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I. FUEL

Putnam Plant shall be operated in accordance with Title V Air Operation Permit No. 1070014-005-AV and any modifications and/or amendments made to the Title V Permit from hereto and Chapters 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C.

A. Auxiliary Boilers:

Fuel consumed should not contain more than 0.7% sulfur nor should stack emissions exceed those specified in rule 62-296, F.A.C.

B. Combustion Turbines:

1. Only fuel oil with not more than 0.7 percent sulfur content or natural gas may be fired.

2. Opacity shall not exceed 20 percent opacity except for one 6-minute period per hour during which opacity shall not exceed 27 percent.

C. Heat Recovery Steam Generators

1. Only the following fuels may be fired: (a) natural gas or (b) fuel oil with not more than 0.5 percent sulfur content by weight.

2. Emissions shall not exceed the following limitations

(a) Opacity emissions shall not exceed 20 percent (6-minute average), except for one 6-minute period per hour of not more than 27 percent.

(b) Excess opacity resulting from malfunctions is permitted provided that best operational practice to minimize emissions are adhered to and the duration of excess opacity shall be minimized, but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department for longer duration.

(c) Excess opacity resulting from startup or shutdown is permitted, provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.

(d) Nitrogen oxides emissions shall not exceed 0.2 lb/ mmBtu heat input when natural gas or distillate oil is combusted or 0.4 lb/mmBtu heat input when residual oil is combusted. The nitrogen oxides standard applies at all times,

including periods of startup, shutdown, or malfunction.

3. To determine compliance with the emissions limit for sulfur dioxide, receipts from the fuel supplier shall be maintained for each shipment which certify that the oil complies with the specifications for fuel oil numbers 1 and 2, as defined by the American Society of Testing and Materials in ASTM D396-78, standard specifications for Fuel Oils. Quarterly reports based on such receipts shall be submitted to the Northeast District Office certifying that only oil containing no more than 0.5 weight percent sulfur or oil that has a sulfur dioxide emission rate equal to or less than 0.5 lb/mmBtu heat input and which meets the ASTM specifications was combusted in the duct burners during the preceding quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

4. To determine compliance with the opacity limit, Method 9 shall be used as required under 40 CFR s. 60.8 (July 1, 1990) Edition). The initial performance test shall be performed within 60 days after achieving the maximum production rate for the HRSGs, but not later than 180 days after initial startup. Annual compliance tests shall be performed at least once during each federal fiscal year (October 1 - September 30). Thirty (30) days prior to the initial compliance test and fifteen (15) days prior to each annual compliance test, notice shall be provided to the Northeast District Office. The results of each test shall be submitted to the Northeast District Office within 45 days of test completion. Other Department-approved methods may be used for compliance testing after prior Department approval.

5. To determine compliance with the nitrogen oxides emissions limit, FPL shall conduct a performance test using EPA Reference Methods 7E and 3A, (as codified in 40 CFR part 60 Appendix A). The initial compliance test shall be performed within 60 days after achieving the maximum production rate for the HRSGs, but not later than 180 days after initial startup. Annual compliance tests shall be performed at least once during each federal fiscal year (October 1-September 30). Thirty (30) days prior to the initial compliance test and fifteen (15) days prior to each annual compliance test, notice shall be provided to the Northeast District Office. The results of each test shall be submitted to the Northeast District Office within 45 days of test completion.

6. FPL shall maintain records of opacity and must submit excess emissions reports for any calendar quarter during which there are excess emissions from the HRSGs. If there are no excess emissions during the calendar quarter, FPL shall submit a report stating that no excess emissions occurred during the quarterly reporting period. The quarterly reports shall be submitted to the Department's Northeast District Office.

7. FPL shall satisfy any applicable nitrogen oxides emissions records maintenance requirements set forth in 40 CFR s. 60.49b(g) (July 1, 1990 Edition).

8. All records required under this condition shall be maintained by FPL for a period of two years following the date of such record.

D. Wind Restrictions and Monitoring

1. Wind Restriction

The licensee will burn fuel oil containing no more than 0.50% sulfur when sustained winds exceed 20 miles per hour for any continuous period of three hours or longer.

2. Wind Monitoring

The licensee shall measure wind velocity and wind direction at hourly intervals in the plant vicinity, only for those hours during which combustion turbines at either of the combined cycle units of the plant operates on oil with greater than 0.5 percent sulfur content. Wind data for the hours during which oil with greater than 0.5 percent sulfur content was burned each month, or, if applicable, a statement that no oil with greater than 0.5 percent sulfur content was burned during that month, shall be reported to the Northeast District Office of the Department by the last day of each month following each reporting period. Wind velocity and direction measurements required by this paragraph shall be made in accordance with recognized methods and procedures.

II. STACK HEIGHT

Minimum stack heights for the paired combined cycle unit exhaust stacks shall be 71 feet above grade. Stacks with a height of at least 150 feet shall be constructed if monitoring data per Condition V indicates ambient air standards have been violated.

III. SAMPLING PLATFORM

The licensee shall install a sampling platform on one stack or shall provide sampling ports and such temporary access facilities as may be prescribed by the Department in performing stack sampling.

IV. CONTINUOUS MONITORING DEVICES

The licensee shall install and operate continuous monitoring devices on one of the paired exhaust stacks for the following: Opacity, Nitrogen Oxides. Records of such monitoring shall be available for inspection.

V. WATER EFFLUENTS

Water effluents shall conform to the limitations of Chapter 62-302, F.A.C., including but not limited to those contained in Condition 6 below. Iron, chlorine, copper, nickel and zinc shall meet the water quality standards of Florida Administrative Code Rule 62-302, at the boundary of a mixing zone defined to be an area that is 800 meters in length and 90 meters in width, taking into account the particular shoreline configuration, as shown on Figure 1, attached.

VI. MONITORING

Monitoring shall be conducted at the frequencies listed below on the following waste streams, where applicable: Cooling Tower Blowdown, West EP Pond, waste streams discharge to the St. Johns River. Cooling Tower Blowdown and Physical Chemical Treatment System discharge may discharge simultaneously or separately through the same pipe. Monitoring reports shall be submitted monthly to the Department's Bureau of Water Facilities Planning and Regulation:

Effluent Characteristics	Limitation	Monitoring	Wastestream(s)
* Flow	Cooling tower blowdown shall be minimized to the degree allowed by best engineering practice.	Continuous recorders, pump logs.	Cooling tower Blowdown, West EP Pond, Physical Chemical Treatment System
* Temperature	Not to exceed 98°F. at the P.O.D. and not to exceed 92°F. or 5° F. above ambient at the boundary of a 3-dimensional zone of mixing described by a cylinder of 50 meters radius running horizontally from the P.O.D. and which extends vertically to the river surface and river	Continuous (recorder or logs) at any point between the blowdown discharge at the cooling tower and the P.O.D. of cooling water into the river.	Cooling Tower Blowdown

	bottom.		
* Phosphate	50 ppm	Weekly	Physical Chemical Treatment System
*Dissolved Solids	6000 ppm	Daily	Cooling Tower Blowdown, Physical Chemical Treatment System
* pH	6.0 - 8.5	Daily	Cooling Tower Blowdown, West EP Pond, Physical Chemical Treatment System
* Floating solids and visible foam	None visible	Daily	Cooling Tower Blowdown, West EP Pond, Physical Chemical Treatment System

VII. CHANGE IN DISCHARGE

All discharges or emissions authorized herein shall be consistent with the terms and condition of this certification. The discharge of any pollutant identified in this certification more frequently than or at a level in excess of that authorized shall constitute a violation of the certification. Any solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutants from such materials from entering waters of the state.

VIII. NONCOMPLIANCE NOTIFICATION:

If, for any reason, the licensee does not comply with or will be unable to comply with any limitation specified in this certification, the licensee shall provide prompt notification to the Director of the Northeast of the Department by telecommunication sent no later than 3:00 p.m. of the next normal work day following the occurrence of such noncompliance, and shall submit the following information in writing, within ninety-six (96) hours of becoming aware of such condition:

- A. A description of the discharge and cause of noncompliance; and
- B. The period of noncompliance, including exact dates and times; or, if not

corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

IX. FACILITIES OPERATION

The licensee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the licensee to achieve compliance with the terms and conditions of this certification.

X. ADVERSE IMPACT

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

XI. BYPASSING

Any diversion or bypass of facilities necessary to maintain compliance with the terms and conditions of this certification is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the conditions of this license. The licensee shall promptly notify the Director of the Northeast District of the Department of each such diversion or bypass in accordance with the procedure contained in condition 9 of this certification.

XII. REMOVED SUBSTANCES

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such material from entering waters of the state.

XIII. RIGHT OF ENTRY

The licensee shall allow the Secretary of the Florida Department of Environmental Protection and/or authorized representatives, upon the presentation of credentials:

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

certification; and

B. To have access to and copy any records required to be kept under the conditions of this certification; and

C. To inspect any monitoring equipment or monitoring method required in this certification and to sample any discharge of pollutants.

XIV. REVOCATION OR SUSPENSION

After notice and opportunity for a hearing, this certification may be suspended, or revoked in whole or in part during its term for cause including, but not limited to, the provisions of s. 403.512, Chapter 403, Florida Statutes, or for failure to comply with the terms and conditions of the certification.

XV. NEW POLLUTANT STANDARDS

If an effluent or emission standard or prohibition (including any schedule of compliance specified in such effluent or emission standard or prohibition) is established for a pollutant which is present in this certification and such standard or prohibition is more stringent than any limitation for such pollutant in this certification, this certification shall be revised in accordance with the new effluent or emission standard or prohibition and the licensee is so notified.

XVI. CIVIL AND CRIMINAL LIABILITY

Nothing in this certification shall be construed to relieve the licensee from civil or criminal penalties for non-compliance with any condition of this certification, applicable rules or regulation of the Department, or Chapter 403, Florida Statutes.

XVII. LEGAL ACTION

Nothing in this certification shall be construed to preclude the institution of any legal action or relieve the licensee from the responsibilities, requirement, liabilities, or penalties established pursuant of any applicable State Statutes, or Regulation, including Department rules and regulations promulgated by the Department pursuant to Chapter 403, F.S.

XVIII. PROPERTY RIGHTS

The issuance of this certification does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations

XIX. SEVERABILITY

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

XX. DEBRIS DISCHARGE

No debris shall be discharged to waters of the State from the intake screens with the exception of viable nekton.

XXI. FREE AVAILABLE CHLORINE

Chlorine concentration monitoring shall be conducted two times per week, during the period of maximum expected residual, at any point between the exit from the cooling tower and the P.O.D. of cooling water in the river. If the grab sample for total residual chlorine (TRC) taken prior to discharge from the cooling tower indicates that no TRC is present, sampling for-Free Available Chlorine (FAC) is not required. If FAC is present, multiple grabs shall be conducted hourly until it can no longer be detected. When TRC measures "less than detectable" and the cooling tower blowdown has been established, it is not required to sample for TRC again until a chlorination of the cooling tower has been performed.

XXII. BIOCIDES DISCHARGE

Any biocide discharge from any point source shall comply with the requirements of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended (U.S.C. 136 et. seq.) and the use of such pesticide shall be in a manner consistent with the labeling.

XXIII. POLYCHLORINATED BIPHENYL COMPOUNDS

There shall be no release from containment devices structures of polychlorinated biphenyl compounds to the environment.

XXIV. TURBID WATERS

There shall be no surface discharge of turbid waters to waters of the State from the spoil disposal/borrow pit system. Any spoil excavated during construction or maintenance dredging shall be deposited on an upland area. A berm or other control device shall be constructed around the spoil disposal area to insure against spillage or discharge of excavated material which may cause turbidity in excess of 29 Nephelometric Turbidity Units above natural background in waters of the State.

XXV. BARGE SLIP

The Barge Slip shall be of a sheet pile type construction with a poured concrete cap. Riprap shall be placed on the river bank adjacent to the barge slip to prevent erosion due to removal of natural vegetation. Spilled oil shall be removed from the barge slip prior to the departure of any barge. Such oil shall be disposed of by the plant's oil treatment system.

XXVI. UTILITIES TUNNEL

Construction of the utilities tunnel under U.S. 17 shall be expedited to occur in a minimal amount of time. Such construction shall be performed in accordance with the standards of the Florida Department of Transportation and in close coordination with:

District Engineer Fifth Division
Florida Department of Transportation
Post Office Box 47
Deland, Florida 32720

and with:

Maintenance Engineer, Putnam County
Post Office Drawer "X"
St. Augustine, Florida 32084

XXVII. STORMWATER RUNOFF

During construction and plant operation necessary measures shall be employed to settle, filter or absorb silt-containing pollutant-loaded stormwater runoff to prevent contamination of water of the State. Such measures may include sediment traps, barriers and use of berms or vegetation. Exposed or disturbed soils shall be sodded as soon as possible to minimize silt and sediment runoff into waters of the State.

XXVIII. TURBIDITY CONTROL

Turbidity control shall be installed prior to any construction or maintenance dredging to insure that turbidity of State waters is not increased more than 29 Nephelometric Turbidity units.

XXIX. GROUNDWATER MONITORING PLAN

The Groundwater Monitoring Plan for the Putnam Power Plant, approved on February 25, 1985, and on file with the Department, and subsequently modified on February 5, 1992, is incorporated by reference.

Copies of any subsequent revisions to the Groundwater Monitoring Plan which are approved by the Department's Northeast District Office shall be filed with the Department's Siting Coordination Office and provided to the parties hereto by certified mail, and, in the absence of a request for a hearing thereon within 15 days of receipt of such revision, the revisions shall become part of this certification without the need for further filing or the submission of filing fees.

XXX. REVIEW OF SITE CERTIFICATION

This certification shall be final unless revoked or suspended pursuant to law. Five years from the date of issuance of any National Pollutant Discharge Elimination System Permit issued pursuant to the Federal Water Pollution Control Act Amendments of 1972, for the Combined Cycle Units, the Department shall review all monitoring data that have been submitted to it during the preceding five year period, for the purpose of determining the extent of the licensee's compliance with the conditions of this certification and the environmental impact of this facility. The Department shall submit the results of its review and recommendations to the Licensee and all parties of record in this certification proceeding.

XXXI. MONITORING PROGRAM REVIEW

The results of the air and water monitoring programs will be reviewed by the Department and Florida Power & Light Company at the end of each year of operation to determine the necessity and/or extent of continuation. The methods and procedures utilized in the monitoring program shall be approved by the Department and also be reviewed annually by the Department and Florida Power & Light Company, and may be modified by agreement of all parties of record in this certification proceeding.

XXXII. MODIFICATION OF CONDITIONS

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

A. The Board, pursuant to 403.516(1), F.S., hereby delegates to the Secretary the authority to modify, after notice and opportunity for hearing, any conditions pertaining to air and water monitoring and sampling, variances, or exceptions to water quality standards.

B. **Conformance With Federally Delegated Permits**

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

C. All other modifications shall be made in accordance with Section 403.516, Florida Statutes.

XXXIII. HISTORY NOTES

Certification issued 10/16/74 by Pollution Control Board
Modified 5/18/76, Governor Askew
Modified 9/26/78, Secretary Landers/parties/stipulation
Modified 5/20/80, Governor Graham
Modified 3/15/84, Governor Graham
Modified 5/16/86, Secretary Tschinkel (order signed by Secretary 4/15/86, but not filed until 5/16/86)
Modified 7/16/91, Secretary Browner
Modified 5/18/92; Secretary Wetherell
Modified 5/23/96; Secretary Wetherell
Modified 12/01/05; Siting Administrator Oven

XXXIV.ATTACHMENT

Attachment to Condition 5, Water Effluents

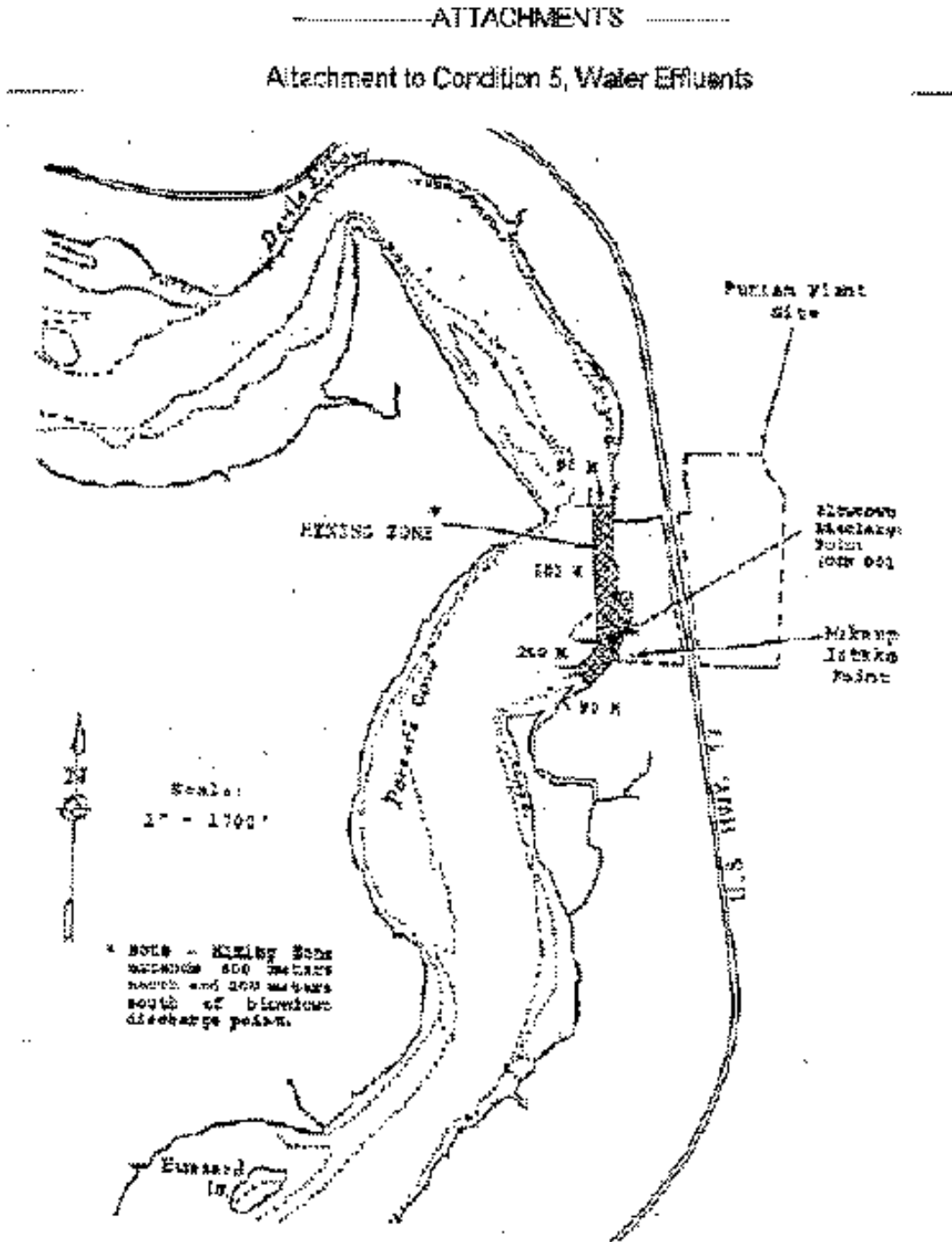


FIGURE 1 NON-THERMAL MIXING ZONE

