

**STATE OF FLORIDA
DEPARTMENT
OF
ENVIRONMENTAL PROTECTION**



Conditions of Certification

**Florida Power & Light Company
St. Lucie Power Plant
Nuclear Units 1 & 2**

PA 74-02A2

September 17, 2008

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Appendix A: FESOP #1110071-005-AF

Appendix B: NPDES Permit FL0002208-003-IW1S

I. CERTIFICATION CONTROL

A. Pursuant to s. 403.501-518, F.S., the Florida Electrical Power Plant Siting Act, this certification is issued to Florida Power & Light Co.(FPL) as owner/operator of the St. Lucie Power Plant. Under the control of these Conditions of Certification FPL will operate a 1886 MW (nominal) facility consisting of two nuclear Units No. 1 and No. 2 (and ancillary equipment). These units are located within the approximately 177 acre certified area on the approximately 1,130 -acre FPL site which is located on Hutchinson Island, St. Lucie County, Florida.

B. The general and specific conditions contained in these Conditions of Certification, unless specifically amended or modified, are binding upon the licensee and shall apply to the construction and operation of the certified facility. If a conflict should occur between the design criteria of this project and the Conditions of Certification, the Conditions shall prevail unless amended or modified.

II. APPLICABLE RULES

The construction and operation of the certified facility shall be in accordance with all applicable provisions of Florida Statutes and Department and Water Management District rules, including the following regulations: [South Florida WMD: 40E-1, 40E-2, 40E-3, 40E-4, 40E-8,40E-21, 40E-40] 62-4, 62-17, 62-256, 62-296, 62-297, 62-301, 62-302, 62-531, 62-532, 62-550, 62-555, 62-560, 62-600, 62-601, 62-604, 62-610, 62-620, 62-621, 62-650, 62-699, 62-660, 62-701, 62-762, 62-767, 62-769, 62-770, and 62-780 Florida Administrative Code (F.A.C.), or their successors as they are renumbered.

III. DEFINITIONS

The meaning of terms used herein shall be governed by the definitions contained in Chapter 403, Florida Statutes, and any regulation adopted pursuant thereto. In the event of any dispute over the meaning of a term used in these general or special conditions which is not defined in such statutes or regulations, such dispute shall be resolved by reference to the most relevant definitions contained in any other state or federal statute or regulation or, in the alternative by the use of the commonly accepted meaning as determined by the Department. As used herein:

A. "Application" shall mean the Site Certification Application (SCA) for the certified facility, as supplemented.

B. "DEP" or Department shall mean the Florida Department of Environmental Protection.

C. "DHR" shall mean the Florida Department of State, Division of Historical Resources.

D. "Emergency conditions" shall mean urgent circumstances involving potential adverse consequences to human life or property as a result of weather conditions or other calamity, and necessitating new or replacement gas pipeline, transmission lines, or access facilities.

E. "Facility" shall mean the certified electrical power generation facility and all

associated structures, including but not limited to: nuclear steam generating unit, steam turbine generators, transformers, associated transmission lines, substations, fuel and water storage tanks, air and water pollution control equipment, storm water control ponds and facilities, and related structures.

F. "Feasible" or "practicable" shall mean reasonably achievable considering a balance of land use impacts, environmental impacts, engineering constraints, and costs.

G. "FWC" shall mean the Florida Fish and Wildlife Conservation Commission.

H. "Licensee" means an applicant that has obtained a certification order for the subject project.

I. "NPDES permit" shall mean the federal National Pollutant Discharge Elimination System permit issued in accordance with the federal Clean Water Act.

J. "Power plant" shall mean the electric power generating plant and associated structures to be modified or constructed on the certified site, as generally depicted in the Application.

K. "Project" shall mean the Units 1 and 2 electrical power generating facility and all associated facilities.

L. "SFWMD" shall mean the South Florida Water Management District.

N. "Title V permit" shall mean the federal permit issued in accordance with Title V of the federal Clean Air Act

IV. GENERAL CONDITIONS

A. Facilities Operation

1. The Licensee shall at all times properly operate and maintain the facility and related appurtenances, and systems of treatment and control that are installed and used to achieve compliance with the conditions of this certification, and are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the approval and when required by Department rules.

2. In the event of a prolonged [thirty (30) days or more] equipment malfunction or shutdown of pollution control equipment, facility operation may be allowed to resume and continue to take place under an appropriate Department order, provided that the licensee demonstrates that such operation will be in compliance with all applicable ambient air quality standards and PSD increments, water quality standards and rules, solid waste rules, domestic wastewater rules and industrial wastewater rules. During such malfunction or shutdown, the operation of the facility shall comply with all other requirements of this certification and all applicable state and federal emission and effluent standards not affected by the malfunction or shutdown.

B. Records Maintained at the Facility

1. These Conditions of Certification or a copy thereof shall be kept at

the work site of the approved activity.

2. The licensee shall hold at the facility, or other location designated by this approval, records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation required by this approval, copies of all reports required by this approval, and records of all data used to complete the application for this approval. These materials shall be retained at least three (3) years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule. The licensee shall provide copies of these records to the Department upon request. If the licensee becomes aware of relevant and material facts that were not submitted or were incorrect in any report to the Department, such facts or information shall be promptly submitted or corrected.

C. Change in Discharge

All discharges or emissions authorized herein shall be consistent with the terms and conditions of this certification. The discharge of any regulated pollutant not identified in the application, or more frequently than, or at a level in excess of that authorized herein, shall constitute a violation of the certification. Any anticipated facility expansions, production increases, or process modifications which may result in new, different or increased discharges or pollutants, change in fuel, or expansion in steam generating capacity must be reported by submission of an application for amendment or modification pursuant to Chapter 403.516, F.S.

D. Noncompliance Notification

If, for any reason, the licensee does not comply with or is unable to comply with any limitation specified in this certification, the licensee shall notify the Southeast District Office of the Department by telephone during the working day that said noncompliance occurs. After normal business hours, the licensee shall report any condition that poses a public health threat to the State Warning Point at telephone number (850) 413-9911 or (850) 413-9912. The licensee shall confirm this situation to the DEP District Office in writing within seventy-two (72) hours of becoming aware of such conditions and shall supply the following information:

1. A description of the discharge and cause of noncompliance; and,
2. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and,
3. Steps being taken to reduce, eliminate and prevent recurrence of the non-complying event.

E. Adverse Impact

The licensee shall take all reasonable steps to minimize any adverse impact resulting from noncompliance with any limitation specified in this certification, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying event.

F. Right of Entry

The licensee shall allow authorized Department personnel, including authorized representatives of the Florida Department of Environmental Protection, Water Management Districts, and/or United States Environmental Protection Agency, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, and recognizing the security that must be maintained at the facility, depending upon the nature of the concern being investigated:

1. To enter upon the licensee's premises where an effluent source is located or in which records are required to be kept under the terms and conditions of this permit; and,
2. To have access to and copy any records required to be kept under the conditions of this certification; and,
3. To inspect and observe the permitted facilities, equipment, practices, or operations regulated or required under these Conditions to determine compliance with the approved plans, specifications and conditions of this certification; and,
4. To sample or monitor any substances or parameters at any location necessary to assure compliance with these Conditions or Department rules.

Anyone seeking access into the licensee's "Protected Area" (as defined pursuant to 10 CFR Part 73), must meet all of the requirements for access into the Protected Area and be escorted at all times while in the Protected Area. Further, pursuant to 10 CFR Part 100, the licensee shall have the authority to exclude or remove anyone from the Exclusion Area in case of emergency, to protect the public health and safety.

G. Enforcement

1. The terms, conditions, requirements, limitations and restrictions set forth in these Conditions of Certification are binding and enforceable pursuant to Sections 403.141, 403.161, 403.514. Any noncompliance with a Condition of Certification or condition of a federally delegated or approved permit constitutes a violation of chapter 403, F.S., and is grounds for enforcement action, permit termination, permit revocation, or permit revision. The Licensee is placed on notice that the Department will review this approval periodically and may initiate enforcement action for any violation of these conditions.

2. All records, notes, monitoring data and other information relating to the construction or operation of this certified source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the certified source arising under the Florida Statutes or Department rules, except where such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

H. Revocation or Suspension

This certification may be suspended or revoked pursuant to Section 403.512, Florida Statutes, or for violations of any of these Conditions of Certification. This approval is valid only for the specific processes and operations identified within the application and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this approval may constitute grounds for revocation and enforcement action by the Department.

I. Civil and Criminal Liability

1. This certification does not relieve the licensee from civil or criminal penalties for noncompliance with any conditions of this certification, applicable rules or regulations of the Department, or Chapter 403, Florida Statutes, or regulations thereunder.

2. This certification does not relieve the licensee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the licensee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

3. As provided in Subsections 403.087(7), 403.511, and 403.722(5), F.S., the issuance of this certification does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This approval is not a waiver of any other Department approval that may be required for other aspects of the total project under federally delegated programs.

4. Subject to Section 403.511, Florida Statutes, this certification shall not preclude the institution of any legal action or relieve the licensee from any responsibilities or penalties established pursuant to any other applicable State Statutes or regulations.

J. Property Rights

The issuance of this certification does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. The applicant shall obtain title, lease or right of use from the State of Florida, to any sovereign submerged lands utilized by the project.

K. Severability

The provisions of this certification are severable, and if any provision of this certification, or the application of any provision of this certification to any circumstances, is held invalid, the application of such provision to other circumstances and the remainder of the certification shall not be affected thereby.

L. Review of Site Certification

The certification shall be final unless revised, revoked or suspended pursuant to law. At least every five years from the date of issuance of certification the Department will review all monitoring data that has been submitted to it during the preceding five-year period for the purposes of determining the extent of the Licensee's compliance with the conditions of this certification and the environmental impact of this facility. Such review will be repeated at least every five years thereafter.

M. Procedural Rights

Except as specified in Chapter 403, F.S., or Chapter 62-17, F.A.C., no term or condition of certification shall be interpreted to preclude the post-certification exercise by the licensee of whatever procedural rights it may have under Chapter 120, F.S., including those related to rule-making proceedings.

N. Modification of Conditions

The conditions of this certification may be modified in the following manner:

1. Pursuant to Subsection 403.516(1), Florida Statutes, the Siting Board hereby delegates to the Secretary of the Department of Environmental Protection who further delegates to the Siting Office the authority to modify, after notice and opportunity for hearing, any conditions herein which would not otherwise require approval from the Siting Board.

2. This certification shall be automatically modified to conform to any subsequent amendments, modifications, or renewals made by the Department under a federally delegated or approved program to any separately issued Prevention of Significant Deterioration (PSD) permit, Title V air permit, or National Pollutant Discharge Elimination System (NPDES) permit for the certified facility. The Permittee shall send each party to the original certification proceedings (at the party's last known address as shown in the record of such proceeding) notice of requests for modifications or renewals of the above listed permits if the request involves a new or modified relief mechanism (e.g., mixing zone, variance, etc.) from standards, a relaxation of conditions included in the permit due to state permitting requirements, or the inclusion of less restrictive air emission limitations in the air permits. The Department shall notify all parties to the certification proceeding of any intent to modify conditions under this section prior to taking final agency action.

3. All other modifications to these conditions shall be made in accordance with Section 403.516, Florida Statutes.

4. Any modification to these conditions shall only affect the units or other facilities that are the subject of the modification request or the Department's proposed order of modification.

O. Transfer of Certification

This certification is transferable only upon Department approval in

accordance with Section 403.516, F.S., and Rules 62-17.211(3) and 62-730.300, F.A.C., as applicable. The licensee shall be liable for any noncompliance of the approved activity until the transfer is approved by the Department.

P. Safety

The overall design, layout, and operation of the facilities shall be such as to minimize hazards to humans and the environment. Security control measures shall be utilized to prevent exposure of the public to hazardous conditions. The applicable Federal Occupational Safety and Health Standards shall be complied with during construction and operation.

Q. Screening

The Licensee shall maintain existing screening of the site to the extent feasible through the use of aesthetically acceptable structures, vegetated earthen walls and/or existing or planted vegetation.

R. Toxic, Deleterious or Hazardous Materials

1. The Licensee shall not discharge to surface waters wastes which are acutely toxic, or present in concentrations which are carcinogenic, mutagenic, or teratogenic to human beings or to significant locally occurring wildlife or aquatic species. The Licensee shall not discharge to ground waters wastes in concentrations which, alone or in combination with other substances, or components of discharges (whether thermal or non-thermal) are carcinogenic, mutagenic, teratogenic, or toxic to human beings (unless specific criteria are established for such components in Section 62-520.420, F.A.C.) or are acutely toxic to indigenous species of significance to the aquatic community within surface waters affected by the ground water at the point of contact with surface waters.

2. The licensee shall report all spills of materials having potential to significantly pollute surface or ground waters and which are not confined to a building or similar containment structure, by telephone immediately after discovery of such spill. The licensee shall submit a written report within forty-eight hours, excluding weekends, from the original notification. The telephone report shall be submitted by calling the DEP District Office Industrial Wastewater Compliance/Enforcement Section. After normal business hours, the licensee shall contact the State Warning Point by calling (850) 413-9911 or (850) 413-9912. The written report shall include, but not be limited to, a detailed description of how the spill occurred, the name and chemical make-up (include any MSDS sheets) of the substance, the amount spilled, the time and date of the spill, the name and title of the person who first reported the spill, the size and extent of the spill and surface types (impervious, ground, water bodies, etc.) it impacted, the cleanup procedures used and status of completion, and include a map or aerial photograph showing the extent and paths of the material flow. Any deviation from this requirement must receive prior approval from the Department.

S. Noise

Construction noise shall not exceed noise criteria or any applicable

requirements of St. Lucie County.

T. Flood Control Protection

Any new facilities for the certified facilities or associated facilities shall be constructed in such a manner as to comply with the appropriate County flood protection requirements, which may include flood proofing or raising the elevation of the new or expanded facilities above the 100-year flood level. However, existing facilities are not required to be modified to comply with such flood control protection standards.

U. Historical or Archaeological Finds

If historical or archaeological artifacts, such as Indian canoes, are discovered at any time within the certified site, the licensee shall notify the DEP District office and the Bureau of Historic Preservation, Division of Historical Resources, R.A. Gray Building, Tallahassee, Florida 32399, telephone number (850) 487-2073.

V. Endangered and Threatened Species

Prior to start of construction, the licensee shall survey the portion of the certified site which may be affected by construction for endangered and threatened species of animal and plant life. Plant species listed as endangered or threatened by the federal government and plant species listed as endangered by the state shall be transplanted to an appropriate area if practicable. Gopher tortoises and any commensals on the rare or endangered species list shall be relocated after consultation with the FWC. A relocation program, as approved by the FWC, shall be followed. Entombment of gopher tortoises shall not be allowed.

W. Dispute Resolution

If a situation arises in which mutual agreement cannot be reached between the Licensee and an agency exercising its regulatory jurisdiction under these conditions, then the matter shall be immediately referred to the Division of Administrative Hearings (DOAH) for disposition in accordance with the provisions of Chapter 120, F.S.

X. Laboratories and Quality Assurance

1. The licensee shall ensure that all laboratory analytical data submitted to the Department, as required by this Certification, are from a laboratory which has a currently valid and Department approved Comprehensive Quality Assurance Plan (CompQAP) or a CompQAP pending approval for all parameters being reported, as required by Chapter 62-160, F.A.C.

2. The licensee shall ensure that all samples required pursuant to this certification are taken by an appropriately trained technician following EPA and Department approved sampling procedures and chain-of-custody requirements in accordance with Rule 62-160, F.A.C. All chain-of-custody records shall be retained on-site for at least three (3) years and made available to the Department immediately upon request.

3. Records of monitoring information shall include:
 - a) the date, exact place, and time of sampling or measurements;
 - b) the person responsible for performing the sampling or measurements;
 - c) the dates analyses were performed;
 - d) the person responsible for performing the analyses;
 - e) the analytical techniques or methods used; and,
 - f) the results of such analyses.

Y. Procedures for Post-Certification Submittals

1. The licensee shall provide within 90 days after certification a complete summary of those submittals identified in the Conditions of Certification where due-dates for information required of the licensee are identified. Such submittals shall include, but are not limited to, monitoring reports, management plans, wildlife surveys, etc. The summary shall be provided to the Siting Coordination Office and any affected agency or agency subunit to whom the submittal is required to be provided, in a sortable spreadsheet, via CD and hard copy, in the format identified below or equivalent. (62-17.191, F.A.C.)

Condition Number	Requirement and timeframe	Due Date	Name of Agency or agency subunit to whom the submittal is required to be provided

2. Purpose of Submittals: Conditions of Certification which provide for the post-certification submittal of information to DEP or other agencies by the licensee are for the purpose of facilitating monitoring by the Department of the effects arising from the certified facilities. This monitoring is for DEP to assure, in consultation with other agencies with applicable regulatory jurisdiction, continued compliance with the conditions of certification, without any further agency action.

3. Filings: All post-certification submittals of information by the licensee or copies of applications for separate federal permits which are to be issued by State agencies are to be filed with DEP Siting Office. Copies of each submittal shall also be simultaneously copied to any other agency indicated in the specific conditions

requiring the post-certification submittals.

4. **Completeness:** The DEP shall promptly review each post-certification submittal for completeness. This review shall include consultation with the other agencies receiving the post-certification submittal. For the purposes of this condition, completeness shall mean that the information submitted is both complete and sufficient. If the submittal is found to be incomplete, the licensee shall be so notified. Failure to issue such a notice within forty-five (45) days after filing of the submittal shall constitute a finding of completeness. (62-17.191, F.A.C.)

5. **Interagency Meetings:** Within sixty (60) days of the filing of a complete post-certification submittal, DEP may conduct an interagency meeting with other agencies which received copies of the submittal. The purpose of such an interagency meeting shall be for the agencies with regulatory jurisdiction over the matters addressed in the post-certification submittal to discuss whether reasonable assurance of compliance with the conditions of certification has been provided. Failure of any agency to attend an interagency meeting shall not be grounds for DEP to withhold a determination of compliance with these conditions nor to delay the time frames for review established by these conditions.

6. **Reasonable Assurance of Compliance:** Within ninety (90) days of the filing of a complete post-certification submittal, unless another date is specified herein, DEP shall give written notification to the licensee and the agencies to which the post-certification information was submitted of its determination whether there is reasonable assurance of compliance with the conditions of certification. If it is determined that reasonable assurance has not been provided, the licensee shall be notified with particularity and possible corrective measures suggested. Failure to notify the licensee in writing within ninety (90) days of receipt of a complete post-certification submittal shall constitute a determination of reasonable assurance of compliance.

V. CONSTRUCTION

A. Standards and Review of Plans

1. All construction at the certified facility shall be pursuant to the design standards presented in the application or amended application and the standards or plans and drawings submitted and signed by an engineer registered in the state of Florida. Review and approval or disapproval shall be accomplished in accordance with Chapter 120, F.S., or these conditions of certification as applicable. The licensee shall not proceed with construction without a written authorization from the Department.

2. The Department must be notified in writing and prior written approval obtained for any material change, modification, or revision to be made to an approved project during construction which is in conflict with these conditions of certification. If there is any material change, modification, or revision made to a project approved by the Department without this prior written approval, the project will be considered to have been constructed without departmental approval, the construction will not be cleared for service, and the construction will be considered a violation of the

conditions of certification.

3. Ninety (90) days prior to the anticipated date of first operation of a new facility, the Licensee shall provide the Southeast District and the Siting coordination Office of the Department with an itemized list of any changes made to the facility design and operation plans that would affect a change in discharge as referenced in Condition IV.C. since the time of the approval of the facility. This pre-operational review of the final design and operation shall demonstrate continued compliance with Department rules and standards.

4. Final drainage plans illustrating any new or modified stormwater treatment facilities and conveyances for construction phases of the certified facility site shall be submitted to the DEP Southeast District Manager and the SFWMD as applicable for review and approval prior to construction of any such conveyance or facility. The Department shall indicate its approval or disapproval within 60 days of the submittal. Analysis report of the produced ground samples shall be submitted 30 days before surface water discharge begins.

B. Control Measures

1. During construction and plant operation, necessary measures shall be used to settle, filter, treat or absorb silt containing or pollutant laden stormwater runoff to limit the suspended solids to 50 mg/l or less at the POD during rainfall periods not less than the 10-year, 24-hour rainfall, and to prevent an increase in turbidity to more than 29 NTUs above background in waters of the State. Control measures shall consist at the minimum, of filters, sediment traps, barriers, berms or vegetative planting. Exposed or disturbed soil shall be protected as soon as possible to minimize silt and sediment laden runoff. The pH shall be kept within the range of 6.0 to 8.5, after opportunity for reasonable mixing.

2. Any open burning in connection with initial land clearing shall be in accordance with Chapter 62-256, F.A.C., Chapter 51-2, F.A.C., Uniform Fire Code Section 33.101 Addendum, and any other applicable County regulation. Any burning of construction-generated material, after initial land clearing that is allowed to be burned in accordance with Chapter 62-256, F.A.C., shall be reviewed by the DEP Southeast District office in conjunction with the Division of Forestry and any other county regulations that may apply. Burning shall not occur if not approved by the appropriate agency or if the Department or the Division of Forestry has issued a ban on burning due to fire safety conditions or due to air pollution conditions.

3. Disposal of sanitary wastes from construction toilet facilities shall be in accordance with applicable regulations of the appropriate local health agency.

4. Solid wastes resulting from construction shall be disposed of in accordance with the applicable regulations of Chapter 62-701, F.A.C.

5. Construction noise shall not exceed noise criteria or any applicable requirements of St. Lucie County. To mitigate the effects of noise produced by any steam blowout of steam boiler tubes, the licensee shall conduct reasonable public

awareness campaigns prior to such activities to forewarn the public that may be affected by the noise of the estimated time and duration of the noise.

6. The licensee shall employ proper odor and dust control techniques to minimize odor and fugitive dust emissions. The applicant shall employ control techniques sufficient to prevent nuisance conditions which interfere with enjoyment of residents of adjoining property.

7. Directly associated transmission lines from the facility electric switchyard to existing transmission lines shall be maintained in accordance with the application and the appropriate state and federal regulations concerning use of herbicides. The Licensee shall notify the Department of the type of herbicides to be used at least 60 days prior to their first use.

8. Dewatering operations during construction shall be carried out in accordance with Rule 62-621.300(2), F.A.C.

C. Environmental Control Program

An environmental control program shall be established under the supervision of a Florida registered professional engineer or other qualified person to assure that all construction activities conform to applicable environmental regulations and the applicable conditions of certification. If a violation of standards, harmful effects or irreversible environmental damage not anticipated by the application or the evidence presented at the certification hearing are detected during construction, the Licensee shall notify the DEP Siting Office and Southeast District Office as required by Condition IV. D., Noncompliance Notification.

D. Reporting

Notice of commencement of construction shall be submitted to the Siting Coordination Office and the DEP Southeast District Office within fifteen (15) days of initiation. Starting three (3) months after construction commences, a quarterly construction status report shall be submitted to the DEP Southeast District Office. The report shall be a short narrative describing the progress of construction.

E. Construction in Waters of the State

No construction on sovereignty submerged lands shall commence without obtaining lease or title from the Department of Environmental Protection. Construction of intake and discharge structures should be done in a manner to minimize turbidity. Sheet piles or turbidity screens should be used if necessary to prevent turbidity in excess of 29 NTU above background beyond 150 meters from the POD and/or construction site.

F. Discharge and Intake Lines

1. Construct a temporary dune and use sheet piling to protect against wave damage when the dune is cut. Native plantings will be maintained as much as possible.

2. Survey the beach area subject to construction activities for sea turtle nests and relocate any present if construction takes place on the beach during the nesting season.

3. Dispose of dredge spoils at an approved onshore site.

4. Use sheet piling or other acceptable methods around the area being dredged to minimize siltation of the adjacent waters.

G Dike Removal

During construction of Unit 2 the dike around the mangrove area north of the discharge canal shall be opened up to Big Mud Creek by breaching the dike in three (3) places. Each breach in the dike shall be a minimum of ten feet (10') wide at the bottom and the bottom elevation of the breach shall not be higher than one foot below mean sea level (-1' MSL) or deeper than -3' MSL.

VI. SPECIFIC CONDITIONS

A. Air

Air emissions from the FPL St. Lucie plant shall remain below the "Major Source of Air Pollution" or "Title V Source" thresholds (as defined in 62-210.200, F.A.C.) subject to the terms and conditions of Federally Enforceable State Operating Permit (FESOP) #1110071-005-AF, and any subsequent modifications thereof, (attached as Appendix A) pursuant to 62-210.300(2)(b). At such time that FPL relinquishes ownership of or the Department denies renewal of permit #1110071-005-AF, or the St. Lucie Plant is no longer able to stay below the Title V Source thresholds, FPL shall submit an application to the Department's Division of Air Resource Management (DARM) for a Title V Air Operation Permit and/or other permits as required. The Siting Office shall be copied on all correspondence related to Federally Enforceable State Operating Permit (FESOP) #1110071-005-AF, subsequent modifications thereof including any Title V applications and related permit documentation.

B Water Discharges

1. Effluent Standards and Limitations

Any discharges into any waters of the State during construction and operation of Units 1 and 2 shall meet the standards set forth in Chapters 62-4, 62-160, 62-302, 62-601, 62-650 and 62-660, F.A.C., and any subsequent amendments except for variance granted pursuant to Sections 403.201(c) and 403.511(2), and the sections of NPDES permit FL0002208-003-IW1S (attached as Appendix B) applicable to Units 1 and 2 and any subsequent modifications, amendments or renewals, and the following;

2. Water Monitoring Program

A monitoring program shall be undertaken by Florida Power & Light Company on the receiving waters and area waters as generally described as follows:

a) Emergency Cooling Canal Monitoring

There shall be instituted a monitoring program to study the dissolved oxygen (D.O.) concentrations in Big Mud Creek and the Emergency Cooling Canal.

i. Monitoring of Tests - The dissolved oxygen (D.O.) of the water withdrawn from Big Mud Creek via the emergency cooling system intake shall be monitored during each test. If the results of the monitoring program should indicate that water containing a D.O. level of less than 4 mg/l is being withdrawn, then the D.O. level of the water in the discharge canal shall be monitored as well during each subsequent test. The results of each test will be reported to the Department in the next quarterly monitoring report.

ii. Corrective Measures - If the monitoring should indicate that water containing less than 2 mg/l of dissolved oxygen is being discharged to the Atlantic Ocean, a procedure will be developed and implemented to prevent the discharge of oxygen depleted water.

b) Water Monitoring Program Review

The results and analysis of the biological, chemical and physical monitoring program will be submitted to the Division of Environmental Permitting of the Department for review at the end of the first year after Unit 2 commences operation and each year thereafter to determine the necessity and/or extent of their continuation. The methods and procedures utilized in the monitoring program shall be approved by the Department and also be reviewed annually by the Department and Florida Power & Light.

3. Other Monitoring Programs

There shall also be implemented the pre-operational and post-operational environmental monitoring programs prescribed by the Nuclear Regulatory Commission and other Federal agencies. Copies of any reports required by such Federal agencies shall be submitted to the Department.

4. Defouling Operations

Ninety (90) days prior to conducting any defouling operations on intake or discharge lines, a plan of operation shall be submitted to the Department detailing when and how the defouling operation will take place. The defouling operation shall be conducted in such a manner that the water quality standards of Chapter 62-302, FAC, will not be violated.

5. Sanitary Wastes Disposal System

Sanitary wastes shall be collected and treated in accordance with Chapters 62-600, 62-601, 62-604, 62-610, 62-620 and 62-640, FAC, and DEP permits DO56-34536 and DO56-37127 or such permits as may be subsequently reissued or modified.

C. Environmental Resource Review

1. General Requirements

a) At least 48 hours prior to commencement of any activity authorized by these conditions, FPL shall submit to the Department an "Environmental Resource Permit Construction Commencement notice (Form No 62-343 900(3), FAC) indicating the actual start date and the expected completion date of construction.

b) When the duration of construction will exceed one year, FPL shall submit construction status reports to the Department on an annual basis utilizing an "Annual Status Report Form (Form No. 62-343 900(4), FAC). Status Report Forms shall be submitted the following June of each year.

c) Within 30 days after completion of construction of the permitted activity, FPL shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing the supplied "Environmental Resource Permit As-Built Certification by a Registered Professional" (Form No 62-343.900(5), FAC). The statement of completion and certification shall be based on on-site observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the Department that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor.

d) The operation phase of any activity allowed by these conditions shall not become effective: until FPL has complied with the requirements of condition (c) above, has submitted a "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" (Form No. 62-343.900(7), FAC); the Department determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the Department in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications Within the South Florida Water Management District - August 1995, accepts responsibility for operation and maintenance of the system.

e) Any surface water system shall be constructed as shown in the approved submitted drawings, plans and other documents. The licensee shall ensure that the conditions are explained to all construction personnel working on the project and shall provide each contractor and subcontractor with a copy of these conditions before the authorized work begins.

2. Independent Spent Fuel Storage Installation (ISFSI) Pad

The proposed activity involves the construction of an Independent Spent Fuel Storage Installation (ISFSI) pad at the St Lucie Power Station (PSL) on an

approximately 5.9-acre portion of the PSL property. The project involves the construction and operation of a surface water management system to serve the ISFSI.

FPL is hereby authorized to construct the work shown on the application and approved drawings, plans, and other documents on file with the Department (ERP#SI 56-0041384-003). Operation of the ISFSI surface water management system is not authorized except when determined to be in conformance with all applicable rules and with the general and specific conditions as specifically described herein.

a) Surface Water System Design:

i. *Proposed Facilities:* The proposed project involves the construction of the ISFSI and associated grading on an approximately 5.9 acre area portion of the PSL property. The ISFSI will serve as a facility for the interim storage of spent nuclear fuel from the power generation plant. The proposed ISFSI will be comprised of flat concrete pads where the casks will be stored. The ISFSI pad site is located in an area of the plant referred to as the "South 40". An existing drainage ditch (IWW) is located approximately 50 feet to the west of the site. The Intake Canal is located to the south (approximately 150 feet) and west. The proposed surface water management system includes a system of inlets, catch basins and pipes conveying stormwater flow to a sediment forebay and detention pond. The proposed sediment forebay will be about 1-ft deep and about 8,500 square feet in area. The forebay will be set with a bottom elevation of 8 ft MLW and discharge to the proposed detention pond via an 85-ft long riprap overflow weir with crest elevation of 9 ft MLW. A filtered orifice set at the bottom of the forebay will ensure the forebay stays dry.

The detention pond is to function as a wet pond, with a 4-ft deep permanent pool. The pond is about 85 ft wide by 256-ft long at the orifice invert elevation of 6.0 ft, and its side slopes are 4 horizontal to 1 vertical. The bottom of the pond is set at elevation 2.0 ft. An outlet control structure is proposed to contain a minimum 3-inch orifice, a 2-ft long "25-year" weir, and an overflow/drop inlet. The proposed detention pond will be about 22,000 square feet in area and about 8 ft deep (maximum). The pond will discharge to the intake canal via an outlet control structure.

ii. *Discharge Structure Information:* The outlet control structure is a multi-level outlet structure which contains:

3-inch diameter; orifice outlet at Elevation 6.0 ft MLW;

2-ft long "25-year" weir at Elevation 7.0 ft MLW;

Overflow weir / drop inlet at the top of the structure at Elevation 8.25 ft MLW.

iii. Design Storm Frequency: 25 year, 3 day

iv. Design Rainfall: 10.2 Inches

Basin	Allow Disch (cfs)	Method of Determination	Design Disch (cfs)	Design Stage (ft. MLW)
Project Site	30.7	Pre/post	19.9	8.6

v. Water Quality: The regulatory treatment volume equal of 2 5-inches of runoff over the project's impervious area

vi. Minimum Design Elevations: Minimum finish floor elevation is @ 18.0 feet which is above the 100-year, 3-day stage. The ISFSI pad design elevation (top of pad) was established to accommodate the storm surge and wave run-up associated with the Probable Maximum Hurricane.

b) Specific Conditions

i. Discharge facilities: 2-ft long "25-year" weir at Elevation 7.0 ft MLW; 3-inch diameter orifice outlet at Elevation 6.0 ft, MLW; Overflow weir/drop inlet at the top of the structure at Elevation 8.25 ft MLW; 5 - 10- inch discharge culverts to intake canal.

ii. Maintenance of Storm Drainage System: At a minimum, the following maintenance shall be Conducted:

Catch Basins and Manholes: A monitoring program, including inspection and monitoring of sediment accumulation, will be implemented for catch basins and manhole structures. At a minimum, catch basins will be inspected monthly and cleaned on an as-needed basis (when sediment accumulation is within 1-foot of the outlet invert). Collection of accumulated sediment and hydrocarbons will be accomplished by means of vacuum pumping. Disposal of accumulated sediment and hydrocarbons should be performed in accordance with applicable local, state, and federal guidelines and regulations.

Outlet Control Structure: The outlet control structure should be inspected for accumulation of sediment and debris, after storm events which result in flow over the 25-year weir, and periodically to ensure its effective performance. Sediment and debris should be removed as needed.

iii. Additional Water Quality Requirement: The Department reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

3. Switchyard Expansion

The project entails the expansion of the existing St. Lucie Switchyard to be constructed on 1.10 acres of land. These conditions involve the construction and operation of a surface water management system associated with the expansion on approximately 1.1 acres (ac.). The surface water management system will consist of a dry detention system, where water quality and storm attenuation will be provided prior to the discharge to the Big Mud Creek via a control structure.

FPL is hereby authorized to construct the work shown on the application and approved drawing(s), plans, and other documents on file with the Department (ERP#SI 56-0252569-001). Operation of the switchyard surface water management system is not authorized except when determined to be in conformance with all applicable rules and with the specific conditions as specifically described herein.

a) Surface Water System Design:

Project Area: 1.10 acres.

Drainage Area: 1.10 acres

Drainage Basin: Indian River and Big Mud Creek

i. *Proposed Facilities:* The stabilized pad with gravel cover will be sloped to drain runoff to the proposed dry detention pond. An additional 50% of treatment will be provided as a result of discharge to the Indian River, which is an Outstanding Florida Water (OFW). The detention will be provided for the expansion site only. Overflow of this pond will continue to flow north to the Big Mud Creek Basin.

ii. *Applicable Land Area:* The total project site drainage area is 1.10 acres and it includes the following:

Land Use	Gravel (ac.)	Open Space (ac.)	DDA (ac.)
Site	0.56	0.28	0.26

* DDA = Dry Detention Area

iii. Basin Information:

Basin	Project Area (ac.)	Drainage Area (ac.)	WSWT Elev. (ft. NGVD)	Normal/Dry Ctrl Elev. (ft. NGVD)	Method of Determination
Site	1.10	1.10	3.0	3.0	Soil borings

iv. *Discharge Rate:* The proposed surface water management system has been designed for the 25-year, 3-day storm.

v. Discharge Structure:

Str.#	Description	Crest Elev. (ft. NGVD)	Discharge
Structure	Type E Inlet - Rectangular w 2'	5.3	To Big Mud Creek via 268 lf HDPE

Basin	Allow Disch. (cfs)	Method of Determination	Design Disch. (cfs)	Design Stage (ft. NGVD)
Site	4.51	Pre/post	2.45	5.78

vi. Water Quality: Water quality treatment volume of 150% over the entire site will be provided by dry detention system.

Basin	Treatment Method	Volume Required (ac.-ft.)	Volume Provided (ac.-ft.)
Site	dry detention system	0.13	0.13

vii. Finished Floors: Proposed minimum finished stabilized pad elevation has been set at 13.41ft. NGVD, which is above the 100-year, 3-day stage calculated at 8.89 ft. NGVD.

b) Specific Conditions:

i. *Surface Water Management System*: The surface water management system shall be constructed in accordance with approved drawings/submittals. The stormwater management system shall be designed for dry pretreatment and total on-site detention for the 25-year, 3-day design storm event. FPL shall ensure that these conditions are explained to all construction personnel working on the project and for providing each contractor and subcontractor with a copy of this license before the authorized work begins.

ii. *Perpetual Maintenance*. FPL shall be responsible for perpetual operation and maintenance of the surface water management system. FPL shall maintain the stormwater system to insure that it operates as designed. The sediment basins shall be maintained (cleaned out) by the operator. The operator is responsible for maintaining a maintenance log, that documents when maintenance work was last performed (Form # 62-343.900(6) FAC).

iii. *Perimeter Grade*: Perimeter grades around the proposed site shall be set at the minimum elevation in order to prevent runoff from the

developed areas of the project from short-circuiting the SWMS, and draining off-site. Approval from FDOT or a Municipal Connection permit may be required if stormwater from the driveway areas is not fully retained.

iv. Dewatering. No dewatering shall be conducted without the appropriate authorization. Dewatering activity may require an Industrial Wastewater authorization (Tim Powell @ 561/681-6684, DEP/West Palm Beach) and SFWMD approval.

v. Additional Requirements: The Department reserves the right to require that water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

vi. Exotic Species: FPL shall maintain the switchyard expansion site and construction site, free from the invasion or establishment of the plants listed on The Florida Exotic Pest Plant Council's (EPPC) 2001 List of Florida's Most Invasive Species. The landscaping within the project site shall not include plants that are on the EPPC list. Ensure that environmentally safe application measures are upheld if herbicides are used.

vii. On-site Construction: The work authorized by this permit shall not be conducted on any property, other than that owned by the permittee, without the prior written approval of that property owner.

D. Vegetation Dunes and Wildlife

1. Vegetation

Native vegetation will be planted at the earliest feasible time to replace any portion of the light screen installed behind the beach dune for Unit No. 1 that is disturbed for Unit No. 2 construction. Facility lighting added for Unit No. 2 will be shielded or directed to minimize sky shine. Rather than planting Australian Pine, the licensee shall use native vegetation such as live oak, native figs or wild tamarind in order protect the barrier sand dune and to act as a light shield if needed to protect turtle hatchlings, unless directly prohibited by the Nuclear Regulatory Commission.

2. Dunes

In restoring the ocean dune to its original condition after installation of the Unit No. 2 discharge and intake lines, the licensee will replant the dune at the earliest feasible time with dune stabilizing plants native to the area, such as sea oats (Uniola paniculata) or sea grape (Coccoloba uvifera).

3. Facility Lighting

Elevated plant lighting will be shutdown to the extent possible during passage of storm fronts to minimize bird kills.

4. Edible Refuse

Edible refuse will be carefully disposed of to prevent accessibility by raccoons with resulting increased turtle predation.

5 Fish Entrapment

Fish entrapment shall be monitored in the intake canal even during the time only one unit is in operation. If unusually large numbers of fishes are entrapped, the licensee will furnish the Department a plan to mitigate such entrapment.

E. Water Withdrawal for Emergency Cooling System

The withdrawal of water for the testing and functioning of the emergency cooling systems for the St. Lucie Plant from that portion of the Indian River known as Big Mud Creek shall be in accordance with the following:

1. Testing of the alternate emergency cooling systems not to exceed 4,000,000 gallons per year for Unit No. 2 when combined with Unit No. 1.
2. Flow of water in the alternate emergency cooling system, in the event that the main source of emergency cooling water from the Atlantic Ocean is not available, shall not exceed 60,000 gallons per minute, and may continue until the main source of emergency cooling water has been restored.
3. The licensee shall notify the Southeast District Office of the Department prior to each test of the emergency cooling canal system, and shall also notify the Department of any use of the emergency cooling canal system lasting more than twelve (12) hours.

F. Radiological

1. Decommissioning

Upon application to the NRC for authority to decommission the plant, the applicant shall provide the Department a copy of the plan submitted to NRC for radioactive materials removal and/or containment for the site. Should the Department's review of the written plan reveal deficiencies, the Department shall bring such deficiencies to the attention of the applicant and the NRC and maintains the right to initiate a request, consistent with NRC procedural requirements that remedial action be taken to correct the deficiencies.

2. Emergency Plan

The applicant shall work with the State Division of Emergency Management in the Department of Community Affairs and the State Department of Health, Bureau of Radiation Control, and St. Lucie County in biennially updating the emergency procedures and evacuation planning as necessary, including but not limited to improvements in communication and warning systems and in updating predicted plume overlays.

3. Radiological Release Limitations

The recommendation in the Power Plant Site Certification Analysis that certification be issued is based in part upon the fact that in order to obtain a construction permit and operating license from NRC, the applicant must comply with all applicable regulations, requirements, and standards of the U.S. Nuclear Regulatory

Commission (NRC) which limit the release of radioactive materials in solid waste, liquid or gaseous effluents to the environment. The above NRC regulations, requirements and standards include the following:

a) Standards for Protection Against Radiation, U.S. Nuclear Regulatory Commission Rules and Regulations, Title 10, Chapter 1, Part 20, Code of Federal Regulations, as presently in effect or hereafter amended.

b) Limitations and conditions for the controlled release of radioactive materials in solid, liquid and gaseous effluents contained in the Radiological Environmental Monitoring Program required by Title 10, 10 CFR 50, Appendix I as presently in effect or hereafter amended.

The Department has the statutory duty to insure that the location and operation of St. Lucie 1 and 2 will produce minimal adverse effects on human health, the environment, the ecology and the land and its wildlife, and the ecology of State waters and their aquatic life. (Fla. Stat. Section 403.502.) The Department has determined that the construction and operation of St. Lucie 1 and 2 must comply with the above radiological release limitations in order to minimize adverse effects on human health and the environment. This certification is conditioned upon full compliance by the applicant with the applicable above regulations, requirements and standards.

The NRC has the duty and responsibility imposed by statute, to enforce compliance by the applicant with NRC standards and technical specifications, to assure that the construction and operating of St. Lucie 1 and 2 will be in accord with the common defense and security and will provide adequate protection to the health and safety of the public. See Section 103(d) of the Atomic Energy Act, 42 U.S.C. section 2133(d) (1970); accord. 42 U.S.C. section 2332(a) (1970) including any revisions.

However, should the Department determine that the NRC has failed to discharge its duty and responsibility, it may bring any such deficiencies to the attention of the applicant and the NRC, and maintains the right to initiate a request, consistent with NRC procedural requirements, that appropriate enforcement action be taken to correct the deficiencies. Should such appropriate enforcement action not be forthcoming, and the Department determines that such enforcement action is necessary to insure that adverse effects on human health and the environment by continued operation of St. Lucie 2 are minimized, the Department reserves the right to take appropriate State enforcement action pursuant to Chapter 403, Florida Statutes, against the applicant for violation of any of the above radiological release limitations on the grounds that the violation of such limitations constitutes a violation of this express condition of certification.

4. Monitoring

The applicant shall comply with the most recent Department of Health Environmental Surveillance Agreement or its equivalent or future replacement. Should the Department of Health determine that additional monitoring is required, it may take appropriate action to require such monitoring by modification of this condition of certification.

5. *Interagency Agreement*

The applicant shall comply with the State of Florida Radiological Emergency Plan dated May 1975 or as subsequently revised, and the Radiological Response Agreement between the Florida Department of Health and the Florida Power and Light Company dated January 16, 1974, as attached and incorporated herein as Appendix B or as may be subsequently revised.

6. *Reservation of Legal Rights*

The Department recognizes that the NRC has exclusive authority in certain areas related to the construction and operation of St. Luce Units 1 and 2. These conditions of certification do not limit, expand or supersede any federal requirement or restriction under federal law, regulation, or regulatory approval or license. Compliance with the conditions herein does not constitute a waiver of the applicant's responsibility to comply with all applicable NRC requirements. Applicant's acceptance of these radiological conditions of certification does not, in and of itself, constitute a waiver by Applicant of any claim that any such radiological conditions are invalid under the doctrine of federal preemption or otherwise by law.

VII. *FLORIDA BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND*

The licensee is hereby advised that Section 253.77, FS states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the licensee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

A. *Intake Pipe Easement*

The Florida Board of Trustees of the Internal Improvement Trust Fund has issued a right of way easement, No. 26211(3177-56) to FPL for a subaqueous pipeline installation on, under and across sovereignty submerged lands in St. Lucie County.

B. *Works in Navigable Waters*

FPL may perform certain works in the navigable waters of the State of Florida as approved by the State of Florida Board of Trustees of the Internal Improvement Trust Fund at the meeting of March 18, 1975. The applicant is authorized to excavate and backfill two trenches 2,450 feet apart in the Atlantic Ocean; two subaqueous intake pipes to be installed in the south trench ending 1,200 feet offshore, buried 20 feet below grade at the shoreline and 13 feet below grade at the offshore end; one subaqueous discharge pipe and Y-type, diffuser to be installed in the north trench ending 1,200 feet offshore, buried 26 feet below grade at the shoreline and exposed at the offshore end; ocean bottom in the immediate vicinity of the discharge to be protected against scour by riprap or other appropriate material. In Sections 9 and 15, Township 36 South, Range 41 East, Hutchinson Island, Atlantic Ocean, St. Lucie County. Permit extension

approved for one year subject to the stipulation that periodic hydrographic monitoring shall be performed and the data provided to Department of Natural Resources for review.

Approval subject to the stipulation that periodic hydrographic monitoring shall be performed and the data provided to Department of Natural Resources (no Department of Environmental Protection) for review.

C. Environmental Resource/Sovereign Submerged Lands - General Requirements

1. No activities other than those set forth in these conditions are authorized. Any additional activities on state owned sovereignty submerged lands must receive further consent from the Governor and Cabinet, sitting as the Board of Trustees of the Internal Improvement Trust Fund (hereinafter The "Board") or their properly designated agent.

2. Grantee agrees that all title and interest to all lands lying below the historical mean high water line or ordinary high water line are vested in the Board, and shall make no claim of title or interest in said lands by reason of the occupancy or use thereof.

3. Grantee agrees to use or occupy the subject premises for those purposes specified herein, and Grantee shall not permit the premises or any part thereof to be used or occupied for any other purpose or knowingly permit or suffer any nuisances or illegal operations of any kind on the premises.

4. Grantee agrees to maintain the premises in good condition in the interest of the public health, safety and welfare. The premises are subject to inspection by the Board or its designated agent at any reasonable time.

5. Grantee agrees to indemnify, defend and hold harmless the Board and the State of Florida from all claims, actions, lawsuits and demands arising out of this consent.

6. No failure, or successive failures, on the part of the Board to enforce any provision, waiver or successive waivers on the part of the Board of any provision herein, shall operate as a discharge thereof or render the same inoperative or impair the right of the board to enforce the same in the event of subsequent breach.

7. Grantee binds itself and its successors and assigns to abide by the provisions and conditions set forth herein. In the event Grantee fails or refuses to comply with the provisions and conditions of this consent, the consent of use may be terminated by the Board after written notice to the Grantee. Upon receipt of such notice, the Grantee shall have thirty (30) days in which to correct the violations. Failure to correct the violations within this period shall result in the automatic revocation of this Consent.

8. All costs, including attorneys' fees, incurred by the Board in enforcing the terms and conditions of this consent shall be paid by the Grantee.

Grantee agrees to accept service by certified mail of any notice required by Chapter 18-14, Florida Administrative Code, and further agrees to notify the Board in writing of any change of address at least ten days before the change becomes effective.

9. Grantee agrees to assume responsibility for all liabilities that accrue to the sovereignty submerged land or to the improvements thereon, including any and all drainage or special assessments or taxes of every kind and description which are now or may be hereafter lawfully assessed and levied against the property during the effective period of this consent

10. Grantee agrees any dispute arising from relating to this consent shall be governed by the laws of Florida and initiated only in Leon County, Florida.

11. In the event that any part of the structure(s) consented to herein is determined by a final adjudication issued by a court of competent jurisdiction to encroach on or interfere with adjacent riparian rights, Grantee agrees to either obtain written consent for the offending structure from the affected riparian owner or to remove the interference or encroachment within 60 days of the date of the adjudication. Failure to comply shall constitute a material breach of this consent and shall be grounds for its immediate termination.

12. Authorizations convey no title to sovereignty submerged land or water column, nor do they constitute recognition or acknowledgment of any other person's title to such land or water.

13. Authorizations may be modified, suspended or revoked in accordance with their terms or the remedies provided in Sections 253.04 and 258.46, FS, or Chapter 18- 14, FAC

14. Structures or activities shall be constructed and used to avoid or minimize adverse impacts to sovereignty submerged lands and resources.

15. Construction, use, or operation of the structure or activity shall not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, FAC.

16. Structures or activities shall not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity shall be modified in accordance with the court's decision.

17. Structures or activities shall not create a navigational hazard.

18. Structures shall be maintained in a functional condition and shall be repaired or removed if they become dilapidated to such an extent that they are no longer functional. This shall not be construed to prohibit the repair or replacement subject to the provisions of Rule 18-21.405, FA C., within one year, of a structure damaged in a discrete event such as a storm, flood, accident, or fire.

19. Structures or activities shall be constructed, operated, and maintained solely for water dependent purposes, or for non-water dependent activities

authorized under paragraph 18-2 1.004(l)(f), FAC, or any other applicable law.

D. Discharge Piping Y-Diffuser

The purpose of the project is to repair ocean scouring caused by the ocean discharge Y diffuser pipe. The project is located within the Atlantic Ocean, Class III Waters, approximately 1200 feet east of the FPL St. Lucie Plant.

As staff to the Board of Trustees, the Department has reviewed the activity described above, and has determined that the activity qualifies for a consent to use sovereign, submerged lands, as long as the work performed is located within the boundaries as described herein and is consistent with the terms and conditions herein. Therefore, consent is hereby granted, pursuant to Chapter 253.77, F.S., to perform the activity on the specified sovereign submerged lands.

FPL is hereby authorized to construct the work shown on the application and approved drawing(s), plans, and other documents on file with the Department (ERP #56-0041384-001). These conditions and authorization to use of sovereign submerged lands are subject to the limits, conditions, and locations of work shown in the drawings on file with the Department. Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and conditions as specifically described in the General Consent Conditions and Specific Conditions below.

1. Specific Conditions

a) After selection of the contractor to perform the authorized activities and prior to the initiation of any work authorized by these conditions, the licensee (or authorized agent) and the contractor shall attend a preconstruction conference with a representative of the Department. FPL shall contact the Department by phone or in writing to schedule the conference: Department of Environmental Protection, Southeast District Branch Office, Submerged Lands & Environmental Resources Program, Compliance and Enforcement Section, 772-398-2806 1801 SE Hillmoor Drive, Ste C 204, Port St Lucie, FL 34952

b) FPL shall comply with the standard manatee protection construction conditions Listed in the "Standard Manatee Construction Conditions, June 2001."

c). At least one person shall be designated as a manatee and marine turtle observer when in-water work is being performed. That person shall have experience in manatee and marine turtle observation, and be equipped with polarized sunglasses to aid in observation. The observer must be on site during all in-water construction activities and will advise personnel to cease operation upon sighting a manatee or marine turtle within 50 feet of any in-water construction activity. Movement of a work barge, other associated vessels, or any in-water work shall not be performed after sunset, when the possibility of spotting manatees is negligible.

d) FPL shall obtain a public easement for the pipeline and associated diffuser scour protection area no later than October 30, 2004.

e) The pipe will be shored with Hydrocast units. This involves placing a fabric bag in place under the pipe, held in place with cinder blocks. When the bags are in place, concrete (2000-psi minimum) will be mixed on the barge and pumped through a hose to a diver. The Hydrocast units will be placed beginning from the westernmost part of the void and working toward the end of the pipe. After the Hydrocast units are in place, divers will place ports in selected areas that may still have voids remaining. These ports will be installed by cutting holes in the sheet pile wall and welding plates over the bores. The concrete pump hose will be attached to the ports, and concrete will be pumped into the remaining voids.

f) The scoured area will be stabilized using Armorflex mats. These Mats will be rigged and lowered from the deck of the barge. Surface supplied divers will direct the crane operator once the units have entered the water.

g) The leading edge of the mat (in front of the discharge pipes) will be pinned by the outermost Hydrocast bag supporting the pipe cantilever. The perimeter of the mats will be anchored using nylon revetment cable loops tied to driven anchors (4 feet minimum) or equivalent rock anchors if 4-foot depth cannot be obtained.

Factory edge mat joints shall be woven together using cable pigtails. Non-factory edge joint shall be woven together using cable pigtails and backfilled with tremie concrete.

E. Intake Defouling

The purpose of the project is to remove approximately 1,150 cubic yards (total) of material from three individual offshore intake pipes that supply cooling water to the St. Lucie power plant facility. Debris and organic material has accumulated within the pipes limiting intake flow to the facility. Spoil material removed from the intake pipes will be deposited in scour areas adjacent to the velocity caps. The 12 linear scour areas adjacent to the velocity caps are approximately 65-feet long by 15-feet wide and between 20-feet to 28-feet deep.

As staff to the Board of Trustees, the Department has reviewed the activity as described above, and has determined that there is no objection for the project being constructed on sovereign submerged lands as long as the work performed is located within the boundaries of BOT Easement # 26211(3177-56) as described herein, and is consistent with the terms and conditions herein. Therefore, consider this to also constitute the authority sought under section 253 .7, FS, to perform the activity on the specified sovereign submerged lands.

FPL is hereby authorized to construct the work shown on the application and approved drawing(s), plans, and other documents on file with the Department (ERP #56-0041384-006). These conditions and authorization to use sovereign submerged lands is subject to the limits, conditions, and locations of work shown in the drawings on file with the Department. Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and conditions General Conditions and Specific Conditions below.

Specific Conditions:

- a) If the approved drawings conflict with the specific conditions, then the specific conditions shall prevail.
- b) The work authorized by this license shall not be conducted on any property, other than that owned by the licensee, without the prior written approval of the property owner.
- c) After selection of the contractor to perform the authorized activities and prior to the initiation of any work authorized by these conditions, FPL (or authorized agent) and the contractor shall attend a preconstruction conference with a representative of the Department. FPL shall contact the Department by phone or in writing to schedule the conference: Department of Environmental Protection, Southeast District Branch Office, Submerged Lands & Environmental Resources Program, Compliance and Enforcement Section, 772-398-2806 1801 SE Hillmoor Drive, Ste C 204, Port St Lucie, FL 34952.
- d) FPL shall be responsible for ensuring that these conditions are explained to all construction personnel working on the project, and each contractor and subcontractor are provided with a copy of these conditions before construction begins.
- e) Best management practices shall be used at all times during the debris removal activities to minimize turbidity and to ensure that turbidity levels do not exceed the State water quality standard for turbidity in Class III marine waters (29 nephelometric turbidity units (NTUs) above background levels) described in Rule 62-302, F.A.C.
- f) All debris shall be placed in the scour areas adjacent to the velocity caps. If the scour areas are not sufficient to contain all debris material at or below grade, the material shall be removed from state lands and deposited in an appropriate upland site.
- g) FPL shall comply with the standard manatee protection construction conditions listed in the attachment, "Standard. Manatee Construction Conditions, 2005"

VIII. SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

A. General Water Use for Aquifer Remediation

FPL is authorized to withdraw groundwater from the Surficial Aquifer System for the purpose of aquifer remediation. Contaminated groundwater is recovered, treated in an approved treatment system (FDEP 568630677), and discharged back to the evaporation/percolation ponds. FPL shall adhere to the following limiting conditions:

- 1. Water use classification: Industrial water supply
- 2. Source classification: Ground Water from Surficial Aquifer System
- 3. Annual allocation shall not exceed 4 38 MG

Maximum monthly allocation shall not exceed 0 4464 MG.

4. In the event of a declared water shortage, water withdrawal reductions will be ordered by the District in accordance with the Water Shortage Plan, Chapter 40E-21, F.A.C. The licensee is advised that during a water shortage, pumpage reports shall be submitted as required by Chapter 40E-21, F.A.C.

5. Withdrawal Facilities:

Ground Water - Existing:

4 - 6" X 30' X 2 GPM Wells Cased To 10 feet.

Ground Water - Proposed:

1 - 8" X 30' X 2 GPM Well Cased To 10 feet

6. Licensee shall mitigate any adverse impacts to existing legal uses as a consequence of withdrawals permitted herein. When adverse impacts occur, or are imminent, the SFWMD reserves the right to curtail withdrawal rates. Adverse impacts are:

a) reduction in well water levels that impairs the ability of an adjacent well, including a domestic well, lawn irrigation well, or public water supply well, to produce water by 10% or greater;

b) significant reduction in levels in an adjacent water body, such as a lake, pond, or a canal system that impairs the ability to produce water by 10% or greater;

c) saline water intrusion or induced movement of pollutants into the water supply of an adjacent water use, resulting in a significant reduction in water quality; and

d) change in water quality caused by the licensee that results in significant impairment or loss of use of a well or water body.

7. Licensee shall mitigate any adverse impact to existing off-site land use as a consequence of withdrawals permitted herein. If increased withdrawals cause an adverse impact on existing land use, the SFWMD reserves the right to curtail future withdrawal rates. Adverse impacts are:

a) significant reduction in water levels in an adjacent surface water body, including impoundments, to the extent that the designed function of the water body is impaired;

b) land collapse or subsidence caused by reduction in water levels; and

c) damage to crops and other types of vegetation.

8. If adverse impacts occur to natural resources as a result of the Licensee's water withdrawals, the Licensee shall mitigate for such impacts. When adverse impacts occur, or are imminent, SFWMD reserves the right to curtail withdrawal

rates. Examples of adverse impacts are:

- a) reduction in ground water levels that results in significant lateral movement of the fresh water/saltwater interface;
- b) reduction in water levels that adversely impact the hydroperiod of protected wetland environments;
- c) significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond;
- d) induced movement or induction of pollutants into the water supply resulting in a significant reduction in water quality; and
- e) significant damage to the natural system including damage to habitat for rare or endangered species.

9. If any of these conditions are violated, the conditions shall be subject to review and possible modification, enforcement action, or revocation.

10. Authorized representatives of the SFWMD shall be permitted to enter, inspect, and observe the permitted system to determine compliance with special conditions.

11. The licensee is advised that these conditions do not relieve any requirement to obtain all necessary federal, state, local and special district authorizations.

12. These conditions do not convey any property right to the licensee, nor any rights and privileges other than those specified in the conditions and Chapter 40E-2, Florida Administrative Code.

13. Permittee shall submit all data as required by the implementation schedule for each of the limiting conditions to: S.F.W.M.D., Supervising Hydrogeologist - Post-Permit Compliance, Water Use Regulation Dept. (4320). P.O. Box 24680, West Palm Beach, FL 33416-4680

IX. FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

A. Scientific Collecting/Institutional Authorizations

FPL shall maintain and comply with a current Scientific Collection/Institutional permit, as applicable for salvaging of non-listed wildlife species at the St. Lucie Plant, issued by the State of Florida Fish and Wildlife Conservation Commission. A copy of the required permit/authorization shall be made available at the St. Lucie plant site. [68A-9.002, 68A-25.002, 68A-27.003-.005] .

B. Special Activity License (SAL)

1. The following conditions authorize designated personnel to temporarily possess marine organisms, included prohibited species, captured within the intake canal of the Florida Power & Light St. Lucie Plant with waiver of seasonal, fishery and area closures, size and bag limits. No marine organisms shall be collected at the

St. Lucie Plant without current authorization from FWC.

2. Future authorizations and/or renewals must be obtained every 3 years beginning February 1, 2011. Future authorizations and renewals are contingent upon the fulfillment by FPL of all reporting requirements listed in these conditions.

3. *Purpose:* Collection of marine organisms for scientific research purposes pursuant to 688-8, F A C

4. *Project Title:* Tag, Release and Recapture of Fish in the St Lucie Power Plant.

5. *Law Enforcement Notification:* The holder of a Special Activity License (SAL) must notify the nearest Commission Law Enforcement Dispatch Center not later than 24 hours prior to conducting activities under a SAL. Notification may consist of a float plan detailing locations, dates, and times of activities. Deviations from the float plan are permitted only after 24-hour advance notification to the nearest Commission Law Enforcement Dispatch Center. Float plans are valid for the duration of the SAL unless rescinded by the SAL holder.

6. *Authorized Locations:* Collections must occur within the intake canals of the Florida Power & Light Plant in St. Lucie County and organisms are to be released outside of intake canals within the waters of St Lucie County, with the following exceptions:

a) This license does not authorize any activity outside of state waters,

b) This license does not authorize any activity within any state or federal park,

c) This license does not authorize any activity within any Manatee Limited Entry Area (No Entry or Motorboat Prohibited Zones - list attached to this license),

7. *Authorized Personnel:* Those persons listed on the most recent SAL application and currently approved by FWC.

8. *Authorized Activities:* Authorized to temporarily possess marine organisms, included prohibited species, captured within the intake canal of the Florida Power & Light Plant, St. Lucie County with waiver of seasonal, fishery and area closures, size and bag limits. Organisms must be released alive and unharmed outside of intake canals within the waters of St. Lucie County once they have been identified, measured, catalogued, photographed and tagged.

This license does not authorize the possession of federally endangered species unless a NMFS Section 10 Permit has been obtained.

9. *Authorized Gear* (for use within intake canals only):

a) Up to four (4) lobster traps, 32" x 23" x 16".

b) Up to four (4) fish traps, 48" x 36" x 24" with openings

measuring 6" x 12' See attached document regarding requirements for the construction, use, tending and marking of fish traps when used pursuant to an SAL in state waters.

c) Up to twenty (20) Witham collectors, measuring 12" x 1" x 12" to collect post-larval (pueruli) lobsters.

d) Hand held nets.

e) Cast nets, up to 14' stretched length.

f) Hook and line.

g) Hand collection.

10. Prohibited Activities:

a) The following are considered Prohibited Species and may not be harvested or possessed unless authorized by a Special Activity License issued specifically for activities involving prohibited species: Goliath Grouper (*Epinephelus itajara*), Nassau Grouper (*Epinephelus striatus*), Sawfish (*Pristis, spp.*), Basking shark (*Cetorhinus maximus*), Whale shark (*Rhincodon typus*), White shark (*Carcharodon carcharias*), Sand Tiger shark (*Odontaspis taurus*), Bigeye Sand Tiger shark (*Odontaspis noronhai*), Spiny Dogfish (*Squalus acanthias*), Spotted Eagle Ray (*Aetobatis narinari*), Manta Ray (*Genus Manta and Mobula*), Sturgeon (*Family Acipenseridae*), Longspine Urchin (*Diadema antillarum*), Bahama Starfish (*Oreaster reticulatis*), Common Sea Fan (*Gorgonia ventalina*), Venus Sea Fan (*Gorgonia flabellum*), Queen Conch (*Strombus gigas*), Fire Corals (*Genus Milliporina*), Hard and Stony Corals (*Order Scleractinia*), and non-aquacultured Live Rock.

b) Special Activity Licenses do not authorize the collection of marine mammals, marine turtles, or any species listed as endangered or threatened by the "Official Lists of Endangered and Potentially Endangered Fauna and Flora in Florida", maintained and published by the FWC.

c) Marine organisms harvested pursuant to a SAL may not be sold or consumed unless specified otherwise on this license.

11. General Conditions:

a) Authorized personnel conducting activities pursuant to a Special Activity License (SAL) must have the original license or a copy authenticated by the Florida Fish and Wildlife Conservation Commission (FWC) with all attachments specified on the license, in his/her possession while conducting any activities requiring the SAL.

b) Special Activity Licenses may be suspended or revoked if authorized personnel listed on the permit have violated FWC rules or policies, terms or conditions of the license, or have submitted false or inaccurate information on their application.

c) Special Activity Licenses are non-transferable.

12. Reporting Requirements: Future SALs and SAL renewals are

contingent upon successful fulfillment of reporting requirements In order to complete the licensing process and fulfill reporting requirements, the following documentation must be submitted to the Commission:

a) An activity report detailing all SAL-related harvest or sampling activities that resulted in the permanent retention of marine organisms. The activity report is a report other than any publications or technical, monitoring, or final reports. The activity report must include common and scientific name of the marine organisms harvested, numbers and sizes harvested, locations of harvest by county, and any mortalities that may have occurred. The activity report for a Scientific Research SAL involving prohibited species must also include the specific harvesting gear used and the current disposition of the organism. If mortality of a prohibited species occurred during harvest or subsequent possession, the report must indicate the cause of death if known and the disposition of the prohibited species. If SAL-related activities did not result in the permanent retention or mortality of any marine organism, the SAL holder must submit a statement to that effect. The activity report or statement must be submitted within 30 days of expiration of the license.

b) A copy of any publications, technical, monitoring, or final reports that were generated as a result of work conducted pursuant to the SAL. These reports must include the notation that research was conducted pursuant to the specific Commission Special Activity License, and must be submitted upon completion or publication.

c) A SAL holder who is conducting biomedical research activities involving the collection of horseshoe crabs to remove blood and return the animal to the area of collection alive, must file his or her annual report pursuant to 68B-46 002(3)(b)3 e , FAC.

C. Marine Turtle Authorizations

1. Any person contracted by FPL or allowed on St. Lucie property to conduct activities dealing with marine turtles on the FPL St. Lucie Plant property shall acquire and maintain authorization through a Marine Turtle Permit as required by the FWC. Activities requiring such authorization include but are not limited to the following: (1) conducting nesting surveys, (2) conducting stranding/salvage activities, (3) relocating nests for conservation purposes, (4) conducting hand capture, (5) conducting net capture, (6) tagging turtles using external flipper tags, (7) tagging turtles using PIT tags, (8) conducting esophageal lavage, (9) conducting necropsies, (10) collecting blood samples (no more than 5ml/kg for turtles >4kg in association with Authorized Research Project #16 on Marine Turtle Permit #025, (11) conducting satellite tagging/tracking of large green turtles in association with Authorized Research Project #5, (12) collecting scute scrapings. All such required permits shall be available for inspection on plant property.

2. Any FPL employ or contractor must obtain and maintain authorization from FWC prior to conducting public turtle watches and/or maintaining and displaying preserved specimens. Authorized individuals must adhere to the FWC

marine turtle permit guidelines developed under a Section 6 Cooperative Agreement between FWC and the U S Fish and Wildlife Service. Authorizations must be obtained annually.

D. Migratory Bird Nest Authorizations

FPL shall maintain and comply with a current Migratory Bird Nest permit as applicable for removal and replacement of inactive (i.e. containing no eggs or flightless young) nests of ospreys (*Pandion haliaetus*) and other migratory birds, pursuant to the Florida Fish and Wildlife Conservation Commission Osprey Nest Removal Policies, where necessary in the process of routine facility maintenance in Florida. A copy of the required permit/authorization shall be made available at the St. Lucie Plant site. [68A-9.002& 68A-27.005]

E. Wildlife Surveys

1. Less than 6 months prior to any land clearing activities on the site, the Licensee shall perform wildlife surveys to determine if state-listed fish and wildlife species are present, or impacted by the clearing of the affected area.

2. The Licensee shall complete species-specific nesting surveys, within the affected area, during the nesting season immediately preceding any clearing or construction activities for each potentially affected species.

3. If either of the above activities produce evidence that a listed species is present, the Licensee must report the findings to the FWC. If impacts to these species cannot be avoided, then the Licensee must contact the FWC before taking any action that might result in an impact to those species.

4. The state's lists of protected wildlife species are found in Chapter 68A-27, F.A.C. Available survey protocols may be downloaded from the Fish and Wildlife Research Institute webpage (<http://research.myfwc.com/publications/>) or are available by request.

X. FLORIDA DEPARTMENT OF TRANSPORTATION

A. Access Management to the State Highway System

Any access to the State Highway System will be subject to the requirements of Rule Chapter 14-96, State Highway System Connection Permits, and 14-97 Access Management Classification System and Standards, F.A.C.

B. Overweight or Overdimensional Loads

Operation of overweight or overdimensional loads by the applicant on State transportation facilities during construction and operation of the utility facility will be subject to safety and permitting requirements of Chapter 316, F.S., and Rule Chapter 14-26, Safety Regulations and Permit Fees for Overweight and Overdimensional Vehicles, F.A.C..

C. Use of State of Florida Right of Way or Transportation Facilities

All usage and crossing of State of Florida right of way or transportation

facilities will be subject to Rule Chapter 14-46, Utilities Installation or Adjustment, F.A.C.; Florida Department of Transportation's (FDOT) Utility Accommodation Manual (Document 710-020-001); Design Standards for Design, Construction, Maintenance and Utility Operation on the State Highway System; Standard Specifications for Road and Bridge Construction; and pertinent sections of the FDOT's Project Development and Environmental Manual. A1A has been identified as a Florida Intrastate Highway System (FIHS) and Strategic Intermodal System's (SIS) facilities. The placement of any transmission line or pipeline should take into consideration the planned widening of these facilities. The cost of relocating or reconstructing a transmission line or pipeline will be borne by the applicant to the extent required by Section 337.403, F.S., and Rule Chapter 14-46, F.A.C.

D. Standards

The manual on Uniform Traffic Control Devices; FDOT's Design Standards for Design, Construction, Maintenance and Utility Operation on the State Highway System; FDOT's Standard Specifications for Road and Bridge Construction; FDOT's Utility Accommodation Manual; and pertinent sections of the FDOT's Project Development and Environmental Manual will be adhered to in all circumstances involving the State highway System and other transportation facilities.

E. Drainage

Any drainage onto State of Florida right of way and transportation facilities will be subject to the requirements of Rule Chapter 14-86, Drainage Connections, F.A.C., including the attainment of any permit required thereby.

F. Use of Air Space

Any newly proposed structure or alteration of an existing structure will be subject to the requirements of Chapter 333, F.S., and Rule 14-60.009, Airspace Protection, F.A.C. Additionally, notification to the Federal Aviation Administration (FAA) is required prior to beginning construction, if the structure exceeds notification requirements of 14 CFR Part 77, Objects Affecting Navigable Airspace, Subpart B, Notice of Construction or Alteration. Notification will be provided to FAA Southern Region Headquarters using FAA Form 7460-1, Notice of Proposed Construction or Alteration in accordance with instructions therein. A subsequent Determination by the FAA stating that the structure exceeds any federal obstruction standard of 14 CFR Part 77, Subpart C for any structure that is located within a 10-nautical-mile radius of the geographical center of a public-use airport or military airfield in Florida will be required to submit information for an Airspace Obstruction Permit from the DFOT or variance from local government depending on the entity with jurisdictional authority over the site of the proposed structure. The FAA Determination regarding the structure serves only as a review of its impact on federal airspace and is not an authorization to proceed with any construction. However, FAA recommendations for marking and/or lighting of the proposed structure are made mandatory by Florida law. For a site under FDOT jurisdiction, application will be made by submitting FDOT Form 725-040-11, Airspace Obstruction Permit Application, in accordance with the instructions therein.

G. Level of Service on State Roadway Facilities

All traffic impacts to State roadway facilities on the FIHS or the SIS, or funded by Section 339.2819, Florida Statutes, will be subject to the requirements of the level of service standards adopted by local governments pursuant to Rule Chapter 14-94, Statewide Minimum Level of Service Standards, F.A.C., in accordance with Section 163.3180(10), Florida Statutes. All traffic impacts to State roadway facilities not on the FIHS, the SIS, or funded by section 229.2819, Florida Statutes, will be subject to adequate level of service standards established by the local governments.

H. Best Management Practices

Traffic control during facility construction and maintenance will be subject to the standards contained in the Manual on Uniform Traffic Control Devices; Rule Chapter 14-94, Statewide Minimum Level of Service Standards, F.A.C.; FDOT's Design Standards for Design, Construction, Maintenance and Utility Operation on the State highway System; FDOT's Standard Specifications for Road and Bridge Construction; and FDOT's Utility Accommodation Manual, whichever is more stringent.

It is recommended that the applicant encourage transportation demand management techniques by doing the following:

1. Placing a bulletin board on site for car pooling advertisements.
2. Requiring that heavy construction vehicles remain onsite for the duration of construction to the extent practicable.

If the applicant uses contractors for the delivery of any overweight or overdimensional loads to the site during construction, the applicant should ensure that its contractors adhere to the necessary standards and receive the necessary permits required under Chapter 316, F.S., and Rule Chapter 14-26, Safety Regulations and Permit Fees for Overweight and Overdimensional Vehicles, F.A.C.

XI. HISTORY

Limited Certification Order (site preparation and construction) issued 12/17/75; signed by Governor Askew

Full Certification Order issued 05/18/76; signed by Governor Askew

Modified 4/7/80; signed by Governor Graham

Modified 12/7/81; signed by Secretary Tschinkel

Modified 1/27/82; signed by Secretary Tschinkel

Modified 2/4/82 - correction of 1/27/82 Modification; signed by Secretary Tschinkel

Modified 4/29/86; signed by Secretary Tschinkel

Modified 9/28/87; signed by Secretary Twachtman

Modified 4/6/94; signed by Secretary Wetherell

Modified 4/24/96; signed by Secretary Wetherell

Modified 04/14/06; signed by Siting Administrator Owen

Certification Order issued 09/17/08, signed by Secretary Sole

Appendix A: Federally Enforceable State Operating Permit #1110071-005-AF



Department of Environmental Protection

Jeb Bush
Governor

Southeast District
400 N. Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Colleen M. Castille
Secretary

NOTICE OF AIR POLLUTION PERMIT

January 30, 2006

ELECTRONIC CORRESPONDENCE
ed_benken@fpl.com

ISSUED TO:

Florida Power & Light Company, Port St. Lucie Nuclear Power Plant
6501 S. Ocean Drive
Jensen Beach, FL 34957-2041

Permit Number: **1110071-005-AF**
Issue Date: **January 30, 2006**
Expiration Date: **April 18, 2010**

Authorized Representative:
Mr. Edwin Benken

PROJECT:

Project:	FESOP Revision for Florida Power & Light Company, Port St. Lucie Nuclear Power Plant
Facility Description:	Nuclear Power Plant (SIC # 4911)
Location:	6501 South State Road A1A, Port St. Lucie, St. Lucie County, Florida
Lat./Long.:	27°20'52" N / 80°14' 45" W
UTM:	Zone 17; 573.86 Km. E; 3025.01 Km. N

Dear Mr. Benken:

This is Permit Revision Number 1110071-005-AF to operate an air pollution source issued pursuant to Chapter 403.087, Florida Statutes (F.S.) and F.A.C. Rule 62-210.300(2)(b). This is an operation permit revision to change the fuel allocation for different emissions units.

NOTICE OF RIGHTS:

Any party to this Order has the right to seek judicial review of the permit under Section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

STATEMENT OF BASIS:

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297, and in conformance with all existing regulations of the Florida Department of Environmental Protection. The above named owner or operator is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department, in accordance with the terms and conditions of this permit.

PART I -- SUMMARY INFORMATION

PERMIT CONTENTS:

Part I -- Summary Information
Part II -- Facility-Wide Specific Conditions
Part III -- Emissions Unit Specific Conditions
Appendix A -- General Conditions

OPERATE: This permit addresses the following air pollution emissions units:

Emissions Unit ID No.	Emissions Units Description
001	Emergency Diesel Generators (4) for Main Plant
002	Emergency Diesel Generators (2) for Office Buildings
003	Miscellaneous Diesel Driven Equipment

This permit also addresses the following air pollution activities, which are deemed to be exempt from permitting, based on the information provided by the applicant to the Department. Exempt activities have no emissions unit specific conditions, but are subject to applicable general pollutant emissions limiting standards specified in Part II of this permit.

Exempt Activity Description
Facility wide fugitive emissions from storage tanks, roadways, and paint/sandblasting

SIGNIFICANT DATES:

Application Received: **December 14, 2005**
Draft permit issuance Date: **January 06, 2006**
Public Notice of Intent Published on: **January 12, 2006**
Proof of publication received on: **January 17, 2006**
No comments were received during the 14-day Public Comment Period.

PERMIT HISTORY:

Permit No. 1110071-001-AC & 002-AO issued October 18, 1995
Permit No. 1110071-003-AO issued June 27, 2000
Notice of Administratively corrected operation permit for Permit No. 1110071-003-AO issued August 22, 2000
Permit No. 1110071-004-AF issued April 19, 2005

This permit supersedes all permits issued previously.

PART II -- FACILITY-WIDE SPECIFIC CONDITIONS

Conditions in this part generally apply to all emissions units and activities covered under this permit.

1.0 Administrative Requirements

- 1.1 Regulating Agencies: All applications, tests, reports, notifications, or other submittals required by this permit shall be submitted to the Florida Department of Environmental Protection, Southeast District Office, Air Program 400 North Congress Avenue, Suite 200, West Palm Beach, Florida, 33401, phone 561-681-6600 Fax 561-681-6790.
- 1.2 Citation Format: In this permit, references to F.A.C. Rule 62-xxx refer to rules promulgated under Title 62 of the Florida Administrative Code; references (if any) to 40 CFR 60.xx (or 61.xx or 63.xx) refer to regulations codified under Part 60 (or 61 or 63) of Title 40 of the Code of Federal Regulations.
- 1.3 Specific and General Conditions: The owner or operator shall be subject to the specific conditions of this permit and the owner or operator shall be aware of, and operate under, the General Conditions, attached as Appendix A of this permit. General Conditions are binding and enforceable pursuant to Chapter 403, F.S.
[Rule 62-4.160, F.A.C.]
- 1.4 Applicable Regulations: This facility is subject to regulation of Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297. Issuance of this permit does not relieve the facility owner or operator from compliance with any other applicable federal, state or local permitting requirements or other regulations.
- 1.5 Other Permits: This air pollution permit does not preclude the owner or operator from obtaining any other types of required permits, licenses or certifications from this Department or other departments or agencies.
- 1.6 Renewal of This Permit Required: An application for renewal of this operation permit must be submitted to the Department of Environmental Protection, Southeast District Office, Air Program **at least 60 days prior** to the expiration date of this permit. To apply for an operation permit, the applicant shall submit the appropriate application form in quadruplicate, the appropriate application fee, all required compliance test results, and such additional information as the Department may by law require.
[Rules 62-4.030, 62-4.050, and 62-4.220, F.A.C.]

Note that public notice may be required again at the time of renewal or revision of this permit if the facility or permit is materially changed from that described by this permit.

[Rule 62-210.350(4)(a), F.A.C.]

2.0 General Pollutant Emissions Limiting Standards

- 2.1 Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]
- 2.2 General Visible Emissions Standard: Unless otherwise specified by permit or rule, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than 20 percent opacity.
[Rule 62-296.320(4)(b)1., F.A.C.]
- 2.3 Volatile Organic Compounds/Organic Solvents Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department.

Such controls include the following:

- Tightly cover or close all VOC containers when they are not in use.

- Tightly cover all open tanks that contain VOCs when they are not in use.
 - Maintain all pipes, valves, fittings, etc., which handle VOCs in good operating condition.
 - Confine rags used with VOCs to tightly closed, fireproof containers when not in use.
 - Immediately confine and clean up VOC spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.
- [Rule 62-296.320(1)(a), F.A.C.]

- 2.4 Unconfined Emissions of Particulate Matter: No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.

Reasonable precautions include the following:

- Paving and maintenance of roads, parking areas and yards.
- Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- Application of asphalt, water, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
- Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- Landscaping or planting of vegetation.
- Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- Confining abrasive blasting where possible.

[Rule 62-296.320(4)(c), F.A.C.]

3.0 Operation Requirements

- 3.1 Circumvention: No person shall circumvent any air pollution control device, or allow the emissions of air pollutants without the applicable air pollution control device operating properly.

[Rule 62-210.650, F.A.C.]

- 3.2 Excess Emissions: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing best operational practices to minimize emissions are adhered to, and the duration of excess emissions shall be minimized but in no case exceeds two hours in any 24 hour period unless specifically authorized by the Department for longer duration.

Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited.

[Rule 62-210.700, F.A.C.]

4.0 Compliance Testing Requirements

- 4.1 Test Notification: Unless otherwise specified in this permit, the Department of Environmental Protection, Southeast District Office, Air Program shall be notified in writing of expected compliance test dates at least fifteen (15) days prior to compliance testing. The notification shall include the following information: the date, time, and location of each test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner.

[Rule 62-297.310(7)(a), F.A.C.]

- 4.2 Testing at Capacity: Compliance testing shall be conducted with the emissions units operating at the permitted capacity (90 to 100% of the maximum permitted operation rate of the emissions units). If an emissions unit is not tested at permitted capacity, the emissions unit shall not be operated above 110% of the test load until a new test showing compliance is conducted. Operation of the emissions unit above 110% of the test load is allowed for no

more than 15 days for the purpose of conducting additional compliance testing to regain the authority to operate at the permitted capacity.

[Rule 62-297.310(2), F.A.C.]

- 4.3 Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emissions standard in Rules 62-204 through 62-297 or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

[Rule 62-297.310(7)(b), F.A.C.]

5.0 Reporting and Record Keeping Requirements

- 5.1 Report Excess Emissions: In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. (condition 5.2 below). A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.

[Permit No. 1110071-004-AF & Rule 62-210.700(6), F.A.C.]

- 5.2 Report Plant Operation Problems: If the owner or operator is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the owner or operator shall immediately notify the Department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the owner or operator from any liability for failure to comply with Department rules.

[Rule 62-4.130, F.A.C.]

- 5.3 Retain Records: All records required by this permit shall be kept by the owner or operator and made available for Department inspection for a minimum of five (5) years from the date of such records.

[Rule 62-4.070(3), F.A.C.]

- 5.4 Compliance Test Reports: Compliance test reports shall be submitted to the Department of Environmental Protection, Southeast District Office, Air Compliance Section, as soon as practical, but no later than 45 days after the last sampling run of each test is completed.

Test reports shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. Test reports, other than for an EPA or DEP Method 9 test, shall include the following information and other information as necessary to make a complete report required pursuant to Rule 62.297.310(8)(c), F.A.C.:

- The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters and their operating parameters during each test run
- All measured and calculated data required to be determined by each applicable test procedure for each run
- The detailed calculations for one run that relate the collected data to the calculated emissions rate
- The applicable emissions standard and the resulting maximum allowable emissions rate for the emissions unit, plus the test result in the same form and unit of measure
- The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
- The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emissions limiting standard.

[Rules 62-297.310(8)(a) (b) & (c), F.A.C.]

- 5.5 Annual Report Required: On or before March 1 of each calendar year, a completed DEP Form 62-210.900(5), Annual Operating Report (AOR) Form for Air Pollutant Emitting Facility, shall be submitted to the Department of Environmental Protection, Southeast District Office, Air Program.

[Rule 62-210.370(3), F.A.C.]

PART III -- EMISSIONS UNIT SPECIFIC CONDITIONS

Subpart A: This part of this permit addresses the following emissions units:

Emissions Unit ID Number	Emissions Units Description
001	Emergency Diesel Generators (4) for Main Plant
002	Emergency Diesel Generators (2) for Office Buildings
003	Miscellaneous Diesel Driven Equipment

Emissions unit 001 consists of four emergency diesel generators with two diesel engines per each generator for a total of eight diesel engines. The generators are divided into two categories; each category consists of two (2) generators. First category consists of two generators each one rated at 3,400 Kw and the second category consists of two generators each one rated at 3,800 Kw. The maximum heat input for emissions unit # 001 is 293.2 mmbtu per hour.

Emissions units 002 consist of two emergency diesel generators, one that supplies power to the D-13 Building rated at 250 Kw and the second supplies power to the administrative building rated at 800 Kw. The maximum heat input for emissions unit # 002 is 8.9 mmbtu per hour.

Emissions Unit 003 consists of various small-bore diesel driven equipment. These emissions units have no pollution control devices.

Emissions Limiting Standards and Operation Restrictions

- A.1 Nitrogen Oxide (NO_x) Emissions: NO_x emissions shall not exceed 99.40 tons in any twelve consecutive month period
[Permit No. 1110071-004-AF]
- A.2 Allowable Fuels: Fuel burned shall be limited to number 2 fuel oil with a maximum sulfur content of 0.05 percent by weight, as demonstrated by the shipment records as specific condition A.9.
[Permit No. 1110071-004-AF]
- A.3 Fuel Consumption Limits: The amount of fuel consumption for these emissions units shall not exceed either (a) and (b), or (c) of this permit condition as follows:
- (a). Emissions Unit # 001 – 97,000 gallons for any 12-month consecutive period; and
 - (b). Emissions Units 002 and 003 – 190,000 gallons for any 12-month consecutive period; or
 - (c). Emissions Units 001, 002, and 003 – any combination of fuel consumption for the emissions units provided the NO_x emissions from all units do not exceed 80 tons for any 12-month consecutive period.
[Rule 62-4.070(3), F.A.C., and requested by applicant]

{Permitting note: At the request of the applicant, the fuel allocations for EU001 and EU002 & EU003 have been changed as above. However, there is no change in the total allowable emissions of NO_x for the facility.}

Compliance Monitoring and Testing Requirements

- A.4 Nitrogen Oxide (NO_x) Emissions: Compliance with the allowable limiting standards for NO_x in specific condition A.1 shall be determined by calculation using the monthly fuel consumed and the latest published AP-42 emissions factor for the emissions source, unless more accurate data become available.
[Permit No. 1110071-004-AF]
- A.5 Fuel Consumption: The permittee shall monitor all fuel consumptions for Emissions Units 001, 002, & 003 by keeping records of fuel usage.
[Permit No. 1110071-004-AF]

- A.6 Operating Procedures: These emissions units shall be properly operated and maintained at all times in a condition to minimize emissions of air pollutants. The permittee shall ensure that all facility staff, responsible for these emissions units, is trained in their operation and maintenance in accordance with the guidelines and procedures as established by the equipment manufacturers.
[Permit No. 1110071-004-AF]

Reporting and Record Keeping Requirements

- A.7 Nitrogen Oxides (NOx) limits: The permittee shall record and maintain records of the Nox emissions on a monthly basis. The permittee shall maintain records for each 12-month consecutive period demonstrating compliance with specific condition A.1 detailing NOx emissions based on emissions units. The monthly records must be completed by the 30th of the following month.
[Permit No. 1110071-004-AF]
- A.8 Fuel Consumption Limits: The permittee shall record and maintain records of the fuel consumption on a monthly basis. In order to document compliance with the fuel consumption limits in specific condition A.3, the permittee shall maintain records of fuel usage for each 12-month consecutive period. The monthly records must be completed by the 30th of the following month.
[Permit No. 1110071-004-AF]
- A.9 Allowable Fuels: The permittee shall maintain records to demonstrate that each shipment of diesel fuel has 0.05 percent or less (by weight) of sulfur and that the sulfur content was determined by ASTM methods ASTM D4057-88 and ASTM D129-91, ASTM D2622-94 or ASTM D4294-90 or other approved ASTM methods, adopted and incorporated by reference in Rule 62-297.440(1). Certifications from the fuel supplier in accordance with the above requirement shall be satisfactory records and shall be monitored at the facility physical location for inspection.
[Permit No. 1110071-004-AF]
- A.10 The permittee shall maintain fuel usage, repairs/maintenance records for each engine.
[Permit No. 1110071-004-AF]

Executed in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Kevin R. Neal
District Director
Southeast District

KRN/DG/LT/bf

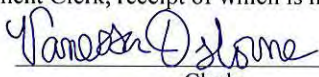
1/27/2006
Date

Attachment

c: Edward Preast, P.E.
Raisa Neginsky, Air Compliance Section, SED/DEP
Stan Ganthier, Air Compliance Section, SED/DEP

ed_preast@fpl.com
Raisa.Neginsky@dep.state.fl.us
Stanley.Ganthier@dep.state.fl.us

FILING AND ACKNOWLEDGMENT: FILED, on this date, pursuant to § 120.52(7), F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

1/30/06
Date

APPENDIX - A

GENERAL CONDITIONS Pursuant Rule 62-4.160, Florida Administrative Code (F.A.C.):

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes (F.S.) The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department

APPENDIX - A

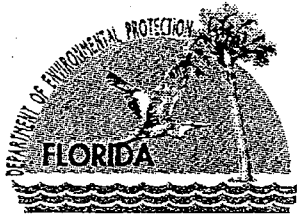
GENERAL CONDITIONS CONTINUED:

may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4. 120 and 62-730. 300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - (1) The date, exact place, and time of sampling or measurements;
 - (2) The person responsible for performing the sampling or measurements;
 - (3) The dates analyses were performed;
 - (4) The person responsible for performing the analyses;
 - (5) The analytical techniques or methods used;
 - (6) The results of such analyses.
14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Specific Authority 403. 061, 403. 087, 403. 088 FS. Law Implemented 403. 061, 403. 087, 403. 088 FS. History – New 8-31-88, Amended 10-4-89, 7-11-93, Formerly 17-4. 160.

Appendix B: NPDES Permit FL0002208-003-IW1S



Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

NOTICE OF PERMIT

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

In the Matter of an
Application for Permit by:
Florida Power & Light Company
6501 South Ocean Drive
Jensen Beach, FL 34957

DEP File # FL0002208-003-IW1S/NR

Attention: Mr. Ed Benken

Enclosed is Permit FL002208, issued under Section 403 0885, Florida Statutes, and DEP Chapter 62-620, Florida Administrative Code, authorizing wastewater discharge from the FPL St. Lucie Power Plant, St. Lucie County to the Atlantic Ocean, a Class III marine water.

Any party to this order (permit) has the right to seek judicial review of the permit under Section 120.68, Florida Statutes, by the filing of a Notice of Appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000 and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this notice is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Mimi Drew
Director
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, FL 32399-2400
(850) 245-8336

"More Protection Less Process"

Printed on recycled paper

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 01-18-06 to the listed persons.

[Clerk Stamp]

FILING AND ACKNOWLEDGMENT

FILED, on this date, under Section 120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

U. Shields 01-18-06
(Clerk) (Date)

Copies furnished to:

Chairman, Board of St. Lucie County Commissioners
Ron Hix, FPL, Juno Beach
Hamilton Owen, P E., DEP Tallahassee
Tim Powell, P E. DEP SED West Palm Beach
Betsy Hewitt, DEP Tallahassee

**STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMITTEE:

FPL - St. Lucie Power Plant
6501 S. Ocean Drive
Jensen Beach, FL 34957

PERMIT NUMBER:

PA FILE NUMBER:

ISSUANCE DATE:

EXPIRATION DATE:

FL0002208

FL0002208-003-IW1S

January 20, 2006

January 19, 2011

RESPONSIBLE AUTHORITY:

William Jefferson, Jr
Vice President

FACILITY:

St. Lucie Power Plant
Units 1 and 2
Hutchinson Island
St. Lucie County, Florida

Latitude: See Note Below Longitude: See Note Below

Note: Latitude and longitude are not shown at the Permittee's request, for purposes of Homeland Security pursuant to federal regulations found at 18 CFR 388.113(c)(i) and (ii) and by Presidential Directive dated December 17, 2003

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and applicable rules of the Florida Administrative Code (F.A.C.). The above named Permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The facility consists of two nuclear powered steam electric generating units (Unit 1 and Unit 2) each with a nominal rating of 850 MW. The radioactive component of the discharge is regulated by the U.S. Nuclear Regulatory Commission under the Atomic Energy Act, and not by the Department or the U.S. Environmental Protection Agency under the Clean Water Act.

WASTEWATER TREATMENT:

Facility discharge and treatment include the following. Once-through non-contact condenser cooling water (OTCW) and auxiliary equipment cooling water (AECW) are chlorinated. Low volume waste (LVW) (consisting of water treatment system wastewater, steam generator/boiler blowdown, and equipment area floor drainage), non-radioactive wastes/liquid radiation waste, and stormwater associated with industrial activity are treated by chemical/physical processes including neutralization, settling, ion exchange and micro filtration. Non-industrial stormwater and intake screen wash water are discharged without treatment.

PERMITTEE:

PERMIT NUMBER: FL0002208

FPL - St Lucie Power Plant
6501 S. Ocean Dr
Jensen Beach, FL34957

Issuance date: January 20, 2006
Expiration date: January 19, 2011

EFFLUENT DISPOSAL:

Surface Water Discharge:

An existing discharge (1,478 MGD permitted maximum daily flow, 1,362 reported annual average daily flow) of OTCW and ABCW via outfall D-001 to the onsite discharge canal to the point of discharge (POD) thence to the Atlantic Ocean, a Class III marine water.

Internal Outfalls:

Existing intermittent discharges from internal outfalls I-003 (Liquid Radiation Waste), I-005 (Steam Generator Blowdown), I-007 (Intake Screen Wash Water) and I-008 (Evaporation/Percolation Basin).

Stormwater Discharges:

Existing intermittent stormwater discharges from internal outfalls I-06B (Former Oil Storage Area) and I-06C (Non-Industrial Related Storm water)

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Part I through Part VIII on pages 3 through 18 of this permit.

PERMITTEE:

PERMIT NUMBER: FL0002208

FPL - St Lucie Power Plant
6501 S Ocean Dr
Jensen Beach, FL34957

Issuance date: January 20, 2006
Expiration date: January 19, 2011

I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge via Outfall D-001 (OICW and AECW from Units 1 and 2). Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Instantaneous Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	--	Report	Hourly	Pump logs	FLW-1
Discharge Temperature Water (DEG F)	--	113 See Cond. 1A.3 and 1A.4.	Hourly	Recorder	EFF-2
Temp. Diff. Between Intake and Discharge (DEG F)	--	30 See Cond. 1A.3 and 1A.4.	Hourly	Calculated	INT-1, EFF-2
Oxidants, Total Residual (MG/L)	--	0.10 See Cond. 1A.7.	Continuous	Recorder See Cond. 1A.5.	EFF-2
Oxidants, Free Available (MG/L)	0.2 See Cond. 1A.7	0.5 See Cond. 1A.7	Every Other Month	Multiple Grabs See Cond. 1A.6.	EFF-1
Chlorination Duration (Minutes)	120, See Cond. 1A.7		Daily	Logs	EFF-1
Whole Effluent Toxicity (Acute)	See Cond. 1A.8.				EFF-2

- Effluent samples shall be taken at the monitoring site locations listed in permit condition I A.1 and as described below:

Sample Point	Description of Monitoring Location
FLW-1	Pump log or recorder
INT-1	At plant intake structure within the intake canal
EFF-1	Outlet corresponding to the individual condenser from Unit 1 or Unit 2
EFF-2	Within the discharge canal upstream of the discharge piping to the Atlantic Ocean

- At the point of discharge, the heated water temperature from the diffusers shall not exceed 113° F or 30° F above ambient at any time except that the maximum discharge temperature shall be limited to 117° F or 32° F above ambient during condenser and/or circulating water pump maintenance, throttling circulating water pumps to

PERMITTEE:

PERMIT NUMBER: FL0002208

FPL - St. Lucie Power Plant
6501 S. Ocean Dr.
Jensen Beach, FL 34957

Issuance date: January 20, 2006
Expiration date: January 19, 2011

minimize use of chlorine, and or fouling of circulating water system. This temperature may be measured at a point within the discharge canal (in determining the temperature differential, the time of travel through the plant may be considered). In the event that discharge temperature exceeds 113° F the Permittee shall notify the Department within 5 days.

4. Discharge from Outfall D-001 shall not cause the ocean surface temperature to exceed 97° F as an instantaneous maximum at any point. Heated water discharged from the multi-port diffuser shall not exceed 17° F above ambient temperature in the receiving body of water outside a thermal mixing zone of 10.7 acre-feet (13,198 cubic meters, 466,092 cubic feet). The mixing zone shall be bounded by an area extending 1,385.5 feet seaward from the most landward discharge port, 21.0 feet to each side of the discharge pipe axis and 8.0 feet in height above the bottom of the discharge. Heated water discharged from the Y-diffuser shall not exceed 17° F above ambient temperature in the receiving body of water outside a thermal mixing zone bounded by a circle with a radius of 115.82 meters, centered on the terminus of the Y-Port diffuser and extending upward from the bottom 8.31 meters, encompassing a mixing zone that shall not exceed 453,613 square feet (42,142 square meters). The total area of the thermal mixing zone for the facility (multi-port and Y-port diffusers) shall not exceed 511,804 square feet (47,548 square meters).
5. If automated TRO monitors are inoperable for more than 7 days, TRO monitoring shall be conducted at least one time per week on not less than three grab samples during daylight hours. Additional grab samples shall be obtained during periods of TRO discharge from condensers.
6. A "multiple grab" sample for FAO from Outfall D-001 for FAO/TRO monitoring shall consist of individual grab samples collected at the approximate beginning of FAO/TRO discharge and once every 15 minutes thereafter until the end of FAO/TRO discharge.
7. Free available oxidants (FAO) shall not exceed an average concentration of 0.2 mg/l and a maximum instantaneous concentration of 0.5 mg/l at the outlet corresponding to an individual condenser during any chlorination period. Additionally, TRO shall not exceed a maximum instantaneous concentration of 0.10 mg/l at any one time as measured at the POD prior to discharge to the Atlantic Ocean. Auxiliary equipment cooling water may receive continuous low-level chlorination. Neither FAO nor total residual oxidants (TRO) may be discharged from either unit condensers for more than two hours in any one day and not more than one unit may discharge FAO or TRO from its condensers at any one time.
8. The Permittee shall conduct the routine tests described below during 1) the first refueling outage after permit issuance and 2) during the first use of ethanolamine in the steam generator while steam generator blowdown is being discharged from Internal Outfall I-005. For both tests effluent from Internal Outfall I-005 will be collected and mixed with effluent from the once through cooling water discharged from either Unit 1 or Unit 2 to mimic the proportion of I-005 effluent in the Outfall D-001 effluent. This effluent mixture shall be termed "final" effluent.
 - a. Whole effluent acute toxicity shall not exceed in any "routine" or in any "additional follow-up" test an LC50 of less than 30% effluent. [Rule 62-302.200(1), Rule 62-302.500(1)(a)4, and Rule 62-4.244(3)(a), F.A.C.
 - b. Monitoring frequency
 - (1) The "routine" tests described in condition I 8 a. shall be conducted once during the term of this permit provided each test meets the acute toxicity requirement in condition I 8 a.
 - c. Test Requirements:

PERMITTEE:

PERMIT NUMBER: FL0002208

FPL - St. Lucie Power Plant
6501 S. Ocean Dr.
Jensen Beach, FL 34957

Issuance date: January 20, 2006
Expiration date: January 19, 2011

(1) Routine Test: All "routine" tests shall be conducted using a control (0% effluent) and a minimum of five test concentrations: 100%, 50%, 30%, 12.5%, and 6.25% "final" effluent.

(2) Additional, Follow-up Testing Requirements, if required:

(a) If a routine test does not meet the acute toxicity limitation in 8 a above, the permittee shall conduct two additional follow-up tests on each species that failed the test.

(b) The first additional follow-up test shall be conducting using a control (0% "final" effluent) and a minimum of five dilutions: 100%, 50%, 30%, 12.5%, and 6.25% "final" effluent. The dilution series may be modified in the second test to more accurately identify the toxicity, such that at least two dilutions above (not to exceed 100% "final" effluent) and two dilutions below the target toxicity and a control (0% "final" effluent) are run.

(c) The first test shall begin within two weeks of the end of the failed routine test. The remaining additional follow-up test shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.

(3) The Permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the mysid shrimp, Americamysis (Mysidopsis) bahia, and the inland silverside, Menidia beryllina, concurrently.

(4) All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th ed., EPA-821-R-02-012. In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.

(5) The control water and the effluent used will be adjusted to the test salinity using artificial sea salts as described in EPA-821-R-02-012, Section 7.2.4. The test salinity shall be the salinity resulting from the mixture of 30% effluent concentration and the artificial seawater adjusted to the salinity of the receiving water at the time of sampling.

d. Sampling Requirements

(1) Routine tests shall be conducted on four separate grab samples collected at evenly spaced (6-hr) intervals over a 24-hour period and used in four separate tests in order to catch any peaks of toxicity and to account for daily variations in effluent quality. If the duration of the discharge is less than 24-hours, the duration of the discharge shall be documented on the chain of custody. Samples from Internal Outfall I-005 shall be collected at Sampling Location OUI-2. Samples representing Outfall D-001 shall be collected from the discharge canal upstream of OUI-2, at a location that (to the extent practicable) captures the condenser cooling water stream and discharge from I-003, but not discharge from I-005. The two samples shall be blended as described in condition I A 8, above.

(2) For additional follow-up tests, the first test shall be conducted on four separate grab samples collected at evenly-spaced (6 hr) intervals over a 24-hour period. Each sample shall be run as a separate test. The second additional follow-up test shall be run on a single grab sample collected on the day and time when the greatest toxicity was identified in the first additional follow-up test. Results for each additional test shall include the determination of LC50 values with 95% confidence limits.

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e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or started no more than 30 days before the date of the "routine" test, or follow-up test conducted. The SRT-QA data shall be included in the reports for each companion "routine" or additional test required.

(2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated.

(3) If, during any separate grab sample test, 100% mortality occurs prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Additional, follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2 and included with the submitted bioassay reports.

f. Reporting Requirements

(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:

(a) Routine Test Results: The lowest calculated LC50 effluent concentration for the four separate tests shall be entered on the DMR for that test species.

(b) Additional Follow-up Test Results: For each additional test required, the calculated LC50 value should be entered on the DMR for that test species and the 95% confidence limits.

(2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review and mailed to the Department at the address below within 30 days of the completion of the test.

(3) For additional, follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation, and mailed within 45 days of completion of the second additional, valid test. If any additional test fails to meet the effluent limitation in 8 a. above, the permittee shall contact the Department within 30 days of the bioassay report submittal to discuss the corrective actions necessary to remedy the observed acute toxicity.

(4) All bioassay reports shall be sent to

Florida Department of Environmental Protection
Southeast District Office
Industrial Wastewater Section
1801 SE Hillmoor Drive, Suite C-204
Port St Lucie, Florida 34952
(772) 871-7662

9. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge process wastewater from Internal Outfall I-003 to the onsite discharge canal. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	1/Batch	Calculated	OUI-1

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Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Oil and Grease (MG/L)	15.0	20.0	Annually	Grab	OUI-1
Solids, Total Suspended (MG/L)	30.0	100.0	1/Batch	Grab	OUI-1

10. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.9 and as described below:

Sample Point	Description of Monitoring Location
OUI-1	Discharge from the radiation waste system prior to mixing with any other waste stream

11. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge process wastewater from Internal Outfall I-005 Steam Generator Blowdown (i.e. boiler blowdown) to the onsite discharge canal. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	See Cond. I.A.13	Calculated	OUI-2
Oil and Grease (MG/L)	15.0	20.0	See Cond. I.A.13	Grab	OUI-2
Solids, Total Suspended (MG/L)	30.0	100.0	See Cond. I.A.13	Grab	OUI-2
Hydrazine, mg/l	--	0.30	See Cond. I.A.14	See Cond. I.A.15	EFF-2
Carbohydrazide, mg/l	--	Report	See Cond. I.A.14	See Cond. I.A.15	EFF-2

12. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.11 and as described below:

Sample Point	Description of Monitoring Location
OUI-2	Discharge from I-005 prior to entering the discharge canal
EFF-2	Within the discharge canal upstream of the discharge piping to the Atlantic Ocean

13. Internal Outfall I-005 shall be monitored once per discharge event or once per week when discharging, whichever is more frequent, unless there is no discharge for that week. Total volume of batch and period of discharge shall be reported.
14. Hydrazine and Carbohydrazide shall be monitored once per batch by a grab sample during wet lay-up discharges that result from the start-up of a unit following a refueling outage.

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- 15 A grab sample shall be taken at the discharge of the steam generator to the discharge canal and the following calculations shall be used to determine the concentration from the discharge canal to the Atlantic Ocean [point of discharge (POD)].

Steam Generator Blowdown Flow x Blowdown Hydrazine Concentration = Hydrazine at the POD
Once Through Cooling Water Flow

Steam Generator Blowdown Flow x Blowdown Carbohydrazide Concentration = Carbohydrazide at the POD
Once Through Cooling Water Flow

- 16 During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge stormwater associated with industrial activity from Internal Outfall I-06B Former Oil Storage Area to the onsite intake canal. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	Annually	Estimated	OUI-3
Solids, Total Suspended (MG/L)	—	Report	Annually	Grab	OUI-3
Oil and Grease (MG/L)	—	Report	Annually	Grab	OUI-3

17. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A. 16. and as described below:

Sample Point	Description of Monitoring Location
OUI-3	Discharge from the Former Oil Storage Area prior to entering the intake canal

- 18 During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge stormwater from Internal Outfall I-06C to the Mangrove Impoundment. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	Annually	Estimated	OUI-4
Oil and Grease (MG/L)	—	Report	Annually	Grab	OUI-4

- 19 Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A. 18. and as described below:

Sample Point	Description of Monitoring Location
OUI-4	Stormwater discharge prior to entering the mangrove impoundment area

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20. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to discharge stormwater from Internal Outfall I-008 to intake canal. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameters (units)	Discharge Limitations		Monitoring Requirements		
	Daily Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	Weekly when discharging	Calculated	OUI-5
Solids, Total Suspended (MG/L)	30.0	100.0	Weekly, when discharging	Grab	OUI-5
Oil and Grease (MG/L)	15.0	20.0	Weekly, when discharging	Grab	OUI-5

21. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.20. and as described below:

Sample Point	Description of Monitoring Location
OUI-5	Stormwater discharge prior to entering the intake canal

22. Discharge of intake screen wash water from Internal Outfall I-007 is permitted without limitation or monitoring requirements.
23. There shall be no discharge of floating solids or visible foam in other than trace amounts.
24. The discharge shall not cause a visible sheen on the receiving water.

B. Underground Injection Control Systems

This section is not applicable to this facility.

C. Land Application Systems

This section is not applicable to this facility.

D. Other Methods of Disposal or Recycling

1. There shall be no discharge of industrial wastewater from this facility to ground or surface waters, except as authorized by this permit.

E. Other Limitations and Monitoring and Reporting Requirements

1. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantification limits), which is titled "Florida Department of Environmental Protection Table as Required By Rule 62-4.246(4) Testing Methods for Discharges to Surface Water" dated June 21, 1996, is available from the Department on request. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically

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approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:

- a. The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
- b. The laboratory reported PQL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide a PQL, which is equal to or less than the applicable water quality criteria stated in 62-302 FAC; and
- c. If the PQLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated PQL shall be used.

Where the analytical results are below method detection or practical quantification limits, the Permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. However, where necessary, the Permittee may request approval for alternative methods or for alternative MDLs and PQLs for any approved analytical method, in accordance with the criteria of Rules 62-160.520 and 62-160.530, F.A.C.

2. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136.
3. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the Permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the Permittee shall complete and submit to the Southeast District Office Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e., monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

REPORT Type on DMR	Monitoring Period	DMR Due Date
Monthly or Toxicity	first day of month – last day of month	28 th day of following month
Quarterly	January 1 – March 31	April 28
	April 1 – June 30	July 28
	July 1 – September 30	October 28
	October 1 – December 31	January 28
Semiannual	January 1 – June 30	July 28
	July 1 – December 31	January 28
Annual	January 1 – December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge

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The Permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department at the address specified below:

Florida Department of Environmental Protection
Wastewater Compliance Evaluation Section, Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

4. Unless specified otherwise in this permit, all reports and notifications required by this permit, including twenty-four hour notifications, shall be submitted to or reported to the Southeast District Office at the address specified below:

Florida Department of Environmental Protection
Southeast District Office
Industrial Wastewater Section
1801 SE Hillmoor Drive, Suite C-204
Port St. Lucie, Florida 34952
(772) 871-7662

5. All reports and other information shall be signed in accordance with requirements of Rule 62-620 305, F.A.C.
6. The Permittee shall provide safe access points for obtaining representative samples which are required by this permit.
7. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.
8. Bypasses subject to General Conditions VIII.20 and VIII.22 shall be monitored or estimated daily, or as approved by the Department for flow and other parameters required for the specific outfall that is bypassed. Monitoring results shall be reported to the Department.
9. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream, which ultimately may be released, to waters of the State is prohibited unless specifically authorized elsewhere in this permit. This requirement is not applicable to products used for lawn and agricultural purposes or to the use of herbicides if used in accordance with labeled instructions and any applicable State permit. The Permittee shall notify the Department in writing no later than six (6) months prior to instituting use of any biocide or chemical used in the cooling systems or any other portion of the treatment system which may be toxic to aquatic life. Such notification shall include:
- a. Name and general composition of biocide or chemical
 - b. Frequencies of use
 - c. Quantities to be used
 - d. Proposed effluent concentrations
 - e. Acute and/or chronic toxicity data (laboratory reports shall be prepared according to Section 12 of EPA document no. EPA/600/4-90/027 entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms, or most current addition.)
 - f. Product data sheet
 - g. Product label

The Department shall review the above information to determine if a major or minor permit revision is necessary. Discharge associated with the use of such biocide or chemical is not authorized without a permit revision by the Department. Permit revisions shall be processed in accordance with the requirements of Chapter 62-620, F.A.C.

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10. There shall be no discharge of polychlorinated biphenyl compounds
11. The Permittee is authorized to utilize Ammonium Hydroxide, Carbohydrazide, Boric Acid, Dimethylamine, Hydrazine, Sodium Molybdate, Sodium Nitrite, Tolytriazole, Glutaraldehyde, Isothiazolin, Polyglycol, Sodium Hypochlorite, Boron, Lithium Hydroxide, as previously approved.

II. Industrial Sludge Management Requirements

This section not applicable to this facility.

III. Ground Water Monitoring Requirements

This section is not applicable to this facility.

IV. Other Land Application Requirements

This section is not applicable to this facility.

V. Operation and Maintenance Requirements

A. Operation of Treatment and Disposal Facilities

1. The Permittee shall ensure that the operation of this facility is as described in the application and supporting documents
2. The operation of the pollution control facilities described in this permit shall be under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control.

B. Record keeping Requirements:

1. The Permittee shall maintain the following records on the site of the permitted facility and make them available for inspection:
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports, other than those required in items a and f of this section, required by the permit for at least three years from the date the report was prepared, unless otherwise specified by Department rule;
 - c. Records of all data, including reports and documents used to complete the application for the permit for at least three years from the date the application was filed, unless otherwise specified by Department rule;
 - d. A copy of the current permit;
 - e. A copy of any required record drawings;
 - f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date on the logs or schedule.

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VI. Schedules

- 1 A Best Management Practices Pollution Prevention (BMP3) Plan shall be prepared and implemented in accordance with Part VII of this permit and the following schedule:

Action Item		Scheduled Completion Date
1	Continue Implementing Existing BMP3 Plan	Issuance Date of Permit

- 2 The Permittee shall achieve compliance with the other conditions of this permit as follows:
Operational level attained Issuance Date of permit
- 3 The Permittee shall comply with the requirements of 40 CFR Part 125.95(a)(1) and (2) no later January 7, 2008.
- 4 The Permittee shall conduct an evaluation to verify the need to continue the thermal mixing zone for Outfall D-001 and the appropriateness of the mixing zone dimensions with the timely submittal of a permit renewal application.

VII. Other Specific Conditions

A. Specific Conditions Applicable to All Permits

- 1 Drawings, plans, documents or specifications submitted by the Permittee, not attached hereto, but retained on file at the Southeast District Office, are made a part hereof
- 2 Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.
- 3 This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.

B. Specific Conditions Related to Construction

This section is not applicable to this facility

C. Duty to Reapply

- 1 The Permittee shall submit an application to renew this permit at least 180 days before the expiration date of this permit.
- 2 The Permittee shall apply for renewal of this permit on the appropriate form listed in Rule 62-620.910, F.A.C., and in the manner established in Chapter 62-620, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.
- 3 An application filed in accordance with subsections 1. and 2. of this part shall be considered timely and sufficient. When an application for renewal of a permit is timely and sufficient, the existing permit shall not expire until the Department has taken final action on the application for renewal or until the last day for seeking judicial review of the agency order or a later date fixed by order of the reviewing court.

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4. The late submittal of a renewal application shall be considered timely and sufficient for the purpose of extending the effectiveness of the expiring permit only if it is submitted and made complete before the expiration date

D. Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities

1. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels
 - (1) One hundred micrograms per liter,
 - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony, or
 - (3) Five times the maximum concentration value reported for that pollutant in the permit application.
 - b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels
 - (1) Five hundred micrograms per liter,
 - (2) One milligram per liter for antimony, or
 - (3) Ten times the maximum concentration value reported for that pollutant in the permit application

E. Reopener Clause

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620 325 and 62-620 345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Controls any pollutant not addressed in the permit

The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement
3. The Department may develop a Total Maximum Daily Load (TMDL) during the life of the permit. Once a TMDL has been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL.

VIII. General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, F.S. Any permit noncompliance constitutes a violation of Chapter 403,

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F S , and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620 610(1), F A C]*

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department *[62-620 610(2), F A C]*
3. As provided in Subsection 403 087(6), F S , the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringements of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620 610(3), F A C]*
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620 610(4), F A C]*
5. This permit does not relieve the Permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the Permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The Permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620 610(5), F A C]*
6. If the Permittee wishes to continue an activity regulated by this permit after its expiration date, the Permittee shall apply for and obtain a new permit *[62-620 610(6), F A C]*
7. The Permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the Permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620 610(7), F A C]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620 610(8), F A C]*
9. The Permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to
 - a. Enter upon the Permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

[62-620 610(9), F A C]

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10. In accepting this permit, the Permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10), F.A.C.]*
11. When requested by the Department, the Permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The Permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the Permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), F.A.C.]*
12. Unless specifically stated otherwise in Department rules, the Permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided however, the Permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12), F.A.C.]*
13. The Permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13), F.A.C.]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The Permittee shall be liable for any noncompliance of the permitted activity until the Department approves the transfer. *[62-620.610(14), F.A.C.]*
15. The Permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), F.A.C.]*
16. The Permittee shall apply for a revision to the Department permit in accordance with Rule 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16), F.A.C.]*
17. The Permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The Permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17), F.A.C.]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10)

PERMITTEE:

PERMIT NUMBER: FL0002208

FPL - St. Lucie Power Plant
6501 S. Ocean Dr
Jensen Beach, FL 34957

Issuance date: January 20, 2006
Expiration date: January 19, 2011

- b. If the Permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300(4), F.A.C. The laboratory must be certified for any specific method and analyte combination that is used to comply with this permit. For domestic wastewater facilities, the on-site test procedures specified in Rule 62-160.300(4), F.A.C., shall be performed by a laboratory certified test for those parameters or under the direction of an operator certified under Chapter 62-602, F.A.C.
 - e. Field activities including on-site tests and sample collection, whether performed by a laboratory or a certified operator, must follow the applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used where they have been approved according to the requirements of Rules 62-160.220, 62-160.330, and 62-160.600, F.A.C. [62-620.610(18), F.A.C.]
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date [62-620.610(19), F.A.C.]
20. The Permittee shall report to the Department's Southeast District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters
 - b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of untreated or treated wastewater reported pursuant to subparagraph a.4 that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the Permittee becomes aware of the discharge. The Permittee, to the extent known, shall provide the following information to the State Warning Point:
 - (a) Name, address, and telephone number of person reporting;
 - (b) Name, address, and telephone number of Permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.

PERMITTEE:

PERMIT NUMBER: FL0002208

FPL - St Lucie Power Plant
6501 S. Ocean Dr.
Jensen Beach, FL 34957

Issuance date: January 20, 2006
Expiration date: January 19, 2011

- (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b(1) above, shall be provided to Department's Southeast District Office within 24 hours from the time the Permittee becomes aware of the circumstances.
 - c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Southeast District Office shall waive the written report. *[62-620 610(20), F A C]*
- 21. The Permittee shall report all instances of noncompliance not reported under Conditions VIII 18 and 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Condition VIII 20 of this permit *[62-620 610(21), F A C]*
- 22. Bypass Provisions
 - a. Bypass is prohibited, and the Department may take enforcement action against a Permittee for bypass, unless the Permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
 - (3) The Permittee submitted notices as required under Condition VIII 22 b. of this permit
 - b. If the Permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The Permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Condition VIII 20 of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
 - c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the Permittee demonstrates that it will meet the three conditions listed in Condition VIII 22 a (1) through (3) of this permit.
 - d. A Permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of Condition VIII 22 a. through c. of this permit. *[62-620 610(22), F A C]*

PERMITTEE:

PERMIT NUMBER: FL0002208

FPL - St Lucie Power Plant
6501 S. Ocean Dr
Jensen Beach, FL 34957

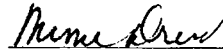
Issuance date: January 20, 2006
Expiration date: January 19, 2011

23. Upset Provisions

- a. A Permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the Permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The Permittee submitted notice of the upset as required in Condition VIII 20. of this permit; and
 - (4) The Permittee complied with any remedial measures required under Condition VIII 5. of this permit
- b. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an upset has the burden of proof
- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review
[62-620.610(23), F A C]

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Mimi Drew

Director

Division of Water Resource Management

2600 Blair Stone Road
Tallahassee, FL 32399-2400
(850) 245-8336

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER: FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESC: Condenser once through cooling water

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
PARM Code 50050 Mon. Site No. FLW-1	Permit Requirement	Report (Inst. Max.)	MGD				Hourly	Pump logs
Chlorination Duration (Unit 1)	Sample Measurement							
PARM Code 78739 Mon. Site No. EFF-1	Permit Requirement			120 (Day Max.)	MINUTES		Daily	logs
Chlorination Duration (Unit 2)	Sample Measurement							
PARM Code 50068 Mon. Site No. EFF-1	Permit Requirement			120 (Day Max.)	MINUTES		Daily	logs
Oxidants, Free Available (Unit 1)	Sample Measurement							
PARM Code 34045 Mon. Site No. EFF-1	Permit Requirement			0.2 (Day Avg.)	0.5 (Inst. Maximum)	MG/L	1/2 Months	Multiple Grabs
Oxidants, Free Available (Unit 2)	Sample Measurement							
PARM Code 34045 Mon. Site No. EFF-1	Permit Requirement			0.2 (Day Avg.)	0.5 (Inst. Maximum)	MG/L	1/2 Months	Multiple Grabs
Discharge Temperature (F), (Normal Operations)	Sample Measurement							
PARM Code 00011 Mon. Site No. EFF-2	Permit Requirement			115 (Inst. Max.) See Permit		DEG F	Hourly	Recorder
Discharge Temperature (F), (Maintenance Operations)	Sample Measurement							
PARM Code 00011 Mon. Site No. EFF-2	Permit Requirement			117 (Inst. Max.) See Permit		DEG F	Hourly	Recorder
Temp. Diff. between Intake and Discharge (Normal operations)	Sample Measurement							
PARM Code 61576 Mon. Site No. EFF-2	Permit Requirement			30 (Inst. Max.) See Permit		DEG F	Hourly	Calculated
Temp. Diff. between Intake and	Sample Measurement							

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Discharge(maintenance operations)											
PARM Code 61576 Q Mon. Site No. INT-2	Permit Requirement					82 (Inst. Max.) See Permit		DEG.F		Hourly	Calculated
Oxidants, Total Residual	Sample Measurement										
PARM Code 34044 I Mon. Site No. EFF-2	Permit Requirement					0.10 (Inst. Max.)		MGL		Continuous	Recorder

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER: FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Toxicity
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESC: Condenser once through cooling water

COUNTY: St. Lucie.

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE Menidia beryllina(Routine)	Sample Measurement							
PARM Code TAN6B P Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	PER-CENT		Once during the Permit	4 grabs/ 24 hour
LC50 STATRE 96HOUR ACUTE Menidia beryllina(Additional)	Sample Measurement							
PARM Code TAN6B Q Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	PER-CENT		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Mysidopsis bahia(Routine)	Sample Measurement							
PARM Code TAN3E P Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	PER-CENT		Once during the Permit	4 grabs/ 24 hour
LC50 STATRE 96HOUR ACUTE Mysidopsis bahia(Additional)	Sample Measurement							
PARM Code TAN3E Q Mon. Site No. EFF-2	Permit Requirement			100 (Min.)	PER-CENT		As needed	As required by the permit
	Sample Measurement							
	Permit Requirement							
	Sample Measurement							
	Permit Requirement							

*IF A SECOND DEFINITIVE TEST IS REQUIRED, ENTER THE RESULT IN AN EMPTY ROW.

**ENTER NODI=C IN THE RESULTS COLUMN IF NO DISCHARGE OCCURRED DURING THIS REPORTING PERIOD.

ENTER NODI=9 IN THE RESULTS COLUMN IF NO DEFINITIVE TESTS ARE REQUIRED.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

When Completed mail this report to: Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399

PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER: FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-003
MONITORING GROUP DESC: Liquid radiation waste discharge

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 P Mon. Site No. OUI-1	Permit Requirement	Report (Day.Avg.)	Report (Day.Max.)	MGD						1 / Per Batch of Process	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-1	Permit Requirement				30.0 (Day.Avg.)		100.0 (Day.Max.)	MG/L		1 / Per Batch of Process	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-1	Permit Requirement				15.0 (Day. Avg.)		20.0 (Day. Max)	MG/L		Annually	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-005
MONITORING GROUP DESC: Steam generator blowdown to the discharge canal

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 P Mon. Site No. OUI-2	Permit Requirement	Report (Day.Avg.)	Report (Day.Max.)	MGD						See Permit	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-2	Permit Requirement				15.0 (Day.Avg.)	20.0 (Day.Max.)		MG/L		See Permit	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-2	Permit Requirement				30.0 (Day.Avg.)	100.0 (Day.Max.)		MG/L		See Permit	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-005
MONITORING GROUP DESC: Steam generator blowdown to the discharge canal

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Hydrazine, Chemical Additive	Sample Measurement										
PARM Code 81313 Mon. Site No. EFF-2	Permit Requirement					0.30 Maximum	mg/l			See Permit	Calculation
Carbohydrazide, Chemical Additive	Sample Measurement										
PARM Code 61916 Mon. Site No. EFF-2	Permit Requirement					Report Maximum	mg/l			See Permit	Calculation
	Sample Measurement										
	Permit Requirement										

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

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PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER: FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Annual
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-06B
MONITORING GROUP DESC: Former oil storage area s storm water

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 P Mon. Site No. OUI-3	Permit Requirement	Report (Day.Avg.)	Report (Day.Max.)	MGD						Annually	Estimated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-3	Permit Requirement					Report (Day.Max.)	MG/L			Annually	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-3	Permit Requirement					Report (Day.Max.)	MG/L			Annually	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Annual
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr.
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-06C
MONITORING GROUP DESC. Non-industrial storm water to mangrove impoundment

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow PARM Code 50050 P Mon. Site No. OUI-4	Sample Measurement										
	Permit Requirement	Report (Day.Avg.)	Report (Day.Max.)	MGD						Annually	Estimated
Oil and Grease PARM Code 00556 P Mon. Site No. OUI-4	Sample Measurement										
	Permit Requirement					Report (Day.Max.)	MGL			Annually	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A DRAFT

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PERMITTEE NAME: FPL- St. Lucie Power Plant
MAILING ADDRESS: 6501 S Ocean Dr.
Jensen Beach, FL 34957

PERMIT NUMBER FL0002208-003-IW1S

LIMIT: Final
CLASS SIZE:

REPORT: Monthly
GROUP: Industrial

FACILITY: St. Lucie Power Plant
LOCATION: 6501 S Ocean Dr
Jensen Beach, FL 34957

MONITORING GROUP NUMBER: I-008

MONITORING GROUP DESC. Evaporation and percolation basin

COUNTY: St. Lucie

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 P Mon. Site No. OUI-5	Permit Requirement	Report (Day.Avg.)	Report (Day.Max)	MGD						Weekly when discharging	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-5	Permit Requirement				30.0 (Day. Avg.)	100.0 (Day.Max.)		MG/L		Weekly when Discharging	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-5	Permit Requirement				15.0 (Day. Avg.)	20.0 (Day.Max.)		MG/L		Weekly when Discharging	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions as well as the SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

- Results greater than or equal to the PQL shall be reported as the measured quantity.
- Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
- Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.