

Department of Environmental Protection

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

David B. Struhs Secretary

February 7, 2000

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Jorge S. Rodriguez, P.E. Asst. Director, Water Miami-Dade Water and Sewer Department 4200 Salzedo Street. Coral Gables, Florida 33146-0316

Re: DEP File No. 0250281-007-AC, PSD-FL-248A
John E. Preston WTP

7th Standby Diesel Engine Generator and Raw Water Ozonation Systems

Dear Mr. Rodriguez:

Enclosed is one copy of the draft PSD permit modification for the John E. Preston Water Treatment Plant located at 1100 West 2nd Avenue, Hialeah, Miami-Dade County, to add a seventh standby diesel engine generator and ozone generators and ozone water treatment basins. The <u>Technical Evaluation and Preliminary Determination</u>, the Department's <u>Intent to Issue PSD Permit Modification</u> and the <u>Public Notice of Intent to Issue PSD Permit Modification</u> are also included.

The <u>Public Notice of Intent to Issue PSD Permit Modification</u> must be published one time only, as soon as possible, in the legal advertisement section of a newspaper of general circulation in the area affected, pursuant to the requirements Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A. A. Linero, P.E., Administrator, New Source Review Section at the above letterhead address. If you have any other questions, please contact Joseph Kahn, P.E. at 850/921-9519 or Mr. Linero at 850/488-0114.

Sincerely,

C. H. Fancy, P.E., Chief,

Bureau of Air Regulation

CHF/jk

Enclosures

In the Matter of an Application for Permit by:

Mr. Jorge S. Rodriguez, P.E. Asst. Director, Water Miami-Dade Water and Sewer Department 4200 Salzedo Street Coral Gables, Florida 33146-0316 DEP File No. 0250281-007-AC
PSD-FL-248A
7th Standby Diesel Engine Generator and
Raw Water Ozonation Systems
John E. Preston WTP, Miami-Dade County

INTENT TO ISSUE PSD PERMIT MODIFICATION

The Department of Environmental Protection (Department) gives notice of its intent to issue an PSD Permit Modification (copy of draft PSD permit modification enclosed) for the proposed project, detailed in the application specified above and the enclosed Technical Evaluation and Preliminary Determination, for the reasons stated below.

The applicant, Miami-Dade Water and Sewer Department, applied on January 24, 2000, to the Department for a modification to PSD permit number PSD-FL-248 for its John E. Preston Water Treatment Plant located at 1100 West 2nd Avenue, and its Hialeah Water Treatment Plant located at 700 West 2nd Avenue, Hialeah, Miami-Dade County. The modification is to allow the applicant to construct an additional (seventh) standby diesel generator to add redundancy to the six existing diesel engine generators which provide power generation capacity during periods of load-sharing with the local utility, during power failures and other circumstances including severe weather warnings and events of potential electric utility power losses or reductions. The proposed generator will give the applicant the ability to power the proposed ozonation systems during power outages and will also provide firm backup (redundant) capacity in the event that one or more of the existing engines is out of service for repair or preventive maintenance. The generators serve both water treatment plants. This permitting action is PSD-FL-248A.

Although this project is a modification of an existing PSD permit, potential emissions will not be increased and actual emissions are not expected to increase, so the application is not subject to PSD review. The applicant agreed to continue to meet the existing fuel cap for the diesel generators and the new engine will be subject to the existing BACT limit for NOx. NOx emissions will be controlled by the use of fuel injection timing retardation and turbocharger aftercooling.

This permit modification also provides for the construction of ozone generators and ozone water treatment basins for the ozonation of raw water. These sources have negligible emissions of ozone and will be considered insignificant emissions units for purposes of Title V regulation. This permit modification provides for an extension of the permit expiration date until June 30, 2003 to allow additional time for the construction of these emissions units.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that a PSD permit modification is required to for this action.

The Department intends to issue this PSD permit modification based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue PSD Permit Modification. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed permit issuance action for a period of 30 (thirty) days from the date of publication of Public Notice of Intent to Issue PSD Permit Modification. Written comments and requests for public meetingsshould be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any

person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known: (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

In addition to the above, a person subject to regulation has a right to apply for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542 F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

Miami-Dade Water and Sewer Department, John E. Preston Water Treatment Plant DEP File No. 0250281-007-AC, PSD-FL-248A Page 4 of 4

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2) F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Executed in Tallahassee, Florida.

C. H. Fancy, P.E., Chief Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue PSD Permit Modification (including the Public Notice of Intent to Issue PSD Permit Modification, Technical Evaluation and Preliminary Determination, and the draft PSD permit modification) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on $\frac{2}{3}$ - 9 - 00 to the person(s) listed:

Mr. Jorge S. Rodriquez, P.E. *

Mr. Isidore Goldman, P.E., DEP SED

Mr. Patrick Wong, P.E., DERM

Mr. Gregg Worley, EPA

Mr. John Bunvak, NPS

Clerk Stamp

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Kin John 2-9-00 (Clerk) (Date)

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP File No. 0250281-007-AC, PSD-FL-248A

Miami-Dade Water and Sewer Department John E. Preston Water Treatment Plant 7th Standby Diesel Engine Generator and Raw Water Ozonation Systems Miami-Dade County

The Department of Environmental Protection (Department) gives notice of its intent to issue a PSD permit modification to Miami-Dade Water and Sewer Department, for the John E. Preston WTP located at 1100 West 2nd Avenue, Hialeah, Miami-Dade County. The modification is to allow the applicant to construct an additional (seventh) standby diesel generator to add redundancy to the six existing diesel engine generators which provide power generation capacity during periods of load-sharing with the local utility, during power failures and other circumstances including severe weather warnings and events of potential electric utility power losses or reductions. The generators serve both water treatment plants. The applicant's mailing address is: 4200 Salzedo Street, Coral Gables, Florida 33146-0316.

Although this project is a modification of an existing PSD permit, potential emissions will not be increased and actual emissions are not expected to increase, so the application is not subject to PSD review. The applicant agreed to continue to meet the existing fuel cap for the diesel generators and the new engine will be subject to the existing BACT limit for NOx. NOx emissions will be controlled by the use of fuel injection timing retardation and turbocharger aftercooling.

This permit modification also provides for the construction of ozone generators and ozone water treatment basins for the ozonation of raw water. These sources have negligible emissions of ozone and will be considered insignificant emissions units for purposes of Title V regulation. This permit modification provides for an extension of the permit expiration date until June 30, 2003 to allow additional time for the construction of these emissions units.

An impact analysis was not required for this project because there is no associated increase in emissions.

The Department will issue the final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed permit issuance action for a period of 30 (thirty) days from the date of publication of this Public Notice of Intent to Issue PSD Permit Modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed PSD permit modification and require, if applicable, another Public Notice.

The Department will issue the PSD permit modification unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of

the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. 10 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Protection Bureau of Air Regulation Suite 4, 111 S. Magnolia Drive Tallahassee, Florida, 32301 Telephone: 850/488-0114

Telephone: 850/488-01 Fax: 850/922-6979

Dept. of Environmental Protection Southeast District 400 North Congress Avenue West Palm Beach, Florida 33401 Telephone: 561/681-6600

Dade County Department of Environmental Resources Mgmt. Suite 900, 33 Southwest 2nd Ave. Miami, Florida 33130-1540 Telephone: 305/372-6925

The complete project file includes the application, technical evaluations, draft permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator. New Source Review Section, or the Department's reviewing engineer for this project, Joseph Kahn, P.E., at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

TECHNICAL EVALUATION

AND

PRELIMINARY DETERMINATION

Miami-Dade Water and Sewer Department
John E. Preston WTP

7th Standby Diesel Engine Generator and
Raw Water Ozonation Systems
Miami-Dade County

DEP File No. 0250281-007-AC PSD-FL-248A

Department of Environmental Protection Division of Air Resources Management Bureau of Air Regulation

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. GENERAL INFORMATION

1.1 APPLICANT NAME AND ADDRESS

Miami-Dade Water and Sewer Department 4200 Salzedo Street

Coral Gables, Florida 33146-0316

Authorized Representative: Jorge S. Rodriquez, P.E., Asst. Director, Water

1.2 REVIEWING AND PROCESS SCHEDULE

1/24/00

Received permit application and fee

1/24/00

Application complete

2. FACILITY INFORMATION

This facility is the John E. Preston Water Treatment Plant located at 1100 West 2nd Avenue, Hialeah, Miami-Dade County. The project will also serve the adjacent Hialeah Water Treatment Plant located at 700 West 2nd Avenue. The UTM coordinates are: Zone 17; 570.7 km E and 2856.76 km N. This site is approximately 25 kilometers from Everglades National Park, a Class I PSD Area. SIC codes are:

Industry Group No.	49	Electric, Gas, and Sanitary Services
Industry No.	4941	Water Supply

This facility consists of a municipally owned water treatment plant providing potable water to the public. It is adjacent to the applicant's Hialeah Water Treatment Plant, and the diesel engine generators serve both plants. The raw water ozonation systems will serve both plants.

This facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM₁₀), sulfur dioxide (SO₂), nitrogen oxides (NOx), carbon monoxide (CO), or volatile organic compounds (VOC) exceeds 100 tons per year (TPY). This facility is not within an industry included in the list of the 28 Major Facility Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 250 TPY for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD).

The applicant has indicated that this facility is a major source of hazardous air pollutants (HAPs).

3. PROJECT DESCRIPTION

The applicant proposes to construct an additional (seventh) standby diesel generator to add redundancy to the six existing diesel engine generators at its John E. Preston Water Treatment Plant in Hialeah. These generators allow the applicant to provide power generation capacity during periods of load-sharing with the local utility, Florida Power and Light; during power failures; or as needed under other circumstances including severe weather warnings and events of potential electric utility power losses or reductions. The proposed generator will give the applicant the ability to power the proposed ozonation systems during power outages and will also provide firm backup (redundant) capacity in the event that one or more of the existing engines is out of service for repair or preventive maintenance.

Although this project is a modification of an existing PSD permit, potential emissions will not be increased and actual emissions are not expected to increase, so the application is not subject to PSD review. The applicant agreed to continue to meet the existing fuel cap for the diesel generators and the new engine will be subject to the existing BACT limit for NOx. NOx emissions will be controlled by the use of fuel injection timing retardation and turbocharger aftercooling. This permit modification also provides for the construction of ozone generators and ozone water treatment basins for the ozonation of

raw water. These sources have negligible emissions of ozone and are therefore considered insignificant emissions units for purposes of Title V regulation.

Emissions units addressed by this permit modification are:

EMISSIONS UNIT NO.	EMISSIONS UNIT DESCRIPTION	
012	Standby Diesel Engine Generator #7, EMD model 20-645F4B	
013	Raw Water Ozonation Systems	

The new engine is a General Motors Electro-Motive Diesel (EMD) generator with a nominal base load rating of 2.865 megawatts (MW), driven by a 4.000 bhp prime mover, and is identical to three of the existing engines. The raw water ozonation system consists of ozone generation units that feed ozonation water treatment chambers at both the Preston and Hialeah water treatment plants. Each system is equipped with two ozone destruction units, so there will be two units each at the Preston and Hialeah plants. Each system has a design maximum inlet concentration of 10% ozone by weight and a maximum outlet concentration of 0.1 ppm ozone by volume at 1,000 cfm.

The applicant has also requested an extension to the permit expiration date until June 30, 2003 to allow for sufficient time to construct the emissions units. The applicant anticipates that the generator may be installed by May 31, 2001 and that the ozonation systems may be constructed by June 30, 2003.

4. PROJECT EMISSIONS & RULE APPLICABILITY

The applicant will comply with the existing emission limitations and fuel limitations that were applicable to the six existing diesel engine generators, so no increase in potential emissions will result from this project. The applicant has stated that the seventh engine will be installed for the purpose of increasing redundancy of generating capacity, not to increase actual operation of the engines, so no increase in actual emissions is expected as a result of this project. The raw water ozonation systems will have potential emissions of less than 18 pounds per year of ozone.

The applicant previously indicated that the maximum annual air pollutant emission rates in tons per year for the diesel generators, based on consumption of 1,300,000 gallons per year of diesel fuel oil, with a maximum sulfur content of 0.05 percent, by weight, will be:

POLLUTANT	MAXIMUM EMISSIONS 1
NOx	370 ²
CO	28.4 ³
PM/PM ₁₀	5.1 4
SO ₂	4.6 ^s
VOC (NMHC)	7.2 6

- 1. Maximum emissions from diesel engine generators including the proposed 7th generator as limited by the conditions of PSD permit PSD-FL-248 and proposed permit modification PSD-FL-248A.
- Maximum emissions based on operation of model 20-645F4B engines consuming all permitted diesel fuel oil, equivalent to operating each engine 2,245 hours per year. Emissions based on operation of model 20-645E4 engines consuming all permitted fuel are 193 tons per year of NOx.
- Maximum emissions based on operation of model 20-645E4 at 25 percent load while firing diesel fuel oil.
- ⁴ Maximum emissions based on operation of either model engines consuming all permitted diesel fuel oil.
- Maximum emissions based on operation of either model engines consuming all permitted diesel fuel oil (0.05% sulfur by weight).
- ⁶ Maximum emissions based on operation of either model engines consuming all permitted diesel fuel oil.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Because the proposed project will not increase emissions, it results in less-than-significant increases with respect to Table 62-212.400-2, F.A.C., of nitrogen oxides (NOx), carbon monoxide (CO), sulfur dioxide (SO₂), particulate matter (PM/PM₁₀), and volatile organic compounds (VOC). The project is therefore not subject to review for Prevention of Significant Deterioration (PSD) and a determination of Best Available Control Technology (BACT) in accordance with Rules 62-212.400, F.A.C., although the applicant agreed to continue to meet the existing fuel cap for the diesel generators and the new engine will be subject to the existing BACT limit and control technology for NOx.

The proposed project is otherwise subject to preconstruction review requirements under the provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 62-204, 62-210, 62-212, 62-214, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). Excess emissions are allowed for startup, shutdown and malfunction pursuant to Rule 62-210.700 F.A.C..

This facility is located in an area designated, in accordance with Rule 62-204.340, F.A.C., as attainment for the criteria pollutants ozone, carbon monoxide, sulfur dioxide, and nitrogen dioxide; designated as unclassifiable for lead and PM_{10} ; and also designated as a maintenance area for ozone.

The applicant will comply with the previously determined BACT limits for NOx for the diesel generators, which are more stringent that the NOx RACT limit of 4.75 lb/mmBtu specified by Rule 62-296.570(4)(b)7., F.A.C.

5. AIR POLLUTION CONTROL TECHNIQUES

The applicant proposed to control NOx emissions by fuel injection timing retardation and installation of a turbocharger aftercooler to cool combustion air. This was previously determined to be BACT in the PSD permit issued for the six engines. This BACT NOx emissions limit for this control technology was previously determined to be 4.12 lb/mmBtu. Compliance with the NOx emission limit shall be demonstrated by annual test using EPA Method 7 or 7E, with sampling by rake probe. The emissions of sulfur dioxide will be limited by the use of very low sulfur diesel fuel (0.05% sulfur by weight). Use of this fuel will also limit PM₁₀ emissions. Emissions of VOCs, PM₁₀ and CO will also be limited by proper engine maintenance and operation.

6. SOURCE IMPACT ANALYSIS

This project is not expected to increase emissions, so impact analyses are not required.

7. CONCLUSION

Based on the foregoing technical evaluation of the application and additional information submitted by the applicant and other available information, the Department has made a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations. The Department will issue a draft permit to the applicant that allows the applicant to construct the seventh diesel engine generator and the ozonation systems, and provides for an extension of the permit expiration date until June 30, 2003 to allow additional time for the construction of these emissions units.

Joseph Kahn, P.E. Mail Station #5505 2600 Blair Stone Road Tallahassee, Florida 32399-2400 850/921-9519

DRAFT

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Jorge S. Rodriguez, P.E. Asst. Director, Water Miami-Dade Water and Sewer Department 4200 Salzedo Street Coral Gables, Florida 33146-0316

Re: DEP File No. 0250281-007-AC, PSD-FL-248A

John E. Preston WTP, Additional Standby Diesel Engine Generator

The applicant, Miami-Dade Water and Sewer Department, applied on January 24, 2000, to the Department for a modification to PSD permit number PSD-FL-248 (0250281-006-AC) for its John E. Preston Water Treatment Plant located at 1100 West 2nd Avenue, and its Hialeah Water Treatment Plant located at 700 West 2nd Avenue, Hialeah, Miami-Dade County. The modification is to allow the applicant to construct an additional (seventh) standby diesel generator to add redundancy to the six existing diesel engine generators which provide power generation capacity during periods of load-sharing with the local utility, during power failures and other circumstances including severe weather warnings and events of potential electric utility power losses or reductions. The generators serve both water treatment plants. This permit modification also provides for the construction of ozone generators and ozone water treatment basins for ozonation of raw water. These sources have negligible emissions of ozone and will be considered insignificant emissions units for purposes of Title V regulation. The Department has reviewed the modification request. The referenced permit is hereby modified as follows:

The following emissions units shall be added to Section I, Project Details and Section III:

Emissions Unit No.	EMISSIONS UNIT DESCRIPTION
012	Standby Diesel Engine Generator #7, EMD model 20-645F4B
013	Raw Water Ozonation Systems

Emissions unit 012 has a nominal base load rating of 2.865 megawatts (MW), driven by a 4,000 bhp prime mover. Emissions unit 012 shall be subject to all facility-wide and emissions units specific conditions of permit PSD-FL-248 (0250281-006-AC). Emissions unit 013 is considered insignificant for purposes of Title V regulation, and is therefore subject only to the facility-wide specific conditions of permit PSD-FL-248 (0250281-006-AC). The specific conditions of permit PSD-FL-248 (0250281-006-AC) are not modified by this order.

The expiration date of permit PSD-FL-248 (0250281-006-AC) shall be extended until June 30, 2003 to allow additional time for the construction of these emissions units.

Miami-Dade Water and Sewer Department, John E. Preston Water Treatment Plant DEP File No. 0250281-007-AC, PSD-FL-248A Page 2 of 2

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permit modification is issued pursuant to Chapter 403, Florida Statutes.

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

Executed in Tallahassee, Florida.

Howard L. Rhodes, Director Division of Air Resources Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agen modification was sent by certified mail (*) and cobusiness on to the person(s) list	pies were mailed by U.S. Mail b	•
Mr. Jorge S. Rodriquez, P.E. * Mr. Isidore Goldman, P.E., DEP SED Mr. Patrick Wong, P.E., DERM Mr. Gregg Worley, EPA Mr. John Bunyak, NPS		
	Clerk Stamp	
	on this date, pursuant to §120.55 with the designated Department which is hereby acknowledged.	2, Florida Statutes,
	(Clerk)	(Date)



Department of Environmental Protection

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

David B. Struhs Secretary

P.E. Certification Statement

Miami-Dade Water and Sewer Department John E. Preston WTP 7th Standby Diesel Engine Generator & Ozone Generators and Treatment Basins **DEP File No.:** 0250281-007-AC

PSD-FL-248A

Project: Air Construction Permit (PSD Permit Modification)

I HEREBY CERTIFY that the engineering features described in the above referenced application and related additional information submittals, if any, and subject to the proposed permit conditions, provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).

This review was conducted by myself.

Joseph Kahn, P.E.

Date.

Permitting Authority:

Florida Department of Environmental Protection Division of Air Resources Management Bureau of Air Regulation New Source Review Section Mail Station #5505 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Telephone: 850/488-0114

Fax: 850/922-6979

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