

**STATE OF FLORIDA
DEPARTMENT
OF
ENVIRONMENTAL PROTECTION**



Conditions of Certification

**City of Tallahassee
Sam O. Purdom Generating Station**

PA 97-36C

March 31, 2009

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SECTION A. GENERAL CONDITIONS

I. GENERAL

~~The following general and specific conditions shall apply to the construction and operation of the Purdom Station.~~ [Replaced with Section A. General Conditions, Condition I. Scope]

~~Prior to the completion of Purdom Unit 8, the Purdom Station may operate in accordance with existing permits. Within 90 days of the commencement of commercial operation on Unit 8, the City of Tallahassee shall surrender any existing non-federal state operating permits for and permanently shut down Units 5 and 6 at the Purdom Station.~~ [Deleted – No longer applicable]

A. Definitions [Replaced with Section A. General Conditions, Condition IV. Definitions]

~~The meaning of the terms used herein shall be governed by the definitions contained in Chapters 403, 378, 373, 372, and 253, Florida Statutes (F.S.), and any regulation adopted pursuant thereto and the statutes and regulations of any agency. In the event of any dispute over the meaning of a term used in these 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:~~

~~1. "Application" shall mean the Site Certification Application (SCA) for the Purdom Unit 8, as supplemented.~~

~~2. "DEP" or Department shall mean the Florida Department of Environmental Protection.~~

~~3. "DHR" shall mean the Florida Department of State, Division of Historical Resources.~~

~~4. "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.~~

SECTION A. GENERAL CONDITIONS

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

6. "GFWFC" shall mean the Florida Game and Fresh Water Fish Commission.

7. "Licensee" shall mean the City of Tallahassee (the City).

8. "Power plant" shall mean the electric power generating plant and appurtenances to be modified or constructed on the Purdom Station site in Wakulla County, as generally depicted in the Application.

9. "Project" shall mean the Purdom Unit 8 and all associated facilities, including but not limited to: the combined cycle unit, fuel and water storage tanks, natural gas delivery metering station, air pollution control equipment, storm water control facilities, the cooling tower and related facilities.

10. "NFWFMD" shall mean the Northwest Florida Water Management District.

11. "ROW" shall mean the reclaimed water pipeline right-of-way to be selected within the certified corridor in accordance with the conditions of certification.

12. "Water Recovery Pipeline" shall mean the reclaimed water pipeline from the St. Marks sewage treatment plant to the Purdom Generating Station.

B. Applicable Rules [Replaced with Section A. General Conditions, Condition II. Applicable Rules & Statutes]

The construction and operation of the Purdom Station shall be in accordance with all applicable provisions of at least the following regulations of DEP: Chapters 62-4, 62-17, 62-25, 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, 62-701, 62-762, 62-767, 62-769, 62-770, and 62-814, Florida Administrative Code (F.A.C.), or their successors as they are renumbered.

SECTION A. GENERAL CONDITIONS

II. CHANGE IN DISCHARGE [Replaced with Section A. General Conditions, Condition XIII. Enforcement and Condition XXIII. Modification of Certification]

~~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 frequent than, or at a level in excess of that authorized herein, shall constitute a violation of the certification. Any anticipated facility expansions beyond the certified initial generating capacities of the existing units or Unit 8, production increases, or process modifications which may result in new, different, or increased discharges of pollutants, or expansion in steam generation capacity shall be reported by submission of an application for modification pursuant to Chapter 403, F.S.~~

III. GENERAL CONDITIONS

A. Facilities Operation [Replaced with Section A. General Conditions, Condition XXX. Facility Operation and Condition V. Department Permits Under Federal Programs]

~~1. The City shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the City 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 air pollution control equipment, 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, solid waste rules, domestic wastewater rules and industrial wastewater rules. During such malfunction or shutdown, the operation of the Purdom Station 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 which is the subject of the Department's order.~~

~~3. The City shall comply with the terms and conditions contained in NPDES Permit FL0025526, Permit No. PSD-FL- 239/PA97-35, Title V Permit No.~~

SECTION A. GENERAL CONDITIONS

~~1290001-007-AV and any revisions, modifications or reissuances thereof.~~

B. Non-Compliance Notification [Replaced with Section A. General Conditions, Condition VII. Notification and Condition XXXII. Water Discharges, Paragraph B. Wastewater Incident Reporting]

~~If, for any reason, the Licensee (defined as the applicant or its successors and or assigns) does not comply with or will be unable to comply with any limitation specified in this certification, the Licensee shall notify the Northwest District office of the DEP by telephone at (850)444-8300 or the Northwest District Branch Office at (850) 488-3704. After normal business hours, report any condition that poses a public health threat to the State Warning Point under telephone number (850) 413-9911 or (850) 413-9912. The City shall confirm this non-compliance in writing at 160 Government Center, Suite 308, Pensacola, Florida 32501-5794 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 non-compliance, including exact dates and times; or if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying event.~~

~~3. Spill Notification~~

~~The City shall report all critical (having potential to significantly pollute surface or ground waters) spills of liquid or liquid-solid materials, not confined to a building or similar containment structure, to the Department by telephone immediately after discovery and submit a written report within forty-eight hours, excluding weekends, from the original notification. The telephonic report shall be submitted by calling the Northwest District Industrial Wastewater Compliance/Enforcement Section under telephone number (850) 444-8300. After normal business hours, 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 areal size of the spill and surface types (impervious, ground, water bodies, etc.) it impacted, the cleanup procedures used and status of completion, and include a~~

SECTION A. GENERAL CONDITIONS

~~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.~~

C. Safety *[Replaced with Section A. General Conditions, Condition XV. Regulatory Compliance; Condition XXX. Facility Operation; and Condition XXXII. Water Discharges, Paragraph A. Discharges]*

~~1. 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 Federal Occupational Safety and Health Standards will be complied with during construction. The Safety Standards specified under Section 442.20, F.S., by the Division of Safety of the Florida Department of Labor and Employment Security shall also be complied with.~~

~~2. 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.~~

D. Enforcement *[Replaced with Section A. General Conditions, Condition XIII. Enforcement]*

~~The Department may take any and all lawful actions as it deems appropriate to enforce any condition of this certification.~~

E. Design and Performance Criteria *[Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, Paragraph A. Design and Performance Criteria]*

SECTION A. GENERAL CONDITIONS

The power plant may be operated at up to the maximum electrical output projected from design information without the need for modifying these conditions. Treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this certification are not to be bypassed without prior DEP approval.

~~Moreover, the Licensee shall take all reasonable steps to minimize any adverse impacts resulting from noncompliance with any limitation specified in this certification, including, but not limited to, such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying event.~~ [Replaced with Section A. General Conditions, Condition XXX. Facility Operation]

F. Certification - General Conditions

~~1. The terms, conditions, requirements, limitations and restrictions set forth in these conditions of certification are the same as "Permit Conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.514, 403.727, and 403.859 through 403.861, F.S. 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 and reissuance, or permit revision. The City is placed on notice that the Department will review this approval periodically and may initiate enforcement action for any violation of these conditions.~~ [Replaced with Section A. General Conditions, Condition XIII. Enforcement]

~~2. This approval 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 approval may constitute grounds for revocation and enforcement action by the Department.~~ [Replaced with Section A. General Conditions, Condition XIV. Revocation or Suspension]

~~3. As provided in Subsections 403.087(6), 403.511, and 403.722(5), F.S., the issuance of this approval 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 or approval of any other Department approval that may be required for other aspects of the total project under federally~~

SECTION A. GENERAL CONDITIONS

delegated programs which are not addressed in this certification. [Replaced with Section A. General Conditions, Condition XV. Regulatory Compliance]

4.——This certification does not relieve the City 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 approved source, or from penalties therefore; nor does it allow the City to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The Licensee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of these Conditions which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a Licensee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with these Conditions. [Replaced with Section A. General Conditions, Condition XV. Regulatory Compliance; Condition XXX. Facility Operation; and covered in NPDES permit incorporated under Condition V. Department Permits Under Federal Programs, Paragraph B. Water, Subparagraph 1]

5.——In accepting this certification, the City understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this approved source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the approved source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S., or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules. [Replaced with Section A. General Conditions, Condition XIII. Enforcement]

6.——This certification is transferable only upon Department approval in accordance with Section 403.516, F.S., Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The City shall be liable for any noncompliance of the approved activity until the transfer is approved by the Department. [Replaced with Section A. General Conditions, Condition XXVI. Transfer of Certification]

7.——These conditions of certification or a copy thereof shall be kept at the work site of the approved activity. [Replaced with Section A. General Conditions, Condition XXXI. Records Maintained at the Facility]

8.——The City shall comply with the following:

SECTION A. GENERAL CONDITIONS

~~_____ a. _____ Upon request, the City 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 City 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 the 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. Data utilized to prepare the application may be maintained at the following locations:~~

~~_____ City of Tallahassee
_____ Purdom Facility: Port Leon Drive
_____ St. Marks, Florida 32355~~

~~_____ Electric Operations: 2602 Jackson Bluff Road*
_____ Tallahassee, Florida 32304~~

~~_____ Utility Services: City Hall*
_____ 300 South Adams Street
_____ Tallahassee, Florida 32301~~

~~_____ Foster Wheeler Environmental Company
_____ Atlanta Office: 302 Research Drive*
_____ Norcross, Georgia 30092~~

~~_____ Raytheon Engineers & Constructors
_____ Atlanta Office: 145 Technology Park*
_____ Norcross, Georgia 30092~~

~~_____ Moore/Bowers Group
_____ Tampa Office: 220 E. Madison Street*
_____ Suite 100
_____ Tampa, Florida 33602~~

SECTION A. GENERAL CONDITIONS

~~Hall Planning & Engineering
Tallahassee Office: 1237 N. Adams Street*
Tallahassee, Florida 32301~~

~~*or subsequent principle office location.~~

~~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.~~

[Replaced with Section A. General Conditions, Condition XXXI. Records Maintained at the Facility]

9. These Conditions may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Licensee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Replaced with Section A. General Conditions, Condition XIV. Revocation or Suspension; Condition XXIII. Modification of Certification; and covered in NPDES permit incorporated under Condition V. Department Permits Under Federal Programs, Paragraph B. Water, Subparagraph 1]

10. ~~The Licensee, by accepting these Conditions, 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~~

SECTION A. GENERAL CONDITIONS

~~_____ a. Enter upon the Licensee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under these Conditions;~~

~~_____ b. Have access to and copy any records that shall be kept under the conditions of these Conditions;~~

~~_____ c. Inspect the facilities, equipment, practices, or operations regulated or required under these Conditions; and~~

~~_____ d. Sample or monitor any substances or parameters at any location necessary to assure compliance with these Conditions or Department rules.~~
[Replaced with Section A. General Conditions, Condition X. Right of Entry]

~~11. When requested by the Department, the Licensee 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 these Conditions, or to determine compliance with the permit. The Licensee shall also provide to the Department upon request copies of records required by these Conditions to be kept. If the Licensee 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.~~ [Replaced with Section A. General Conditions, Condition X. Right of Entry and Condition and Condition VII. Notification]

~~12. Unless specifically stated otherwise in Department rules, the Licensee, in accepting these Conditions, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the Licensee 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.~~ [Replaced with Section A. General Conditions, Condition III. Revisions to Department Statutes and Rules and Condition V. Department Permits Under Federal Programs, Paragraph B. Water, Subparagraph 1]

~~13. The Licensee, in accepting these Conditions, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052,~~

SECTION A. GENERAL CONDITIONS

~~F.A.C. [Deleted – N/A; Covered in NPDES permit incorporated under Condition V. Department Permits Under Federal Programs, Paragraph B. Water, Subparagraph 1]~~

~~14. The Licensee 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.~~ [Covered in NPDES permit incorporated under Condition V. Department Permits Under Federal Programs, Paragraph B. Water, Subparagraph 1]

~~15. The Licensee shall apply for a revision to any Department issued PSD, Title V, or NPDES permit in accordance with Department Rules in Chapter 62, Florida Administrative Code, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with applicable rules for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in the applicable portions of Chapter 62, F.A.C.~~ [Replaced by Section A. General Conditions, Condition V. Department Permits Under Federal Programs and Condition XXIII. Modification of Certification]

~~16. The Licensee 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 Licensee 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 these Conditions. 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.~~
- [Replaced with Section A. General Conditions, Condition VII. Notification]

~~17. Water quality 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~~

SECTION A. GENERAL CONDITIONS

elsewhere in these Conditions and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).

~~_____ b. If the Licensee monitors any contaminant 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 these Conditions.~~

~~_____ d. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DEP-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. This CompQAP shall be approved for collection of samples from the required matrices and for the required tests.~~

[Covered in NPDES permit incorporated under Condition V. Department Permits Under Federal Programs, Paragraph B. Water, Subparagraph 1 and Section A. General Conditions, Condition XXVIII. Laboratories and Quality Assurance]

~~18. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in these Conditions shall be submitted no later than 14 days following each schedule date.~~

~~When requested by the Department, the City shall within a reasonable time furnish any information required by law which is needed to determine compliance with the certification. If The City becomes aware that 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.~~

[Replaced with Section A. General Conditions, Condition X. Right of Entry; Condition VII. Notification; and covered in NPDES permit incorporated under Condition V. Department Permits Under Federal Programs, Paragraph B. Water, Subparagraph 1]

G. Laboratories and Quality Assurance [Replaced with Section A.]

SECTION A. GENERAL CONDITIONS

General Conditions, Condition XXVII. Laboratories & Quality Assurance]

~~1. The Licensee shall ensure that all laboratory analytical data submitted to the Department, as required by this certification, must be 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. When a contract laboratory is used to analyze samples required pursuant to this certification, the Licensee is required to have the samples taken by qualified personnel following EPA and Department approved sampling procedures and chain-of-custody requirements in accordance with Rule 62-160, F.A.C.~~

~~3. When an in-house laboratory is used to analyze samples required pursuant to this permit, the Licensee is required to have the samples taken by a qualified technician following EPA and Department approved sampling procedures and chain-of-custody requirements. All chain-of-custody records must be retained on-site for at least three (3) years and made available to the Department immediately upon request.~~

H. Procedures for Post-Certification Submittals [Replaced with Section A. General Conditions, Condition XX. Procedures for Post-Certification Submittals]

1. Purpose of Submittals

~~Conditions of certification which provide for the post-certification submittal of information to DEP by the City are for the purpose of facilitating DEP's monitoring of the effects arising from the location of the reclaimed water pipeline ROW and the construction and maintenance of the reclaimed water pipeline and the plant 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.~~

2. Filings

~~All post-certification submittals of information by the City are to be~~

SECTION A. GENERAL CONDITIONS

~~filed with DEP. Copies of each submittal shall be simultaneously submitted to any other agency indicated in the specific conditions requiring the post-certification submittals.~~

~~3. 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 found to be incomplete, the City 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.~~

~~4. 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.~~

~~5. Reasonable Assurance of Compliance~~

~~Within ninety (90) days of the filing of a complete post-certification submittal, or 45 days after a submittal is made by the applicant, or unless another date is specified herein, DEP shall give written notification to the City 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 City shall be notified with particularity and possible corrective measures suggested. Failure to notify the City in writing within ninety (90) days of receipt of a complete post-certification submittal shall constitute a compliance determination.~~

SECTION A. GENERAL CONDITIONS

~~6. Commencement of Construction~~

~~If DEP does not object within the time period specified in Condition III.H.5., above, the City may begin construction pursuant to the terms of the conditions of certification and the subsequently submitted construction details.~~

IV. ADVERSE IMPACT [Replaced with A. General Conditions, Condition XXX. Facility Operation]

~~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 noncomplying discharge.~~

V. RIGHT OF ENTRY [Replaced with Section A. General Conditions, Condition X. Right of Entry]

~~The Licensee shall allow during normal business hours the Secretary of the Florida Department of Environmental Protection and/or authorized representatives, including representatives of the NFWMD upon the presentation of credentials:~~

~~A. To enter upon the Licensee 's premises where an emission or effluent source is located or in which records are required to be kept under the terms and conditions of this certification;~~

~~B. To have access during normal business hours (Monday-Friday, 7:00 a.m. to 3:30 p.m.) to any records required to be kept under the conditions of this certification for examination and copying;~~

~~C. To inspect and test any monitoring equipment or monitoring method required in this certification and to sample any discharge or pollutants, or monitor any substances or parameters at any location reasonably necessary to assure compliance with this certification or Department rules; and,~~

~~D. To assess any damage to the environment or violation of ambient standards.~~

SECTION A. GENERAL CONDITIONS

VI. REVOCATION OR SUSPENSION [Replaced with Section A. General Conditions, Condition XIV. Revocation or Suspension]

~~This certification may be suspended or revoked for violations of any of its conditions pursuant to Section 403.512, F.S.~~

VII. CIVIL AND CRIMINAL LIABILITY [Replaced with Section A. General Conditions, Condition XVI. Civil and Criminal Liability]

~~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, F.S., or regulations thereunder.~~

~~Subject to Section 403.511, F.S., 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.~~

VIII. PROPERTY RIGHTS [Replaced with Section A. General Conditions, Condition XV. Regulatory Compliance and Condition XVII. Use of State Lands]

~~The issuance of this certification does not convey any property rights in either real or personal property, nor 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. This certification 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.~~

IX. SEVERABILITY [Replaced with Section A. General Conditions, Condition XII. 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 provisions to other circumstances and the~~

SECTION A. GENERAL CONDITIONS

~~remainder of the certification shall not be affected thereby.~~

X. REVIEW OF SITE CERTIFICATION [Replaced with Section A. General Conditions, Condition XIV. Revocation or Suspension and Condition XXIII. Modification of Certification]

~~The certification shall be final unless revised, revoked, or suspended pursuant to law. At least every five (5) years from the date of issuance of certification the Department may review these conditions of certification and propose any needed changes.~~

XI. MODIFICATION OF CONDITIONS [Replaced with Section A. General Conditions, Condition XXIII. Modification of Certification]

~~A. Pursuant to Subsection 403.516(1), F.S., the Siting Board hereby delegates the authority to the Secretary to modify any condition of this certification.~~

~~B. Subject to the notice requirements of 403.516(1), F.S., the certification shall be automatically modified to conform to subsequent DEP issued amendments, modifications or renewals of any separately issued Prevention of Significant Deterioration (PSD) permit, Title V Air Operation permit, or National Pollutant Discharge Elimination System (NPDES) permit for the project and the conditions of such permits shall be controlling over these Conditions of Certification.~~

XII. CONSTRUCTION

~~A. Standards and Review of Plans~~ [Replaced with Section A. General Conditions, Condition VI. Design and Performance Criteria; Condition XX. Procedures for Post-Certification Submittals; Condition XXII. Post-Certification Amendments; and Condition XXIII. Modification of Certification]

~~1. The facility shall be constructed pursuant to the design standards presented in the application and the standards or plans and drawings submitted and signed by an engineer registered in the state of Florida. Specific Northwest District office acceptance of plans will be required based upon a determination of consistency with approved design concepts, regulations and these conditions prior to initiation of construction of any: industrial waste treatment facilities; domestic waste treatment~~

SECTION A. GENERAL CONDITIONS

~~facilities; potable water treatment and supply systems; ground water monitoring systems and storm water runoff systems; solid waste disposal areas; and hazardous or toxic handling facilities or areas. The Applicant shall present specific facility plans for these facilities for review by the Northwest District office at least ninety (90) days prior to construction of those portions of the facility for which the plans are then being submitted, unless other time limits are specified in the following conditions herein. Review and approval or disapproval shall be accomplished in accordance with Chapter 120, F.S., or these conditions of certification as applicable.~~

~~2. The Department must be notified in writing and prior written approval obtained for any changes, modification, or revision to be made to the project during construction which is in conflict with these conditions of certification. If there are any changes, 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, the City shall provide 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 II. since the time of the approval of these conditions. This pre-operational review of the final design and operation shall demonstrate continued compliance with Department rules and standards.~~

B. Control Measures

1. Storm Water Runoff [Replaced with Section A. General Conditions, Condition VI. Federal Permits, Paragraph B. Water and Condition XXVIII. Environmental Resources, Paragraphs A. and B. General and Surface Water Management; and Condition XXXII. Water Discharges, Paragraph A. Discharges]

~~To control runoff during construction which may reach and thereby pollute waters of the state, necessary measures shall be utilized to settle, filter, treat or absorb silt containing or pollutant laden storm water to ensure against spillage or discharge of excavated material that may cause turbidity in excess of 29 Nephelometric Turbidity Units above background in waters of the state. Control measures may consist~~

SECTION A. GENERAL CONDITIONS

~~of sediment traps, barriers, berms, and vegetation plantings. Exposed or disturbed soil shall be protected and stabilized as soon as possible to minimize silt and sediment-laden runoff. The pH of the runoff shall be kept within the range of 6.0 to 8.5. The Licensee shall comply with Chapter 62-25, F.A.C.~~

2. Open Burning **[Replaced with Section A. General Conditions, Condition IX. Construction Practices, paragraph B. Open Burning]**

~~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 approved by the Northwest District office in conjunction with the Division of Forestry and any other county regulations that may apply. Burning shall not occur unless 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. Sanitary Wastes **[Replaced with Section A. General Conditions, Condition IX. Construction Practices, paragraph D. Sanitary Wastes]**

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

4. Solid Wastes **[Replaced with Section A. General Conditions, Condition XXXIII. Solid and Hazardous Waste, paragraph A. Solid Waste]**

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

5. Noise

~~———Construction noise shall not exceed noise requirements of the City of St. Marks Land Development Code.~~

SECTION A. GENERAL CONDITIONS

6. Dust and Odors [Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, Paragraph B. Control Measures, subparagraph 1. Dust and Odors]

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 on adjoining property.

7. Transmission Lines [Replaced with Section B. Specific Conditions, Condition VII. Department of Agriculture and Consumer Services]

~~The directly associated transmission lines from the Purdom Station electric switchyard to the existing City transmission lines shall be maintained in accordance with the application and the appropriate state and federal regulations concerning use of herbicides. The City shall notify the Department of the type of herbicides to be used at least 60 days prior to its first use.~~

8. Protection of Vegetation [Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, paragraph A. Control Measures, subparagraph 3. Protection of Vegetation]

The Licensee shall develop the site so as to retain a buffer of trees or shall plant a buffer of trees sufficient to minimize the aesthetic and noise impacts of the facility as described in the application. The buffer, as far as practicable, shall be of sufficient height and width suitable for the purpose of mitigating both construction and operational impacts of the facility.

9. Dewatering Operations [Replaced with Section A. General Conditions, Condition XXXII. Water Discharges, Paragraph A. Discharges, Subparagraph 3 and Condition XXXVIII. Environmental Resources, Paragraph B. Surface Water Management, Subparagraph 10]

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

SECTION A. GENERAL CONDITIONS

10. Historical or Archaeological Finds [Replaced with Section B. Specific Conditions, Condition VI. Department of State – Division of Historical Resources]

~~If historical or archaeological artifacts, such as Indian canoes, are discovered at any time within the project site, the Licensee shall notify the DEP Northwest District office and the Bureau of Historic Preservation, Division of Historical Resources, R.A. Gray Building, Tallahassee, Florida 32399-0250, telephone number (850) 487-2073.~~

C. Environmental Control Program [Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, paragraph A. Control Measures, subparagraph 2. 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 Northwest District office as required by Condition III.B.

D. Reporting [Replaced by Section A. Condition XXVIII. Environmental Resources, Paragraph B., Subparagraph 5]

~~Notice of commencement of construction shall be submitted to the Siting Coordination Office and the Northwest 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 Northwest District office. The report shall be a short narrative describing the progress of construction.~~

XIII. AIR [Replaced with Section A. General Conditions, Condition VI. Federal Permits, paragraph A. Air and Condition XXIII. Modification of Certification]

A. Administrative

SECTION A. GENERAL CONDITIONS

~~1. All documents related to applications for permits to construct, operate or modify an emissions unit should be submitted to the Bureau of Air Regulation, MS 5500, Florida Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, telephone (850) 488-1344, and the Siting Coordination Office, MS 48, Florida Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, telephone (850) 245-8001. All documents related to reports, tests, and notifications should be submitted to the Department's Northwest District Office, 160 Government Center, Pensacola, FL 32501-5794, Phone Number (850) 595-8300~~

~~2. The terms, conditions, requirements, limitations, and restrictions set forth in Title V Final Permit - 1290001-007-AV Section III, Subsection F, which is attached as Appendix A to these Conditions, and any modification or amendment to such Title V permit, are incorporated by reference herein, and are binding and enforceable Conditions of this Certification. The licensee is subject to and shall comply with the terms, conditions, requirements, limitations, restrictions set forth in Appendix A. A violation of the terms conditions, requirements, limitations and restrictions in Appendix A is a violation of these Conditions of Certification.~~

~~3. The Department is delegated the authority to modify these Conditions of Certification to conform them to any subsequently issued amendment or modification to Permit No. 1290001-007-AV, pursuant to Conditions XI.~~

~~4. The provisions set forth in Conditions XIII.B excerpted from Permit Title V - 1290001-007-AV Section III, Subsection F, and are a portion of the provisions that will be enforced.~~

B. Unit 8

~~1. Description:~~

~~This emissions unit is a combined cycle combustion turbine (CT) system designated as Unit 8. It consists of a 160 MW (nominal rating) GE Series 7FA combustion turbine with DLN-2.6 (or later version) dry low NOX (gas) and water injection (diesel) burners and a non-fired heat recovery steam generator (HRSG) with a nominal 90 MW steam turbine. The turbine can be fired either by natural gas or no. 2 fuel oil. The compressor inlet air will be conditioned by an evaporative cooler when needed. The turbine is started using the generator and a static start system. Unit 8 also includes a new cooling tower.~~

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2. Permitted Capacity:

Unit No.	MMBtu/hr Heat Input	Fuel Type
8	1696 (LHV @ 59 degrees Fahrenheit, 60% Relative Humidity, and 14.7 psi)	Natural Gas
	1897 (LHV @ 59 degrees Fahrenheit, 60% Relative Humidity, and 14.7 psi)	No. 2 Fuel Oil

These maximum heat input rates will vary depending upon compressor inlet conditions and the combustion turbine characteristics. Manufacturer's curves or equations for correction to other compressor inlet conditions shall have been provided to the Department of Environmental Protection (DEP) within 45 days of completing the initial compliance testing and shall be resubmitted at any time that they are changed as the result of new testing. These curves or equations shall be used to establish the maximum allowable heat inputs at other compressor inlet conditions for compliance determinations. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; 40 CFR 60.332(b); and, PSD-FL-239/PA97-36.]

3. Emission Limits and Standards

The following is a summary of the BACT determinations by DEP:

Table 1. Emission Limits		
Pollutant	Fuel	BACT Standard
NO _x	Gas	12 ppmvd @ 15 % O ₂ ^{(a) (d)}
	Oil	42 ppmvd @ 15 % O ₂ ^{(a) (b) (d)}
SO ₂	Gas	Good combustion
	Oil	Good combustion of low (0.05%) sulfur fuel oil
PM/PM ₁₀	Gas	Good combustion
	Oil	Good combustion of low (0.05%) sulfur fuel oil
Visible Emissions	Gas	10 percent opacity
	Oil	10 percent opacity
CO	Gas	25 ppmvd ^(e)
	Oil	90 ppmvd ^(e)

(a) 30-day rolling average excluding startup, shutdown, malfunction, and fuel switching.

SECTION A. GENERAL CONDITIONS

~~(b) Plus an allowance for fuel bound nitrogen using the formula provided in Condition XIII.B.4.~~

~~(c) By testing concurrent to RATA testing or by 3 one hour runs of Method 10.~~

~~(d) Not corrected to ISO conditions.~~

~~_____ a. _____ Visible Emissions. Visible emissions shall not exceed 10 percent opacity when firing either natural gas or No. 2 fuel oil. Drift eliminators shall be installed on the cooling tower to reduce PM/PM₁₀ emissions.~~

~~_____ b. _____ Oxides of Nitrogen. Oxides of nitrogen emissions when firing natural gas shall not exceed 12 ppmvd at 15% O₂, not corrected to ISO conditions, on a 30-day rolling average basis (except during periods of startup, shutdown, malfunction or fuel switching), as measured by CEMS. When monitoring data is not available, substitution for missing data shall be handled as required by Title IV (40 CFR 75) to calculate the 30 day rolling average.~~

~~_____ c. _____ Oxides of Nitrogen. Oxides of nitrogen emissions when firing No. 2 fuel oil shall not exceed 42 ppmvd at 15% O₂ on a 30-day rolling average basis (except during periods of startup, shutdown, malfunction or fuel switching), as measured by CEMS, when fuel bound nitrogen (FBN) values are less than or equal to 0.015 percent. For fuel bound nitrogen values up to 0.03 percent, the allowance (and the adjusted standard) shall be determined, recorded, and maintained upon each new fuel delivery by the following formula:~~

~~STD = 0.0042 + F where:~~

~~STD = allowable NO_x emissions (percent by volume at 15 percent O₂ and on a dry basis).~~

~~F = NO_x emission allowance for fuel-bound nitrogen defined by the following table:~~

Fuel-Bound Nitrogen(% by Weight)	F (NO_x % by Volume)
0 < N ≤ 0.015	0
0.015 < N ≤ 0.03	0.04 (N-0.015)

~~where: N = the nitrogen content of the fuel (% by weight)~~

~~Note: 0.0042 percent = 42 ppm~~

~~_____ d. _____ Oxides of Nitrogen. Beginning with the calendar year following successful completion of the initial performance test for Unit 8, annual~~

SECTION A. GENERAL CONDITIONS

~~emissions of NO_x shall not exceed 467 tons per year from the Purdom facility (Unit 8, Unit 7, GT1, GT2, and the auxiliary boiler) on a calendar year basis, as measured by applicable compliance methods. [Requested by the applicant]~~

~~e. Sulfur Dioxide. Beginning with the calendar year following successful completion of the initial performance test for Unit 8, annual emissions of SO₂ shall not exceed 80 tons per year from the Purdom facility (Unit 8, Unit 7, GT1, GT2, and the auxiliary boiler) on a calendar year basis, as measured by applicable compliance methods. [Requested by the applicant]~~

~~f. Carbon Monoxide. Carbon monoxide emissions when firing natural gas shall not exceed 25 ppmvd as measured by Method 10.~~

~~g. Carbon Monoxide. Carbon monoxide emissions when firing No. 2 fuel oil shall not exceed 90 ppmvd as measured by Method 10.~~

~~4. Unit 8 Excess Emissions~~

~~a. Excess emissions resulting from startup, shutdown, malfunction or fuel switching shall be permitted provided that best operational practices are adhered to and the duration of excess emissions shall be minimized but in no case exceed four hours in any 24-hour period for cold startup or two hours in any 24-hour period for other reasons unless specifically authorized by DEP for longer duration.~~

~~b. 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 pursuant to Rule 62-210.700, F.A.C.~~

~~c. Excess Emissions Report: If excess emissions occur due to malfunction, the owner or operator shall notify DEP's Northwest District office within (1) working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Department may request a written summary report of the incident. Pursuant to the New Source Performance Standards, excess emissions shall also be reported in accordance with 40 CFR 60.7, Subpart A. [Rules 62-4.130 and 62-210.700(6), F.A.C.]~~

SECTION A. GENERAL CONDITIONS

~~5. Compliance, Reporting and Record Keeping:~~

~~a. Annual (A) compliance tests shall be performed during every federal fiscal year (October 1 – September 30) pursuant to Rule 62-297.340, F.A.C.~~

~~b. An initial test for CO, concurrent with the initial NO_x test, is required. The initial NO_x and CO test results shall be the average of three valid one-hour runs. The DEP's Northwest District office shall be notified, in writing, at least 30 days prior to the initial compliance tests and at least 15 days before annual compliance test(s). Testing of emissions shall be conducted with the combustion turbine operating at permitted capacity. Permitted capacity is defined as 95-100 percent of the maximum heat input rate allowed by the permit, corrected for the average ambient air temperature during the test (with 100 percent represented by a curve depicting heat input vs. ambient temperature). If it is impracticable to test at permitted capacity, the source may be tested at less than permitted capacity. In this case, subsequent operation is limited by adjusting the entire heat input vs. ambient temperature curve downward by an increment equal to the difference between the maximum permitted heat input (corrected for ambient temperature) and 105 percent of the value reached during the test until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity. Compliance test results shall be submitted to the DEP's Northwest District office no later than 45 days after completion of the last test run.~~

~~c. Emission Compliance Stack Test Reports: A test report indicating the results of the required compliance tests shall be filed with the DEP NW District Office as soon as practical, but no later than 45 days after the last sampling run is completed. [Rule 62-297.310(8), F.A.C.]. The test report shall provide sufficient detail on the tested emission unit and the procedures used to allow the Department to determine if the test was properly conducted and if the test results were properly computed. At a minimum, the test report shall provide the applicable information listed in Rule 62-297.310(8), F.A.C.~~

~~d. Quarterly excess emission reports, in accordance with 40 CFR 60.7 (7) (c) (1997 version), shall be submitted to the DEP's Northwest District office.~~

~~e. Pursuant to Rule 62-210.370(2), F.A.C., Annual Operation Reports, the permittee is required to submit annual reports on the actual operating rates~~

SECTION A. GENERAL CONDITIONS

and emissions from this facility. Annual operating reports shall be sent to the DEP's Northwest District office by March 1st of each year.

~~f. All measurements, records, and other data required to be maintained by the City of Tallahassee shall be retained for at least five (5) years following the date on which such measurements, records, or data are recorded. These records shall be made available to DEP representatives upon request.~~

~~g. Compliance with the annual facility-wide NO_x cap shall be determined by adding the annual NO_x emissions in tons per year determined by the CEMS required by 40 CFR 75 for Unit 8 along with existing Unit 7 to annual NO_x emissions calculated for existing units GT1, GT2 and the auxiliary boiler determined by the following formulas:~~

~~GT 1 & GT 2 NO_x (natural gas) = (Fuel Usage) X (Heating Value of Natural Gas) X (0.44 lb/mmBtu) X units conversion factors~~

~~Fuel Usage shall be measured by fuel meter, recorded daily when unit is operated~~

~~Heating Value of Natural Gas will be determined from fuel supplier data~~

~~0.44 lb/mmBtu = AP-42 emission factor~~

~~GT 1 & GT 2 NO_x (fuel oil)= (Fuel Usage) X (Heating Value of Fuel Oil) X (0.698 lb/mmBtu) X units conversion factors~~

~~Fuel Usage shall be measured by fuel meter, recorded daily when unit is operated~~

~~Heating Value of Fuel Oil will be determined from fuel supplier data~~

~~0.698 lb/mmBtu = AP-42 emission factor~~

~~Aux. Boiler NO_x (natural gas) = (Fuel Usage) X (140 lb/mm CF) X units conversion factors~~

~~Fuel Usage shall be measured by flow meter, recorded daily when unit is operated~~

~~140 lb/mmCF = AP-42 emission factor~~

~~h. Compliance with the annual facility-wide SO₂ cap shall be determined by adding the annual SO₂ emissions in tons per year determined by the methods required by 40 CFR 75 for Unit 8 along with existing Unit 7 to annual SO₂ emissions calculated for existing units GT1, GT2 and the auxiliary boiler determined by the following formulas:~~

SECTION A. GENERAL CONDITIONS

- ~~GT 1 & GT 2 SO₂ Emissions (natural gas) = (Fuel Usage) X (Heating Value of Natural Gas) X (0.0006 lb/mmBtu) X units conversion factors~~
- ~~Fuel Usage shall be measured by fuel meter, recorded daily when unit is operated~~
- ~~Heating Value of Natural Gas from fuel supplier data~~
- ~~Sulfur Content default of NADB = 0.0006 lb-SO₂/mmBtu~~

- ~~GT 1 & GT 2 SO₂ Emissions (fuel oil) = (Fuel Usage) X (Fraction Sulfur in the fuel oil) X (Molecular weight SO₂ / Molecular weight of S) X (Conversion factor) X units conversion factors~~
- ~~Fuel Usage shall be measured by fuel meter, recorded daily when unit is operated~~
- ~~% Sulfur will be determined from fuel oil analysis each time fuel is delivered (i.e., 0.05% S = 0.0005 in the above formula)~~
- ~~Molecular weight of SO₂ = 64~~
- ~~Molecular weight of S = 32~~
- ~~Conversion factor of 95% = 0.95~~

- ~~Aux. Boiler SO₂ Emissions (natural gas) = (Fuel Usage) X (Heating Value of Natural Gas) X (0.0006 lb/mmBtu) X units conversion factors~~
- ~~Fuel Usage shall be measured by fuel meter, recorded daily when unit is operated~~
- ~~Heating Value of Natural Gas from fuel supplier data~~
- ~~Sulfur Content default of NADB = 0.0006 lb/mmBtu~~

XIV. STORMWATER DISCHARGE [Replaced with Section A. General Conditions, Condition V. Federal Permits, Paragraph B. Water, Subparagraph 3; Condition XXXVIII. Environmental Resources, Paragraph B. Surface Water Management; Condition X. Right of Entry; and Condition XV. Regulatory Compliance]

A. The existing Purdom Generating Station surface water management system is permitted to discharge storm water under the terms and conditions imposed by EPA's storm water general permit issued for use in the State of Florida. The facility's permit number is FLR00A317. The City of Tallahassee is required to continue to update the Purdom Station's Storm Water Pollution Prevention Plan (SWPPP) annually, as required by the general permit; and to implement the annual revisions to the SWPPP.

B. New construction on the Purdom site must meet the requirements of

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Chapter 62-25 of the Florida Administrative Code, as well as the design requirements presented in the Site Certification Application (SCA). Any new stormwater facilities associated with Purdom Unit 8 will not become operational until an engineer practicing in the State of Florida in compliance with Section 471.003(2)(d) Florida Statutes, and with the appropriate experience in surface water design, certifies that these facilities have been constructed in accordance with the design as approved by the Florida Department of Environmental Protection (FDEP).

C. This certification is predicated on the City of Tallahassee's submitted information to FDEP which reasonably demonstrates that adverse off-site water resource related impacts will not be caused by the authorized activities.

D. FDEP representatives shall be allowed reasonable escorted access to the power plant site to inspect and observe any activities associated with the Purdom Unit 8 Project construction and/or the operation and/or maintenance of the surface water management system in order to determine compliance with the conditions of this certification. The City of Tallahassee shall not refuse immediate entry or access, upon reasonable notice, to any FDEP representative who requests entry for the above noted inspection and presents appropriate credentials.

E. The City of Tallahassee shall hold and save FDEP harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance and/or use of any facility authorized by this certification, to the extent allowed under Florida law.

XV. Domestic Wastewater [Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, Paragraph C. Domestic Wastewater]

The City is authorized to continue disposing of domestic wastewater in the City of St. Marks sewerage treatment system. Any future request for onsite treatment will require approval to construct and operate any such new facility and will be subject to the non-procedural provisions of Chapter 403, F.S., and F.A.C. Chapters ~~62-3, 62-4,~~ and pertinent chapters within the 62-300, 62-500 and 62-600 Series.

SECTION A. GENERAL CONDITIONS

~~XVI. Drinking Water Facilities~~ [Delete – not relevant]

A. Use of Existing Facilities

~~_____ The approval to operate and expand the distribution system for the existing potable water distribution system is subject to the non-procedural provisions of Chapter 403, F.S., and pertinent Chapters within the F.A.C. Rules in Chapter 62-500 Series and Chapter 62-699. The City is approved to continue to operate the existing, permitted potable water system as shown on any previously submitted and approved drawings, plans, and other documents attached thereto or on file with the DEP or Department of Health and made a part thereof. The City will submit a copy of any revisions to current plans to the DEP NW District Office.~~

~~_____ Pursuant to Rule 62-555.540, F.A.C., any proposed extension of the potable water system to serve the expanded plant facilities may be undertaken following the filing with the DEP a completed copy of DEP Form 62-555.910(1), F.A.C. Such form shall be submitted no later than 90 days prior to beginning work on the extension of the distribution system to serve the new connections. This activity shall be subject to the requirements of Rule 62-555.540, F.A.C. The conditions set forth on conditions XV.B. and C. below shall apply to any future construction or expansion of any potable water system on the site.~~

B. Prior Approval

~~_____ 1. No portion of a new potable water supply system or any portion of a water supply system that will be or is intended to be converted to potable water use at a later date may be constructed without prior written approval from the Department. Construction of any portion of a new potable water supply system without the prior written approval of the Department will be considered a violation of the conditions of certification.~~

~~_____ 2. In order to obtain approval to construct a new onsite water supply system where the potable water is to be supplied by an off-site water supply system, the following information must be submitted to the Department no earlier than eighteen (18) months prior to nor later than six months prior to the date that the water supply system is proposed for construction:~~

~~_____ a. A completed and fully executed application form which~~

SECTION A. GENERAL CONDITIONS

~~complies with the nonprocedural requirements of the rules and regulations of the Department in effect as of the date that the request for approval to construct the system is made to the Department; however, the Department will not accept "An Intent to Use a General Permit" for such a project. Reference: F.A.C. Rules 62-4.050, 62-555.500, .520, and .530.~~

~~_____ b. _____ Complete specifications for the material and workmanship covering the entire new potable water supply system for which the request for approval to construct is being made. The specification must be signed and sealed by an engineer registered in the state of Florida and must provide documentation that the material and workmanship will comply with all applicable nonprocedural rules of the Department in effect as of the date that the request for approval to construct is made to the Department. Reference: F.A.C. Rules 62-4.050, Rules 62-2.555.520, 62-555.530, and 21H-23.~~

~~_____ c. _____ Complete engineering drawings of the entire proposed potable water supply system for which approval to construct is being made. The drawings must demonstrate full compliance with all applicable nonprocedural rules and regulations of the Department in effect as of date that the request for approval to construct is made to the Department. The drawing must be signed and sealed by an engineer registered in the state of Florida. Reference: F.A.C. Rules 62 and 4.050, 62-555.520, 62-555.530, and 21H-23.~~

~~_____ d. _____ Signed and sealed comprehensive engineering report on the new potable water supply system which fully describes that project and basis of design. The report must include design data and such pertinent data to give an accurate understanding of the work to be undertaken and must provide supporting documentation that the new potable water system as proposed will comply with all applicable nonprocedural rules and regulations of the Department in effect as of the date that the request for approval to construct the water supply system is made to the Department. Reference: F.A.C. Rules 62-4.050, 62-555.520, 62-555.530, and,~~

~~_____~~

~~_____ e. _____ Documentation that the public water supply system supplying the water has the capacity in its water treatment system to serve the project and that the existing water transmission line from that system's water treatment plant to the point of connection with water supply system the City is proposing to construct has been designed and sized to provide sufficient water to meet the demand of the City project. Reference: F.A.C. Rules 62-4.050, 62-555.350, 62-555.520, and 62-555.530.~~

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~~3. Should the City request approval to construct a potable water treatment system which produces a waste stream (e.g., softening, electrodialysis, reverse osmosis, etc.) other than as described in the original SCA, the City must submit as part of its request for approval to construct that water supply system documentation that the disposal of that waste stream has been approved by the appropriate agency or section of the Department.~~

C. Construction

~~1. The City must retain the services of a project engineer registered in the state of Florida to observe that the construction of any changes in the water supply system is in accordance with the plans and specifications approved by the Department. The project engineer will be responsible for certifying to the Department that he/she observed the construction and that the construction conformed to the plans and specifications approved by the Department.~~

~~2. The approval to construct a new or modify the existing potable water supply system will be in effect for two (2) years from the date of issuance. All construction of the potable water supply system must be completed within this two (2) year period unless a written request for an extension of this date is made to the Department at least sixty (60) days prior to the expiration of the construction approval, and written approval for an extension of the expiration date is issued by the Department. The expiration date of the construction approval may be extended on a year-by-year basis. The maximum length of time that the approval or each subsequent approval for the construction of the potable water system may be in effect is five (5) years from the date of the original approval or for subsequent approvals from the date of issuance of each approval. Should the construction of the water supply system not be completed within that five (5) year period, should the City have failed to request a timely extension of the approval expiration date, or should any water quality analysis submitted with the request for an extension of the expiration date demonstrate the presence of a contaminant for which the water treatment plant was not originally designed to handle, or as additional wells are installed on-site and proposed for connection to the potable water system, the City will have to make a new request to the Department for approval to construct the potable water system. That request must meet the submittal and approval requirements of the rules of the Department in effect as of the date that the request for approval is submitted and will be subject to the same review schedule as the original request.~~

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~~3. No future, modified portion of the potable water supply system may be placed into service without the prior written approval of the Department except as authorized herein for extension of the potable water distribution system. Placing any portion of a modified potable water supply system into service prior to receipt of this written approval will be considered as a violation of the conditions of certification.~~

~~4. The Department will not issue approval to place the modified or new potable water supply system or any portion of that system into service unless the construction of the system or portion thereof had been approved for construction by the Department prior to the commencement of that construction.~~

~~5. In order to obtain approval to place a new portion of the potable water supply system into service, the City must make a written request for clearance to the Department. The request must be in the form and/or manner stipulated in the letter authorizing construction of the potable water supply system and must include all information stipulated in that letter as being required to be submitted with the request for clearance, as well as any information required for clearance of a potable water supply system contained in applicable rules and regulations of the Department in effect as of the date that the request for clearance is made.~~

~~6. The Department will issue a letter of clearance to place the new or modified potable water supply system into service within thirty (30) days of receipt of a written request for clearance, provided that the request is accompanied by all necessary supporting documentation and meets the criteria for clearance contained in the applicable rules and regulations of the Department in effect as of the date that the request for clearance was made.~~

XVII. NPDES [Replaced with Section A. General Conditions, Condition V. Department Permits Under Federal Programs, Paragraph B. Water, Subparagraph 1]

~~The terms, conditions, requirements, limitations, and restrictions set forth in NPDES Final Permit No. FL 0025526, which is attached as Appendix B to these Conditions, and any modification or amendment to such NPDES permit, are incorporated by reference herein, and are binding and enforceable Conditions of this Certification. The licensee is subject to and shall comply with the terms, conditions, requirements, limitations, restrictions set forth in Appendix B. A violation of the terms conditions, requirements, limitations and restrictions in Appendix B is a violation of these Conditions of Certification. The Department is delegated the authority to modify~~

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~~these Conditions of Certification to conform them to any subsequently issued amendment or modification to Permit No. FL 0025526, pursuant to Conditions XI.~~

A. Description:

~~The facility consists of four generating units: One steam electric generating unit (Unit 7), one combined cycle unit (Unit 8), and two gas/combustion turbine units (GT-1 and GT-2) used for peaking capacity. The maximum nameplate generating capacities for these units are 44 megawatts (MW), 250 MW, and 12.3 MW each, respectively. Units 8, GT-1, and GT-2 are fired by No. 2 fuel oil or natural gas. Unit 7 is fired by No. 6 fuel oil or natural gas. Unit 7 incorporates a once-through non-contact condenser cooling water (OTCW) system with intake water from the St. Marks River. Unit 8 operates as a zero discharge (ZD) system, except during ZD system maintenance downtime, when Unit 8 maintenance blowdown discharges into the Unit 7 OTCW discharge through an internal outfall. Unit 8 makeup water consists of reclaimed water from the City of St. Marks domestic wastewater treatment plant, industrial wastewater from the St. Marks Powder, Inc. facility, and surface water from the St. Marks River. Unit 7 OTCW discharges to the St. Marks River, a Class III fresh water.~~

Treatment:

~~Wastewater from the Purdom facility consists of OTCW from Unit 7, maintenance blowdown from Unit 8, and once-through, non-contact auxiliary equipment cooling water from Units GT-1 and GT-2. Maintenance blowdown consists of cooling tower blowdown (CTBD) from Unit 8 and low volume waste (LVW) from Units 7 and 8. LVW includes floor drains, boiler blowdown, demineralizer regeneration waste, laboratory wastes, and miscellaneous equipment washes. Unit 8 cooling tower water is treated by pH adjustment, mixing, sedimentation, and disinfection with sodium hypochlorite, and by the addition of sulfuric acid, scale inhibitor, corrosion inhibitor, and copper corrosion inhibitor. LVW is treated in an oil/water separator and then routed to the Unit 8 Cooling Tower for use as makeup water.~~

C. Effluent Disposal and Limitations:

~~1. Surface Water Discharge:~~

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~~An existing 61.9 MGD maximum discharge of OTCW from Unit 7 to the discharge canal at outfall D-001 (formerly I-017) and thence to the St. Marks River (Class III Fresh waters) from Unit 7 through D-001 located approximately at latitude 30° 09' 00" N, longitude 84° 10' 00" W.~~

~~An existing 1.0 MGD maximum discharge of once-through auxiliary equipment cooling water (AECW) from Units GT-1 and GT-2 to the discharge canal at D-005 and thence to the St. Marks River (Class III Fresh waters) from combustion turbines GT-1 and GT-2 through D-005. The discharge is located approximately at latitude 30° 09' 72.1" N, longitude 84° 12' 00.4" W.~~

~~2. Internal Outfalls:~~

~~This permit authorizes discharge of maintenance blowdown via a new internal outfall I-002 from Unit 8 into a concrete structure in which it mixes with OTCW from Unit 7 before entering the discharge canal.~~

~~3. Stormwater Outfalls:~~

~~An existing stormwater discharge to the St. Marks River (Class III Fresh waters) through D-003 from the North diked petroleum storage area located approximately at latitude 30° 09' 76.0" N, longitude 84° 11' 91.4" W.~~

~~An existing stormwater discharge to the St. Marks River (Class III Fresh waters) through D-004 from the south diked petroleum storage area located approximately at latitude 30° 09' 66.7" N, longitude 84° 11' 94.4" W.~~

D. Effluent Limitations and Monitoring Requirements

~~1. Surface Water Discharge~~

~~During the period beginning on the issuance date and lasting through the expiration date of this permit, the licensee is authorized to discharge Once-through non-contact condenser cooling water from Unit 7 at Outfall D-001 (formerly I-017). Discharge will be limited and monitored as outlined in NPDES Permit FL 0025526, specifically I.A.1.-13.~~

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~~2. Monitoring and Reporting~~

~~Sample collection, monitoring and reporting are outlined in NPDES Permit FL0025526, specifically I.E.1. 12. 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 Northwest District Office at the address specified below:~~

~~Northwest District Office
160 Government Center
Pensacola, FL 32501-5794~~

~~Phone Number (850) 595-8300~~

~~FAX Number (850) 595-8300 (All FAX copies shall be followed by original copies.)~~

XVIII. GROUNDWATER [Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, paragraph D. Groundwater]

When required by Florida Administrative Code Chapter 62-701, the City shall file a Ground Water Monitoring plan within 180 days of being advised by the Department for review and approval by the Northwest District of the DEP.

XIX. TOXIC, DELETERIOUS OR HAZARDOUS MATERIALS

A. Spills [Replaced with Section A. General Conditions, Condition VII. Notification and Condition XXXIII. Solid & Hazardous Waste, Paragraph C. Hazardous Substance Release Notification]

The spill of any toxic, deleterious, or hazardous materials shall be reported in the manner specified by Condition III.B., Noncompliance Notification.

B. Handling and Testing of Potentially Hazardous Material [Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, paragraph E. Solid and Hazardous Waste, Paragraph 1. Handling of Hazardous Material]

The City shall continue to implement its current plan for handling and disposing of hazardous wastes.

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XX. BY-PRODUCT AND SOLID WASTE STORAGE [Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, Paragraph E. Solid and Hazardous Waste, Paragraph 2. By-Product and Solid Waste Storage]

A. Solid Waste General

1. Any solid waste produced by the operation of the facility shall be disposed of in an approved disposal facility. By-products that are to be sold for reuse are not considered solid waste.

B. By-Product & Solid Waste Site Specific Standards

1. Any future by-product storage areas shall be designed, constructed, operated, maintained, closed and monitored in accordance with acceptable waste disposal practices providing environmental protection equivalent to those described in F.A.C. Chapter 62-701, or Chapter 62-673, as appropriate, and these conditions of Certification. The prohibitions of F.A.C. Chapter 62-701 shall not be violated.

2. All engineering plans, reports, and related information shall be provided by the engineer of record with professional certification and shall be approved by the NWSSWD of the DEP prior to construction. A construction certification report signed and sealed by a professional engineer, and record drawings showing all modifications to construction plans, shall be submitted to the NWSSWD of the DEP prior to operation of each by-product or solid waste storage and disposal area.

XXI. FEDERAL OPERATING PERMITS AND FEES [Replaced with Section A. General Conditions, Condition V. Federal Permits]

A. DEP Responsibilities

~~_____ The Department of Environmental Protection shall implement the provisions of Title V of the 1990 Clean Air Act and the NPDES program for the Purdom Generating Station developing conditions of certification requiring submission of annual operating permit information and annual pollutant emission fees in accordance with~~

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~~federal law and federal regulations and sections 403.0885, 403.0872, 403.5055, 403.509, and 403.511, F.S.~~

B. City of Tallahassee Responsibilities

~~_____ The City shall submit the appropriate annual operating information as well as the appropriate annual pollutant emission and NPDES fees as required by federal law to the Department.~~

XXII. Construction of Linear Facilities [Moved to Section B. Specific Conditions, Condition I. Department of Environmental Protection, Paragraph F. Linear Facilities, Subparagraph 1. Construction of Linear Facilities]

Construction of the reclaimed water pipeline or other future linear facilities shall be in conformance with Best Management Practices for linear facilities. Construction of the reclaimed water pipeline shall also be in conformance with the conditions of certification recommended by the Department of Community Affairs and the Department of Transportation.

XXIII. NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT

[Moved to Section B. Specific Conditions, Condition II. Northwest Florida Water Management District]

A. This certification is issued based on information provided by the City of Tallahassee demonstrating that the use of water is reasonable and beneficial as defined by Section 373.019(4), Florida Statutes (F.S.), consistent with the public interest, and will not interfere with any legal use of water existing on the effective date of the Site Certification Application (SCA). If any of the statements in the Site Certification Application are found to be untrue and/or inaccurate, if the use is determined to no longer be reasonable and beneficial and in the public interest, or if the City of Tallahassee fails to comply with all of the Conditions of Certification, the Northwest Water Management District (the District) may initiate action for modification, suspension, or revocation of the certification.

B. The City of Tallahassee shall obtain all other necessary permits to construct, operate, and certify the withdrawal facilities and the operation of the water system.

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C. The City of Tallahassee will continue ownership, lease, or other present control of property rights in underlying, overlying, or adjacent lands. This portion of the certification may be assigned to a subsequent owner who shall accept all of the terms and conditions of this portion of the certification.

D. ~~Beginning with the effective date of this permit, and continuing until Purdom Units 5 and 6 are permanently shut down, withdrawals of individual facilities and combined withdrawals will not exceed the flows as shown below:~~

Withdrawals will not exceed the flows as shown below:

Withdrawal Point		Average Daily Flow gallons	Maximum Daily Flow gallons	Maximum Monthly Flow gallons
#	Description			
SOP-6	Well	40,650	260,000	7,800,000
SOP-7	Well	40,650	260,000	7,800,000
SOP-8	Well	40,650	260,000	7,800,000
SOP-9	Well	40,650	260,000	7,800,000
Total all Wells		162,600	374,400	11,000,000
SW-4	Unit 4 C.W.	1,400,000	7,200,000	216,000,000
SW-5	Unit 5 C.W.	19,879,315	34,560,000	1,036,800,000
SW-6	Unit 6 C.W.	17,224,932	34,560,000	1,036,800,000
SW-7	Unit 7 C.W.	58,426,751	60,624,000	1,818,720,000
SW GT	Gas Turbines	300,000	2,937,600	88,128,000
SW-8	Unit 8 C.W.	01,424,160	01,640,160	049,204,800
Total all Surface Water		97,230,997	139,881,600	4,196,448,000
Total Withdrawal of Water		97,393,597	140,313,600	4,209,408,000

~~C.W. is Circulating (Condenser Cooling) Water recirculated to the river, except for Unit 8.~~

~~E. Beginning when Purdom Units 5 and 6 are permanently shut down, and continuing until Purdom Unit 8 begins Commercial Operation, withdrawals of individual facilities and combined withdrawals will not exceed the flows as shown below:~~

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Withdrawal Point		Average Daily Flow gallons	Maximum Daily Flow gallons	Maximum Monthly Flow gallons
#	Description			
SOP-6	Well	40,650	260,000	7,800,000
SOP-7	Well	40,650	260,000	7,800,000
SOP-8	Well	40,650	260,000	7,800,000
SOP-9	Well	40,650	260,000	7,800,000
Total all Wells		162,600	<u>374,400</u>	<u>11,000,000</u>
SW-4	Unit 4 C.W.	1,400,000	7,200,000	216,000,000
SW-5	Unit 5 C.W.	0	0	0
SW-6	Unit 6 C.W.	0	0	0
SW-7	Unit 7 C.W.	58,426,751	60,624,000	1,818,720,000
SW-GT	Gas Turbines	300,000	2,937,600	88,128,000
SW-8	Unit 8 C.W.	1,424,160	1,640,160	49,204,800
Total all Surface Water		61,550,911	72,401,760	2,172,052,800
Total Withdrawal of Water		61,713,511	72,833,760	2,185,012,800

C.W. is Circulating (Condenser Cooling) Water recirculated to the river, except for Unit 8.

The use of the permitted water withdrawals is restricted to the use described in the SCA. Any change in the use of said water shall require a modification of the Site Certification.

F. Beginning with Commercial Operation of Unit 8, withdrawals of individual facilities and combined withdrawals will not exceed the flows as shown below:

Withdrawal Point		Average Daily Flow gallons	Maximum Daily Flow gallons	Maximum Monthly Flow gallons
#	Description			
SOP-6	Well	0	0	0
SOP-7	Well	0	0	0
SOP-8	Well	0	0	0
SOP-9	Well	0	0	0

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Total all Wells		0	0	0
SW 4	Unit 4 C.W.	0	0	0
SW 5	Unit 5 C.W.	0	0	0
SW 6	Unit 6 C.W.	0	0	0
SW 7	Unit 7 C.W.	58,426,751	60,624,000	1,818,720,000
SW GT	Gas Turbines	300,000	2,937,600	88,128,000
SW 8	Unit 8 C.W.	1,424,160	1,640,160	49,204,800
Total all Surface Water		60,150,911	65,201,760	1,956,052,800
Total Withdrawal of Water		60,150,911	65,201,760	1,956,052,800

C.W. is Circulating (Condenser Cooling) Water recirculated to the river, except for Unit 8.

The District's staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications, and conditions of this permit.

~~G. The use of the permitted water withdrawal is restricted to the use described in the Site Certification Application. Any change in the use of said water shall require a modification of the Site Certification.~~

~~H. The District's staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications, and conditions of this permit.~~

I. The District's staff, upon providing prior notice and proper identification, may request permission to collect water samples for analysis, measure static and/or pumping water levels and collect any other information deemed necessary to protect the water resources of the area.

J. The City of Tallahassee shall mitigate any significant adverse impact caused by withdrawals permitted herein on the resource and legal water withdrawals and uses, and on adjacent land use, which existed at the time of filing of the SCA. The District reserves the right to curtail permitted withdrawal rates if withdrawals cause significant adverse impacts on the resource and legal water withdrawals and uses, and

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on adjacent land use, which existed at the time of Site Certification.

~~KI.~~ The City of Tallahassee shall not cause significant saline water intrusion or increased chloride levels. The District reserves the right to curtail permitted withdrawal rates if withdrawals cause significant saline water intrusion or increased chloride levels.

~~LJ.~~ The District, pursuant to Section 373.042, F.S., at a future date, may establish minimum and/or management water levels in the aquifer, aquifers, or surface water hydrologically associated with the permitted withdrawals; these water levels may require the City of Tallahassee to limit withdrawal from these water sources to comply with the established levels.

~~MK.~~ Nothing in this Site Certification shall be construed to limit the authority of the Northwest Florida Water Management District to declare water shortages and issue orders pursuant to Section 373.175, F.S., or to formulate and implement a plan during periods of water shortage pursuant to Section 373.222246, F.S., or to declare Water Resource Caution Areas pursuant to Chapters 40A-2.801, and 62-40.41 F.A.C.

1. In the event of a declared water shortage, water withdrawal reductions shall be made as ordered by the District.

2. In the event of a declared water shortage or an area as a Water Resource Caution Area, the District may alter, modify or inactivate all or parts of this section of the Conditions of Certification.

~~NL.~~ The City of Tallahassee shall continue to return all of the surface water withdrawn from the St. Marks River for once-through cooling (~~Units 5, 6, 7 C.W. and Gas Turbines~~) back to the St. Marks River.

~~OM.~~ The City of Tallahassee shall maintain, in working order, in-line totaling flow meters at any point where surface water is diverted and not returned to the St. Marks River. ~~The City of Tallahassee, by January 31 of each year, shall submit for these diverted amounts a completed Water Use Summary Reporting Form (NFWMD A2-1) for each month of the previous year. The City of Tallahassee shall also provide an estimate of the total amount of water withdrawn from and returned to the St. Marks River during each month of the previous year. The first report is due by January 31, 1999.~~

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~~PN.~~ The City of Tallahassee shall, ~~by January 31 of each year, submit for ground water withdrawals, a completed Water Use Summary Reporting Form (NWFWMD A2-1) for each month of the previous year. Water use amounts for each well may be calculated using flow meter readings at the plant divided by the pump rate of each well. The calculations must be provided with each submittal. The first report is due by January 31, 1998 and a final report shall be submitted when the wells are removed from service.~~ return essentially 100 percent of the water withdrawn back into the Floridan aquifer. The City of Tallahassee shall record and submit to the District any instances in which the system does not return essentially 100 percent of water withdrawn. The City of Tallahassee shall provide the notification within 30 days of any such occurrence and shall provide an estimate of the amount of water not returned.

~~QQ.~~ The District reserves the right, at a future date, to require the City of Tallahassee to submit actual pumpage records for withdrawals not otherwise required by this Certification.

~~RP.~~ The City of Tallahassee shall reference the power plant's wells by their Florida Unique Identification Number when corresponding with the District (pumping reports, etc.).

~~SQ.~~ The City of Tallahassee shall properly plug and abandon any well determined unsuitable for its intended use, not properly operated and maintained, or removed from service. The well(s) shall be plugged and abandoned to District Standards in accordance with Section 40A-3.531, F.A.C. The City shall also notify the District within 30 days of removing any well associated with the facility from service.

~~TR.~~ The City of Tallahassee shall provide for the efficient and non-wasteful use of water, and shall implement water conservation measures designed to enhance water use efficiency and reduce water demand and losses.

XXIV. DEPARTMENT OF COMMUNITY AFFAIRS

[Moved to Section B. Specific Conditions, Condition III. Department of Economic Opportunity]

A. Hurricane Preparation, Evacuation and Recovery Plan

Tallahassee shall develop a comprehensive hurricane preparation, evacuation and recovery plan (the "Plan") for the Purdom Generating Station ("Purdom"). The Plan shall be developed jointly by the City's Electric Utility and

SECTION A. GENERAL CONDITIONS

Emergency Management personnel and shall be included in Tallahassee's overall city emergency management plan. The Plan shall include the following elements:

1. Annual pre-season hurricane preparation activities.
2. Process for hurricane preparation to be undertaken prior to expected arrival of tropical storm-force winds (sustained winds greater than 39 mph), including (as appropriate to the expected force of storm):
 - a. Securing and/or removing any hazardous materials at
Purdom
 - b. Minimum fuel levels necessary for stability of fuel oil tanks
No. 1 and 4
 - c. Processes and criteria for staffing, securing and evacuation
of Purdom including:
 - (1) Determination of essential staffing
 - (2) Criteria for release of non-essential staff
 - (3) Process for preparing Purdom for essential staff to
remain on site
 - (4) Criteria for determining whether evacuation of
essential staff is required
 - (5) Process for preparing Purdom and conducting an
evacuation of all staff, including provisions for securing fuel supplies
3. Communications plan for:
 - a. Notification of storm-specific decisions by and between
Tallahassee and the City of St. Marks and Wakulla and Leon Counties
 - b. Coordination of post-storm Purdom recovery efforts with the
City of St. Marks and Wakulla and Leon Counties

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c. Coordination of changes in the Plan with the City of St. Marks and Wakulla and Leon Counties

4. General recovery estimates:

a. Types of damage which could be sustained at Purdom from flooding at the following elevations:

(1) 12.4 feet above mean sea level (msl) or less

(2) 12.4 feet msl to 22.7 feet msl

(3) 22.7 feet msl and above

b. For each elevation category identified above:

(1) Procedures for re-entry to Purdom for recovery purposes

(2) Processes for achieving recovery

(3) Ranges of estimated time periods required for recovery

(4) Order-of-magnitude ranges of estimated recovery costs

5. Certification by Tallahassee of the inclusion of Purdom in the City's risk management program, and coverage(s) of Purdom within that program.

Tallahassee shall submit the Plan to the Department of ~~Community Affairs~~ Economic Opportunity (two copies), Florida Department of Environmental Protection, City Manager of St. Marks, Wakulla County Emergency Management Office, and Leon County Division of Emergency Management no later than the commencement of construction of Purdom Unit 8. All receiving agencies shall provide their comments on the Plan to the Department of ~~Community Affairs~~ Economic Opportunity and Tallahassee within 30 days of receipt. The Department of ~~Community Affairs~~ Economic Opportunity and Tallahassee shall confer about the comments within the next 30 days. Within 30 days after such conferral, the Department of ~~Community Affairs~~ Economic

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Opportunity shall consolidate and provide to Tallahassee such comments as it deems appropriate. Tallahassee shall finalize the Plan within 60 days thereafter and provide copies to the Department of Environmental Protection, the Department of ~~Community Affairs~~ Economic Opportunity, the City of St. Marks, Wakulla County and Leon County. The Plan shall be formally updated, using the same process, no less frequently than every 5 years following commercial operation of Purdom Unit 8.

If the Department of ~~Community Affairs~~ Economic Opportunity deems the Plan or any of its periodic updates not to be in compliance with the requirements of this Condition, it may petition for enforcement of this condition pursuant to the Florida Electrical Power Plant Siting Act (ss. 403-501-403.518, Florida Statutes)

B. Facility Design Criteria ~~[Deleted – construction complete]~~

~~—Prior to commencement of construction of Purdom Unit 8, the City of Tallahassee ("Tallahassee") shall provide to the Department of Community Affairs certification by a licensed engineer that the Purdom Unit 8 structures and the oil and wastewater storage tanks will comply with the wind loading provisions of ASCE 7-95, "Minimum Design Loads for Buildings and Other Structures." In addition, Tallahassee shall install stiffening rings on storage tanks 1 and 3 (existing No. 6 oil storage tanks) in accordance with API Standard 650, figure 3-18. The stiffening ring for tank No. 1 shall be installed at a welded height of 24.7 feet and shall be a 5-inch by 3-inch by 5/16-inch member constructed in accordance with detail "c" of figure 3-18. The stiffening ring for tank No. 3 shall be installed at a welded height of 28.4 feet and shall be a 6-inch by 4-inch by 3/8-inch member constructed in accordance with detail "d" of figure 3-18.~~

C. ~~Noise Condition~~ ~~[Deleted – construction complete]~~

~~Tallahassee shall notify area residents in advance of the onset of the steam cleaning noise phase of construction, which shall be conducted between 8:00 a.m. and sunset.~~

D. ~~Rail-Trail Condition~~ ~~[Deleted – construction complete]~~

~~Construction associated with the reclaimed water pipeline near the Tallahassee-St. Marks Historic Railroad State Trail shall adhere to the applicable~~

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~~Florida Department of Transportation conditions of certification.~~

~~E. Spider Lily Protection~~ [Deleted – construction complete]

~~_____ Prior to construction of the reclaimed water pipeline, Tallahassee shall have a survey conducted by a qualified biologist for the presence of the rare spider lily, *Hymenocallis godfreyi*, in potential habitat along the pipeline route. The survey shall be conducted during the flowering period of the plant. The results of this survey shall be presented to the Department of Community Affairs and the Department of Environmental Protection. If the survey indicates the presence of listed species, no construction shall take place within 50 feet of its location until an agreement for its protection during construction is executed by Tallahassee and the Department of Community Affairs.~~

~~F. St. Marks Comprehensive Plan~~ [Deleted – construction complete]

~~Tallahassee shall design and construct Purdom Unit 8 in compliance with the comprehensive plan of the City of St. Marks.~~

XXV. DEPARTMENT OF TRANSPORTATION

[Moved to Section B. Specific Conditions, Condition IV. Department of Transportation]

A. Access Connection Facility

1. If traffic volumes remain the same or less than stated in the certification application, turn lanes on State Road 363 will not be required. If site plans are changed to generate a greater volume of traffic than stated in the certification application, then the requirements of Rule Chapter 14-96, Florida Administrative Code, will have to be met.

2. The site plans in the certification application do not specify if the access connection to State Road 363 will be improved or modified within the Florida Department of Transportation's right-of-way. If any access modifications do occur at the connection with State Road 363 as a result of this application, the following requirements will apply within the Department of Transportation's right-of-way:

- a. Minimum turning radius will be 50 feet.

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- b. The access facility width will be a minimum of 36 feet.
- c. Pavement will extend from the edge of State Road 363 to the right of way line.
- d. Pavement design of the access facility will conform to Florida Department of Transportation standards.
- e. The access connection facility will have a mitered culvert with paved aprons.
- f. The design of the access connection facility will be signed and sealed by a professional engineer.
- g. The Department's Tallahassee Maintenance Engineer must be contacted a minimum of 2 working days prior to the beginning of any construction, allowing the Department to coordinate its plans with the construction schedule and meet any requirements regarding public notification.
- h. All work on Florida Department of Transportation right of way shall be in accordance with the Manual on Uniform Traffic Control Devices, including work zone safety requirements.
- i. Roadway shoulders shall be restored to a safe and maintainable condition, which may include re-grassing, as determined by the Department's Tallahassee Maintenance Engineer.
- j. The applicant is responsible for moving all utilities on the roadway and in the right of way before construction begins.
- k. The applicant is required to obtain any Florida Department of Environmental Protection permits before beginning any work on Florida Department of Transportation right of way.
- l. The applicant will be responsible for establishing erosion control and silt barriers for any work areas on Florida Department of Transportation right of way.

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m. The applicant will provide final design drawings, signed and sealed by a professional engineer, upon completion of construction.

n. Pavement markings including stop bar and message and stop sign shall be included on the access connection facility exit. Refer to DOT Index 17346.

B. Drainage

1. Post-development runoff rates shall not exceed pre-development runoff rates on the Florida Department of Transportation's right of way for any storm event. This includes the 2, 5, 10, 25, 50, and 100 year storm frequencies having durations varying from one (1) hour to ten (10) days. The intent of this requirement is that the developer meet Rule Chapter 145-86, Florida Administrative Code.

2. Storm water discharge must meet federal, State and local storm water quantity and quality standards.

3. The applicant will provide storm water calculations, signed and sealed by a professional engineer.

C. Crossing of State Road 363

The crossing of State Road 363 shall meet the requirements of the Florida Department of Transportation's Utility Accommodation Manual, Rule Chapter 14-46, Florida Administrative Code.

D. Tallahassee-St. Marks Trail

1. The crossing of the Tallahassee-St. Marks Trail shall be by the jack and bore method and the strength of the pipe shall be as outlined in the Florida Department of Transportation's Utility Accommodation Manual, Rule Chapter 14-46, Florida Administrative Code, for rail corridors. The Tallahassee-St. Marks Trail is maintained as a rail corridor.

2. The Tallahassee-St. marks Trail shall not be obstructed during

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construction and standard maintenance of traffic barriers shall be placed around the jack and bore pits.

3. Signs, north and south of the work zone, shall be placed to warn users of the work in progress.

4. The placement of the water recovery pipeline in a longitudinal run paralleling the Tallahassee-St. Marks Trail shall be in accordance with the American Railway Engineering Association, Manual for Railway Engineering, Chapter 1, Part 5, Section 5.3, for uncaged pipelines.

5. The applicant will cross the trail with heavy equipment only at the water recovery pipeline crossing site. The trail must be restored by the applicant to its original condition at the crossing site following construction of the water recovery pipeline. Other than the crossing site, following heavy equipment shall be prohibited from the paved trail. All other damages to the trail resulting from installation of the water recovery pipeline shall be repaired to restore the trail facility to at least original condition and such restoration shall be at the applicant's expense.

E. Request For Restricted Areas

The applicant is requested to minimize the use of the Tallahassee-St. Mark's Trail. The water recovery pipeline should only cross the trail at one location.

F. Postcertification Review Of Specific Problems

If improvements to the power plant access road extend into the Florida Department of Transportation's right of way, the applicant must submit its plans under the permitting process of Rule Chapter 14-96, Florida Administrative Code, and upon completion of construction that the applicant provide signed and sealed final construction drawings, certifying by a professional engineer that the construction was in accordance with applicable Florida Department of Transportation standard.

G. Best Management Practices

1. The applicant shall comply with the requirements of the Florida

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Department of Transportation's Utility Accommodation Manual, Chapter 14-46, Florida Administrative Code, specifically to the alignment of the water recovery pipeline in conjunction with the Tallahassee-St. Mark's Trail and crossing of State Road 363, requirements for permits, materials used, mitigation of damages to and restoration of the facility and its environment, maintenance, and safety of traffic flow and operations.

2. Traffic control will be maintained by the applicant during construction and maintenance in compliance with the standards contained in the Manual of Uniform Traffic Control Devices, Chapter 14-94, Florida Administrative Code; Florida Department of Transportation's Design Standards; and Florida Department of Transport Specifications for Roads and Bridges, whichever is more stringent.

3. Existing access roads and temporary construction roads may be upgraded and maintained by the applicant, as necessary, during construction. If such upgrading results in an alteration to the connection to the State Highway System (i.e. a change in design, configuration or location), the alteration shall adhere to the non-procedural standards of access management contained in Rule Chapters 14-96 and 14-97, Florida Administrative Code. Right-of-way cannot be used for staging, parking or other activities associated with construction and maintenance of the power plant or water recovery pipeline without special use permission.

4. The Manual on Uniform Traffic Control Devices, Florida Department of Transportation's Design Standards, the Florida Department of Transportation's Specifications for Roads and Bridges and pertinent sections of the Florida Department of Transportation's Project Development and Environment Manual as required by Section 334.044(2), Florida Statutes, will be adhered to in all circumstances involving the State Highway System and other transportation facilities. (Chapters 14-96 and 14-97, Florida Administrative Code).

5. Oversight for the permitting of individual cross or any type of encroachment on the State Highway System shall rest with the Florida Department of Transportation.

6. If the final chosen alignment for the water recovery pipeline necessarily traverses a Florida Department of Transportation owned and operated or an abandoned rail corridor, the pipeline shall be buried and comply with the Florida Department of Transportation's Utility Accommodation Manual and the American Railway Engineering Association, Manual for Railway Engineering, Chapter 1, Part 5, Section 5.3, Pipelines, for uncaged pipelines unless otherwise stipulated to be encased

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by the Florida Department of Transportation.

7. All borings under state roadways will maintain a minimum depth of cover as stipulated in each site permit. If the bore should fail, the applicant will abandon the effort and backfill the entire bore with materials as specified by the Florida Department of Transportation. If the bore should fail within Florida Department of Transportation right of way, the applicant shall stop all efforts and apprise the Florida Department of Transportation Tallahassee Maintenance Engineer of the situation and any proposed action prior to attempting to recover equipment or initiating another bore.

8. All crossings should be as close to a right angle possible and completed by conventional jack and bore (track) method. Directional drill methods will only be allowed after the conventional method has been proven impractical.

~~XXVI. CONSTRUCTION OF INDUSTRIAL WASTEWATER PIPELINE [DELETED – CONSTRUCTION COMPLETE]~~

~~A. Construction Requirements~~

~~_____ The construction of the industrial wastewater pipeline across the Purdom generating Station site shall be performed in a manner designed to minimize the temporary disturbance to any wetlands and be performed pursuant to the alignment and methods described in the construction plans submitted to the Department on August 6, 2001.~~

~~B. Restoration of Wetland Impacts~~

~~_____ The City shall restore all wetland impacts associated with the construction of the industrial wastewater pipeline across the Purdom Generating Station site pursuant to the Restoration Plan submitted to the Department on August 6, 2001. The City shall monitor all restored wetland areas pursuant to the Restoration Plan submitted to the Department on August 6, 2001.~~

HISTORY

Certification issued 10/28/97; signed by Governor Chiles
Modified 01/11/02; signed by Deputy Secretary Bedwell

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Modified 07/29/05; signed by Siting Administrator Oven