



May 14, 2012

Mr. Jonathan Holtom, P.E., CPM
Title V Program Administrator
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 5505
Tallahassee, FL 32399-2400

1116121-006-AC Medule ABO82 111021-007 AV Medule ABO83

Mr. Jeff Koerner, P.E. New Source Review Program Administrator Bureau of Air Regulation Florida Department of Environmental Protection 2600 Blair Stone Road, MS 5505 Tallahassee, FL 32399-2400

RE: FMPA Treasure Coast Energy Center – Facility ID No. 1110121 Revision request for 1110121-004-AC and 1110121-005-AV

Dear Messrs. Holtom and Koerner:

Enclosed please find the completed FDEP permit application form for a request for revisions to the above referenced permits. The requested revisions are detailed as follows:

#### 1110121-004-AC Condition 18.e and 1110121-005-AV Condition A.14.e:

Fuel Switching: Excess emissions due to oil-to-gas and gas-to-oil fuel switching shall not exceed one (1) hour each, respectively, in a 24-hour block.

Operational experience indicates that two (2) hours are required for fuel switching; therefore, we are requesting to revise the underlined wording as follows (Reference: Condition F.18.f of Permit No. 0950137-037-AV):

Fuel Switching: Excess emissions due to oil-to-gas and gas-to-oil fuel switching shall not exceed two (2) hours each, respectively, in a 24-hour block.

#### 1110121-004-AC Condition 20 and 1110121-005-AV Condition A.20:

**DLN Tuning**: CEMS data collected during initial or other major dry low nitrogen oxides (DLN) tuning sessions shall be excluded from the CEMS compliance demonstration provided the tuning session is performed in accordance with the manufacturer's specifications. A "major tuning session" would occur after

completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or circumstances as identified or requested by the equipment vendor. Prior to performing any major tuning session, the permittee shall provide the Compliance Authority with an advance notice of at least 14 days that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail.

FMPA understands that FDEP requires advance notification of tuning sessions for the purpose of eliminating the possibility that sources could, after the fact, falsely attribute excess emissions to DLN tuning which were actually caused by other unauthorized factors. However, in practice, when operational data indicate a need for tuning, it is likely necessary to schedule the tuning as expeditiously as possible. Poor combustor performance may be such that it does not exceed an emission limit, but a non-emissions indicator may foretell future combustor reliability problems. The OEM has determined that once these indicators exceed a certain threshold for a period of time a combustor will no longer be able to perform its intended function. DLN tuning is conducted to attempt to optimize/minimize non-emissions indicators, as well as NO<sub>x</sub> and CO emissions. Treasure Coast Energy Center is equipped with the capability for remote tuning to be conducted, which allows the potential for tuning to be initiated immediately upon detection of a serious issue. Under these circumstances, a 14 day notice, or in some cases, any advance notice at all, would unnecessarily delay tuning and increase the risk of unnecessary emissions problems and/or equipment damage. Therefore, we are proposing an alternative notification requirement of as much advance notification as possible, but no less than one (1) hour in advance of the initiation of a tuning session. We believe a one (1) hour notification requirement would still address the Department's concerns by confirming that any potential excess emissions are correctly attributed to tuning, while simultaneously utilizing the available technology to allow performance issues to be addressed as expeditiously as possible. Therefore, we are requesting to revise the underlined wording as follows:

**DLN Tuning**: CEMS data collected during initial or other major dry low nitrogen oxides (DLN) tuning sessions shall be excluded from the CEMS compliance demonstration provided the tuning session is performed in accordance with the manufacturer's specifications. A "major tuning session" would occur after completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or circumstances as identified or requested by the equipment vendor. Prior to performing any major tuning session, the permittee shall provide the Compliance Authority with an advance notice of at least one (1) hour that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail.

#### 1110121-005-AV Condition A.27:

Compliance Tests Prior To Renewal. Compliance tests shall be performed for  $PM/PM_{10}$ , ammonia slip and  $SAM/SO_2$  once every 5 years.  $NO_x$  emissions recorded by the CEMS shall be reported for each ammonia slip test run. The tests shall occur prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Condition A.13.

To better clarify the test requirements, we are requesting to add the underlined wording as follows (Reference: Condition E.29 of Permit No. 0970043-019-AV):

Compliance Tests Prior To Renewal. Compliance tests shall be performed for PM/PM<sub>10</sub>, ammonia slip and SAM/SO<sub>2</sub> once every five (5) years. NO<sub>x</sub> emissions recorded by the CEMS shall be reported for each ammonia slip test run. The tests shall occur prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Condition A.13. In stack compliance testing is not required for SAM/SO<sub>2</sub> and PM/PM<sub>10</sub>. Compliance with the limits and control requirements for SAM/SO<sub>2</sub> and PM/PM<sub>10</sub> is based on the recordkeeping required in Specific Condition A.31, visible emissions testing and CO continuous monitoring.

## 1110121-004-AC Condition 32.b and 1110121-005-AV Condition A.33.b:

SIP Quarterly Report. Within 30 days following the end of each calendar-quarter, the permittee shall submit a report to the Compliance Authority summarizing periods of CO and  $NO_x$  emissions in excess of the BACT permit standards following the NSPS format in 40 CFR 60.7(c), Subpart A. Periods of startup, shutdown and malfunction shall be monitored, recorded and reported as excess emissions when the emission levels exceed the standards specified in this permit. In addition, the report shall summarize the CEMS systems monitor availability for the previous quarter.

We are requesting to reduce the frequency of reporting to semiannual; therefore, we would like to revise the underlined wording as follows:

SIP <u>Semiannual</u> Report. Within 30 days following the end of each calendar-<u>half</u>, the permittee shall submit a report to the Compliance Authority summarizing periods of CO and  $NO_x$  emissions in excess of the BACT permit standards following the NSPS format in 40 CFR 60.7(c), Subpart A. Periods of startup, shutdown and malfunction shall be monitored, recorded and reported as excess emissions when the emission levels exceed the standards specified in this permit. In addition, the report shall summarize the CEMS systems monitor availability for the previous <u>calendar-half</u>.

Please contact Amy Deese at 321-239-1004 if you have any questions or require additional information.

Sincerely

Edward S. Leongomez Responsible Official,

Treasure Coast Energy Center

Enclosure

cc: Lennon Anderson, FDEP Southeast District Stanley Armbruster, Black & Veatch Tom Reedy, FMPA



# Department of Environmental Protection RECEIVED

# Division of Air Resource Management

MAY 1 7 2012

## APPLICATION FOR AIR PERMIT - LONG FORM

DIVISION OF AIR RESOURCE MANAGEMENT

## I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

**Air Operation Permit** – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

## **Identification of Facility**

1.	. Facility Owner/Company Name: Florida Municipal Power Agency	
2.	. Site Name: Treasure Coast Energy Center	
3.	. Facility Identification Number: 1110121	
4.	. Facility Location	
	Street Address or Other Locator: 4545 Energy Lane	
	City: Fort Pierce County: St. Lucie Zip Code: 34981	
5.	. Relocatable Facility? 6. Existing Title V Permitted Facility?	
	Yes X No X Yes No	
Ar	pplication Contact	
1.	. Application Contact Name: Amy Deese	
2.	· · · · · · · · · · · · · · · · · · ·	
	Organization/Firm: Florida Municipal Power Agency	
	Street Address: 8553 Commodity Circle	
	City: Orlando State: FL Zip Code: 32819	
3.	. Application Contact Telephone Numbers	
	Telephone: (321) 239 - 1004 ext. Fax: (407) 355 - 5796	
4.	. Application Contact E-mail Address:	
Ar	application Processing Information (DEP Use)	
1.	. Date of Receipt of Application: 5-17-12 3. PSD Number (if applicable):	
2.	Project Number(s): 110121-006-AC 4. Siting Number (if applicable):	
	1110121-007-AV	

# **Purpose of Application**

This application for air permit is being submitted to obtain: (Check one)		
Air Construction Permit		
Air construction permit.		
☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL). ☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.		
Air Operation Permit		
Initial Title V air operation permit.		
Title V air operation permit revision.		
Title V air operation permit renewal.		
Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.		
Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.		
Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)		
X Air construction permit and Title V permit revision, incorporating the proposed project.		
Air construction permit and Title V permit renewal, incorporating the proposed project.		
Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:     X   I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.		
Application Comment		
Please see cover letter for the list of requested revisions.		

# **Scope of Application**

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
001	GE PG7241 FA Combustion Turbine	AC1A	N/A
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		<u> </u>	
		<u></u>	

Application Processing Fee		
•	•	
Check one: Attached - Amount: \$	▼ Not Applicable	

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# Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1.	Owner/Authorized Representativ	e Name :	
2.	Owner/Authorized Representativ Organization/Firm:	e Mailing Address	
	Street Address:		
ļ.	City:	State:	Zip Code:
3.	Owner/Authorized Representativ	e Telephone Numbers	•••
	Telephone: ( ) - ext.	Fax: ( ) -	
4.	Owner/Authorized Representativ	e E-mail Address:	
5.	Owner/Authorized Representativ	e Statement:	
	I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.		the best of my knowledge, the omplete, and any estimates of nable techniques for calculating
	Signature	- -	Date

DEP Form No. 62-210.900(1) – Form

Effective: 03/11/2010

## **Application Responsible Official Certification**

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1.	Application Responsible Official Name: Edward S. Leongomez
2.	Application Responsible Official Qualification (Check one or more of the following options, as applicable):
	X For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.
	For a partnership or sole proprietorship, a general partner or the proprietor, respectively.
	For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.
	The designated representative at an Acid Rain source or CAIR source.
3.	Application Responsible Official Mailing Address Organization/Firm: Fort Pierce Utilities Authority
	Street Address: 4545 Energy Lane
	City: Fort Pierce State: FL Zip Code: 34981
4.	Application Responsible Official Telephone Numbers Telephone: (772) 429 - 8141 ext. Fax: (772) 429 - 8145
5.	Application Responsible Official E-mail Address: eleongomez@fpua.com

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- 6. Application Responsible Official Certification:
- I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.

Signature

Date

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## **Professional Engineer Certification**

	Olesson Digital Digital Colonia and Coloni
1.	Professional Engineer Name: Stanley A. Armbruster, P.E.
	Registration Number: 30562
2.	Professional Engineer Mailing Address
	Organization/Firm: Black & Veatch
	Street Address: 11401 Lamar Avenue
	City: Overland Park State: KS Zip Code: 66211
3.	Professional Engineer Telephone Numbers
	Telephone: (913) 458-2763 ext. Fax: (913) 458-2934
4.	Professional Engineer E-mail Address: ArmbrusterSA@bv.com
5.	Professional Engineer Statement:
	I, the undersigned, hereby certify, except as particularly noted herein*, that:
	(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
	(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.
	(3) If the purpose of this application is to obtain a Title V air operation permit (check here, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.
	(4) If the purpose of this application is to obtain an air construction permit (check here $\square$ , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here $\square$ , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.
	(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here , if so), I further certify that with the exception of any changes detailed as part of this application, each such emissions. Whit has been constructed or modified in substantial accordance with the information gives in the corresponding application for air construction permit and with all provisions contained in such permit.  Signature  STATE OF  Date
	(noun) & the second of the sec

\* Attach any execution to certification statement.

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