



Environmental Consulting & Technology, Inc.

July 7, 2014

Mr. Jeff Koerner, P.E. Administrator
Florida Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance
2600 Blair Stone Road, M.S. 5500
Tallahassee, Florida 32399-2400

**RE: Duke Energy Florida
P.L. Bartow Plant
Air Construction Application
L-0 Steam Turbine Blade Replacement**

Dear Mr. Koerner:

Duke Energy Florida (DEF) has attached an air construction application package to replace the L-0 steam turbine blades for the steam turbine-electrical generator (STG) at the P.L. Bartow Facility in Pinellas County. During a routine inspection of the L-0 blades in March 2012, damage to the original equipment manufacturer blades was discovered. DEF decided to voluntarily "de-rate" the STG in order to avoid catastrophic damage. The blades will be replaced with new blades capable of reaching the original design capacity without causing damage to the blade.

Please contact me at (352) 248-3354 (abass@ectinc.com) or Chris Bradley at (727) 820- 5962 (chris.bradley@duke-energy.com) if you have any questions or need additional information.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Andrew Bass, P.E.
Environmental Consultant

cc: David Read, FDEP
Lynn Scearce, FDEP
Chris Bradley, DEF

3701 Northwest
98th Street
Gainesville, FL
32606

(352)
332-0444

FAX (352)
332-6722

An Equal Opportunity/Affirmative Action Employer
www.ectinc.com



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

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: Duke Energy Florida, Inc. (DEF)	
2. Site Name: Bartow Plant	
3. Facility Identification Number: 1030011	
4. Facility Location... Street Address or Other Locator: Weedon Island City: St. Petersburg County: Pinellas Zip Code: 33702	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Application Contact Name: Andrew Bass	
2. Application Contact Mailing Address... Organization/Firm: ECT Street Address: 3701 NW 98th St. City: Gainesville State: FL Zip Code: 32606	
3. Application Contact Telephone Numbers... Telephone: (352) 332 - 0444 ext. Fax: () -	
4. Application Contact E-mail Address: abass@ectinc.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	3. PSD Number (if applicable):
2. Project Number(s):	4. Siting Number (if applicable):

APPLICATION INFORMATION

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)

- 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:

- 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.

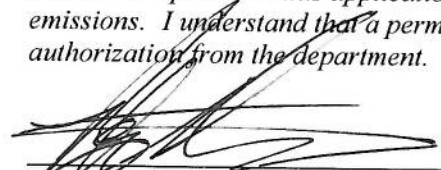
Application Comment

The purpose of application is to replace L-0 turbine blades on the Bartow Unit 4 steam turbine. Although the steam turbine has reached its design output in order to meet demand a number of times before March 2012, since the March 2012 maintenance and inspection outage the steam turbine generator has been “de-rated” to not more than 400 MW out of an abundance of caution after the discovery of cracks in the base of the L-0 steam turbine. DEF will be replacing the blades with a new design which eliminates the development of cracks in the “snubber” section of the turbine blades and will allow the steam turbine to return to the original design capacity. Although the project results in an increase in emissions employing the “Past Actual to Future Projected Actual” comparison, the project does not trigger PSD. DEF is requesting this construction application be processed separately from the concurrent Title V renewal application submitted to the department on May 19, 2014. Once this permit is final, DEF would like the department to add the permit to the Title V renewal scope, if possible. The project is scheduled to begin in early fall 2014.

APPLICATION INFORMATION

Owner/Authorized Representative Statement

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

1. Owner/Authorized Representative Name : Reginald Anderson
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Duke Energy Florida, Inc. Street Address: 1601 Weedon Island Drive City: St. Petersburg State: FL Zip Code: 33702
3. Owner/Authorized Representative Telephone Numbers... Telephone: (727) 827 - 6161 ext. Fax: (727) 827 - 6298
4. Owner/Authorized Representative E-mail Address: Reginald.Anderson@duke-energy.com
5. Owner/Authorized Representative Statement: <i>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.</i>  Signature <u>7/7/14</u> Date

APPLICATION INFORMATION

Application Responsible Official Certification

Not Applicable

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:
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> 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. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source or CAIR source.
3. Application Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
4. Application Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -
5. Application Responsible Official E-mail Address:

APPLICATION INFORMATION

6. Application Responsible Official Certification:

Not Applicable

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

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Andrew Bass Registration Number: 75512
2. Professional Engineer Mailing Address... Organization/Firm: ECT Street Address: 3701 NW 98th St. City: Gainesville State: FL Zip Code: 32606
3. Professional Engineer Telephone Numbers... Telephone: (352) 332 - 0444 ext. Fax: () -
4. Professional Engineer E-mail Address: abass@ectinc.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(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</i> <i>(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.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/>, 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.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/>, 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 <input type="checkbox"/>, 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.</i> <i>(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 <input type="checkbox"/>, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i> Signature: _____ No. 75512 Date: <u>7/7/14</u> (S) _____ STATE OF FLORIDA PROFESSIONAL ENGINEER

* Attach exception to certification statement.

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
NOX	(A)	N
HAPS	(A)	N
H133	(A)	N
SAM	(A)	N
PM10	(A)	N
SO2	(A)	N
CO	(A)	N
VOC	(A)	N
PM	(A)	N
PB	(B)	N
CPM	(C)	N
PM2.5	(C)	N
H047	(C)	N
F004	(C)	N
F001	(C)	N
H157	(C)	N
H186	(C)	N
H006	(C)	N
H001	(C)	N
H026	(C)	N
H104	(C)	N
H169	(C)	N
H162	(C)	N
H151	(C)	N
H148	(C)	N
H187	(C)	N
H132	(C)	N
H114	(C)	N
H113	(C)	N
H085	(C)	N
H021	(C)	N
H017	(C)	N
H119	(C)	N
NH3	(C)	N
H014	(C)	N
H095	(C)	N
H107	(C)	N
H106	(C)	N
TH	(C)	N
H150	(C)	N
H046	(C)	N
H027	(C)	N
H015	(C)	N

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>05/19/2014</u>
2.	Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>05/19/2014</u>
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>05/19/2014</u>

Additional Requirements for Air Construction Permit Applications

1.	Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment A</u>
3.	Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment B</u>
4.	List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
5.	Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9.	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10.	Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

Not Applicable

1. List of Exempt Emissions Units:
 Attached, Document ID: _____ Not Applicable (no exempt units at facility)

Additional Requirements for Title V Air Operation Permit Applications

Not Applicable

1. List of Insignificant Activities: (Required for initial/renewal applications only)
 Attached, Document ID: _____ Not Applicable (revision application)
2. Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought)
 Attached, Document ID: _____
 Not Applicable (revision application with no change in applicable requirements)
3. Compliance Report and Plan: (Required for all initial/revision/renewal applications)
 Attached, Document ID: _____
Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only)
 Attached, Document ID: _____
 Equipment/Activities Onsite but Not Required to be Individually Listed
 Not Applicable
5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)
 Attached, Document ID: _____ Not Applicable
6. Requested Changes to Current Title V Air Operation Permit:
 Attached, Document ID: _____ Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1. Acid Rain Program Forms:

Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):

Attached, Document ID: _____ Previously Submitted, Date: **05/19/2014**

Not Applicable (not an Acid Rain source)

Phase II NO_x Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):

Attached, Document ID: _____ Previously Submitted, Date: _____

Not Applicable

New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):

Attached, Document ID: _____ Previously Submitted, Date: _____

Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):

Attached, Document ID: _____ Previously Submitted, Date: **05/19/2014**

Not Applicable (not a CAIR source)

Additional Requirements Comment

ATTACHMENT A

DUKE ENERGY FLORIDA P.L. BARTOW POWER PLANT

DESCRIPTION OF PROPOSED MODIFICATION

In 2008, Power Block 4 (PB-4) was constructed which included four (4) 215 MW combined cycle combustion turbines (CT) and one (1) 420 MW steam turbine-electrical generator (STG) authorized by construction permit 103011-010-AC (PSD-FL-381). Power Block 4 began to commercially operate on June 1, 2009 and in March 2012 Duke energy (DE) conducted a routine maintenance and inspection outage on the steam turbine. During this inspection cracks were discovered in the “snubber” section of a large percentage of the L-0 turbine blades. The damaged steam turbine blades were removed and replaced with identical blades and the damaged blades were sent to Mitsubishi, the Original Equipment Manufacturer (OEM), for closer examination and testing in order to determine the root cause of the crack development in the “snubber”. Because the cause of the “snubber” cracking was being investigated but had not yet been identified, DE made the decision to mitigate the possibility of catastrophic failure of the replacement L-0 turbine blades by limiting the operation of the steam turbine to an output of only 400 MW. The output limitation on the steam turbine eliminated the firing of the duct burners. DE continued to work with Mitsubishi in order to identify the cause of the L-0 turbine blades “snubber” cracking and in October 2013 Mitsubishi announced a root cause for the “snubber” cracking had been identified and a solution had been developed. The solution involved modifying the base of the “snubber” section of the turbine blade, but no changes were made to materials, shape or dimensions of the turbine blade that would result in an increase efficiency or output above its original design of 450 MW. It is important to note that the steam turbine did operate a number of times at or near 450 MW between June 2009 and March 2012 when the load demand was present.

The focus of this construction permit application will be the replacement of the L-0 turbine blades on the Bartow Unit 4 steam turbine. The new with blades will allow Power Block 4 to again operate at the full design and historical capacity. Below are the emissions calculations before and after the replacement of the L-0 blades in the steam turbine.

PSD Calculations - Summary

Comparison of Baseline Actual Emissions and Future Projected Actual Emissions

Baseline Heat Input - 24 Month Annualized	55,388,869	mmBtu			
Future Heat Input - without Proj 12 Month Sum	56,864,960	mmBtu			
Future Heat Input with Proj 12 Month Sum	57,822,350	mmBtu	957,390	56,346,259	1.7%

FUTURE PROJECTED ACTUAL EMISSIONS (WITHOUT PROJECT) (MR1)												
*Highest Average Rate of Emissions of Any Consecutive 12-Month Period in 5 Years Following Project												
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensibles (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)
852.97	16.72	211.85	61.44	141.94	158.71	22.11	17.51	14.50	0.01	24.84	0.00	3,377,496.31

*Based on CBM/PAR Projections

FUTURE PROJECTED ACTUAL EMISSIONS (WITH PROJECT) (MR2)												
*Highest Average Rate of Emissions of Any Consecutive 12-Month Period in 5 Years Following Project												
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensibles (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)
867.34	17.01	215.41	62.47	144.33	161.38	22.02	17.51	0.01	0.01	24.74	0.00	3,433,232.08

*Based on CBM/PAR Projections

BASELINE ACTUAL EMISSIONS (BAE)												
*Highest Average Rate of Emissions of Any Consecutive 24-Month Period in Preceding 5 Years												
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensibles (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)
765.86	19.21	206.35	59.84	138.25	154.59	22.75	18.02	0.01	0.01	25.56	0.00	3,298,957.41

*Based on CEMS, Stack Test Data, AP - 42 Factor, etc.

TOTAL EMISSIONS INCREASE (TEI = MR2 - BAE)												
*Future Projected Actual Emissions (With Project) - Baseline Actual Emissions												
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensibles (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)
101.48	-2.21	9.07	2.63	6.07	6.79	-0.73	-0.51	0.00	0.00	-0.82	0.00	134,274.67

TOTAL PROJECTED EMISSIONS INCREASE > 50% OF SIGNIFICANCE THRESHOLD												
*Trigger for Prechange Record Keeping of Review												
40	40	25	15	10	100	40	0.6	0.6	7	0.7	75000	
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensibles (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)
81.48	0.00	0.00	0.00	1.07	6.79	0.00	0.00	0.00	0.00	0.00	0.00	96,774.67

Green indicates that source is required to comply with pre-project recordkeeping.

PSD Calculations - Summary

Proposed Date for Start of Normal Operation	12/31/2014	
Lookback Period	5	years

Past Actual covers period from	Nov-09	to	Nov-14
Future Projected covers period from	Dec-14	to	Dec-19

PROJECTED EMISSIONS INCREASE DUE TO DEMAND GROWTH (DG = BAE - MR1)													
*Future Projected Actual Emissions (Without Project) - Baseline Actual Emissions													
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensable (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)	
87.12	0.00	5.50	1.59	3.68	4.12	0.00	0.00	14.49	0.00	0.00	0.00	78,538.90	

PROJECTED EMISSIONS INCREASE DUE TO PROJECT (EI = TEI - DG = PAE - BAE)													
*Total Emissions Increase - Project Emissions Increase Due to Demand Growth													
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensable (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)	
14.36	0.00	3.57	1.03	2.39	2.67	0.00	0.00	0.00	0.00	0.00	0.00	55,735.77	

EMISSIONS UNIT COULD HAVE ACCOMMODATED DURING BASELINE PERIOD													
*[EAF% - GCF%] x [Baseline Actual Emissions / GCF%]													
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensable (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)	
130.45	6.06	77.10	22.36	51.66	57.76	8.50	6.73	0.00	0.00	9.55	0.00	1,232,696.36	

*Same Period Used to Calculate Baseline Actual Emissions

DEMAND GROWTH THE UNIT COULD HAVE ACCOMMODATED DURING BASELINE PERIOD													
*Demand Growth ≤ Emissions Unit Could Have Accommodated													
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensable (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)	
87.12	0.00	5.50	1.59	3.68	4.12	0.00	0.00	0.00	0.00	0.00	0.00	78,538.90	

PROJECTED EMISSIONS INCREASE ATTRIBUTED TO PROJECT > 50% OF SIGNIFICANCE THRESHOLD													
*Trigger for Prechange and Post Change Reporting													
40	40	25	15	10	100	40							
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	Condensable (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)	
87.12	0.00	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00	0.00	0.00	96,774.67	

Green indicates that source is required comply with pre and post project reporting and recordkeeping.

NET EMISSIONS INCREASE ABOVE SIGNIFICANCE LEVEL (TEI - DG - ST)													
*Net Emissions Increase ≥ Significance Level Threshold (Trigger = 100% of Sig. Level)													
40	40	25	15	10	10	100	40	0.6	0.6	7	0.7	75000	
NO _x (tons)	SO ₂ (tons)	PM (tons)	PM ₁₀ (tons)	PM _{2.5} (tons)	PMcon (tons)	CO (tons)	VOC (tons)	Hg (tons)	Pb (tons)	H2SO4 (tons)	HF (tons)	CO2e (tons)	
(26)	(42)	(21)	(14)	(8)	(7)	(101)	(41)	(15)	(1)	(8)	(1)	(19264)	

Yellow indicates that the emissions increase (excluding independent factors) > NSR significance thresholds.

PSD Calculations - Projected Increases Due to Project

Pollutant	CO ₂ e	Nox	NO _x	SO _x	VOC	CO	PM	PM ₁₀	PM _{2.5}	SAM
	<i>CEMS CO₂ + N₂O & CH₄ AP42 Emission Factors (tons)</i>	<i>CEMS and Modeled with No SCRS</i>	<i>CEMS and No SCRS</i>	<i>CEMS SO₂ & AP42 Emission Factor</i>	<i>Initial Compliance Stack Test (2/08/09)</i>	<i>Initial Compliance Stack Test (2/08/09)</i>	<i>AP42 Emission Factor</i>	<i>AP42 Emission Factor</i>	<i>AP42 Emission Factor</i>	<i>RePower Permit Application (7/31/06)</i>
Calculation Method										
Past Actual 5 Year lookback (2009 -2013)	3,298,957.41	765.86	765.86	19.21	18.02	22.75	206.35	59.84	138.25	25.56
Future Project Analysis Model	3,433,232.08	867.34	867.10	17.01	17.51	22.11	215.41	62.47	144.33	24.74
Future Project Analysis Model without Project (Base)	3,377,496.31	852.97	847.10	16.72	17.51	22.02	211.85	61.44	141.94	24.84
Total Emissions Increase	134,274.67	101.48	101.24	(2.20)	(0.51)	(0.64)	9.06	2.63	6.08	(0.82)
Demand Growth	78,538.90	87.11	81.24	(2.49)	(0.51)	(0.73)	5.50	1.60	3.69	(0.72)
Projected Emissions Increase due to the Project	55,735.77	14.36	20.00	0.29	-	0.09	3.57	1.03	2.39	(0.10)
Significance Level (tons)	75000	40	40	40	40	100	25	15	10	7

PSD Calculations - Detailed Analysis

Calculation of Baseline Actual Emissions (CEMS, Stack Test Data, AP - 42 Factor, etc.)

		Max	55,388,869.4	Max	765.9	Max	2	Max	4	Max	6	Max	8	Max	10	Max	12	Max	13	Max	14	Max	16	Max	18	Max	20	Max	22	Max	17.4	Max	62.4	Max	3,298,957.4					
Month	Heat Input		NOx (tons)		SO ₂ (tons)		PM (tons)		PM _{2.5} (tons)		PM ₁₀ (tons)		Condensable PM (tons)		CO (tons)		VOC (tons)		Hg (tons)		Pb (tons)		H2SO4 (tons)		HF (tons)		CO2 (tons)		NO2 (tons)		CH4 (tons)		CO2e (tons)							
	Monthly Emissions	24 Month Annualized	Monthly Emissions	Calculated NOx Emission Rate (lb/MMBtu)	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized	Monthly Emissions	24 Month Annualized					
Nov-09	4,647,590		40.875	0.0176		1.395	17.3	5.0	11.6	12.97	1.89	1.5	0.00	0.00	2.1283																				326,357.56	3,916,290.74				
Dec-09	3,544,316		27.899	0.0157		1.063	13.2	3.8	8.8	9.89	1.58	1.3	0.00	0.00	1.776																					276,764.64	2,110,591.41			
Jan-10	2,204,458		27.155	0.0246		0.873	8.2	2.4	5.5	6.15	0.96	0.8	0.00	0.00	1.0833																					131,586.94	1,131,320.371			
Feb-10	3,582,324		30.396	0.0170		1.074	13.3	3.9	8.9	10.00	1.56	1.2	0.00	0.00	1.7506																					212,895.393	2,133,288.58			
Mar-10	5,060,132		42.499	0.0168		1.518	18.9	5.5	12.6	14.12	2.14	1.7	0.00	0.00	2.3991																					300,716.312	3,013,288.20			
Apr-10	4,678,533		30.164	0.0129		1.404	17.4	5.1	11.7	13.06	1.90	1.5	0.00	0.00	2.1353																					278,036.091	2,786,601.84			
May-10	4,976,310		34.535	0.0139		1.493	18.5	5.4	12.4	13.89	2.07	1.6	0.00	0.00	2.3307																						295,735.778	2,963,337.53		
Jun-10	4,899,467		29.1	0.0119		1.47	18.3	5.3	12.2	13.67	2.09	1.7	0.00	0.00	2.3443																						291,164.971	2,917,574.43		
Jul-10	4,231,419		33.238	0.0157		1.27	15.8	4.6	10.6	11.81	2.19	1.7	0.00	0.00	2.4554																						251,472.384	2,519,840.06		
Aug-10	5,168,845		28.825	0.0112		1.551	19.3	5.6	12.9	14.43	2.16	1.7	0.00	0.00	2.4286																						307,171.247	3,077,962.28		
Sep-10	4,973,995		27.56	0.0111		1.492	18.5	5.4	12.4	13.88	2.02	1.6	0.00	0.00	2.2654																						295,601.688	2,962,033.16		
Oct-10	4,091,471		22.728	0.0111		1.228	15.2	4.4	10.2	11.42	1.66	1.3	0.00	0.00	1.8678																						243,148.446	2,436,432.00		
Nov-10	3,534,416		21.769	0.0123		1.259	13.2	3.8	8.8	9.86	1.28	1.0	0.00	0.00	1.4374																						210,335.334	2,107,627.73		
Dec-10	4,991,396		31.847	0.0128		1.499	18.6	5.4	12.5	13.93	1.97	1.6	0.00	0.00	2.218																						296,637.859	2,972,414.44		
Jan-11	3,995,995		22.296	0.0112		1.198	14.9	4.3	10.0	11.15	1.72	1.4	0.00	0.00	1.9281																						237,477.494	2,379,607.70		
Feb-11	3,211,880		17.661	0.0110		0.965	12.0	3.5	8.0	8.96	1.26	1.0	0.00	0.00	1.4149																						190,874.846	1,912,633.24		
Mar-11	4,339,040		32.414	0.0149		2.529	16.2	4.7	10.8	12.11	1.76	1.4	0.00	0.00	1.9758																						258,619.515	2,591,444.21		
Apr-11	5,208,150		34.177	0.0131		1.563	19.4	5.6	13.0	14.54	2.08	1.6	0.00	0.00	2.3356																						309,514.016	3,104,430.61		
May-11	5,097,953		48.248	0.0189		1.895	19.0	5.5	12.7	14.23	2.12	1.7	0.00	0.00	2.3792																						302,983.148	3,035,999.61		
Jun-11	4,822,149		70.696	0.0293		1.446	18.0	5.2	12.0	13.46	2.02	1.6	0.00	0.00	2.2678																						286,576.146	2,871,599.26		
Jul-11	5,134,084		76.624	0.0298		1.54	19.1	5.5	12.8	14.33	2.20	1.7	0.00	0.00	2.4718																						305,114.46	3,057,325.29		
Aug-11	5,408,404		79.577	0.0294		1.622	20.1	5.8	13.5	15.09	2.26	1.8	0.0062	0.00098	2.5396	22.966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	321,410.475	3,219,619.717		
Sep-11	4,594,910		64.933	0.0283		1.377	17.1	5.0	11.5	12.7944	1.82	1.42	2.00	21.443	1.6	16.987	0.00	0.0065	0.00	0.0102	2.2436	24.088	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	273,066.326	3,043,352.88	
Oct-11	5,480,382	53,938,809	80.417	0.0293	477.8165	1.646	17.185	20.4	200.946	5.9	58.274	13.7	134.634	15.30	150.54	1.97	22.429	1.6	17.768	0.00	0.0069	0.00	0.0108	2.215	25.196	0	0	0	0	0	0	0	0	0	0	0	0	0	325,694.855	3,206,200.307
Nov-11	4,638,619	53,934,323	70.8	0.0305	492.779	1.394	17.1845	17.3	200.93	5.0	58.27	11.6	134.6228	12.95	150.53	1.67	22.316	1.3	17.679	0.00	0.0069	0.00	0.0108	1.8764	25.07	0	0	0	0	0	0	0	0	0	0	0	0	0	275,663.318	3,205,930.646
Dec-11	3,812,324	54,068,327	57.991	0.0304	507.825	1.162	17.234	14.2	201.429	4.1	58.414	9.5	134.9573	10.64	150.9	1.49	22.27	1.2	17.642	0.00	0.0069	0.00	0.0108	1.6705	25.017	0	0	0	0	0	0	0	0	0	0	0	0	0	226,560.274	3,213,895.374
Jan-12	4,845,543	55,388,869	72.535	0.0299	530.515	3.372	18.4835	18.1	206.348	5.2	59.841	12.1	138.2535	13.52	154.59	1.93	22.752	1.5	18.024	0.00	0.0071	0.00	0.0111	2.1668	25.559	0	0	0	0	0	0	0	0	0	0	0	0	0	288,048.818	3,292,259.597
Feb-12	3,514,899	55,355,157	52.683	0.0300	541.6585	1.052	18.4725	13.1	206.223	3.8	59.805	8.8	138.1693	9.81	154.5	1.42	22.681	1.1	17.968	0.00	0.0071	0.00	0.0111	1.5908	25.479	0	0	0	0	0	0	0	0	0	0	0	0	0	208,882.791	3,290,253.296
Mar-12	3,320,441	54,485,311	47.666	0.0287	544.242	2.995	19.211	12.4	202.982	3.6	58.865	8.3	135.9981	9.27	152.07	1.39	22.309	1.1	17.674	0.00	0.0069	0.00	0.0109	1.5647	25.062	0	0	0	0	0	0	0	0	0	0	0	0	0	197,418.773	3,238,604.527
Apr-12	3,592,100	53,942,095	51.312	0.0286	554.816	1.069	19.0435	13.4	200.959	3.9	58.278	9.0	134.6422	10.03	150.55	1.51	22.115	1.2	17.519	0.00	0.0069	0.00	0.0108	1.6982	24.843	0	0	0	0	0	0	0	0	0	0	0	0	0	213,470.647	3,206,321.805
May-12	4,859,258	53,883,569	71.721	0.0295	573.409	1.489	19.0415	18.1	200.741	5.2	58.215	12.1	134.4962	13.56	150.39	2.01	22.08	1.6	17.492	0.00	0.0069	0.00	0.0108	2.2525	24.804	0	0	0	0	0	0	0	0	0	0	0	0	0	288,778.224	3,202,843.028
Jun-12	3,976,197	53,421,934	54.391	0.0274	586.0545	1.189	18.901	14.8	199.021	4.3	57.716	9.9	133.3439	11.10	149.1	1.74	21.907	1.4	17.355	0.00	0.0068	0.00	0.0107	1.9552	24.61	0	0	0	0	0	0	0	0	0	0	0	0	0	236,301.282	3,175,411.183
Jul-12	5,027,428	53,819,938	68.735	0.0273	603.803	1.498	19.015	18.7	200.503	5.4	58.146	12.5	134.3373	14.03	150.21	2.24	21.935	1.8	17.377																					

PSD Calculations - Detailed Analysis

Calculation of Future Projected Actual Emissions (With Implementation of Projects)

Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest		Highest	
57,822,350.0		860.9		867.3		17.0		215.4		62.5		144.3		Max		161.4		22.0		17.5		0.0		0.0		24.7		0.0		3,433,232.1		18.1		65.2		3,433,232.1	
Month	Heat Input (MMBtu)	NOx (tons)				SO ₂ (tons)		PM (tons)		PM _{2.5} (tons)		PM ₁₀ (tons)		Condensable PM (tons)		CO (tons)		VOC (tons)		Hg (tons)		Pb (tons)		H ₂ SO ₄ (tons)		HF (tons)		CO ₂ (tons)		NO ₂ (tons)		CH ₄ (tons)		CO _{2e} (tons)			
	Monthly Emissions 12 Month Annualized	Monthly Emissions Calculated	NOx Emission Rate (lb/MMBtu) Calculated	NOx Emissions (Tons) New 12 Month Annualized	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized	Monthly Emissions	12 Month Annualized		
Nov-09																																					
Nov-14																																					
Dec-14																																					
Dec-19																																					
Month																																					
Oct-13																																					
Nov-13																																					
Dec-13																																					
Jan-14																																					
Feb-14																																					
Mar-14																																					
Apr-14																																					
May-14																																					
Jun-14																																					
Jul-14																																					
Aug-14																																					
Sep-14																																					
Oct-14																																					
Nov-14																																					
Dec-14	5744030	86.16	0.03000	86.16		1.69		21.40		6.21		14.3		16.03		2.06		1.62		0.00		0.00		2.32				339714.59		1.80		6.48		339,714.59			
Jan-15	5232300	78.485	0.0300	78.48		1.54		19.49		5.65		13.1		14.60		1.92		1.53		0.00		0.00		2.15				310562.71		1.64		5.90		310,562.71			
Feb-15	2857070	42.856	0.0300	42.86		0.84		10.64		3.09		7.1		7.97		1.09		0.82		0.00		0.00		1.22				169255.49		0.90		3.22		169,255.49			
Mar-15	6083270	91.249	0.0300	91.25		1.79		22.66		6.57		15.2		16.98		2.16		1.72		0.00		0.00		2.43				357445.61		1.91		6.86		357,445.61			
Apr-15	5907100	88.607	0.0300	88.61		1.74		22.01		6.38		14.7		16.49		2.10		1.67		0.00		0.00		2.35				347114.31		1.85		6.66		347,114.31			
May-15	4059060	60.886	0.0300	59.87		1.19		15.12		4.39		10.1		11.33		1.68		1.33		0.00		0.00		1.89				248680.84		1.27		4.58		248,680.84			
Jun-15	4675340	70.13	0.0300	68.96		1.38		17.42		5.05		11.7		13.05		1.91		1.52		0.00		0.00		2.15				280495.36		1.47		5.27		280,495.36			
Jul-15	5293280	79.399	0.0300	78.08		1.56		19.72		5.72		13.2		14.77		2.14		1.69		0.00		0.00		2.40				311970.08		1.66		5.97		311,970.08			
Aug-15	5308190	79.623	0.0300	78.30		1.56		19.78		5.73		13.2		14.82		2.14		1.70		0.00		0.00		2.41				312521.88		1.67		5.98		312,521.88			
Sep-15	4215600	63.234	0.0300	62.18		1.24		15.71		4.55		10.5		11.77		1.70		1.35		0.00		0.00		1.91				249409.76		1.32		4.75		249,409.76			
Oct-15	2062320	30.935	0.0300	30.42		0.61		7.68		2.23		5.6		5.76		0.84		0.67		0.00	0.00	0.00	0.95	22.2				126129.38		0.65	16.1	2.33		126,129.38			
Nov-15	5850030	57,287,590.0	87.75	0.0300	87.75	852.91		859.3		1.72	16.8	21.79	213.4	6.32	61.9	14.6	143.0	16.33	159.9	2.08	21.8	1.65	17.3	0.00	0.00	0.00	0.00	343767.41		1.84	18.0	6.60		343,767.41			
Dec-15	5704900	57,248,460.0	85.574	0.0300	85.57	852.32		858.7		1.68	16.8	21.25	213.3	6.16	61.9	14.2	142.9	15.92	159.8	2.05	21.8	1.62	17.3	0.00	0.00	0.00	0.00	336989.86		1.79	18.0	6.43		336,989.86			
Jan-16	4777760	56,793,920.0	71.666	0.0300	71.67	845.51		851.9		1.41	16.7	17.80	211.6	5.16	61.4	11.9	141.8	13.33	158.5	1.76	21.6	1.44	17.2	0.00	0.00	0.00	0.00	286827.74		1.50	17.8	5.39		286,827.74			
Feb-16	3885500	57,822,350.0	58.283	0.0300	58.28	860.93		867.3		1.14	17.0	14.48	215.4	4.20	62.5	9.7	144.3	10.84	161.4	1.47	22.0	1.16	17.5	0.00	0.00	0.00	0.00	231879.85		1.22	18.1	4.38		231,879.85			
Mar-16	4961330	56,700,410.0	74.42	0.0300	74.42	844.10		850.5		1.46	16.7	18.48	211.2	5.36	61.3	12.4	141.5	13.85	158.3	1.78	21.6	1.41	17.2	0.00	0.00	0.00	0.00	294669.94		1.56	17.8	5.59		294,669.94			
Apr-16	5146700	55,940,010.0	77.201	0.0300	77.20	832.70		839.1		1.51	16.5	19.17	208.4	5.56	60.4	12.8	139.6	14.36	156.1	1.83	21.4	1.44	17.0	0.00	0.00	0.00	0.00	304242.36		1.61	17.5	5.80		304,242.36			
May-16	4735390	56,616,340.0	71.031	0.0300	69.85	842.67		849.2		1.39	16.7	17.64	210.9	5.12	61.2	11.8	141.3	13.22	158.0	1.92	21.6	1.52	17.2	0.00	0.00	0.00	0.00	283152.62		1.49	17.8	5.34		283,152.62			
Jun-16	4291960	56,232,960.0	64.379	0.0300	63.31	837.02		843.5		1.26	16.5	15.99	209.5	4.64	60.8	10.7	140.4	11.98	156.9	1.77	21.5	1.40	17.0	0.00	0.00	0.00	0.00	260719		1.35	17.6	4.84		260,719.00			
Jul-16	4621710	55,561,390.0	69.326	0.0300	68.17	827.11		833.4		1.36	16.3	17.22	207.0	4.99	60.0	11.5	138.7	12.90	155.1	1.90	21.2	1.50	16.9	0.00	0.00	0.00	0.00	276698.87		1.45	17.4	5.21		276,698.87			
Aug-16	4425250	54,678,450.0	66.379	0.0300	65.27	814.09		820.2		1.30	16.1	16.49	203.7	4.78	59.1	11.0	136.5	12.35	152.6	1.84	20.9	1.45	16.6	0.00	0.00	0.00	0.00	268855.12		1.39	17.2	4.99		268,855.12			
Sep-16	4242170	54,705,020.0	63.633	0.0300	62.57	814.48		820.6		1.25	16.1	15.80	203.8	4.58	59.1	10.6	136.5	11.84	152.7	1.74	21.0	1.38	16.6	0.00	0.00	0.00	0.00	254322.98		1.33	17.2	4.78		254,322.98			
Oct-16	3455150	56,097,850.0	51.827	0.0300																																	

ATTACHMENT B

DUKE ENERGY FLORIDA P.L. BARTOW POWER PLANT

APPLICABILITY ANALYSIS

This construction application is for the replacement of the L-0 turbine blades on the Bartow Unit 4 steam turbine. Based on baseline actual to projected actual applicability test, the replacement of the steam turbine (ST) blades does result in an increase in emissions, but does not result in an emissions increase for any of the applicable pollutants that exceed the Prevention of Significant Deterioration (PSD) Significant Emissions Rate (SER) threshold. Below are the applicable requirements for this project.

62-212.300 General Preconstruction Review Requirements.

- (e) If the Department issues any construction permit which avoids the requirements of subsections 62-212.400(4) through (12), F.A.C., based in whole or in part on projected actual emissions calculations, the permit shall contain the following monitoring, reporting and recordkeeping provisions:
1. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations if the change increases the design capacity of that emissions unit or its potential to emit that PSD pollutant. Emissions shall be computed in accordance with Rule 62-210.370, F.A.C.
 2. The permittee shall report to the Department within 60 days after the end of each year during which records must be generated under subparagraph 62-212.300(1)(e)1., F.A.C., setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
 - a. The name, address and telephone number of the owner or operator of the major stationary source;
 - b. The annual emissions as calculated pursuant to subparagraph 62-212.300(1)(e)1., F.A.C.;
 - c. If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and
 - d. Any other information that the owner or operator wishes to include in the report.
 3. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1. and 2., F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.