-11-00021
APPENDIX 10.6.6 STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT NO. FL0001538
APPENDIX 10.6.7 BROWARD COUNTY INDUSTRIAL WASTEWATER FACILITY LICENSE NO. IW-2010-0134
APPENDIX 10.6.8 BROWARD COUNTY MAINTENANCE DREDGING EXEMPTION
APPENDIX 10.7 MONITORING PROGRAMS
APPENDIX 10.7.1 ECOLOGY
APPENDIX 10.7.2 CULTURAL RESOURCES
APPENDIX 10.7.3 NOISE INFORMATION
APPENDIX 10.7.4 TRAFFIC INFORMATION
APPENDIX 10.8 NEXTERA ENERGY, INC.'S AND FPL'S GREENHOUSE GAS STRATEGY
APPENDIX 10.9 DEWATERING PLAN
APPENDIX 10.10 WATER ALTERNATIVES ANALYSIS
APPENDIX 10.11 STORMWATER MANAGEMENT PLAN
APPENDIX 10.12 LEASES, EASEMENTS, TITLE, AGENCY WORKS

LIST OF TABLES

Table 3.2.1-1 Governmental Jurisdictions within 5 Miles of the Site
Table 3.2.8.2-1 Port Everglades Energy Center Existing Traffic Conditions
Table 3.3.3-1 Water Use Permits within 5 Miles of PEEC
Table 3.3.4-1 Water Quality of Intracoastal Waterway North and South of Port Everglades
Table 3.3.6-1 Threatened, Endangered, and Species of Special Concern Known to Occur Within Broward County, Florida
Table 3.3.7-1 Ambient Sound Pressure Levels Observed at FPL Port Everglades Plant Property Boundary Locations in August 2011
Table 3.3.8-1 Examples of Typical Illuminance
Table 3.3.8-2 Baseline Illuminance in the Vicinity of the FPL Port Everglades Power Plant, August 2011
Table 4.3.0-1 Typical Natural Gas Composition

Table 4.3.0-2	Typical Ultra Low Sulfur Light Oil Composition
Table 4.4.1-1A	Stack, Operating, and Emission Data for the Combustion Turbines/HRSGs for PEEC Operation–Natural Gas Combustion, MPS 501J Class CT
Table 4.4.1-1B	Stack, Operating, and Emission Data for the Combustion Turbines/HRSGs for PEEC Operation – Natural Gas Combustion, Siemens H Class CT
Table 4.4.1-2A	Stack, Operating, and Emission Data for the Combustion Turbines/HRSGs for PEEC Operation – Ultra Low Sulfur Distillate Oil Combustion, MPS 501J Class CT
Table 4.4.1-2B	Stack, Operating, and Emission Data for the Combustion Turbines/HRSGs for PEEC Operation – Ultra Low Sulfur Distillate Oil Combustion, Siemens H CT
Table 4.4.1-3A	Summary of Maximum Potential Annual Emissions for PEEC Operation, MPS 501J Class CT
Table 4.4.1-3B	Summary of Maximum Potential Annual Emissions for PEEC Operation, Siemens H CT
Table 4.6.0-1	PEEC Waste Streams, Characterization and Disposal Method
Table 4.7.0-1	FPL General Waste Handling Guidelines
Table 5.1.1-1	Potential Dismantlement Material and Disposal Options
Table 5.5.1-1	Estimated Air Emissions During Site Preparation and Construction of Project
Table 5.7.2-1	Port Everglades Energy Center Future Traffic Conditions
Table 5.7.2-2	Port Everglades Energy Center Future Traffic Conditions with Construction Trips
Table 5.7.2-3	Intersection Level of Service – Stop Control Intersection
Table 5.7.5-1	Summary of Noise Source Data Used to Predict Sound Pressure During the Construction of PEEC
Table 5.7.5-2	Existing Background, Modeled, and Overall Sound Pressure Levels for the Construction of PEEC
Table 6.6.0-1	Summary of Predicted Pollutant Concentrations for the Existing Port Everglades Plant Unit 1 through 4 and the PEEC Project Compared to Ambient Air Quality Standards
Table 6.6.0-2	Summary of Maximum Measured SO_2, NO_2, PM_{10}, $PM_{2.5}$, O_3, and CO Concentrations Representative of PEEC Project, 2008 through 2010
Table 6.7.1-1	Sound Pressure Levels for Noise Sources Associated with Operation of PEEC
Table 6.7.2-1	Existing, Modeled, and Overall Sound Pressure Levels for the Operation of PEEC at the Eight Background Locations
Table 6.7.2-2	2004 and 2011 Background, Modeled and Overall Sound Pressure Levels for the Operation of PEEC

LIST OF FIGURES

Figure 1.1.0-1	General Location of the FPL Port Everglades Plant and Port Everglades Energy Center
Figure 1.2.0-1	Service Territory and Power Plants
Figure 3.0.0-1	Location of the FPL Port Everglades Plant in Broward County, Florida
Figure 3.0.0-2	Existing Plant and Project Locations
Figure 3.1.1-1	Aerial of the Port Everglades Plant Property
Figure 3.1.1-2	Aerial of the Port Everglades Energy Center Site
Figure 3.1.1-3	Aerial of the Parking and Laydown Areas during Project Construction
Figure 3.1.3-1	FEMA Flood Zones
Figure 3.1.3-2	Hurricane Evacuation Routes and Storm Surge Map
Figure 3.2.1-1	Governmental Jurisdictions within 1-Mile Radius
Figure 3.2.1-2	Governmental Jurisdictions within 1-, 2-, 3-, 4-, and 5-Mile Radii
Figure 3.2.2-1	Broward County Planning Council Land Use Map
Figure 3.2.2-2	Zoning
Figure 3.2.3-1	Existing Land Use
Figure 3.2.4-1	Aerial of the Port Everglades Plant Property and Existing Easements
Figure 3.2.4-2	Aerial of the Port Everglades Plant Property and Existing Easement Changes
Figure 3.2.4-3	Aerial of the Port Everglades Plant Property and Future Easements
Figure 3.3.1-1	Hydrogeology, Aquifer Characteristics, and Groundwater Flow of the Surficial Aquifer System, Broward County, Florida
Figure 3.3.3-1	Water Use Permits within a 5-Mile Radius
Figure 3.3.4-1	NOAA Nautical Chart
Figure 3.3.5-1	Vegetation/Land Use
Figure 3.3.6-1	Listed and Observed Species Occurrences within 5 Miles
Figure 3.3.7-1	Noise and Light Monitoring Locations
Figure 4.2.0-1	Conceptual Plot Plan
Figure 4.2.0-2	North-South Profile of Combustion Turbines and HRSGs
Figure 4.2.0-3	East-West Profile of Combustion Turbines and HRSGs
Figure 4.4.1-1	Comparison of Historical Actual SO_2, NO_x, and PM Annual Emissions (TPY) for the Existing Port Everglades Plant Units 1 through 4 Compared to Projected Maximum Potential Annual Emissions (TPY) for PEEC
Figure 4.4.2-1	Comparison of CO_2 Emission Rates (lb/MW-hr) for the Existing Port Everglades Plant Units 1 through 4 and PEEC
Figure 4.5.0-1	Water Balance for PEEC
Figure 4.8.2-1a	Construction Stormwater Management Plan – Area A
Figure 4.8.2-1b	Construction Stormwater Management Plan – Area B

Figure 4.8.3-1a Operation Stormwater Management Plan – Area A
Figure 4.8.3-1b Operation Stormwater Management Plan – Area B
Figure 5.7.5-1 Construction Noise Impact Contours – Day
Figure 5.7.5-2 Construction Noise Impact Contours – Night
Figure 6.7.2-1 Operation Noise Impact Contours

LIST OF ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
°F	degrees Fahrenheit
µPa	micropascals
µS/cm	microsiemens per centimeter
AADT	annual average daily traffic
AAQS	Ambient Air Quality Standards
ABI	Applied Biology, Inc.
Act	Local Government Comprehensive Planning and Land Development Regulations Act of 1985, Chapter 163, Part II, F.S.
AERMOD	American Meteorological Society and EPA Regulatory Model
ANSI	American National Standards Institute
APPZ	Avon Park Permeable Zone
BACT	Best Available Control Technology
BMPs	Best Management Practices
BOR	Basis of Review
Btu/kWh	British thermal units per kilowatt-hour
Btu/lb	British thermal units per pound
Btu/scf	British thermal units per standard cubic foot
C&D	construction and demolition (waste)
C.I.E.	Commission Internationale de l'Eclairage (International Commission on Illumination)
CadnaA	Computer Aided Noise Abatement
CCEC	Cape Canaveral Next Generation Clean Energy Center
cd	candelas
cd/m^2	candelas per square meter
CEM	continuous emission monitoring
CESQG	Conditionally Exempt Small Quantity Generator
cf/yr	cubic feet per year
CFR	Code of Federal Regulations
CH_4	methane
City	City of Hollywood
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	CO_2 equivalent emissions
County	Broward County
CT	combustion turbine or combustion turbine generator
CWA	Clean Water Act
dB	decibels
dBA	A-weighted decibels
DHR	Florida Division of Historical Resources
DLE	dry low emissions
DLN	dry low-NO_x
EDTA	ethylene diamine tetra-acetic acid
eGRID	Emissions & Generation Resource Integrated Database
EIA	U.S. Energy Information Administration

EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ERP	Environmental Resource Permit
ESP	electrostatic precipitator
F.A.C.	Florida Administrative Code
F.S.	Florida Statutes
FAS	Floridan Aquifer System
FCREPA	Florida Committee on Rare and Endangered Plants and Animals
FDACS	Florida Department of Agriculture and Consumer Services
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FEMA	Federal Emergency Management Agency
FWC	Florida Fish and Wildlife Conservation Commission
FGT	Florida Gas Transmission
FIU	Florida International University
FLL	Fort Lauderdale-Hollywood International Airport
FLUCFCS	Florida Land Use, Cover and Forms Classification System
FMSF	Florida Master Site File
FNAI	Florida Natural Areas Inventory
FPL	Florida Power & Light Company
FPSC	Florida Public Service Commission
ft	feet
ft/day	feet per day
ft/yr	feet per year
ft^2/day	square feet per day
ft-bgs	feet below ground surface
FWS	U.S. Fish and Wildlife Service
g/bhp-hr	grams per brake horsepower-hour
GEP	good engineering practice
GHG	greenhouse gas
GIS	geographic information systems
gpd	gallons per day
gpm	gallons per minute
gr/100 scf	grains per 100 standard cubic feet
GWP	Global Warming Potential
H_2SO_4	sulfuric acid
HAP	hazardous air pollutant
HHV	higher heating value
hp	horsepower
hr/yr	hours per year
HRSG	heat recovery steam generator
Hz	hertz
I	Interstate (highway)
ICU	Intermediate Confining Unit
ICW	Intracoastal Waterway
IMECS	Impingement Mortality and Entrainment Characterization Studies
in/yr	inches per year
ISO	International Organization for Standardization

IWW	Industrial Wastewater
kg	kilograms
klux	kilolux
km	kilometer
kV	kilovolts
kW	kilowatt
L_{50}	sound pressure level exceeded 50 percent of the time
L_{90}	sound pressure level exceeded 90 percent of the time
lb/hr	pounds per hour
lb/MMBtu	pounds per million British thermal units
lb/MW-hr	pounds per megawatt-hour
L_{eq}	equivalent sound pressure level
LFA	Lower Floridan Aquifer
LHV	lower heating value
L_{max}	maximum sound pressure level
L_{min}	minimum sound pressure level
LOS	Level of Service (traffic)
L_w	octave band sound power levels
m	meters
MACT	maximum achievable control technology
mag/arcsec^2	magnitudes per square arcsecond
MCU	Middle Confining Unit
MG	million gallons
mg/L	milligrams per liter
MGD	million gallons per day
MMBtu/hr	million British thermal units per hour
MMcf/hr	million cubic feet per hour
MPS	Mitsubishi Power Systems
MSW	municipal solid waste
MTHS	manatee temporary heating system
MW	megawatt
N_2O	nitrous oxide
NEPA	National Environmental Policy Act
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NGVD 29	National Geodetic Vertical Datum 1929
NHPA	National Historic Preservation Act
NO_2	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOT	Notice of Termination
NO_x	nitrogen oxides
NMFS	National Marine Fisheries Service
NRCS	Natural Resource Conservation Service
NRHP	National Register of Historic Places
NSPS	New Source Performance Standards
NSR	New Source Review
NTU	nephelometric turbidity units
NWS	National Weather Service

O_2	oxygen
OFW	Outstanding Florida Waters
OSHA	Occupational Safety and Health Administration
PEDD	Port Everglades Development District
PEEC	Port Everglades Next Generation Clean Energy Center
Plan	Comprehensive Plan
PM	particulate matter
PM_{10}	particulate matter with an aerodynamic diameter of 10 micrometers or less
$PM_{2.5}$	particulate matter with an aerodynamic diameter of 2.5 micrometers or less
Port	Port Everglades
POTW	publicly owned treatment works
ppm	parts per million
ppmvd	parts per million by volume dry
PPSA	Florida Electrical Power Plant Siting Act
ppt	parts per thousand
PSD	Prevention of Significant Deterioration
PV	photovoltaic
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RARE	Roadless Area Review and Evaluation
RBEC	Riviera Beach Next Generation Clean Energy Center
RFP	request for proposals
RICE	reciprocating internal combustion engines
RO/MB	reverse osmosis/mixed bed
S.R.	State Road
SAS	surficial aquifer system
SCA	Site Certification Application
SCR	selective catalytic reduction
SCRAM	Support Center for Regulatory Air Models
SFWMD	South Florida Water Management District
SHPO	State Historic Preservation Office
SO_2	sulfur dioxide
SPL	sound pressure level
SWPPP	Storm Water Pollution Prevention Plan
TDS	total dissolved solids
TPD	tons per day
TPY	tons per year
TTN	Technology Transfer Network
UFA	Upper Floridan Aquifer
ULSD	ultra low sulfur distillate
USACE	U.S. Army Corps of Engineers
USCG	U.S. Coast Guard
USGS	U.S. Geological Survey
VOC	volatile organic compound

SITE CERTIFICATION APPLICATION DEFINITIONS

1. "Port Everglades Plant" or "existing Plant" – refers to the existing Florida Power & Light Company (FPL) power plant, including Units 1 through 4 and the Gas Turbine Power Park located on the Port Everglades Plant Property.

2. "Port Everglades Units 1 through 4" or "Units 1 through 4" – refers to the existing 1960s vintage heavy oil and natural gas-fired fossil steam boilers, steam turbine/electric generators, and selected appurtenances.

3. "Port Everglades Plant Property" – refers to the approximately 94 acres of FPL-owned property.

4. "Port Everglades Next Generation Clean Energy Center Project", "PEEC", or "Project" – refers to the entire "Project" for which FPL seeks certification, including dismantlement of the existing Port Everglades Plant Units 1 through 4, construction of the proposed combined cycle generating unit, the construction parking and laydown areas, and related activities as described in the Site Certification Application. The existing Administration Building, natural gas yard, easements (intake canal and culvert, ULSD piping, aquatic organism return system piping, and discharge canal) are part of the Project. "Port Everglades Next Generation Clean Energy Center Project", "PEEC" or "Project" does not include the existing Gas Turbine Power Park on the Port Everglades Plant Property.

5. "Port Everglades Energy Center Site" or "Site" – refers to the property on which PEEC will be located, as the Site to be certified for the Port Everglades Next Generation Clean Energy Center, including the intake and discharge canals, the existing Administration Building and natural gas yard.

6. "Power Block" – refers to the area that will be occupied by the proposed combined cycle unit major equipment such as combustion turbines/heat recovery steam generators (CTs/HRSGs) and a steam turbine generator.

7. "construction parking and laydown areas" – refers to FPL-owned property located within the existing Port Everglades Plant Property that will be used during construction of the Project for parking and construction laydown.

8. "construction" – refers to work to be performed as part of the Project, including dismantlement of existing Units 1 through 4 facilities, as well as construction of the 3-on-1 combined cycle unit, the construction parking and laydown areas, and related activities as described in the Site Certification Application.

9. "dismantlement" – refers to all activities associated with the removal of existing Port Everglades Units 1 through 4 facilities.

10. "Gas Turbine Power Park - Port Everglades" consists of the 12 simple-cycle gas turbines and related appurtenances including, for example fuel oil storage tanks and support structures located on the Port Everglades Plant Property.