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BUREAU OF AIR RESOURCES

April 21, 2006

Mr. Jeff Koerner
FDEP
North Permitting Section
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

Re: Crystal River Facility – Title V Permit 0170004-009-AV
Units 4 & 5 SCR Air Construction Permit Application

Dear Mr. Koerner:

Attached is an original and three copies of an air construction permit application to install a Selective Catalytic Reduction (SCR) system at Crystal River Units 4 & 5. The SCR system is being installed in order to meet obligations under the Clean Air Interstate Rule (CAIR) and the Clean Air Mercury Rule (CAMR).

Thank you for your help in this matter. Please contact me at (727) 820 5295 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dave Meyer'.

Dave Meyer
Senior Environmental Specialist

XC: Mr. Bob Soich (cover Letter)

**AIR CONSTRUCTION PERMIT
CRYSTAL RIVER ENERGY COMPLEX
UNITS 4 AND 5**

Submitted to:

Florida Department of Environmental Protection

Submitted on behalf of:

*Progress Energy Florida
100 Central Avenue
St. Petersburg, Florida 33701*

Submitted by:

*Golder Associates Inc.
5100 West Lemon Street
Suite 114
Tampa, Florida 33609*

Distribution:

4 Copies - Florida Department of Environmental Protection
1 Copy - Progress Energy Florida
1 Copy - Golder Associates Inc.

April 2006

053-9555

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1.0 INTRODUCTION

Progress Energy Florida (PEF) is considering numerous environmentally-beneficial upgrades to Units 4 and 5 at the Crystal River Energy Complex. Due to the scheduling of the various upgrades that are under consideration, this application only addresses the installation of selective catalytic reduction (SCR) systems on Units 4 and 5. Construction is anticipated to commence in September of 2006, thereby becoming the critical path item for permitting. The additional upgrades summarized below will be addressed in a second application package at a later date and are provided for information only. This application is for the construction of the Units 4 and 5 SCR systems only.

Units 4 and 5 were permitted under the Power Plant Siting Act (PPSA) in 1978 (PA 77-09), and installed the Best Available Control Technology. These units are also subject to New Source Performance Standards (40 CFR Part 60, Subpart D). The Crystal River facility is currently authorized to operate under FDEP Title V Air Operation FINAL Permit No. 0170004-009-AV, with an effective date of January 1, 2005 and expiration date of December 31, 2009.

1.1 Background

The Crystal River Energy Complex is located North of Crystal River and West of U.S. Highway 19 in Citrus County, Florida. PEF currently operates four solid fuel-fired steam boilers (Emission Units (EU) ID Nos. 001, 002, 003 and 004) at the Crystal River Energy Complex. In addition to the four solid fuel-fired boilers, the site's emission sources include natural draft and mechanical draft cooling towers; solid fuel handling and storage activities; and fly ash and bottom ash handling and storage facilities.

Currently under consideration are upgrades to further improve the environmental performance of the existing Units 4 and 5 (EU ID Nos. 004 and 003, respectively) by installing new/upgraded air emission control devices and a new fly ash beneficiation system. Specifically, PEF is considering the addition of new emission control technologies, as well as upgrades to existing control equipment, as follows:

- Install low-NO_x burners;
- Add SCR systems for nitrogen oxide (NO_x) removal;

- Add flue gas desulfurization (FGD) systems for sulfur dioxide (SO₂) control; and
- Install a carbon burn out (CBO) unit to reburn fly ash generated.

These proposed activities would accomplish substantial environmental goals, namely: (1) allow for the reduction of NO_x and SO₂ emissions to meet the expected allowance allocations under the Clean Air Interstate Rule (CAIR), effective in 2009 and 2010, (2) allow for the reduction of mercury emissions to meet the expected allowance allocations under the Clean Air Mercury Rule (CAMR), effective in 2010 and (3) maximize the reuse of fly ash, and thereby minimize the landfilling of this material.

Due to the timing of these various upgrades that are under consideration, this application only addresses the installation of SCR systems on Units 4 and 5. Construction is anticipated to commence in September of 2006, thereby becoming the critical path item for permitting. The additional upgrades summarized above may be addressed in a second application package at a later date. This application contains the information required by Rule 62-213.420(3), F.A.C., including FDEP Form No. 62-210.900(1), Effective: 02/02/06, Application for Air Permit – Long Form.

This application provides additional background on the proposed SCR control equipment installations on Units 4 and 5 (Section 1.2) and a discussion of regulatory applicability (Section 2.0). An air quality modeling analysis was not required for this proposed project. Appendix A includes the required air permit application form.

1.2 Proposed Control Equipment Upgrades and Additions

As mentioned above, PEF is considering specific additions and upgrades to Units 4 and 5. This application specifically addresses the installation of SCR systems to control NO_x emissions from Units 4 and 5.

1.2.1 Schedule

The proposed schedule for SCR system installations was developed to minimize Unit 4 and 5 down time, and is proposed (approximately) as follows:

Proposed Modification	Commence Construction	Commence Operation
Unit 4 SCR	September 2006	November 2008
Unit 5 SCR	September 2006	April 2009

To maintain reliability and minimize unit down time, PEF is planning to commence construction on the SCR for Unit 4 in September 2006, and it will be operational by November 2008. PEF plans to also commence construction on the SCR for Unit 5 as early as September 2006, and it is proposed to be operational by April 2009. In addition, the FGD systems for Units 4 and 5 are anticipated to commence construction as early as December 2006. If this schedule holds, a second application package that addresses both FGD systems will be filed within a month or two of this initial application package to ensure that construction can commence by the December 2006 date. The reason that these additional control systems are not addressed at this time is due to the lack of specific engineering design data that would allow for the appropriate air quality modeling analysis to be conducted.

1.2.2 SCR System

PEF is proposing to install SCR control systems on Units 4 and 5. The SCR systems will be placed at the exit of the Units 4 and 5 boilers and upstream of each unit's air heater. Upstream of each SCR system's catalyst will be an ammonia injection grid and a mixing grid to facilitate a homogeneous mixture of ammonia and flue gas. Ammonia used in the SCRs will be provided from the plant's proposed urea-to-ammonia processing system and associated bulk storage tank systems.

A urea-to-ammonia system will be used for the SCR system. A urea-to-ammonia system stores liquid urea (typically a 40-50 percent solution) and hydrolyzes or thermally decomposes the urea into NH_3 , H_2O and CO_2 . Urea will be transported to the site via truck or rail as a 70 percent liquid solution that will be mixed with de-mineralized water and stored as a 40-50 percent wet solution in storage tanks. The concentration of the urea solution will be controlled by level and density controls, with make up water being supplied from the de-mineralized water system. The urea solution from the storage tanks is then pumped to the hydrolyzer where steam is used to decompose the urea solution into ammonia and carbon dioxide. The ammonia gas is then mixed with heated air in the ammonia flow control units and sent to the ammonia injection grid.

These SCR systems will allow PEF to substantially reduce NO_x emissions from Crystal River Units 4 and 5. Installation of the SCR systems will allow PEF flexibility in meeting its annual obligation under the Clean Air Interstate Rule by controlling NO_x emissions and thereby reducing dependence on allowances and exposure to the price volatility of the allowance markets. The SCR systems will also provide a co-benefit of assisting the proposed future FGD systems in reducing mercury emissions, assisting PEF in meeting its annual obligation under the Clean Air Mercury Rule by reducing emissions as opposed to relying on the purchase of allowances. In sum, the proposed SCR systems will assist PEF in reliably meeting its current and pending regulatory obligations.

2.0 REGULATORY APPLICABILITY ANALYSIS

Various regulatory programs were assessed regarding their potential to affect the development of the Crystal River Units 4 and 5 SCR system installation project, including:

- Prevention of Significant Deterioration (PSD) requirements at Rule 62-212.400, F.A.C;
- Ambient Air Quality Standards and PSD Increments at Rules 62-204.240 and 62-204.260, respectively;
- Federal New Source Performance Standards (NSPS) for electric utility steam generating units (40 CFR Part 60, Subpart D);
- Florida air pollution control regulations requiring a permit to construct; and
- The effects of the EPA's recently promulgated Clean Air Interstate Rule (CAIR).

2.1 Ambient Air Quality Standards and PSD Increments

The federal Clean Air Act (CAA) requires that National Ambient Air Quality Standards (NAAQS) be set for "criteria" pollutants, defined as air contaminants that have been demonstrated to have the potential for widespread adverse impacts on human health. In response, the EPA has identified six criteria pollutants and established corresponding NAAQS. These pollutants are SO₂, NO₂, PM₁₀, CO, ozone (O₃) and lead (Pb). In addition, the EPA promulgated a new NAAQS for particulate matter sized 2.5 microns and less (PM_{2.5}) on July 17, 1997. Compliance with the PM_{2.5} standard at the federal level is not yet required (the EPA policy is to use compliance with PM₁₀ as a surrogate). The NAAQS are designed to protect the public health and welfare with an adequate margin of safety. EPA has classified the area that the Crystal River site is located as an attainment area for all of the criteria pollutants. The FDEP has also established Ambient Air Quality Standards for the criteria pollutants. This proposed project will result in no emission increase of any criteria pollutant and, in fact, will result in a substantial decrease in NO_x emissions. Consequently, modeling was not required to address impacts on the NAAQS or on PSD Class I or Class II increments.

2.2 Prevention of Significant Deterioration

Crystal River is classified as an existing major facility. A modification to an existing major facility that results in a significant net emissions increase equal to or exceeding the significant emissions rates (SER) listed in Section 62-212.400, Table 212.400-2, F.A.C., is classified as a major modification and will be subject to the PSD New Source Review (NSR) preconstruction permitting program for those pollutants that exceed the PSD SERs. EPA has approved Florida's State Implementation Plan (SIP), which contains PSD regulations; therefore, PSD approval authority has been granted to the FDEP.

The procedures for determining applicability of the PSD NSR permitting program to the Crystal River Units 4 and 5 SCR installation project are specified in Rule 62-212.400(2), F.A.C. For each regulated pollutant, PSD is triggered as a result of a modification at an existing unit if the difference between the projected actual emissions and the baseline actual emissions equals or exceeds the significant emissions rate for that pollutant, as defined at Rule 62-210.200(243), F.A.C.

As described previously, the "project" for PSD review purposes consists of the installation of SCR systems on Units 4 and 5 to reduce NO_x emissions. The installation of an SCR system can result in additional SO₃ emissions due to the catalytic effect on the sulfur contained in the fuel. If an FGD system is located downstream of the SCR, there is the possibility for increased formation of sulfuric acid mist (H₂SO₄ or SAM), which is a PSD-affected pollutant. As this application addresses only the SCR installation (and not the FGD), an increase in SAM emissions would not be anticipated and is, therefore, not addressed. The addition of an alkali injection system, or any other type of control for reducing SO₃ formation in the SCR catalyst and subsequent SAM formation in the FGD, will be addressed in a second application package.

Projected actual emissions for the project will not exceed the PSD significant emission rates for SO₂, NO_x, PM/PM₁₀, CO, VOCs, mercury and H₂SO₄. Therefore, PSD review is not applicable for these pollutants.

The recent Department rulemaking with respect to NSR reform provides for consideration of startup and shutdown emissions, as well as fugitive emissions, in NSR applicability determinations (FDEP Rule 210.200(34)(a)(1), Definitions). PEF does not anticipate that the Units 4 and 5 emissions characteristics during startup and shutdown operations, or the number of startups and shutdowns,

post-change will be any different than current operations. An established startup and shutdown procedure is followed by plant personnel. Specific SCR operational considerations will be incorporated into these existing procedures.

2.3 New Source Performance Standards

Crystal River Units 4 and 5 are affected facilities under NSPS Subpart D. The proposed upgrades to Units 4 and 5 do not constitute a modification or reconstruction, so applicability of the emission standards to Units 4 and 5 in Subpart D is unchanged by the proposed project.

2.4 CAIR and CAMR- Future Considerations

On May 12, 2005, EPA promulgated a rule to reduce emissions of SO₂ and NO_x from electric generating units located in 29 eastern states, including Florida. This rule was codified as a revision to Subpart G of 40 CFR Part 51. The stated objective of the Clean Air Interstate Rule (CAIR), is to assist eastern states in achieving attainment with the new, more stringent PM_{2.5} and the 8-hour ozone NAAQS by reducing precursor emissions in upwind areas. PEF is proposing to install the SCR system control NO_x emissions and thereby reduce dependence on allowances and exposure to the price volatility of the allowance markets. Compliance of the Crystal River site with Florida's CAIR implementing regulations will be addressed following their finalization, in a separate subsequent application package as required by rules that the Department is planning to promulgate in 2006.

In addition to CAIR, EPA also promulgated a rule to limit mercury emissions from all new and existing coal-fired utility boilers on May 18, 2005. This rule was codified as a revision to Subpart B of 40 CFR Part 60. This Clean Air Mercury Rule (CAMR) will set an initial nation-wide cap on mercury emissions from coal-fired boilers of 38 tons per year (TPY) beginning in 2010, with an additional decrease to 15 TPY by 2018. PEF is proposing to install the SCRs and FGD systems, in part, to achieve the co-benefit of controlling mercury emissions and thereby reduce dependence on allowances and exposure to the price volatility of the allowance markets. Compliance of the Crystal River site with the CAMR rule will be addressed in a separate subsequent application package as required by rules that the Department is planning to promulgate in 2006.

APPENDIX A

APPLICATION FOR AIR PERMIT- LONG FORM



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 a proposed project:

- subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- at an existing federally enforceable state air operation permit (FESOP) or Title V permitted facility.

Air Operation Permit – Use this form to apply for:

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

Air Construction Permit & Revised/Renewal Title V Air Operation Permit (Concurrent Processing Option)

– Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: PROGRESS ENERGY FLORIDA, INC.	
2. Site Name: CRYSTAL RIVER POWER PLANT	
3. Facility Identification Number: 0170004	
4. Facility Location...: Street Address or Other Locator: NORTH OF CRYSTAL RIVER, WEST OF U.S. 19 City: CRYSTAL RIVER County: CITRUS Zip Code: 34428	
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: DAVE MEYER, SENIOR ENVIRONMENTAL SPECIALIST	
2. Application Contact Mailing Address... Organization/Firm: PROGRESS ENERGY FLORIDA Street Address: 100 CENTRAL AVE CX1B City: ST. PETERSBURG State: FL Zip Code: 33701	
3. Application Contact Telephone Numbers... Telephone: (727) 820-5295 ext. Fax: (727) 820-5229	
4. Application Contact Email Address: DAVE.MEYER@PGNMAIL.COM	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	4-25-06
2. Project Number(s):	0170004-013-AL
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

APPLICATION INFORMATION

Purpose of Application

This application for air permit is submitted to obtain: (Check one)

Air Construction Permit

☒ Air construction permit.

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

Progress Energy Florida (PEF) is currently considering upgrades to further improve the environmental performance of the existing Units 4 and 5 (EU Nos. 004 and 003, respectively) by installing new/upgraded air emission control devices. This application is submitted to address the installation of selective catalytic reduction (SCR) systems on Units 4 and 5. Construction is anticipated to commence in September of 2006, thereby becoming the critical path item for permitting. The additional upgrades under consideration may be addressed in a second application package at a later date.

This application provides additional background on the proposed SCR control equipment installations on Units 4 and 5 (Section 1.2) and a discussion of regulatory applicability (Section 2.0). An air quality modeling analysis was not required for this proposed project.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
004	FFSG, Unit 4		NA
003	FFSG, Unit 5		NA


Application Processing Fee

Check one: ☐ Attached - Amount: \$ _____ ☒ Not Applicable

APPLICATION INFORMATION

Owner/Authorized Representative Statement

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

1. Owner/Authorized Representative Name :	
BERNIE CUMBIE, PLANT MANAGER	
2. Owner/Authorized Representative Mailing Address...	
Organization/Firm: PROGRESS ENERGY	
Street Address: 100 CENTRAL AVE CN77	
City: ST PETERSBURG State: FLORIDA Zip Code: 33701	
3. Owner/Authorized Representative Telephone Numbers...	
Telephone: (352) 563-4484 ext. Fax: (352) 563-4496	
4. Owner/Authorized Representative Email Address: BERNIE.CUMBIE@PGNMAIL.COM	
5. Owner/Authorized Representative Statement:	
<p><i>I, the undersigned, am the owner or authorized representative of the facility 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 requirements identified in this application to which the facility 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.</i></p>	
 Signature	<u>4/19/06</u> Date

APPLICATION INFORMATION

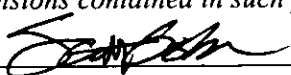
Application Responsible Official Certification

Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V 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.
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 Email Address:
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

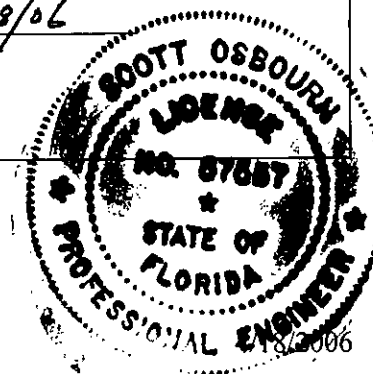
APPLICATION INFORMATION

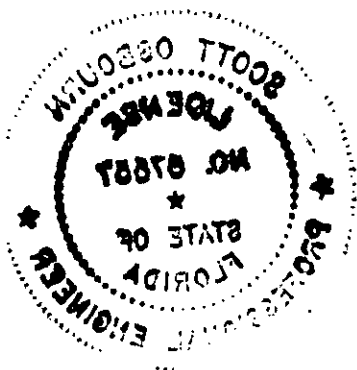
Professional Engineer Certification

1. Professional Engineer Name: SCOTT OSBOURN Registration Number: 57557
2. Professional Engineer Mailing Address... Organization/Firm: Golder Associates Inc.** Street Address: 5100 West Lemon St., Suite 114 City: Tampa State: FL Zip Code: 33609
3. Professional Engineer Telephone Numbers... Telephone: (813) 287-1717 ext.211 Fax: (813) 287-1716
4. Professional Engineer Email Address: SOSBOURN@GOLDER.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  Date <u>4/19/06</u> (seal)

* Attach any exception to certification statement.

** Board of Professional Engineers Certificate of Authorization #00001670





FACILITY INFORMATION

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 334.3 North (km) 3204.5		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 28/57/34 Longitude (DD/MM/SS) 82/42/01	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s):
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: DAVE MEYER, SENIOR ENVIRONMENTAL SPECIALIST	
2. Facility Contact Mailing Address... Organization/Firm: PROGRESS ENERGY Street Address: 100 CENTRAL AVE CX1B City: ST PETERSBURG State: FLORIDA Zip Code: 33701	
3. Facility Contact Telephone Numbers: Telephone: (727) 820-5295 ext. Fax: (727) 820-5229	
4. Facility Contact Email Address: DAVE.MEYER@PGNMAIL.COM	

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:	
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:	
3. Facility Primary Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -	
4. Facility Primary Responsible Official Email Address:	

FACILITY INFORMATION

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 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:	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

[illegible]

FACILITY INFORMATION

B. EMISSIONS CAPS

[illegible]

7.	Facility-Wide or Multi-Unit Emissions Cap Comment:
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FACILITY INFORMATION

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: _____
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: _____
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: _____

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 or Modification: <input checked="" type="checkbox"/> Attached, Document ID: <u>See Report, Section 1.0</u>
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>See Report, Section 2.0</u>
4. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification (Rule 62-212.400(2), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Preconstruction Air Quality Monitoring and Analysis (Rule 62-212.400(5)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Ambient Impact Analysis (Rule 62-212.400(5)(d), 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(5)(h)5., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(5)(e)1. 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

Additional Requirements for FESOP Applications

- ## **Additional Requirements for Title V Air Operation Permit Applications**

- ### Additional Requirements Comment