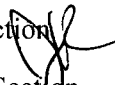


Memorandum

Florida Department of Environmental Protection

TO: Trina Vielhauer, Chief, Bureau of Air Regulation

THROUGH: Jeff Koerner, New Source Review Section 

FROM: Bruce Mitchell, New Source Review Section

DATE: June 1, 2009

SUBJECT: Project No. 0250314-016-AC
Miami-Dade Water & Sewer Department – Alexander Orr Jr. Water Treatment Plant
Extension of Air Construction Permit No. 0250314-014-AC
Additional Time to Install Standby Generator Unit 6

On May 18, 2009, we received a request to extend the expiration date of air construction Permit No. 0250314-014-AC. Standby Generator Unit 5 has been installed, tested and began operation in 2007. It is currently authorized under Title V air operation Permit No. 0250314-015-AV. The extension is needed to provide sufficient time to install Standby Generator Unit No. 6, conduct compliance tests and submit an application to revise the Title V air operation permit. The attached extension revises the expiration date from June 30, 2009 to June 30, 2011. We recommend granting this request.

Attachments



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

June 1, 2009

Sent by Electronic Mail – Received Receipt Requested

Mr. Rafael A. Terrero, P.E., Assistant Director
Alexander Orr Jr. Water Treatment Plant
Miami-Dade Water & Sewer Department
P.O. Box 330316
Miami, Florida 33233-0316

Re: Project No. 0250314-016-AC
Standby Generator Project
Extension of Permit No. 0250314-014-AC

Dear Mr. Terrero:

On May 18, 2009, the Department of Environmental Protection Department (Department) received a request to extend the expiration date of the above permit from June 30, 2009, to December 31, 2011. Standby Generator Unit 5 has been installed and is currently operational under Title V air operation permit No. 0250314-015-AV. Standby Generator Unit 6 has been ordered and is scheduled for delivery in January of 2010. The extension will allow sufficient time to complete construction and shakedown of Standby Generator Unit 6, conduct performance tests to demonstrate compliance with the emissions standards and submit an application to incorporate the new applicable provisions into the Title V air operation permit.

Determination: Based on the circumstances and information provided, the Department approves this request. The expiration date is hereby extended from **June 30, 2009**, to **June 30, 2012**. A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permitting decision is issued pursuant to Chapter 403, Florida Statutes (F.S.).

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, F.S., and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The Permitting Authority responsible for making a permit determination for this project is the Bureau of Air Regulation in the Department's Division of Air Resource Management. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241). Petitions must be filed within 14 days of receipt of this permit extension. 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

EXTENSION OF AIR CONSTRUCTION PERMIT EXPIRATION DATE

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 (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority'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 when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact; (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 including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the 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 Permitting Authority'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, F.A.C.

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

Mediation: Mediation is not available in this proceeding.

Effective Date: This permitting decision is final and effective on the date filed with the clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this action will not be effective until further order of the Department.

Judicial Review: Any party to this permitting decision (order) 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 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 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina Vielhauer, Chief
Bureau of Air Regulation

TLV/jfk/bm

EXTENSION OF AIR CONSTRUCTION PERMIT EXPIRATION DATE

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Extension of Air Construction Permit Expiration Date was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on 6/1/09 to the persons listed below.

- Mr. Rafael A. Terrero, Assistant Director, Alexander Orr Jr. WTP (terrero@miamidade.gov)
- Mr. Richard M. O'Rourke, P.E., Miami-Dade WSD (ROROU01@miamidade.gov)
- Ms. Mallika Muthiah, DERM (MuthiM@miamidade.gov)
- Mr. Lennon Anderson, SED (lennon.anderson@dep.state.fl.us)
- Ms. Heather Abrams, EPA Region 4 (abrams.heather@epamail.epa.gov)
- Ms. Kathleen Forney, EPA Region 4 (forney.kathleen@epamail.epa.gov)
- Mr. Dee Morse, National Park Service (dee_morse@nps.gov)
- Ms. Vickie Gibson, BAR Reading File (Victoria.Gibson@dep.state.fl.us)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated agency clerk, receipt of which is hereby acknowledged.



(Clerk)

6/1/09
(Date)

**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

PROJECT

Alexander Orr Jr. Water Treatment Plant
ARMS Facility ID No. 0250314
Project No. 0250314-016-AC
Extension of Air Construction Permit No. 0250314-014-AC
Additional Time to Install Standby Generator Unit 6

COUNTY

Dade County

APPLICANT

Miami-Dade Water & Sewer Department (MDWASD)
Alexander Orr Jr. Water Treatment Plant
P.O. Box 330316
Miami, Florida 33233-0316

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
Special Projects Section
2600 Blair Stone Road, MS #5505
Tallahassee, FL 32399-2400



June 1, 2009

1. GENERAL PROJECT INFORMATION

Facility Description and Location

The facility is an existing water treatment plant which is categorized under Standard Industrial Classification Code (SIC) No. 4941. The facility is located in Miami at 6800 SW 87th Street in Dade County, Florida. The UTM coordinates are Zone 17, 565.9 km East and 2843.3 km North.

Regulatory Categories

- The facility is not identified as a major source of hazardous air pollutants (HAP).
- The facility operates no units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 213 of the Florida Administrative Code (F.A.C.)
- The facility is a major stationary source of air pollution in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Project Description

The existing water treatment plant includes a bank of five 2865 kilowatts (kW) standby generators that are used to provide power generation capacity during the following periods: load-sharing with the local utility (FPL); power failure events; or as needed under other circumstances including severe weather warnings and events of potential electric utility power losses or reductions. Units 1 - 4 are standby generators and are regulated under Permit No. PSD-FL-249, which was issued in 1999 to authorize an increase in operation for the existing units. These engines are General Motors EMD model 20-645F4B generators, each with a nominal base load rating of 2865 kW driven by a 4,000 brake horsepower (bhp) prime mover. Each prime mover is a 20 cylinder, 2-cycle turbocharged diesel engine.

Standby Generator Units 5 and 6 (Emissions Units 024 and 025, respectively) are General Motors EMD Model No. 16-710G4C-T2 generator sets rated at 2865 kW each and were permitted under air construction permit No. 0250314-009-AC in October 2005. Authorization to construct was extended by air construction permit No. 0250314-014-AC in June of 2008. These units were permitted to provide redundant capacity for the existing standby generator bank and ensure an uninterrupted potable water supply and pressure. The following work has been completed.

- Standby Generator Unit 5 has been installed, certified and began operation in 2007. It is currently authorized under Title V air operation Permit No. 0250314-015-AV.
- The procurement order for Standby Generator Unit 6 was placed with the engine manufacturer in February 2008 with delivery expected in January 2010.
- Miami-Dade Water & Sewer Department (MDWASD) in-house engineers are preparing design and construction drawings and documents for the installation of Standby Generator Unit 6.

On May 18, 2009, we received a request to extend the expiration date of air construction Permit No. 0250314-014-AC from June 30, 2009 to December 31, 2011. The extension will allow the following work to be completed.

- Completion of design and construction drawings and documents for Standby Generator Unit 6;
- Bid process and awarding of construction contracts;
- Construction of engine foundation;
- Installation of Fuel piping;

- Expansion of existing electrical switchgear building;
- Installation of new transformers, switchgear and wiring;
- Installation of engine and appurtenances;
- Perform any shakedown and subsequent compliance tests; and
- Apply for a revision of the Title V air operation permit.

2. APPLICABLE REGULATIONS

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code, which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

General PSD Applicability

The Department regulates major air pollution sources in accordance with Florida’s PSD program under Rule 62-212.400, F.A.C. A PSD review is required in areas currently in attainment with the state and federal Ambient Air Quality Standards (AAQS) or areas designated as “unclassifiable” for a given pollutant. A new facility is considered “major stationary source” with respect to PSD if it emits or has the potential to emit: 250 tons per year or more of any regulated air pollutant; or 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the 28 PSD Major Facility Categories defined in Rule 62-210.200, F.A.C.; or 5 tons per year or more of lead.

For new projects at existing PSD major stationary sources, each regulated pollutant is reviewed for PSD applicability based on emissions threshold known as the “significant emission rates” defined in Rule 62-210.200, F.A.C. Pollutant emissions from the project exceeding these rates are considered “significant” and applicants must employ BACT to minimize emissions of each such pollutant, and evaluate the air quality impacts.

Background for Previous Permits

The existing plant is located in Dade County, which is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to state and federal AAQS. Potential NO_x emissions at the plant exceed 250 tons per year. Therefore, the plant is a PSD major facility and new projects must be reviewed for PSD applicability.

Units 1 - 4 were permitted in accordance with Permit No. PSD-FL-249. Only potential NO_x emissions exceeded the PSD significant emissions rates and required a BACT determination. The Department established a NO_x BACT limit based on fuel injection timing retardation and 4-pass turbocharger after-cooling. For operational flexibility, the PSD permit regulated operation of the standby generators as a single bank by

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

restricting fuel consumption to no more than 1,415,000 gallons per year. An Air Quality Analysis indicated satisfactory compliance with the PSD requirements based on the potential annual NOx emissions resulting from the BACT limit and the restricted fuel consumption. Standby Generator Units 5 and 6 were permitted by air construction permit No. 0250314-009-AC. These units are an addition to the existing bank of standby generators. As stated, above, Standby Generator Unit 5 started operation in September 2007.

PSD Applicability for Current Project

This permitting action is to extend the expiration date of air construction Permit No. 0210314-014-AC to provide additional time to install Standby Generator Unit 6, conduct compliance tests and submit an application for a Title V air operation permit revision. There is no emissions increase related to the project. Therefore, no additional PSD preconstruction review is required.

Federal Regulations

The proposed project will not increase the potential emissions of any pollutant, including hazardous air pollutants (HAP). Based on the current Title V air operation permit, the existing facility is not considered a major source of HAP. Therefore, the requirements of NESHAP-Subpart ZZZZ in 40 CFR 63 (Reciprocating Internal Combustion Engines) do not apply. This project is subject to applicable requirements of NSPS Subpart IIII in 40 CFR 60 (Stationary Compression Ignition Internal Combustion Engines).

3. PRELIMINARY DETERMINATION

Based on the information provided, the Department agrees to revise the expiration date **from June 30, 2009 to June 30, 2012**. The additional time is for the convenience of the Department so that the permit does not expire at the end of the calendar year. The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant and the conditions specified in the permit. Bruce Mitchell is the project engineer responsible for reviewing the application and drafting the permit changes. Additional details of this analysis may be obtained by contacting the project engineer at the Department's Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.



Carlos Alvarez, Mayor

RECEIVED

MAY 18 2009

Water & Sewer
P.O. Box 330316 • 3071 SW 38th Avenue
Miami, Florida 33233-0316
T 305-665-7471

miamidade.gov

BUREAU OF AIR REGULATION

May 6, 2009

Certified Mail: 7008 1830 0000 1722 0805
CCN: 52845

Mr. Jon Holtom, P.E., CPM
Title V Program Administrator
Florida Department of Environmental Protection
2600 Blair Stone Road, M.S. 5500
Tallahassee, Florida 32399-2400

Subject: Permit extension for Air Construction Permit No. 0250314-014-AC; Alexander Orr, Jr.
Water Treatment Plant, Facility ID 0250314

File No: 0250314-014-AC

Dear Mr. Holtom:

In accordance with Chapters 62-210 F.A.C. *Stationary Sources - General Requirements* and 62-4 F.A.C. *Permits*, Miami-Dade Water and Sewer Department (MDWASD) is requesting an extension to the subject permit so as to extend the expiration to December 31, 2011. Details are as follows:

Company name and address

Miami-Dade Water and Sewer Department
P.O. Box 330316
Miami, FL 33233-0316

Facility name and address

Alexander Orr, Jr. Water Treatment Plant
6800 SW 87th Avenue
Miami, FL 33173
Facility ID 0250314

Permit number and current expiration date

Title V Air Construction Permit No. 0250314-014-AC
Issued June 11, 2008
Expires June 30, 2009

The above permit supersedes
Title V Air Construction Permit No. 0250314-009-AC

Brief description of original project

The original project, as permitted under Title V Air Construction Permit No. 0250314-009-AC, consisted of the addition of two (2) new Electro-Motive Division (EMD) Model 20-645F4B standby generators (E.U. 024 and 025) to the existing bank of four (4) such EMD Series 645

Delivering Excellence Every Day

Mr. Jon Holtom

May 6, 2009

Page 2

Subject: Permit extension for Air Construction Permit No. 0250314-014-AC; Alexander Orr, Jr.
Water Treatment Plant, Facility ID 0250314

generators (E.U. 009 – 012). At the time of permitting, one of the two generators (E.U. 024) was available for installation with the second to be installed at some unspecified future date. During the procurement process for the second generator (E.U. 025), MDWASD was informed by the manufacturer that the Series 645 engine was not certified for EPA Tier 2 emissions performance while the Series 710 was certified. Accordingly, application was made to the FDEP to change the proposed engine to an EMD Model 16-710G4C-T2 and Title V Air Construction Permit No. 0250314-014-AC was issued to effect that change.

List of construction activities completed so far

- E.U. 024 has been installed and certified and is currently operational under Title V Air Operation Permit No. 0250314-015-AV.
- No on-site construction has been started for E.U. 025.
- The procurement order for E.U. 025 was placed with the engine manufacturer in February 2008 with delivery expected in January 2010.
- MDWASD in-house engineers are preparing design and construction drawings and documents for the installation of E.U. 025.

List of construction activities remaining

- Completion of design and construction drawings and documents.
- Bid process and awarding of construction contracts.
- Construction of engine foundation.
- Installation of fuel piping.
- Expansion of existing electrical switchgear building.
- Installation of new transformers, switchgear, and wiring.
- Installation of engine and appurtenances.

Reason why construction was delayed

Construction on this project is not substantially delayed. MDWASD has always represented that the installation of the sixth standby generator (E.U. 025) would be a protracted process due to the funding and procurement issues involved. The application for Title V Air Construction Permit No. 0250314-009-AC, which was issued in October 2005, included the below statement.

MDWASD is proposing to add two new General Motors Electro-Motive Division (EMD) Model 20-645F4B diesel-fueled standby generator sets to the existing bank of four such generators at its Alexander Orr, Jr. WTP in Miami, Florida. MDWASD expects to complete installation and initial compliance testing of proposed generator # 5 within two years of issuance of this requested air construction permit. Proposed generator # 6 and the required switchgear expansion is in the initial planning stage and construction is anticipated to begin within four years of the issuance date of this requested permit.

The sixth generator has been ordered and is in production with an expected delivery date of January, 2010. Currently, design plans for the installation including foundation, fuel delivery, and electrical infrastructure are being finalized and construction should begin in advance of

Mr. Jon Holtom

May 6, 2009

Page 3

Subject: Permit extension for Air Construction Permit No. 0250314-014-AC; Alexander Orr, Jr.
Water Treatment Plant, Facility ID 0250314

delivery more or less on the aforementioned fourth anniversary of the issuance of Permit No. 0250314-009-AC.

A revised schedule for completing the remaining construction activities

September 2009 – Complete design and construction documents and award construction contract(s); begin construction.

January 2010 – Complete foundation construction in advance of delivery; receive and set unit.

September 2010 – Complete substantial installation of engine, fuel system, and appurtenances.

April 2011 – Complete electrical switchgear building expansion and electrical equipment installation.

June 2011 – Finalize installation of engine and electrical infrastructure.

August 2011 – Complete testing and start-up of engine; schedule emissions compliance testing.

The above dates are conservative – MDWASD hopes to have the unit operational by June 1, 2011.

Other remaining related items (e.g., testing, filing reports, submitting an application to revise the air operation permit, etc.)

September 2011 – Perform initial compliance testing; submit application for Title V Air Operation Permit revision 90 days in advance of the proposed expiration of Title V Air Construction Permit No. 0250314-014-AC.

As the designated Responsible Official of this facility, I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Please contact me at (786) 552-8112 or Mr. Richard M. O'Rourke, P.E. at (786) 552-8123 if there are any questions regarding this report.

Sincerely,



Rafael A. Terrero, P.E., BCEE, M.ASCE
Assistant Director, Water System Operations

RMO/JRP

cc: J. Koerner – FDEP/TAL
L. Anderson – FDEP/SED
M. Muthiah – DERM

Livingston, Sylvia

From: Livingston, Sylvia
Sent: Monday, June 01, 2009 4:56 PM
To: 'terrero@miamidade.gov'
Cc: 'ROROU01@miamidade.gov'; 'MuthiM@miamidade.gov'; Anderson, Lennon; 'abrams.heather@epamail.epa.gov'; 'forney.kathleen@epamail.epa.gov'; 'dee_morse@nps.gov'; Gibson, Victoria; Mitchell, Bruce; Koerner, Jeff; Walker, Elizabeth (AIR)
Subject: MIAMI-DADE WATER AND SEWER DEPARTMENT - ALEXANDER ORR WATER TREATMENT PLANT; 0250314-016-AC - Extension
Attachments: 0250314-016-AC-F.pdf

Dear Sir/ Madam:

Attached is the official **Notice of Final Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

*Note: **We must receive verification that you are able to access the documents.** Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).*

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0250314.016.AC.F_pdf.zip

Owner/Company Name: MIAMI-DADE WATER AND SEWER DEPARTMENT
Facility Name: ALEXANDER ORR WATER TREATMENT PLANT
Project Number: 0250314-016-AC
Permit Status: FINAL
Permit Activity: CONSTRUCTION
Facility County: MIAMI-DADE
Processor: Bruce Mitchell

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the "*Air Permit Documents Search*" website at <http://www.dep.state.fl.us/air/eproducts/apds/default.asp>.

Permit project documents addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation at (850)488-0114.

Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506
sylvia.livingston@dep.state.fl.us

Livingston, Sylvia

From: Malcolm, Maricarmen (WASD) [MMALC01@miamidade.gov] on behalf of Terrero, Ralph (WASD) [TERRERO@miamidade.gov]
Sent: Wednesday, June 24, 2009 10:05 AM
To: Livingston, Sylvia
Cc: O'Rourke, Richard M. (WASD)
Subject: RE: MIAMI-DADE WATER AND SEWER DEPARTMENT - ALEXANDER ORR WATER TREATMENT PLANT; 0250314-016-AC - Extension

Ms. Livingston,

Your email was received.

From: Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]
Sent: Wednesday, June 24, 2009 9:17 AM
To: Terrero, Ralph (WASD)
Cc: O'Rourke, Richard M. (WASD)
Subject: FW: MIAMI-DADE WATER AND SEWER DEPARTMENT - ALEXANDER ORR WATER TREATMENT PLANT; 0250314-016-AC - Extension

Mr. Terrero,

We have not received confirmation that you were able to access the documents attached to this June 1st e-mail. Please confirm receipt by opening the attachment and sending a reply to me.

The Division of Air Resource Management is sending electronic versions of these documents rather than sending them Return Receipt Requested via the US Postal service. Your "receipt confirmation" reply serves the same purpose as tracking the receipt of the signed "Return Receipt" card from the US Postal Service. Please let me know if you have any questions.

Thanks,

Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506
sylvia.livingston@dep.state.fl.us

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

From: Livingston, Sylvia
Sent: Monday, June 01, 2009 4:56 PM
To: 'terrero@miamidade.gov'
Cc: 'ROROU01@miamidade.gov'; 'MuthiM@miamidade.gov'; Anderson, Lennon; 'abrams.heather@epamail.epa.gov'; 'forney.kathleen@epamail.epa.gov'; 'dee_morse@nps.gov'; Gibson, Victoria; Mitchell, Bruce; Koerner, Jeff; Walker, Elizabeth (AIR)

Subject: MIAMI-DADE WATER AND SEWER DEPARTMENT - ALEXANDER ORR WATER TREATMENT PLANT; 0250314-016-AC - Extension

Dear Sir/ Madam:

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Owner/Company Name: MIAMI-DADE WATER AND SEWER DEPARTMENT

Facility Name: ALEXANDER ORR WATER TREATMENT PLANT

Project Number: 0250314-016-AC

Permit Status: FINAL

Permit Activity: CONSTRUCTION

Facility County: MIAMI-DADE

Processor: Bruce Mitchell

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the "*Air Permit Documents Search*" website at <http://www.dep.state.fl.us/air/eproducts/apds/default.asp>.

Permit project documents are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation at (850)488-0114.

Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506
sylvia.livingston@dep.state.fl.us

Livingston, Sylvia

From: Anderson, Lennon
Sent: Tuesday, June 09, 2009 7:19 AM
To: Livingston, Sylvia
Subject: Re: MIAMI-DADE WATER AND SEWER DEPARTMENT - ALEXANDER ORR WATER TREATMENT PLANT; 0250314-016-AC - Extension

Thanks!

From: Livingston, Sylvia
To: 'terrero@miamidade.gov'
Cc: 'ROROU01@miamidade.gov' ; 'MuthiM@miamidade.gov' ; Anderson, Lennon; 'abrams.heather@epamail.epa.gov' ; 'forney.kathleen@epamail.epa.gov' ; 'dee_morse@nps.gov' ; Gibson, Victoria; Mitchell, Bruce; Koerner, Jeff; Walker, Elizabeth (AIR)
Sent: Mon Jun 01 16:55:37 2009
Subject: MIAMI-DADE WATER AND SEWER DEPARTMENT - ALEXANDER ORR WATER TREATMENT PLANT; 0250314-016-AC - Extension

Dear Sir/ Madam:

Attached is the official **Notice of Final Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0250314.016.AC.F_pdf.zip

Owner/Company Name: MIAMI-DADE WATER AND SEWER DEPARTMENT
Facility Name: ALEXANDER ORR WATER TREATMENT PLANT
Project Number: 0250314-016-AC
Permit Status: FINAL
Permit Activity: CONSTRUCTION
Facility County: MIAMI-DADE
Processor: Bruce Mitchell

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Sylvia Livingston



Carlos Alvarez, Mayor

RECEIVED

MAY 18 2009

Water & Sewer
P.O. Box 330316 • 3071 SW 38th Avenue
Miami, Florida 33233-0316
T 305-665-7471

miamidade.gov

May 6, 2009

BUREAU OF AIR REGULATION

Certified Mail: 7008 1830 0000 1722 0805
CCN: 52845

Mr. Jon Holtom, P.E., CPM
Title V Program Administrator
Florida Department of Environmental Protection
2600 Blair Stone Road, M.S. 5500
Tallahassee, Florida 32399-2400

Subject: Permit extension for Air Construction Permit No. 0250314-014-AC; Alexander Orr, Jr.
Water Treatment Plant, Facility ID 0250314

File No: 0250314-016-AC

Dear Mr. Holtom:

In accordance with Chapters 62-210 F.A.C. Stationary Sources - General Requirements and 62-4 F.A.C. Permits, Miami-Dade Water and Sewer Department (MDWASD) is requesting an extension to the subject permit so as to extend the expiration to December 31, 2011. Details are as follows:

Company name and address

Miami-Dade Water and Sewer Department
P.O. Box 330316
Miami, FL 33233-0316

Facility name and address

Alexander Orr, Jr. Water Treatment Plant
6800 SW 87th Avenue
Miami, FL 33173
Facility ID 0250314

Permit number and current expiration date

Title V Air Construction Permit No. 0250314-014-AC
Issued June 11, 2008
Expires June 30, 2009

The above permit supersedes
Title V Air Construction Permit No. 0250314-009-AC

Brief description of original project

The original project, as permitted under Title V Air Construction Permit No. 0250314-009-AC, consisted of the addition of two (2) new Electro-Motive Division (EMD) Model 20-645F4B standby generators (E.U. 024 and 025) to the existing bank of four (4) such EMD Series 645

Delivering Excellence Every Day

Mr. Jon Holtom

May 6, 2009

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Water Treatment Plant, Facility ID 0250314

generators (E.U. 009 – 012). At the time of permitting, one of the two generators (E.U. 024) was available for installation with the second to be installed at some unspecified future date. During the procurement process for the second generator (E.U. 025), MDWASD was informed by the manufacturer that the Series 645 engine was not certified for EPA Tier 2 emissions performance while the Series 710 was certified. Accordingly, application was made to the FDEP to change the proposed engine to an EMD Model 16-710G4C-T2 and Title V Air Construction Permit No. 0250314-014-AC was issued to effect that change.

List of construction activities completed so far

- E.U. 024 has been installed and certified and is currently operational under Title V Air Operation Permit No. 0250314-015-AV.
- No on-site construction has been started for E.U. 025.
- The procurement order for E.U. 025 was placed with the engine manufacturer in February 2008 with delivery expected in January 2010.
- MDWASD in-house engineers are preparing design and construction drawings and documents for the installation of E.U. 025.

List of construction activities remaining

- Completion of design and construction drawings and documents.
- Bid process and awarding of construction contracts.
- Construction of engine foundation.
- Installation of fuel piping.
- Expansion of existing electrical switchgear building.
- Installation of new transformers, switchgear, and wiring.
- Installation of engine and appurtenances.

Reason why construction was delayed

Construction on this project is not substantially delayed. MDWASD has always represented that the installation of the sixth standby generator (E.U. 025) would be a protracted process due to the funding and procurement issues involved. The application for Title V Air Construction Permit No. 0250314-009-AC, which was issued in October 2005, included the below statement.

MDWASD is proposing to add two new General Motors Electro-Motive Division (EMD) Model 20-645F4B diesel-fueled standby generator sets to the existing bank of four such generators at its Alexander Orr, Jr. WTP in Miami, Florida. MDWASD expects to complete installation and initial compliance testing of proposed generator # 5 within two years of issuance of this requested air construction permit. Proposed generator # 6 and the required switchgear expansion is in the initial planning stage and construction is anticipated to begin within four years of the issuance date of this requested permit.

The sixth generator has been ordered and is in production with an expected delivery date of January, 2010. Currently, design plans for the installation including foundation, fuel delivery, and electrical infrastructure are being finalized and construction should begin in advance of

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Subject: Permit extension for Air Construction Permit No. 0250314-014-AC; Alexander Orr, Jr.
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delivery more or less on the aforementioned fourth anniversary of the issuance of Permit No. 0250314-009-AC.

A revised schedule for completing the remaining construction activities

September 2009 – Complete design and construction documents and award construction contract(s); begin construction.

January 2010 – Complete foundation construction in advance of delivery; receive and set unit.

September 2010 – Complete substantial installation of engine, fuel system, and appurtenances.

April 2011 – Complete electrical switchgear building expansion and electrical equipment installation.

June 2011 – Finalize installation of engine and electrical infrastructure.

August 2011 – Complete testing and start-up of engine; schedule emissions compliance testing.

The above dates are conservative – MDWASD hopes to have the unit operational by June 1, 2011.

Other remaining related items (e.g., testing, filing reports, submitting an application to revise the air operation permit, etc.)

September 2011 – Perform initial compliance testing; submit application for Title V Air Operation Permit revision 90 days in advance of the proposed expiration of Title V Air Construction Permit No. 0250314-014-AC.

As the designated Responsible Official of this facility, I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Please contact me at (786) 552-8112 or Mr. Richard M. O'Rourke, P.E. at (786) 552-8123 if there are any questions regarding this report.

Sincerely,



Rafael A. Terrero, P.E., BCEE, M.ASCE
Assistant Director, Water System Operations

RMO/JRP

cc: J. Koerner – FDEP/TAL
L. Anderson – FDEP/SED
M. Muthiah – DERM