



Carlos Alvarez, Mayor

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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

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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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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