JEA
NORTHSIDE GENERATING STATION

Construction/Operating Permit Application

Use of Coal Treated with a Binder

August 2003

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21 West Church Street
Jacksonville, Florida 32202-3139

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BUREAU OF AIR REGULATION

August 25, 2003

JEA

Ms. Trina L. Vielhauer, Chief
Bureau of Air Regulation
Division of Air Resources Management
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

ELECTRIC
WATER
SEWER

RE: Northside Generating Station Units 1 and 2
Permit No. 0310045-011-AV and PSD-FL-265
0310045-012-AC/PSD-FL-265(B)

Dear Ms. Vielhauer:

Enclosed please find an original and four (4) copies of a request for permit modifications to the above referenced PSD and Title V permits to permit the use of solid fuel treated with a binder in the Northside Generating Station Units 1 and 2 circulating fluidized bed boilers.

Please see the introductory section of the attached application for a more detailed description of the requested modifications.

If you have any questions, please call me at (904) 665-6247.

Sincerely,

N. Bert Gianazza, P.E.
Environmental Services

cc: Scott Sheplak, P.E., FDEP (w/o atta.)
Bruce Mitchell, P.E., FDEP (w/o atta.)
Syed Arif, P.E., FDEP (w/o atta.)
Steve Pace, P.E., RESD (w/o atta.)

JEA Northside Generating Station
Fuel Binder
Construction/Operation Permit Application

This permit application is for the use of coal treated with a binder and a blend of such treated coal with other permitted fuels (hereinafter referred to as treated solid fuel) at JEA's Northside Generating Station (NGS) located in Jacksonville, Florida. This application seeks to revise the facility's existing PSD permit to include this change and also to include this change in the facility's Title V renewal permit that is currently being processed by FDEP. As required by Florida Administrative Code regulations, JEA has prepared the permit application on the forms provided by the Florida Department of Environmental Protection (FDEP). Supplementary attachments are included to support the information contained in the application forms. Because much of the supplemental information typically included with a permit application was included in the recently submitted Title V renewal application and this information has not and will not change as a result of this construction/operation permit application, it is not included with this application. This is in accordance with the application instructions.

The facility is currently operating under Title V Operation Permit Number 0310045-008-AV and Construction Permit Nos. PSD-FL-265 (3010045-003-AC) and PSD-FL-265A. Construction Permit Nos. PSD-FL-265 and PSD-FL-265A were issued to cover the repowering of NGS Units No. 1 and 2 to Circulating Fluidized Bed (CFB) Boilers No. 1 and 2 and ancillary equipment. An application for modification of the facility's Title V permit was submitted to FDEP in August of 2002. An application for a Title V operation permit renewal was submitted to FDEP on June 19, 2003.

This permit application is for revision of Construction Permit Number PSD-FL-265 to explicitly allow for the use of treated solid fuel in NGS CFB Boiler No. 1 and CFB Boiler No. 2, Emissions Unit 027 and 026, respectively. JEA also requests that by this application, this change also be incorporated into the facility's Title V operation permit. JEA is seeking approval to use coal treated with two types of similar binders with the trade names COVOL 298 and COVOL 298-1. Both of these binders are used to produce what is considered coal-based synthetic fuel. COVOL 298 is a proprietary carboxylated styrene/butadiene polymer. COVOL 298-1 is a proprietary carboxylated styrene/butadiene/acrylate/acetate polymer. The raw binders consist of 40-62% of the proprietary polymer and 38-60% water. When applied to the coal, the binder causes smaller coal particles (which represent potential fugitive emissions) to bind to each other or to larger coal particles. The binder will be applied to the coal off-site prior to the coal being received at NGS. Therefore, no additional equipment or processes are needed to affect this change.

JEA believes that the use of treated solid fuel as described in this application may already be allowed under construction permit PSD-FL-265. Condition 24(b) and (c) of construction permit PSD-FL-265 states that the indicated material handling sources "...shall use wet suppression, water spray, partial enclosures, and/or conditioned materials to control particulate emissions as needed..." Appendix BD to construction permit PSD-FL-265 includes a discussion of the BACT determination for the PSD permit. Included on page BD-9 of Appendix BD is a discussion of the strategies used to control particulate matter emissions from materials handling and storage operations. In the discussion of wet suppression it is stated that "Direct application of water

and/or chemicals to bulk materials for purposes of increasing moisture content and/or stabilizing small particles is considered a "wet suppression" technique." Because the binder acts to stabilize small particles, it is considered a "wet suppression" technique and as such one could consider that its use is allowed under conditions 24(b) and (c).

A similar FDEP determination was made concerning use of coal treated with these same binders at St Johns River Power Park (SJRPP). As detailed in letters from the FDEP to SJRPP dated September 20, 2000 and October 1, 2001, the finding by FDEP was that this type of binder applied to coal is considered a dust suppressant and is allowed under the existing SJRPP/NGS operating permit (Facility-wide condition II.9 and Appendix TV-3, Condition 57). These letters are included in Attachment A for reference. Based on the aforementioned determination, the same logic could lead to the finding that the use of coal treated with these binders is allowed under construction permit PSD-FL-265 and could be carried over to the NGS Title V operating permit.

However, we request a revision to the facility PSD construction permit to explicitly allow the use of the aforementioned coal treated with a fuel binder at NGS. This application includes the use of such treated solid fuel as an alternative operating segment for the affected emissions units. This application includes the forms for NGS CFB Boiler No. 1, CFB Boiler No. 2 and ancillary solid fuel handling emissions units. Because the binder will be applied to the coal prior to receiving of the coal at the NGS site, the construction permit application does not involve any physical construction at NGS. Rather, it allows for the flexibility of handling and firing this type of treated solid fuel at NGS. The intent of this application is <u>not</u> to replace the current permitted fuels allowed to be fired in these units, but to add treated solid fuel as an additional operating segment for the emissions units included in this application.

Because the binder is applied to the coal prior to the coal being received by NGS and the binder will act as a dust suppressant, no increase in emissions will occur from material handling and storage operations. Also, as previously discussed, the use of a coal treated with a binder is considered a particulate emissions control technique allowed under the facility's current PSD permit.

The MSDS information for the types of binders that are proposed to be used under this application show that the binders are made up of organic compounds consisting of carbon, hydrogen and oxygen. The MSDS for the two binders are included in Attachment A. Based on the MSDS information, in general, combustion products are expected to contain hydrocarbons, CO, CO_2 and smoke. Further, under boiler combustion temperatures a more complete breakdown of the binder solids can be expected with combustion primarily resulting in CO_2 emissions. The quantity of binder solids in the treated coal is expected to be approximately 0.1%. Due to the low concentration of the binder in the coal and the fact that the combustion of the binder produces similar combustion products as the coal itself, use of coal treated with this type of binder is expected to have a negligible effect on overall stack emissions from the CFB boilers. As such, no change in the existing CFB boiler emission limits are included in this application.

In summary, this application seeks FDEP approval for use of treated solid fuel in the NGS CFB boilers. This process is already approved and in use at SJRPP. JEA seeks to revise the facility's PSD construction permit to add treated solid fuel as additional fuel operating segments for the

affected emission units included in this application. Further, by this application, JEA requests that this change be incorporated into the facility's Title V operation permit. This application does not seek to change any other conditions of the existing NGS permit, and as such there is no increase in emission limits requested with the approval of this activity. The anticipated permit changes associated with this application would simply include the inclusion of treated solid fuel as one of the permitted fuel types for solid fuel handling operations and for use in NGS CFB Boilers No. 1 and 2.

Department of Environmental Protection

Division of Air Resources Management

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APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: JEA	
2. Site Name: Northside Generating Station	
3. Facility Identification Number: 0310045	[ ] Unknown
4. Facility Location: Street Address or Other Locator: 4377 Heckscher Drive City: Jacksonville County: Duval	Zip Code: 32226
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: N. Bert Gianazza - Environmental Services
2. Application Contact Mailing Address: Organization/Firm: JEA Street Address: 21 West Church Street City: Jacksonville State: Florida Zip Code: 32202
3. Application Contact Telephone Numbers: Telephone: (904)665-6247 Fax: (904)665-7376

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	8/24/03
2. Permit Number:	0310045-012-AC 0310045-013-AV
3. PSD Number (if applicable):	PSD-FL-265B
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial Title V air operation permit for an existing facility which is classified as a Title V source.

[ ] Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:_____

[ ] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: _____

Operation permit number to be revised:_____ _____

[X] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: Include with renewal operating permit currently being processed (Application submittal date of June 19, 2003)

[ ] Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: _____

Reason for revision: _____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[X] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   James M. Chansler, P.E., D.P.A. Vice President, Operations and Maintenance

2. Owner/Authorized Representative or Responsible Official Mailing Address:
   Organization/Firm: JEA
   Street Address: 21 West Church Street
   City: Jacksonville State: Florida Zip Code: 32202

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: (904) 665-4433 Fax: (904) 665-7990

4. Owner/Authorized Representative or Responsible Official Statement:

   I, the undersigned, am the owner or authorized representative(check here [ ], if so) or the responsible official (check here [X], if so) of the Title V source addressed in this application, whichever is applicable. 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. 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 any permitted emissions unit.*

   James M. Chansler 8.21.03

   Signature Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Bert Gianazza
   Registration Number: 38640

2. Professional Engineer Mailing Address:
   Organization/Firm: JEA Tower 9
   Street Address: 21 W Church St
   City: Jacksonville State: FL Zip Code: 32202

3. Professional Engineer Telephone Numbers:
   Telephone: (904) 665-6247 Fax: (904) 665-7376

4. 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.

If the purpose of this application is to obtain a Title V source 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 schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], 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.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X], 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.

Signature   Date 8/21/03

(seal)

NILS BERT GIANAZZA CERTIFICATE No. 38640 STATE OF FLORIDA PROFESSIONAL ENGINEER

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
026	NGS – Circulating Fluidized Bed Boiler No. 2	ACM2	NA
027	NGS – Circulating Fluidized Bed Boiler No. 1	ACM2	NA
028	NGS – Materials Handling & Storage Operations	ACM2	NA
029	NGS – Crusher Building Baghouse Exhaust (DC1)	ACM2	NA
031	NGS – Fuel Silo Dust Collectors (DC2 and DC3)	ACM2	NA

Application Processing Fee

Check one: [ ] Attached - Amount: $_____ [X] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:
   This application is for a construction permit to allow the Northside Generating Station (NGS) the flexibility to fire coal treated with a latex binder in existing NGS Circulating Fluidized Bed (CFB) Boilers Nos. 1 and 2. Approval of this construction permit application will not replace or eliminate the fuels that the emission units are currently allowed to fire. Rather, its purpose is to give the facility the flexibility to burn this type of fuel if market conditions and fuel supply conditions so merit. This application includes Emission Unit Information Forms (Section III) for the two CFB boilers and coal handling operations. Although information on emission rates, emission limits, compliance provisions, monitoring, etc. are given in these forms, much of this information is identical to information previously submitted in the facility's Title V renewal application, as the use of coal treated with the latex binder should result in no increase in emissions.

   This construction permit application is to allow for a change in operation in that it is to give the facility the flexibility of using a treated coal in the CFB boilers. There is no physical construction associated with this construction permit. As such, the Projected or Actual Date of Commencement of Construction and Projected Date of Completion of Construction fields below are left blank.

   This application also seeks to have this change incorporated into the Title V renewal permit. The Title V renewal application for this facility was submitted to the Department on June 19, 2003.

2. Projected or Actual Date of Commencement of Construction:

3. Projected Date of Completion of Construction:

Application Comment

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17 East (km): 446.70 North (km): 3365.10			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 30/25/51 Longitude (DD/MM/SS): 81/33/3			
3. Governmental Facility Code: 4	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4911
7. Facility Comment (limit to 500 characters):			

Facility Contact

1. Name and Title of Facility Contact: N. Bert Gianazza – Environmental Services
2. Facility Contact Mailing Address: Organization/Firm: JEA Street Address: 21 West Church Street City: Jacksonville State: Florida Zip Code: 32202
3. Facility Contact Telephone Numbers: Telephone: (904) 665-6247 Fax: (904) 665-7376

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source? [ ] Unknown
2. [X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?
4. [X] Major Source of Hazardous Air Pollutants (HAPs)?
5. [ ] Synthetic Minor Source of HAPs?
6. [X] One or More Emissions Units Subject to NSPS?
7. [ ] One or More Emission Units Subject to NESHAP?
8. [X] Title V Source by EPA Designation?
9. Facility Regulatory Classifications Comment (limit to 200 characters):

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Facility-wide applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
Facility-wide applicable regulations specified in operation permit 0310045-008-AV are hereby incorporated by reference.	

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	3. Requested Emissions Cap tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
CO	A				
NOX	A		3,600	Construction Permit No. PSD-FL-265	Consecutive 12-month period limit is for NGS Units 1, 2, and 3 combined
PM	A		881	Construction Permit No. PSD-FL-265	Consecutive 12-month period limit is for stack emissions from NGS Units 1, 2, and 3 combined.
PM10	A				
SO2	A		12,284	Construction Permit No. PSD-FL-265	Consective 12-month period limit is for NGS Units 1, 2, and 3 combined
VOC	A				
PB	B				
H114	B				
SAM	B				
H107	A				
H106	A				
H095	A				
H104	A				
H113	A				
H133	A				
HAPS	A				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Facility Plot Plan: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Process Flow Diagram(s): [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Fugitive Emissions Identification: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
6. Supplemental Information for Construction Permit Application: [X] Attached, Document ID:Attachment A [ ] Not Applicable
7. Supplemental Requirements Comment: Supplemental documents were included with the Title V renewal application for this facility which was submitted on June 19, 2003. Because the proposed change covered by this permit application will not affect the documents submitted with the Title V Renewal Application, Waiver Requested is checked for each document. This is in accordance with the application instructions. Because all applicable Additional Supplemental Requirements for Title V Air Operation Permit Applications were submitted with the June 19, 2003 submittal and will not change as a result of this permit application, Not Applicable is indicated for those items.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
   [ ] Attached, Document ID:_____ [X] Not Applicable

9. List of Equipment/Activities Regulated under Title VI:
   [ ] Attached, Document ID:
   [ ] Equipment/Activities On site but Not Required to be Individually Listed
   [X] Not Applicable

10. Alternative Methods of Operation:
    [ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading):
    [ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements:
    [ ] Attached, Document ID:_____ [X] Not Applicable

13. Risk Management Plan Verification:
    [ ] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID:_____) or previously submitted to DEP (Date and DEP Office:_____)
    [ ] Plan to be submitted to CEPPO (Date required:_____)
    [X] Not Applicable

14. Compliance Report and Plan:
    [ ] Attached, Document ID:_____ [X] Not Applicable

15. Compliance Certification (Hard-copy Required):
    [ ] Attached, Document ID:_____ [X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
NGS – Circulating Fluidized Bed Boiler No. 2

4. Emissions Unit Identification Number:
ID: 026
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A	Feb. 11, 2002	49	[X]

9. Emissions Unit Comment: (Limit to 500 Characters)
This construction permit application is to allow for firing of coal treated with a latex binder in NGS CFB Boiler No. 2 and NGS CFB Boiler No. 1, EU026 and EU027, respectively.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

   This application does not affect the control equipment/method for this emissions unit.

   Initial sulfur dioxide (SO_2) control is achieved through limestone injection into the circulating fluidized bed (CFB) boiler. Further SO_2 control is achieved using an add-on spray dryer absorber. Calcium acting to control SO_2 may be introduced into the CFB or spray dryer from a variety of sources, such as crushed limestone, slaked lime, bed ash and fly ash.

   Particulate matter (PM) consisting of flyash, the SO_2 control reaction products and unreacted calcium oxide is controlled using a fabric filter dust collector downstream of the spray dryer. Selective non catalytic reduction (SNCR) is used, as needed, to reduce oxides of nitrogen (NO_x) emissions by reacting ammonia with NO_x to form molecular nitrogen and water.

2. Control Device or Method Code(s): 041, 013, 018, and 107

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating: 297.5	MW	
3. Incinerator Information: Not applicable		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: 2,764		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): The maximum heat input rate is given in construction permit PSD-FL-265. The rate is included in the construction permit only for purposes of determining capacity during compliance stack tests. Continuous compliance with this rate is not required.		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject	State: Rule 62-204.800(17) - Specified Subparts of 40 CFR 73 Adopted by Reference
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference	State: Rule 62-204.800(18) - Specified Subparts and Appendices of 40 CFR 75 Adopted by Reference
Federal: 40 CFR 60 Subpart Da – Standards of Performance for Electric Utility Steam Gernerators for Which Construction is Commenced after September 18, 1978	State: Rule 62-204.800(20) - Specified Portions of 40 CFR 77 Adopted by Reference
Federal: 40 CFR 60 Subpart A – General Provisions	State: Rule 62-214 – Requirements for Sources Subject to the Federal Acid Rain Program
Federal: 40 CFR 72 – Permits Regulation (Acid Rain)	State: Rule 62-296.405 – Fossil Fuel Steam Generators with More Than 250 Million Btu per Hour Heat Input
Federal: 40 CFR 73 – Sulfur Dioxide Allowance System	State: Rule 62-296.702 – Fossil Fuel Steam Generators
Federal: 40 CFR 75 – Continuous Emission Monitoring	State: Rule 62-297.401 – Compliance Test Methods
Federal: 40 CFR 77 – Excess Emissions	Local: Jacksonville Environmental Protection Board, Rule 2 – Air Pollution
State: Rule 62-204.800(8)(b)2 – 40 CFR 60 Subpart Da adopted by reference	Ordinance Code, City of Jacksonville (JOC), Title X, Chapter 376, Odor Control
State: Rule 62-204.800(8)(c) - NSPS Controlling Standards	Ordinance Code, City of Jacksonville (JOC), Title V, Chapter 362, Air and Water Pollution.
State: Rule 62-204.800(8)(d) – General Provisions of 40 CFR 60 Subpart A adopted	
State: Rule 62-204.800(8)(e) – Specified appendices of 40 CFR Part 60 adopted	
State: Rule 62-204.800(16) – Specified Subparts and Appendices of 40 CFR 72 Adopted by Reference	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU026	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NGS – Circulating Fluidized Bed Boiler No. 2 (EU026) shares a common stack with NGS – Circulating Fluidized Bed Boiler No. 1 (EU027). The common stack contains two separate flues, one for each CFB boiler.		
5. Discharge Type Code: V	6. Stack Height: 495 feet	7. Exit Diameter: 15.0 feet
8. Exit Temperature: 144°F (approx)	9. Actual Volumetric Flow Rate: 700,300 (approx) acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 446.670 North (km): 3,365.070		
14. Emission Point Comment (limit to 200 characters): NGS – Circulating Fluidized Bed Boiler No. 2 (EU026) shares a common stack with NGS – Circulating Fluidized Bed Boiler No. 1 (EU027). The common stack contains two separate flues, one for each CFB boiler.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment ___1__ of ___2__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Coal treated with a binder used in Circulating Fluidized Bed Boiler No. 2		
2. Source Classification Code (SCC): 10100218	3. SCC Units: Tons Burned	
4. Maximum Hourly Rate: 138 (approx)	5. Maximum Annual Rate: 1,211,000 (approx)	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 8 (approx)	8. Maximum % Ash:	9. Million Btu per SCC Unit: 20 (approx)
10. Segment Comment (limit to 200 characters): This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment ___2__ of ___2__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): A blend of coal treated with a binder and other permitted fuels used in Circulating Fluidized Bed Boiler No. 2		
2. Source Classification Code (SCC): 10100299	3. SCC Units: Tons Burned	
4. Maximum Hourly Rate: 138 (approx)	5. Maximum Annual Rate: 1,211,000 (approx)	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 8 (approx)	8. Maximum % Ash:	9. Million Btu per SCC Unit: 20 (approx)
10. Segment Comment (limit to 200 characters): This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO			**EL**
NO_X	**107**		**EL**
PM	**018**		**EL**
PM_{10}	**018**		**EL**
SO_2	**041**	**013**	**EL**
VOC			**EL**
H114	**013**	**018**	**EL**
PB	**018**		**EL**
SAM	**041**	**013**	**EL**
H107	**013**		**EL**
H106	**013**		**NS**
HAPS			**NS**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control:
3. Potential Emissions: 350 lb/hour (24-hour block average) 1,533 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 350 lb/hr (24-hour block average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The CO emissions limit of 350 lb/hour on a 24-hour average (excluding startup and shutdown) is set by construction permit PSD-FL-265. The CO emissions limit of 1,533 tons/year is set by construction permit PSD-FL-265.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): The above hourly and annual emission rates are set by construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 350 lb/hr (24-hour block average)	4. Equivalent Allowable Emissions: 350 lb/hour 1,533 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the CO emission limits will be demonstrated using CEMS.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This CO emissions limit is based on a 24-hour block average, excluding periods of startup, shutdown and malfunction. The 24-hour block average is calculated from midnight to midnight. The CO limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Allowable Emissions Allowable Emissions ___2___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
1. Requested Allowable Emissions and Units: 1,533 tons per year	4. Equivalent Allowable Emissions: lb/hour 1,533 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the annual CO emissions limit will be demonstrated by summing the hourly CO emission rate data from the CEMS.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): The CO limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: NO_X	2. Total Percent Efficiency of Control:
3. Potential Emissions: 249 lb/hour (30-dary rolling average) 1,090 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.09 lb/mmBtu (30-day rolling average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0

8. Calculation of Emissions (limit to 600 characters):
The NO_x Emissions limit of 0.09 lb/mmBtu is set by construction permit PSD-FL-265.
The heat input rate to EU026 is 2,764 mmBtu/hr.
Hourly NO_x emissions rate = (0.09 lb/mmBtu)(2,764 mmBtu/hr) = 249 lb/hr
Annual NO_x emissions rate = (0.09 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb) =
= 1,090 ton/yr

9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits. The above hourly and annual emission rates are based on the lb/mmBtu limit given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.

Allowable Emissions Allowable Emissions ___1___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.09 lb/mmBtu on a 30-day rolling average	4. Equivalent Allowable Emissions: 249 lb/hour 1,090 tons/year

5. Method of Compliance (limit to 60 characters): Compliance with the NO_x emission limit will be demonstrated using CEMs.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This NO_x emissions limit is based on a 30-day rolling average, excluding periods of startup, shutdown and malfunction. The NOx limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.

Allowable Emissions Allowable Emissions ___2___ of ___2___

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.6 lb/mmBtu on a 30-day rolling average	4. Equivalent Allowable Emissions: 1,658 lb/hour 7,264 tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This NO_x emissions limit is based on a 30-day rolling average, excluding periods of startup, shutdown and malfunction. This NO_x emissions limit is from NSPS Subpart Da. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 30 lb/hour (3-hour average) 133 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.011 lb/mmBtu (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The PM Emissions limit of 0.011 lb/mmBtu is set by construction permit PSD-FL-265. The heat input rate to EU026 is 2,764 mmBtu/hr. Hourly PM emissions rate = (0.011 lb/mmBtu)(2,764 mmBtu/hr) = 30 lb/hr Annual PM emissions rate = (0.011 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb) = = 133 ton/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits. The above hourly and annual emission rates are based on the lb/mmBtu limit given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.011 lb/mmBtu based on a 3-hour average	4. Equivalent Allowable Emissions: 30 lb/hour 133 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. Compliance testing while firing petroleum coke will be conducted quarterly for the first two years of operation and then annually thereafter. The quarterly and annual testing may be conducted while firing coal if petroleum coke has been fired for less than 100 hours during the previous quarter or less than 400 hours during the previous federal fiscal year.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This PM emissions limit is based on a 3-hour average. The PM limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Allowable Emissions Allowable Emissions ___2___ of ___2___

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.03 lb/mmBtu based on a 3-hour average	4. Equivalent Allowable Emissions: 83 lb/hour 363 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This PM emissions limit is based on a 3-hour average. The PM emissions limit is from NSPS Subpart Da. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Emissions Unit Information Section ___1___ **of** ___5___

Pollutant Detail Information Page ___7___ **of** ___15___

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM_{10}	2. Total Percent Efficiency of Control:

3. Potential Emissions: 30 lb/hour (3-hour average) 133 tons/year	4. Synthetically Limited? [ ]

5. Range of Estimated Fugitive Emissions:
[ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.011 lb/mmBtu (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0

8. Calculation of Emissions (limit to 600 characters):
The PM_{10} Emissions limit of 0.011 lb/mmBtu is set by construction permit PSD-FL-265.
The heat input rate to EU026 is 2,764 mmBtu/hr.
Hourly PM_{10} emissions rate = (0.011 lb/mmBtu)(2,764 mmBtu/hr) = 30 lb/hr
Annual PM_{10} emissions rate = (0.011 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb)
= 133 ton/yr

9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits. The above hourly and annual emission rates are based on the lb/mmBtu limit given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.011 lb/mmBtu based on a 3-hour average	4. Equivalent Allowable Emissions: 30 lb/hour 133 tons/year

5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. Compliance testing while firing petroleum coke will be conducted annually thereafter. The annual compliance test may be conducted while firing coal if petroleum coke has been fired for less than 400 hours during the previous federal fiscal year.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This PM_{10} emissions limit is based on a 3-hour average. The PM_{10} limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.

Emissions Unit Information Section ___1___ **of** ___5___

Pollutant Detail Information Page ___8___ **of** ___15___

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: SO_2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 553 lb/hour (24-hour block average) 1,816 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.20 lb/mmBtu (24-hour block average) and 0.15 lb/mmBtu (30-day rolling average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The SO_2 Emissions limits of 0.20 lb/mmBtu (24-hour block average) and 0.15 lb/mmBtu (30-day rolling average) are set by construction permit PSD-FL-265. The heat input rate to EU026 is 2,764 mmBtu/hr. Hourly SO_2 emissions rate (24-hour average) = (0.20 lb/mmBtu)(2,764 mmBtu/hr) = 553 lb/hr Hourly SO_2 emissions rate (30-day average) = (0.15 lb/mmBtu)(2,764 mmBtu/hr) = 415 lb/hr Annual SO_2 emissions rate = (0.15 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb) = 1,816 ton/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits. The above hourly and annual emission rates are based on the lb/mmBtu limit given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___3___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.20 lb/mmBtu (24-hour block average)	4. Equivalent Allowable Emissions: 553 lb/hour tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the SO_2 emission limit will be demonstrated using CEMs.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This SO_2 emissions limit is based on a 24-hour block average, excluding periods of startup, shutdown and malfunction. The 24-hour block average is calculated from midnight to midnight. The SO_2 limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Allowable Emissions Allowable Emissions ___2___ of ___3___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.15 lb/mmBtu (30-day rolling average)	4. Equivalent Allowable Emissions: 415 lb/hour 1,816 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the SO_2 emission limit will be demonstrated using CEMs.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This SO_2 limit is based on a 30-day rolling average, excluding periods of startup, shutdown and malfunction. The SO_2 limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Allowable Emissions Allowable Emissions ___3___ of ___3___

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.6 lb/mmBtu (30-day rolling average)	4. Equivalent Allowable Emissions: 1,658 lb/hour 7,264 tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This SO_2 limit is based on a 30-day rolling average, excluding periods of startup, shutdown and malfunction. This SO_2 emissions limit is from NSPS Subpart Da. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Emissions Unit Information Section ___1___ of ___5___

Pollutant Detail Information Page ___10___ of ___15___

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:
3. Potential Emissions: 14 lb/hour (3-hour average) 61.5 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 14 lb/hour (3-hour average) and 61.5 tons/year Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The VOC emissions limit of 14 lb/hour is set by construction permit PSD-FL-265. The VOC emissions limit of 61.5 tons/year is set by construction permit PSD-FL-265.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): The above hourly and annual emission rates are based on conditions given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14 lb/hr (3-hour average)	4. Equivalent Allowable Emissions: 14 lb/hour 61.5 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. Compliance testing will be conducted once within every five years thereafter while firing petroleum coke or coal.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This VOC emissions limit is based on a 3-hour average. The VOC limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Emissions Unit Information Section ___1___ **of** ___5___

Pollutant Detail Information Page ___11___ **of** ___15___

Allowable Emissions Allowable Emissions ___2___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 61.5 tons per year	4. Equivalent Allowable Emissions: lb/hour 61.5 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the annual limit is demonstrated by demonstrating compliance with the short-term emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): The VOC limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: H114	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.03 lb/hour (6-hour average) 0.13 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.03 lb/hour (6-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The mercury emissions limit of 0.03 lb/hour is set by construction permit PSD-FL-265. Annual mercury emissions rate = (0.03 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 0.13 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit. The above hourly emission rate is based on construction permit PSD-FL-265 and is not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.03 lb/hour (6-hour average)	4. Equivalent Allowable Emissions: 0.03 lb/hour 0.13 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. As stipulated in construction permit PSD-FL-265, initial compliance tests only are required to show compliance with this emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This mercury emissions limit is based on a 6-hour average. The mercury limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PB	2. Total Percent Efficiency of Control:

3. Potential Emissions: 0.07 lb/hour (3-hour average) 0.31 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.07 lb/hour (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0

8. Calculation of Emissions (limit to 600 characters):
The lead emissions limit of 0.07 lb/hour is set by construction permit PSD-FL-265.
Annual lead emissions rate = (0.07 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 0.31 tons/year

9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit. The above hourly emission rate is based on construction permit PSD-FL-265 and is not affected by the use of coal treated with a binder as covered under this construction permit application.

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.07 lb/hr (3-hour average)	4. Equivalent Allowable Emissions: 0.07 lb/hour 0.31 tons/year

5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. As stipulated in construction permit PSD-FL-265, initial compliance tests only are required to show compliance with this emissions limit.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This lead emissions limit is based on a 3-hour average. The lead limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit.

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 1.1 lb/hour (3-hour average) 4.82 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 1.1 lb/hour (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The sulfuric acid mist emissions limit of 1.1 lb/hour is set by construction permit PSD-FL-265. Annual sulfuric acid mist emissions rate = (1.1 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 4.82 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit. The above hourly emission rate is based on construction permit PSD-FL-265 and is not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1.1 lbs/hour (3-hour average)	4. Equivalent Allowable Emissions: 1.1 lb/hour 4.82 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. As stipulated in construction permit PSD-FL-265, initial compliance tests only are required to show compliance with this emissions limit. Compliance with SO_2 limits based on CEMS data is used as a surrogate to indicate compliance with the SAM emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This sulfuric acid mist emissions limit is based on a 3-hour average. The sulfuric acid mist limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: H107	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.43 lb/hour (3-hour average) 1.88 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.43 lb/hour (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The hydrogen fluoride emissions limit of 0.43 lb/hr is set by construction permit PSD-FL-265. Annual hydrogen fluoride emissions rate = (0.43 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 1.88 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit. The above hourly emission rate is based on construction permit PSD-FL-265 and is not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.43 lb/hour (3-hour average)	4. Equivalent Allowable Emissions: 0.43 lb/hour 1.88 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. As stipulated in construction permit PSD-FL-265, initial compliance tests only are required to show compliance with this emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This hydrogen fluoride emissions limit is based on a 3-hour average. The hydrogen fluoride limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___1___ of ___2___

1. Visible Emissions Subtype: V10	2. Basis for Allowable Opacity: [ ] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Compliance with the visible emissions limit will be demonstrated using a continuous opacity monitor (COM).	
5. Visible Emissions Comment (limit to 200 characters): The visible emissions limit is based on a 6-minute block average and is based on excluding periods of startup, shutdown and malfunction. The VE limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___2___ of ___2___

1. Visible Emissions Subtype: V20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance: Compliance with the visible emissions limit will be demonstrated using a continuous opacity monitor (COM).	
5. Visible Emissions Comment (limit to 200 characters): The visible emissions limit is based on a 6-minute block average and is based on excluding periods of startup, shutdown and malfunction. This visible emissions limit is from NSPS Subpart Da. The VE limit and compliance determination methods are not affected by the use of coal treated with a binder as covered under this construction permit application.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___1__ of ___5__

1. Parameter Code: VE	2. Pollutant(s):
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: KVB/MIP Model Number: LM3086EPA3 Serial Number: 730217	
5. Installation Date:	6. Performance Specification Test Date: June 10, 2002
7. Continuous Monitor Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___2__ of ___5__

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	[ ] Rule [X] Other
4. Monitor Information: Manufacturer: TECO Model Number: 48C Serial Number: 48C-70175-365	
5. Installation Date:	6. Performance Specification Test Date: June 10, 2002
7. Continuous Monitor Comment (limit to 200 characters): Use of CEMs required by construction permit PSD-FL-265.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___3__ of ___5__

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: TECO Model Number: 42C	Serial Number: 42C-69028-362
5. Installation Date:	6. Performance Specification Test Date: June 10, 2002
7. Continuous Monitor Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___4__ of ___5__

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: TECO Model Number: 43C	Serial Number: 43C-69843-364
5. Installation Date:	6. Performance Specification Test Date: June 10, 2002
7. Continuous Monitor Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___5__ of ___5__

1. Parameter Code: CO2	2. Pollutant(s):
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: CAI Model Number: ZRH	Serial Number: AOXO603T
5. Installation Date:	6. Performance Specification Test Date: June 10, 2002
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID:Attachment A [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental documents were included with the Title V renewal application for this facility which was submitted on June 19, 2003. Because the proposed change covered by this construction permit application will not affect the documents submitted with the Title V Renewal Application, Waiver Requested is checked for those documents. This is in accordance with the application instructions. Because all applicable Additional Supplemental Requirements for Title V Air Operation Permit Applications were submitted with the June 19, 2003 submittal and will not change as a result of this permit application, Not Applicable is indicated for those items.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part – Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

4. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
NGS – Circulating Fluidized Bed Boiler No. 1

4. Emissions Unit Identification Number:
ID: 027
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A	May 27, 2002	49	[X]

9. Emissions Unit Comment: (Limit to 500 Characters) This construction permit application is to allow for firing of coal treated with a latex binder in NGS CFB Boiler No. 2 and NGS CFB Boiler No. 1.

Emissions Unit Control Equipment

3. Control Equipment/Method Description (Limit to 200 characters per device or method):

This application does not affect the control equipment/method for this emissions unit.

Initial sulfur dioxide (SO_2) control is achieved through limestone injection into the circulating fluidized bed (CFB) boiler. Further SO_2 control is achieved using an add-on spray dryer absorber. Calcium acting to control SO_2 may be introduced into the CFB or spray dryer from a variety of sources, such as crushed limestone, slaked lime, bed ash and fly ash.

Particulate matter (PM) consisting of flyash, the SO_2 control reaction products and unreacted calcium oxide is controlled using a fabric filter dust collector downstream of the spray dryer. Selective non catalytic reduction (SNCR) is used, as needed, to reduce oxides of nitrogen (NO_x) emissions by reacting ammonia with NO_x to form molecular nitrogen and water.

2. Control Device or Method Code(s): 041, 013, 018, and 107

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating: 297.5	MW	
3. Incinerator Information: Not applicable		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: 2,764		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
24 hours/day		7 days/week
52 weeks/year		8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): The maximum heat input rate is given in construction permit PSD-FL-265. The rate is included in the construction permit only for purposes of determining capacity during compliance stack tests. Continuous compliance with this rate is not required.		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject	State: Rule 62-204.800(17) - Specified Subparts of 40 CFR 73 Adopted by Reference
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference	State: Rule 62-204.800(18) - Specified Subparts and Appendices of 40 CFR 75 Adopted by Reference
Federal: 40 CFR 60 Subpart Da – Standards of Performance for Electric Utility Steam Gernerators for Which Construction is Commenced after September 18, 1978	State: Rule 62-204.800(20) - Specified Portions of 40 CFR 77 Adopted by Reference
Federal: 40 CFR 60 Subpart A – General Provisions	State: Rule 62-214 – Requirements for Sources Subject to the Federal Acid Rain Program
Federal: 40 CFR 72 – Permits Regulation (Acid Rain)	State: Rule 62-296.405 – Fossil Fuel Steam Generators with More Than 250 Million Btu per Hour Heat Input
Federal: 40 CFR 73 – Sulfur Dioxide Allowance System	State: Rule 62-296.702 – Fossil Fuel Steam Generators
Federal: 40 CFR 75 – Continuous Emission Monitoring	State: Rule 62-297.401 – Compliance Test Methods
Federal: 40 CFR 77 – Excess Emissions	Local: Jacksonville Environmental Protection Board, Rule 2 – Air Pollution
State: Rule 62-204.800(8)(b)2 – 40 CFR 60 Subpart Da adopted by reference	Ordinance Code, City of Jacksonville (JOC), Title X, Chapter 376, Odor Control
State: Rule 62-204.800(8)(c) - NSPS Controlling Standards	Ordinance Code, City of Jacksonville (JOC), Title V, Chapter 362, Air and Water Pollution.
State: Rule 62-204.800(8)(d) – General Provisions of 40 CFR 60 Subpart A adopted	
State: Rule 62-204.800(8)(e) – Specified appendices of 40 CFR Part 60 adopted	
State: Rule 62-204.800(16) – Specified Subparts and Appendices of 40 CFR 72 Adopted by Reference	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU027	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NGS – Circulating Fluidized Bed Boiler No. 2 (EU026) shares a common stack with NGS – Circulating Fluidized Bed Boiler No. 1 (EU027). The common stack contains two separate flues, one for each CFB boiler.		
5. Discharge Type Code: V	6. Stack Height: 495 feet	7. Exit Diameter: 15.0 feet
8. Exit Temperature: 144°F (approx)	9. Actual Volumetric Flow Rate: 700,300 (approx) acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 446.670 North (km): 3,365.070		
14. Emission Point Comment (limit to 200 characters): NGS – Circulating Fluidized Bed Boiler No. 2 (EU026) shares a common stack with NGS – Circulating Fluidized Bed Boiler No. 1 (EU027). The common stack contains two separate flues, one for each CFB boiler.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment ___1__ of ___2__

2. Segment Description (Process/Fuel Type) (limit to 500 characters): Coal treated with a binder used in Circulating Fluidized Bed Boiler No. 1		
4. Source Classification Code (SCC): 10100218	3. SCC Units: Tons Burned	
4. Maximum Hourly Rate: 138 (approx)	5. Maximum Annual Rate: 1,211,000 (approx)	6. Estimated Annual Activity Factor:
8. Maximum % Sulfur: 8 (approx)	8. Maximum % Ash:	9. Million Btu per SCC Unit: 20 (approx)
10. Segment Comment (limit to 200 characters): This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment ___2__ of ___2__

3. Segment Description (Process/Fuel Type) (limit to 500 characters): A blend of coal treated with a binder and other permitted fuels used in Circulating Fluidized Bed Boiler No. 1		
4. Source Classification Code (SCC): 10100299	3. SCC Units: Tons Burned	
4. Maximum Hourly Rate: 138 (approx)	5. Maximum Annual Rate: 1,211,000 (approx)	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 8 (approx)	8. Maximum % Ash:	9. Million Btu per SCC Unit: 20 (approx)
10. Segment Comment (limit to 200 characters): This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO			**EL**
NO_X	**107**		**EL**
PM	**018**		**EL**
PM_{10}	**018**		**EL**
SO_2	**041**	**013**	**EL**
VOC			**EL**
H114	**013**	**018**	**EL**
PB	**018**		**EL**
SAM	**041**	**013**	**EL**
H107	**013**		**EL**
H106	**013**		**NS**
HAPS			**NS**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control:
3. Potential Emissions: 350 lb/hour (24-hour block average) 1,533 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 350 lb/hr (24-hour block average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The CO emissions limit of 350 lb/hour on a 24-hour average (excluding startup and shutdown) is set by construction permit PSD-FL-265. The CO emissions limit of 1,533 tons/year is set by construction permit PSD-FL-265.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): The above hourly and annual emission rates are set by construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___2___

2. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 350 lb/hr (24-hour block average)	4. Equivalent Allowable Emissions: 350 lb/hour 1,533 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the CO emission limits will be demonstrated using CEMS.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This CO emissions limit is based on a 24-hour block average, excluding periods of startup, shutdown and malfunction. The 24-hour block average is calculated from midnight to midnight. The CO limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Allowable Emissions Allowable Emissions ___2___ of ___2___

2. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
2. Requested Allowable Emissions and Units: 1,533 tons per year	4. Equivalent Allowable Emissions: lb/hour 1,533 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the annual CO emissions limit will be demonstrated by summing the hourly CO emission rate data from the CEMS.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): The CO limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: NO_X	2. Total Percent Efficiency of Control:
3. Potential Emissions: 249 lb/hour (30-dary rolling average) 1,090 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.09 lb/mmBtu (30-day rolling average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The NO_x Emissions limit of 0.09 lb/mmBtu is set by construction permit PSD-FL-265. The heat input rate to EU026 is 2,764 mmBtu/hr. Hourly NO_x emissions rate = (0.09 lb/mmBtu)(2,764 mmBtu/hr) = 249 lb/hr Annual NO_x emissions rate = (0.09 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb) = = 1,090 ton/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits. The above hourly and annual emission rates are based on the lb/mmBtu limit given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.09 lb/mmBtu on a 30-day rolling average	4. Equivalent Allowable Emissions: 249 lb/hour 1,090 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the NO_x emission limit will be demonstrated using CEMs.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This NO_x emissions limit is based on a 30-day rolling average, excluding periods of startup, shutdown and malfunction. The NO_x limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Allowable Emissions Allowable Emissions __2__ of __2__

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.6 lb/mmBtu on a 30-day rolling average	4. Equivalent Allowable Emissions: 1,658 lb/hour 7,264 tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This NO_x emissions limit is based on a 30-day rolling average, excluding periods of startup, shutdown and malfunction. This NO_x emissions limit is from NSPS Subpart Da. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Emissions Unit Information Section ___2___ of ___5___

Pollutant Detail Information Page ___5___ of ___15___

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control:

3. Potential Emissions: 30 lb/hour (3-hour average) 133 tons/year	4. Synthetically Limited? [ ]

5. Range of Estimated Fugitive Emissions:
[ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.011 lb/mmBtu (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0

8. Calculation of Emissions (limit to 600 characters):
The PM Emissions limit of 0.011 lb/mmBtu is set by construction permit PSD-FL-265.
The heat input rate to EU026 is 2,764 mmBtu/hr.
Hourly PM emissions rate = (0.011 lb/mmBtu)(2,764 mmBtu/hr) = 30 lb/hr
Annual PM emissions rate = (0.011 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb) =
= 133 ton/yr

9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits. The above hourly and annual emission rates are based on the lb/mmBtu limit given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.

Allowable Emissions Allowable Emissions ___1___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.011 lb/mmBtu based on a 3-hour average	4. Equivalent Allowable Emissions: 30 lb/hour 133 tons/year

5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. Compliance testing while firing petroleum coke will be conducted quarterly for the first two years of operation and then annually thereafter. The quarterly and annual testing may be conducted while firing coal if petroleum coke has been fired for less than 100 hours during the previous quarter or less than 400 hours during the previous federal fiscal year.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This PM emissions limit is based on a 3-hour average. The PM limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.

Emissions Unit Information Section ___2___ **of** ___5___

Pollutant Detail Information Page ___6___ **of** ___15___

Allowable Emissions Allowable Emissions ___2___ of ___2___

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.03 lb/mmBtu based on a 3-hour average	4. Equivalent Allowable Emissions: 83 lb/hour 363 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This PM emissions limit is based on a 3-hour average. The PM emissions limit is from NSPS Subpart Da. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM_{10}	2. Total Percent Efficiency of Control:
3. Potential Emissions: 30 lb/hour (3-hour average) 133 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.011 lb/mmBtu (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0

8. Calculation of Emissions (limit to 600 characters):
The PM_{10} Emissions limit of 0.011 lb/mmBtu is set by construction permit PSD-FL-265.
The heat input rate to EU026 is 2,764 mmBtu/hr.
Hourly PM_{10} emissions rate = (0.011 lb/mmBtu)(2,764 mmBtu/hr) = 30 lb/hr
Annual PM_{10} emissions rate = (0.011 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb)
= 133 ton/yr

9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits. The above hourly and annual emission rates are based on the lb/mmBtu limit given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.011 lb/mmBtu based on a 3-hour average	4. Equivalent Allowable Emissions: 30 lb/hour 133 tons/year

5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. Compliance testing while firing petroleum coke will be conducted annually thereafter. The annual compliance test may be conducted while firing coal if petroleum coke has been fired for less than 400 hours during the previous federal fiscal year.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This PM_{10} emissions limit is based on a 3-hour average. The PM_{10} limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: SO_2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 553 lb/hour (24-hour block average) 1,816 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.20 lb/mmBtu (24-hour block average) and 0.15 lb/mmBtu (30-day rolling average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The SO_2 Emissions limits of 0.20 lb/mmBtu (24-hour block average) and 0.15 lb/mmBtu (30-day rolling average) are set by construction permit PSD-FL-265. The heat input rate to EU026 is 2,764 mmBtu/hr. Hourly SO_2 emissions rate (24-hour average) = (0.20 lb/mmBtu)(2,764 mmBtu/hr) = 553 lb/hr Hourly SO_2 emissions rate (30-day average) = (0.15 lb/mmBtu)(2,764 mmBtu/hr) = 415 lb/hr Annual SO_2 emissions rate = (0.15 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb) = 1,816 ton/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits. The above hourly and annual emission rates are based on the lb/mmBtu limit given in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___3___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.20 lb/mmBtu (24-hour block average)	4. Equivalent Allowable Emissions: 553 lb/hour tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the SO_2 emission limit will be demonstrated using CEMs.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This SO_2 emissions limit is based on a 24-hour block average, excluding periods of startup, shutdown and malfunction. The 24-hour block average is calculated from midnight to midnight. The SO_2 limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Emissions Unit Information Section ___2___ of ___5___

Pollutant Detail Information Page ___9___ of ___15___

Allowable Emissions Allowable Emissions ___2___ of ___3___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.15 lb/mmBtu (30-day rolling average)	4. Equivalent Allowable Emissions: 415 lb/hour 1,816 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the SO_2 emission limit will be demonstrated using CEMs.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This SO_2 limit is based on a 30-day rolling average, excluding periods of startup, shutdown and malfunction. The SO_2 limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Allowable Emissions Allowable Emissions ___3___ of ___3___

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.6 lb/mmBtu (30-day rolling average)	4. Equivalent Allowable Emissions: 1,658 lb/hour 7,264 tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This SO_2 limit is based on a 30-day rolling average, excluding periods of startup, shutdown and malfunction. This SO_2 emissions limit is from NSPS Subpart Da. Equivalent pound per hour and ton per year emissions are given for informational purposes only and do not constitute limits.	

Emissions Unit Information Section ___2___ of ___5___

Pollutant Detail Information Page ___10___ of ___15___

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:
3. Potential Emissions: 14 lb/hour (3-hour average) 61.5 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 14 lb/hour (3-hour average) and 61.5 tons/year Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The VOC emissions limit of 14 lb/hour is set by construction permit PSD-FL-265. The VOC emissions limit of 61.5 tons/year is set by construction permit PSD-FL-265.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): The above hourly and annual emission rates are based on construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___2___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14 lb/hr (3-hour average)	4. Equivalent Allowable Emissions: 14 lb/hour 61.5 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. Compliance testing will be conducted once within every five years thereafter while firing petroleum coke or coal.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This VOC emissions limit is based on a 3-hour average. The VOC limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions __2__ of __2__

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 61.5 tons per year	4. Equivalent Allowable Emissions: lb/hour 61.5 tons/year
5. Method of Compliance (limit to 60 characters): Compliance with the annual limit is demonstrated by demonstrating compliance with the short-term emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): The VOC limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: H114	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.03 lb/hour (6-hour average) 0.13 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.03 lb/hour (6-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The mercury emissions limit of 0.03 lb/hour is set by construction permit PSD-FL-265. Annual mercury emissions rate = (0.03 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 0.13 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit. The above hourly emission rate is based on construction permit PSD-FL-265 and is not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.03 lb/hour (6-hour average)	4. Equivalent Allowable Emissions: 0.03 lb/hour 0.13 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. As stipulated in construction permit PSD-FL-265, initial compliance tests only are required to show compliance with this emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This mercury emissions limit is based on a 6-hour average. The mercury limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PB	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.07 lb/hour (3-hour average) 0.31 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.07 lb/hour (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The lead emissions limit of 0.07 lb/hour is set by construction permit PSD-FL-265. Annual lead emissions rate = (0.07 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 0.31 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit. The above hourly emission rate is based on construction permit PSD-FL-265 and is not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.07 lb/hr (3-hour average)	4. Equivalent Allowable Emissions: 0.07 lb/hour 0.31 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. As stipulated in construction permit PSD-FL-265, initial compliance tests only are required to show compliance with this emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This lead emissions limit is based on a 3-hour average. The lead limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 1.1 lb/hour (3-hour average) 4.82 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 1.1 lb/hour (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The sulfuric acid mist emissions limit of 1.1 lb/hour is set by construction permit PSD-FL-265. Annual sulfuric acid mist emissions rate = (1.1 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 4.82 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit. The above hourly emission rate is based on construction permit PSD-FL-265 and is not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1.1 lbs/hour (3-hour average)	4. Equivalent Allowable Emissions: 1.1 lb/hour 4.82 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. As stipulated in construction permit PSD-FL-265, initial compliance tests only are required to show compliance with this emissions limit. Compliance with SO_2 limits based on CEMS data is used as a surrogate to indicate compliance with the SAM emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This sulfuric acid mist emissions limit is based on a 3-hour average. The sulfuric acid mist limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: H107	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.43 lb/hour (3-hour average) 1.88 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.43 lb/hour (3-hour average) Reference: Construction permit PSD-FL-265	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): The hydrogen fluoride emissions limit of 0.43 lb/hr is set by construction permit PSD-FL-265. Annual hydrogen fluoride emissions rate = (0.43 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 1.88 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit. The above hourly emission rate is based on construction permit PSD-FL-265 and is not affected by the use of coal treated with a binder as covered under this construction permit application.	

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.43 lb/hour (3-hour average)	4. Equivalent Allowable Emissions: 0.43 lb/hour 1.88 tons/year
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted. As stipulated in construction permit PSD-FL-265, initial compliance tests only are required to show compliance with this emissions limit.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): This hydrogen fluoride emissions limit is based on a 3-hour average. The hydrogen fluoride limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application. Equivalent ton per year emissions are given for informational purposes only and do not constitute a limit.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___1___ of ___2___

1. Visible Emissions Subtype: V10	2. Basis for Allowable Opacity: [ ] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Compliance with the visible emissions limit will be demonstrated using a continuous opacity monitor (COM).	
5. Visible Emissions Comment (limit to 200 characters): The visible emissions limit is based on a 6-minute block average and is based on excluding periods of startup, shutdown and malfunction. The VE limit and compliance determination methods given here are the same as those included in construction permit PSD-FL-265 and are not affected by the use of coal treated with a binder as covered under this construction permit application.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___2___ of ___2___

1. Visible Emissions Subtype: V20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance: Compliance with the visible emissions limit will be demonstrated using a continuous opacity monitor (COM).	
5. Visible Emissions Comment (limit to 200 characters): The visible emissions limit is based on a 6-minute block average and is based on excluding periods of startup, shutdown and malfunction. This visible emissions limit is from NSPS Subpart Da.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___1__ of ___5__

1. Parameter Code: VE	2. Pollutant(s):
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: KVB/MIP Model Number: LM3086EPA3	Serial Number: 730216
5. Installation Date:	6. Performance Specification Test Date: July 14, 2002
7. Continuous Monitor Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___2__ of ___5__

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	[ ] Rule [X] Other
4. Monitor Information: Manufacturer: TECO Model Number: 48C	Serial Number: 48C-70175-365
5. Installation Date:	6. Performance Specification Test Date: July 14, 2002
7. Continuous Monitor Comment (limit to 200 characters): Use of CEMs required by construction permit PSD-FL-265.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___3__ of ___5__

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: TECO Model Number: 42C	Serial Number: 42C-69020-362
5. Installation Date:	6. Performance Specification Test Date: July 14, 2002
7. Continuous Monitor Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor ___4__ of ___5__

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: TECO Model Number: 43C	Serial Number: 43C-69844-364
5. Installation Date:	6. Performance Specification Test Date: July 14, 2002
7. Continuous Monitor Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor __5__ of __5__

1. Parameter Code: CO2	2. Pollutant(s):
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: CAI Model Number: ZRH	Serial Number: AOXO606T
5. Installation Date:	6. Performance Specification Test Date: July 14, 2002
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID:Attachment A [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental documents were included with the Title V renewal application for this facility which was submitted on June 19, 2003. Because the proposed change covered by this construction permit application will not affect the documents submitted with the Title V Renewal Application, Waiver Requested is checked for those documents. This is in accordance with the application instructions. Because all applicable Additional Supplemental Requirements for Title V Air Operation Permit Applications were submitted with the June 19, 2003 submittal and will not change as a result of this permit application, Not Applicable is indicated for those items.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part – Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Materials handling & storage operations consisting of Belt Conveyor No. 1 (EU028), Transfer Buildings (EU028c, EU028g, EU028i, EU028q, EU028d, EU028v and EU028o) and Fuel Storage Domes A & B (EU028h).

4. Emissions Unit Identification Number: ID: 028 — [ ] No ID [ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A		49	[ ]

9. Emissions Unit Comment: (Limit to 500 Characters) This emissions unit consists of multiple material handling and storage operations which are sources of fugitive emissions. The emission sources identified in this Information Section (Section 3a) are those with a 5% opacity standard. Emission sources that are part of emissions unit 28 that have a 10% opacity standard (from construction permit PSD-FL-265 and PSD-FL-265A) are covered in Information Section 3b. This emissions unit consists of the following emission sources with requested nomenclature and emissions unit identifier:

- Transfer buildings that contain conveyor transfer points for the transfer of coal. The following transfer buildings, with JEA nomenclature, are included as part of this emissions source. The transfer buildings are numbered sequentially as they occur in the process with Transfer Building No. 1 being the transfer building nearest the vessel unloading operations and Transfer Building No. 5 being the transfer building immediately upstream of the fuel storage buildings. Transfer Buildings No. 1 through 5 are associated with the transfer of raw coal, pet coke and limestone, while Transfer Building No. 6 is associated with the transfer of raw coal and pet coke and the Plant Transfer Building is associated with the transfer of crushed coal and pet coke.
  - Transfer Building No. 1 (EU028c)
  - Transfer Building No. 2 (EU028g)
  - Transfer Building No. 3 (EU028i)
  - Transfer Building No. 4 (EU028q)
  - Transfer Building No. 5 and limestone loadout chute (EU028d)
  - Transfer Building No. 6 (EU028v)
  - Plant Transfer Building (EU028o)
- The Fuel Storage Domes A & B (EU028h).
- Conveyors: Except for Belt Conveyor No. 1 (EU028), which is used to transfer materials from the vessel unloading operation to Transfer Building No. 1, all conveyors are enclosed. The enclosed conveyors are not a source of fugitive emissions. Fugitive emissions associated with the conveying of coal, pet coke and limestone in the enclosed conveyors would be associated with transfer points that are within the transfer buildings, which are discussed above.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): Based on the requirements of construction permit PSD-FL-265 particulate matter emissions from the emission sources covered under this emissions unit will be controlled, on an as needed basis, by the use of wet suppression, water spray, coverings, and/or conditioned materials. Particulate matter emissions from this emissions unit are fugitive emissions. The operating scenario covered by this construction permit application involves the use of coal that has been treated with a binder. The binder acts as a dust suppressant, as previously determined by FDEP (see attachment A).
2. Control Device or Method Code(s): 061, 062, and 054 as needed

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information: Not applicable		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	2,420,000 tons per year coal/pet coke	
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): While the maximum hourly throughputs differ for the different equipment covered under this emissions unit, construction permit PSD-FL-265 limits the annual coal/petroleum coke handling and usage rate to 2.42 million tons per year. The maximum annual process throughput rates are not affected by the use of coal treated with a binder as covered under this construction permit application.		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
Federal: 40 CFR 60 Subpart Y – Standards of Performance for Coal Preparation Plants	
Federal: 40 CFR 60 Subpart A – General Provisions	
State: Rule 62-204.800(8)(b)31 – 40 CFR 60 Subpart Y adopted by reference	
State: Rule 62-204.800(8)(c) - NSPS Controlling Standards	
State: Rule 62-204.800(8)(d) – General Provisions of 40 CFR 60 Subpart A adopted	
State: Rule 62-204.800(8)(e) – Specified appendices of 40 CFR Part 60 adopted	
State: Rule 62-297.401 – Compliance Test Methods	
Local: Jacksonville Environmental Protection Board, Rule 2 – Air Pollution	
Ordinance Code, City of Jacksonville (JOC), Title X, Chapter 376, Odor Control	
Ordinance Code, City of Jacksonville (JOC), Title V, Chapter 362, Air and Water Pollution.	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU028	2. Emission Point Type Code: 4
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Belt Conveyor No. 1 (EU028) Transfer Building No. 1 through Transfer Building No. 6 (EU028c, EU028g, EU028i, EU028q, EU028d and EU028v) Plant Transfer Building (EU028o) Fuel Storage Building vents (EU028h)	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	

5. Discharge Type Code: F	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: 77°F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: Varies feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): See Section III.A.9 for this emissions unit for more information on the emission sources covered by this emissions unit.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment ___1__ of ___5__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Belt Conveyor No. 1 – coal treated with a binder		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons handled	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on handling/usage limits of 2.42 million tons per year coal/petroleum coke included in construction permit PSD-FL-265. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

Segment Description and Rate: Segment ___2__ of ___5__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Transfer Building No. 1 through Transfer Building No. 5 – coal treated with a binder		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons handled	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on handling/usage limits of 2.42 million tons per year coal/petroleum coke included in construction permit PSD-FL-265. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment ___3__ of ___5__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Transfer Building No. 6 – coal treated with a binder		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons handled	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on handling/usage limits of 2.42 million tons per year coal/petroleum coke included in construction permit PSD-FL-265. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

Segment Description and Rate: Segment ___4__ of ___5__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Plant Transfer Building – coal treated with a binder		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons handled	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on handling/usage limits of 2.42 million tons per year coal/petroleum coke included in construction permit PSD-FL-265. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

Segment Description and Rate: Segment ___5__ of ___5__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Fuel Storage Buildings Vents – coal treated with a binder		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons handled	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on handling/usage limits of 2.42 million tons per year coal/petroleum coke included in construction permit PSD-FL-265. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): A discussion of emissions from this emissions unit was included in the PSD permit application for construction permit PSD-FL-265. The emission rates associated with the emission sources making up this emissions unit will not change as a result of the handling of coal treated with a binder as covered under this permit application. Therefore, this section is not completed because it does not pertain to an emissions limited pollutant and the change covered by this permit application does not result in a change in emissions.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___1___ of ___2___

1. Visible Emissions Subtype: V05	2. Basis for Allowable Opacity: [X] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Using EPA Method 9, an initial visible emissions compliance test was conducted to show compliance with the visible emissions limit.	
5. Visible Emissions Comment (limit to 200 characters): The 5 percent opacity limit applies to Belt Conveyor No. 1, Transfer Building No. 1 through Transfer Building No. 6, the Plant Transfer Building and the Fuel Storage Buildings Vents. Visible emission limits along with compliance determination requirements are included in construction permit PSD-FL-265. The VE limit and compliance determination methods are not affected by the handling of coal treated with a binder as covered by this construction permit application.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___2___ of ___2___

1. Visible Emissions Subtype: V20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Using EPA Method 9, an initial visible emissions compliance test was conducted to show compliance with the visible emissions limit.	
5. Visible Emissions Comment (limit to 200 characters): This VE limit is from NSPS Subpart Y and applies to affected facilities when processing coal. The VE limit and compliance determination methods are not affected by the handling of coal treated with a binder as covered by this construction permit application.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters): Not applicable	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID:Attachment A [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental documents were included with the Title V renewal application for this facility which was submitted on June 19, 2003. Because the proposed change covered by this construction permit application will not affect the documents submitted with the Title V renewal application, Waiver Requested is checked for those documents. This is in accordance with the application instructions. Because all applicable Additional Supplemental Requirements for Title V Air Operation Permit Applications were submitted with the June 19, 2003 submittal and will not change as a result of this permit application, Not Applicable is indicated for those items.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Material handling and storage operations consisting of Vessel Hold (EU028a) and the Vessel Unloader and Spillage Conveyor (EU028a).

4. Emissions Unit Identification Number: ID: 028 [ ] No ID [ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A		49	[ ]

9. Emissions Unit Comment: (Limit to 500 Characters) This information section includes emissions unit 28 emission sources that are involved in the handling of coal and that have a 10% opacity limit. These emission sources include the following:

- Vessel Hold (EU028a)
- Vessel Unloader and Spillage Conveyor (EU028a)

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
Based on the requirements of construction permit PSD-FL-265 particulate matter emissions from this emissions unit will be controlled, on an as needed basis, by the use of wet suppression, water spray, coverings, and/or conditioned materials. Particulate matter emissions from this emissions unit are fugitive emissions. The operating scenario covered by this construction permit involves the use of coal that has been treated with a binder. The binder acts as a dust suppressant, as previously determined by FDEP (see attachment A).

2. Control Device or Method Code(s): 061, 062, and 054 as needed

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information: Not applicable		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	2.42 million tons per year coal/pet coke	
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Construction permit PSD-FL-265 limits the annual coal/pet coke combined handling and usage to 2.42 million tons per year. The maximum annual process throughput rates are not affected by the use of coal treated with a binder as covered under this construction permit application.		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
State: Rule 62-297.401 – Compliance Test Methods	
Local: Jacksonville Environmental Protection Board, Rule 2 – Air Pollution	
Ordinance Code, City of Jacksonville (JOC), Title X, Chapter 376, Odor Control	
Ordinance Code, City of Jacksonville (JOC), Title V, Chapter 362, Air and Water Pollution.	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU28a	2. Emission Point Type Code: 4

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
   - Vessel Hold (EU028a) (referred to as Shiphold in construction permit PSD-FL-265) is the hold of the vessel from which the material is being unloaded at the new Northside dock.
   - Vessel Unloader and Spillage Conveyor (EU028a) includes the vessel unloading operations at the new Northside dock.

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:

5. Discharge Type Code: F	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: 77°F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: Varies feet	

13. Emission Point UTM Coordinates:

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters): Fugitive emissions from the vessel hold and the vessel unloader and spillage conveyors are associated with limestone, coal and pet coke unloading operations at the new Northside dock.

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment ___1__ of ___1__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Vessel Hold - Coal treated with a binder Vessel Unloader and Spillage Conveyor – Coal treated with a binder		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons handled	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on handling/usage limit of 2.42 million tons per year coal/pet coke included in construction permit PSD-FL-265. The use of coal treated with a binder as covered under this construction permit application will not affect the annual handling/usage limit. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code

Emissions Unit Information Section ___3b___ of ___5___

Pollutant Detail Information Page _____ of _____

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): A discussion of emissions from this emissions unit was included in the PSD permit application for construction permit PSD-FL-265. The emission rates associated with the emission sources making up this emissions unit will not change as a result of the handling of coal treated with a binder as covered under this permit application. Therefore, this section is not completed because it does not pertain to an emissions limited pollutant and the change covered by this permit application does not result in a change in emissions from this emissions unit.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___1___ of ___1___

1. Visible Emissions Subtype: V10	2. Basis for Allowable Opacity: [ ] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Using EPA Method 9, initial visible emissions compliance testing was conducted to show compliance with the visible emissions limit.	
5. Visible Emissions Comment (limit to 200 characters): The 10 percent opacity limit applies to the Vessel Hold and Vessel Unloader and Spillage Conveyor. The visible emissions limit along with compliance determination requirements are included in construction permit PSD-FL-265 and PSD-FL-265A. The VE limit and compliance determination methods are not affected by the handling of coal treated with a binder as covered by this construction permit application.	

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: [ ] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID:Attachment A [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental documents were included with the Title V renewal application for this facility which was submitted on June 19, 2003. Because the proposed change covered by this construction permit application will not affect the documents submitted with the Title V renewal application, Waiver Requested is checked for those documents. This is in accordance with the application instructions. Because all applicable Additional Supplemental Requirements for Title V Air Operation Permit Applications were submitted with the June 19, 2003 submittal and will not change as a result of this permit application, Not Applicable is indicated for those items.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part – Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
NGS – Crusher Building Baghouse Exhaust (DC01).

4. Emissions Unit Identification Number:
ID: 029
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A		49	[ ]

9. Emissions Unit Comment: (Limit to 500 Characters) This emissions unit consists of crushing operations for coal and petroleum coke.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from the crushers and transfer points in the crusher building are controlled with a single baghouse venting to a single stack.

2. Control Device or Method Code(s): 018

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information: Not applicable		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: 2,420,000 tons per year		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Construction permit number PSD-FL-265 limits the annual coal/petroleum coke handling and usage rate to 2.42 million tons per year. The maximum annual throughput rates are not affected by the use of coal treated with a binder as covered under this construction permit application.		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
Federal: 40 CFR 60 Subpart Y – Standards of Performance for Coal Preparation Plants	
Federal: 40 CFR 60 Subpart A – General Provisions	
State: Rule 62-204.800(8)(b)31 – 40 CFR 60 Subpart Y adopted by reference	
State: Rule 62-204.800(8)(c) - NSPS Controlling Standards	
State: Rule 62-204.800(8)(d) – General Provisions of 40 CFR 60 Subpart A adopted	
State: Rule 62-204.800(8)(e) – Specified appendices of 40 CFR Part 60 adopted	
State: Rule 62-297.401 – Compliance Test Methods	
Local: Jacksonville Environmental Protection Board, Rule 2 – Air Pollution	
Ordinance Code, City of Jacksonville (JOC), Title X, Chapter 376, Odor Control	
Ordinance Code, City of Jacksonville (JOC), Title V, Chapter 362, Air and Water Pollution.	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU029	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code: H	6. Stack Height: 8 (approx) feet	7. Exit Diameter: feet
8. Exit Temperature: 77°F (approx)	9. Actual Volumetric Flow Rate: 24,000 (approx) acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone:	East (km):	North (km):
14. Emission Point Comment (limit to 200 characters): Particulate matter emissions from the crushers and transfer points in the crusher building are controlled with a single baghouse venting to a single exhaust.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment __1__ of __2__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Crushing Operations – Coal treated with a binder		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons processed	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on a handling/usage limit of 2.42 million tons per year coal/pet coke included in construction permit PSD-FL-265. The use of coal treated with a binder as covered under this construction permit application will not affect the annual handling/usage limit. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

Segment Description and Rate: Segment ___2__ of __2__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Crushing Operations – Blend of coal treated with a binder and other permitted solid fuels		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons processed	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on a handling/usage limit of 2.42 million tons per year coal/pet coke included in construction permit PSD-FL-265. The use of coal treated with a binder as covered under this construction permit application will not affect the annual handling/usage limit. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): A discussion of emissions from this emissions unit was included in the PSD permit application for construction permit PSD-FL-265. The emission rates associated with this emissions unit will not change as a result of the handling of coal treated with a binder as covered under this permit application. Therefore, this section is not completed because it does not pertain to an emissions limited pollutant and the change covered by this permit application does not result in a change in emissions from this emissions unit.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___1___ of ___2___

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: [ ] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Using EPA Method 9, a 3-hour initial visible emissions test was conducted and a 30 minute renewal visible emissions test will be conducted once every five years.	
5. Visible Emissions Comment (limit to 200 characters): The visible emissions limit along with compliance determination requirements are included in construction permit PSD-FL-265. The VE limit and compliance determination methods are not affected by the handling of coal treated with a binder as covered by this construction permit application.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___2___ of ___2___

2. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Using EPA Method 9, an initial visible emissions test was conducted.	
5. Visible Emissions Comment (limit to 200 characters): This visible emissions limit is from NSPS Subpart Y. The VE limit and compliance determination methods are not affected by the handling of coal treated with a binder as covered by this construction permit application.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID:Attachment A [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental documents were included with the Title V renewal application for this facility which was submitted on June 19, 2003. Because the proposed change covered by this construction permit application will not affect the documents submitted with the Title V renewal application, Waiver Requested is checked for those documents. This is in accordance with the application instructions. Because all applicable Additional Supplemental Requirements for Title V Air Operation Permit Applications were submitted with the June 19, 2003 submittal and will not change as a result of this permit application, Not Applicable is indicated for those items.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Regulated or Unregulated Emissions Unit? (Check one)

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
NGS – Fuel Silo Dust Collectors.

4. Emissions Unit Identification Number:
ID: 031
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A		49	[ ]

9. Emissions Unit Comment: (Limit to 500 Characters): Emissions Unit No. 031 consists of ten fuel silos and two tripper transfer points. There are five fuel silos and one tripper transfer point associated with each of the two CFB units.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from each set of CFB fuel silos are controlled by a baghouse. Therefore, this emissions unit consists of two baghouses, each venting to it's own stack.

2. Control Device or Method Code(s): 018

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information: Not applicable		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Throughput Rate: 2,42,000 tons per year		
4.	Maximum Production Rate:		
5.	Requested Maximum Operating Schedule:		
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year
6.	Operating Capacity/Schedule Comment (limit to 200 characters): Coal and petroleum coke are fed to the fuel silos from the crusher building. Construction permit PSD-FL-265 limits the annual coal/petroleum coke handling and usage rate to 2.42 million tons per year. The maximum annual throughput rates are not affected by the use of coal treated with a binder as covered under this construction permit application.		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
Federal: 40 CFR 60 Subpart Y – Standards of Performance for Coal Preparation Plants	
Federal: 40 CFR 60 Subpart A – General Provisions	
State: Rule 62-204.800(8)(b)31 – 40 CFR 60 Subpart Y adopted by reference	
State: Rule 62-204.800(8)(c) - NSPS Controlling Standards	
State: Rule 62-204.800(8)(d) – General Provisions of 40 CFR 60 Subpart A adopted	
State: Rule 62-204.800(8)(e) – Specified appendices of 40 CFR Part 60 adopted	
State: Rule 62-297.401 – Compliance Test Methods	
Local: Jacksonville Environmental Protection Board, Rule 2 – Air Pollution	
Ordinance Code, City of Jacksonville (JOC), Title X, Chapter 376, Odor Control	
Ordinance Code, City of Jacksonville (JOC), Title V, Chapter 362, Air and Water Pollution.	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU031	2. Emission Point Type Code: 3

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): The fuel silos dust collector for Unit 1 (DC-03) is located on the tripper floor at the south end of the Unit 1 fuel silos. The fuel silos dust collector for Unit 2 (DC-02) is located in the Plant Transfer Building.

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:

5. Discharge Type Code: H	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: 77°F (approx)	9. Actual Volumetric Flow Rate: 10,000 (DC-03) (approx) 18,000 (DC-02) (approx) acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	

13. Emission Point UTM Coordinates:

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters): Particulate matter emissions from this emissions unit are controlled with two baghouses, each venting to it's own stack.

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment __1__ of __2__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Handling/storage of coal treated with a binder		
3. Source Classification Code (SCC): 30501099	3. SCC Units: Tons processed	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on a handling/usage limit of 2.42 million tons per year coal/pet coke included in construction permit PSD-FL-265. The use of coal treated with a binder as covered under this construction permit application will not affect the annual handling/usage limit. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

Segment Description and Rate: Segment __2__ of __2__

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Handling/storage of coal treated with a binder blended with other permitted solid fuels.		
2. Source Classification Code (SCC): 30501099	3. SCC Units: Tons processed	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on a handling/usage limit of 2.42 million tons per year coal/pet coke included in construction permit PSD-FL-265. The use of coal treated with a binder as covered under this construction permit application will not affect the annual handling/usage limit. This construction permit application only includes segment information affected by the application. The segments identified in this application are in addition to currently permitted segments. All currently permitted segments still apply.		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code

Emissions Unit Information Section ___5___ of ___5___

Pollutant Detail Information Page _____ of _____

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): A discussion of emissions from this emissions unit was included in the PSD permit application for construction permit PSD-FL-265. The emission rates associated with this emissions unit will not change as a result of the handling of coal treated with a binder as covered under this permit application. Therefore, this section is not completed because it does not pertain to an emissions limited pollutant and the change covered by this permit application does not result in a change in emissions from this emissions unit.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___1___ of ___2___

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: [ ] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Using EPA Method 9, a 3-hour initial visible emissions test was conducted at both fuel silo dust collector stacks and a 30 minute renewal visible emissions test will be conducted once every five years.	
5. Visible Emissions Comment (limit to 200 characters): The visible emissions limit along with compliance determination requirements are included in construction permit PSD-FL-265. The VE limit and compliance determination methods are not affected by the handling of coal treated with a binder as covered under this construction permit application.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___2___ of ___2___

2. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Using EPA Method 9, an initial visible emissions test was conducted.	
5. Visible Emissions Comment (limit to 200 characters): This visible emissions limit is from NSPS Subpart Y. The VE limit and compliance determination methods are not affected by the handling of coal treated with a binder as covered under this construction permit application.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID:Attachment A [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental documents were included with the Title V renewal application for this facility which was submitted on June 19, 2003. Because the proposed change covered by this construction permit application will not affect the documents submitted with the Title V renewal application, Waiver Requested is checked for those documents. This is in accordance with the application instructions. Because all applicable Additional Supplemental Requirements for Title V Air Operation Permit Applications were submitted with the June 19, 2003 submittal and will not change as a result of this permit application, Not Applicable is indicated for those items.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

Attachment A

Supplemental Information for Construction Permit Application

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

October 1, 2001

Mr. Jay Worley
SJRPP Group Leader
Jacksonville Electric Authority
11201 New Berlin Road
Jacksonville, Florida 32226

Re: Recognition of Latex Binder as a Dust Suppressant

Dear Mr. Worley,

We have received your request to begin using a new formulation of latex binder (COVOL 298-1, made by DOW Chemical Company) on your coal as a means of suppressing fugitive dust. It is our understanding that this material will be used instead of the latex binder (Latex DL 298NA, made by DOW Chemical Company) that was previously approved on September 20, 2000, and that you will no longer be using, the Latex DL 298NA.

It is our opinion that this particular material is nearly identical to the previously approved Latex DL 298NA and falls within the classification of "chemical dust suppressant" that is authorized by your Title V permit (see Facility-wide condition II.9., and Appendix TV-3, condition 57.). For inspection purposes, please retain on-site a copy of the material safety data sheet (MSDS), a copy of your contract with the coal supplier specifying the material that will be applied to your coal, and a certification from the supplier accompanying each delivery that attests that this is the only material that has been applied to your coal. If the supplier changes the material, you must inform the Department and receive approval prior to combusting the new product.

Under the provisions of Rule 62-297.310(7)(b), F.A.C., if, at any time, the Department has reason to believe that any of your emission limits are not being met (i.e. increased particulate matter, etc.), it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

Should you have any questions regarding this matter, please contact Jonathan Holtom, P.E., at (850) 921-9531, or write to me at the above letter head address.

Sincerely,

C.H. Fancy, P.E.
Chief
Bureau of Air Regulation

cc: Buck Oven, P.E., DEP
James Manning, P.E., RESD

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

September 20, 2000

Mr. Jay Worley
SJRPP Group Leader
Jacksonville Electric Authority
11201 New Berlin Road
Jacksonville, Florida 32226

Re: Recognition of Latex Binder as a Dust Suppressant

Dear Mr. Worley,

We have received your request to begin using a latex binder on your coal as a means of suppressing fugitive dust (Latex DL 298NA, made by DOW Chemical Company). We have also received a certification from your Professional Engineer detailing the lack of detrimental environmental effects resulting from the use of this product.

It is our opinion that this particular material falls within the classification of "chemical dust suppressant" that is authorized by your Title V permit (see Facility-wide condition II.9., and Appendix TV-3, condition 57.). For inspection purposes, please retain on-site a copy of the material safety data sheet (MSDS), a copy of your contract with the coal supplier specifying the material that will be applied to your coal, and a certification from the supplier accompanying each delivery that attests that this is the only material that has been applied to your coal. If the supplier changes the material, you must inform the Department and receive approval prior to combusting the new product.

Under the provisions of Rule 62-297.310(7)(b), F.A.C., if, at any time, the Department has reason to believe that any of your emission limits are not being met (i.e. increased particulate matter, etc.), it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

Should you have any questions regarding this matter, please contact Jonathan Holtom, P.E., at (850) 921-9531, or write to me at the above letter head address.

Sincerely,

C.H. Fancy, P.E.
Chief
Bureau of Air Regulation

cc: Kennard Kosky, P.E., Golder Associates
Buck Oven, P.E., DEP
James Manning, P.E., RESD

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-HOUR EMERGENCY PHONE NUMBER: 989-636-4400

Product: COVOL 298-1

Product Code: 88220

Effective Date: 07/04/01 Date Printed: 07/05/01 MSD: 007085

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary Carboxylated Styrene/Butadiene/ Acrylate/Acetate Polymer		40-62%
Water	CAS# 007732-18-5	38-60%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

****
* Milky white liquid emulsion. Slight odor. Dike and contain spills. *
* Avoid dilution of spills. *
****

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause moderate irritation. May cause slight corneal injury. Vapors or mists may cause eye irritation.

SKIN: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause slight skin irritation. Material may stick to skin causing irritation upon removal. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: No relevant information found.

CANCER INFORMATION: No relevant information found.

(Continued on Page 2)

* or (R) Indicates a Trademark of The Dow Chemical Company

Product Name: COVOL 298-1
Product Code: 88220

Effective Date: 07/04/01 Date Printed: 07/05/01 MSD: 007085

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3. HAZARDS IDENTIFICATION (CONTINUED)

TERATOLOGY (BIRTH DEFECTS): No relevant information found.

REPRODUCTIVE EFFECTS: No relevant information found.

4. FIRST AID

EYE: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:
FLASH POINT: Not applicable.
METHOD USED: Not applicable.
AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABILITY LIMITS:
LFL: Not applicable.
UFL: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to organic compounds, carbon dioxide, carbon monoxide and dense smoke.

OTHER FLAMMABILITY INFORMATION: This material will not burn until the water has evaporated. Residue can burn. Upon burning the product generates dense black smoke.

EXTINGUISHING MEDIA: To extinguish combustible residues of this

(Continued on Page 3)
* or (R) Indicates a Trademark of The Dow Chemical Company

Product Name: COVOL 298-1
Product Code: 68220

Effective Date: 07/06/01 Date Printed: 07/05/01 MSD: 007085

5. FIRE FIGHTING MEASURES (CONTINUED)

product use water fog, carbon dioxide, dry chemical, or foam.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical, or foam.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls/Personal Protection.

PROTECT THE ENVIRONMENT: Contain liquid to prevent contamination of soil, surface water or ground water.

CLEANUP: Recover and recycle spilled latex if possible, otherwise collect with absorbent material and transfer to appropriate containers for disposal. Water may be used for final cleaning of affected area.

7. HANDLING AND STORAGE

HANDLING: Practice reasonable care to avoid repeated, prolonged skin contact.

STORAGE: Store between 40F and 110F. May coagulate if frozen at 32F, 0C. Material may develop bacteria odor on long-term storage. No safety problems known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT

(Continued on Page 4)
* or (R) Indicates a Trademark of The Dow Chemical Company

Product Name: CDVCL 298-1
Product Code: 88220

Effective Date: 07/04/01 Date Printed: 07/05/01 MSD: 007085

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

EYE/FACE PROTECTION: Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face respirator.

SKIN PROTECTION: Wear clean, long-sleeved, body-covering clothing. Use gloves impervious to this material.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

EXPOSURE GUIDELINES: None established.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Milky white liquid emulsion.
ODOR: Slight odor.
VAPOR PRESSURE: 17.5 mmHg @ 20C
VAPOR DENSITY: (air = 1) 0.62
BOILING POINT: 212F, 100C
SOLUBILITY IN WATER: Latex as sold is dilutable. Polymer component is insoluble.
SPECIFIC GRAVITY: Not determined

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions. See storage section.

CONDITIONS TO AVOID: May coagulate if frozen. The dry resin is combustible.

INCOMPATIBILITY WITH OTHER MATERIALS: Addition of chemicals, such as acids or multivalent metal salts, may cause coagulation.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health

(Continued on Page 5)
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Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: The dermal LD50 has not been determined.

INGESTION: Single dose oral LD50 has not been determined.

MUTAGENICITY: No relevant information found.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: No bioconcentration of the polymeric component is expected because of its high molecular weight. Latex dispersions will color water a milky white.

DEGRADATION & PERSISTENCE: The polymeric component is not expected to biodegrade.

ECOTOXICITY: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in most sensitive species).

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL METHOD: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED OR UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted recycler, reclaimer, incinerator or other thermal destruction device.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess

(Continued on Page 6)
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Product Name: COVOL 298-1
Product Code: 88220

Effective Date: 07/04/01 Date Printed: 07/05/01 MSD: 007085

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13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customer Information Center at 800-258-2436 or 989-832-1556 for further details.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): This product is not regulated by D.O.T. when shipped domestically by land.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:

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Product Name: COVOL 298-1
Product Code: 86220

Effective Date: 07/04/01 Date Printed: 07/05/01 MSD: 007085

REGULATORY INFORMATION: (CONTINUED)

This product contains a chemical(s) known to the State of California to cause cancer.

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of

New Jersey
Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD:

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

16. OTHER INFORMATION

MSDS STATUS: Revised Section 2 (added compositional ranges).

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-HOUR EMERGENCY PHONE NUMBER: 517-636-4400

Product: COVOL 298

Product Code: 82953

Effective Date: 01/07/99 Date Printed: 12/14/00 MSD: 005213

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary carboxylated styrene/ butadiene polymer		40-62%
Water	CAS# 007732-18-5	38-60%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

****

* Milky white liquid emulsion. Slight odor. No significant immediate *
* hazards for emergency response are known. Dike and contain spills. *
* Avoid dilution of spills. *

****

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN: Short single[illegible]osure not likely to cause significant skin irritation[illegible] or repeated exposure may cause slight skin[illegible]rial may stick to skin causing irritation [illegible] prolonged exposure is not likely to [illegible]being absorbed through the skin in

[illegible]l toxicity is considered to be [illegible]s anticipated from swallowing [illegible]to normal handling operations.

[illegible] to vapors is not likely to be

Product: COVOL 298
Product Code: 82953

Effective Date: 01/07/99 Date Printed: 12/14/00 MSD: 005213

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3. HAZARDS IDENTIFICATION (CONTINUED)

SYSTEMIC & OTHER EFFECTS: No relevant information found.

CANCER INFORMATION: No relevant information found.

TERATOLOGY (BIRTH DEFECTS): No relevant information found.

REPRODUCTIVE EFFECTS: No relevant information found.

4. FIRST AID

EYES: Flush eyes with plenty of water.

SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:
FLASH POINT: Not applicable
METHOD USED: Not applicable
AUTOIGNITION TEMPERATURE: Not applicable

FLAMMABILITY LIMITS:
LFL: Not applicable
UFL: Not applicable

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to hydrocarbons, carbon monoxide and dense smoke.

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Product: COVOL 298
Product Code: 82953

Effective Date: 01/07/99 Date Printed: 12/14/00 MSD: 005213

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5. FIRE FIGHTING MEASURES (CONTINUED)

OTHER FLAMMABILITY INFORMATION: This material will not burn until the water has evaporated. Residue can burn.

EXTINGUISHING MEDIA: To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Avoid contact with eyes and skin.

PROTECT THE ENVIRONMENT: Contain material to prevent contamination of soil, surface water or ground water.

CLEANUP: Recover and recycle spilled latex if possible, otherwise collect with absorbent material and transfer to appropriate containers for disposal. Water may be used for final cleaning of affected area.

7. HANDLING AND STORAGE

HANDLING: Practice reasonable care to avoid repeated, prolonged skin contact. Addition of chemicals may cause coagulation.

STORAGE: Store at temperatures between 40F and 110F. May coagulate if frozen at 32F, 0C. Material may develop bacteria odor on long-term storage. No safety problems known.

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Product: COVOL 298
Product Code: 82953

Effective Date: 01/07/99 Date Printed: 12/14/00 MSD: 005213

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT
EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: Wear clean, long-sleeved, body-covering clothing. Use gloves impervious to this material.

RESPIRATORY PROTECTION: No respiratory protection should be needed.

EXPOSURE GUIDELINE(S): None established.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Milky white liquid emulsion.
ODOR: Slight odor.
VAPOR PRESSURE: 17.5 mmHg @ 20C
VAPOR DENSITY: 0.624 @ 80F
BOILING POINT: 212F, 100C
SOLUBILITY IN WATER: Latex as sold is dilutable. Polymer component is insoluble.
SPECIFIC GRAVITY: .980 - 1.040

The physical data listed are for a series of latexes. For specific properties on any given latex, see the product bulletin.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions. See storage section.

CONDITIONS TO AVOID: Active ingredient decomposes at elevated temperatures. Product can decompose at elevated temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products depend upon temperature, air supply and the presence

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Product: COVOL 298
Product Code: 82953

Effective Date: 01/07/99 Date Printed: 12/14/00 MSD: 005213

10. STABILITY AND REACTIVITY (CONTINUED)

of other materials.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: The dermal LD50 has not been determined.

INGESTION: The oral LD50 for rats is > 5000mg/kg for similar materials.

MUTAGENICITY: No relevant information found.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: No bioconcentration of the polymeric component is expected because of its high molecular weight. Latex dispersions will color water a milky white.

DEGRADATION & TRANSFORMATION: The polymeric component is not expected to biodegrade.

ECOTOXICOLOGY: Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL METHOD: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT

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DISPOSAL CONSIDERATIONS: (CONTINUED)

PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED OR UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted recycler, reclaimer, incinerator or other thermal destruction device.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customer Information Center at 800-258-2436 or 517-832-1556 for further details.

14. TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

U. S. DEPARTMENT OF TRANSPORTATION (D.O.T.):
This product is not regulated by DOT when shipped domestically by land.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

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Product: COVOL 298
Product Code: 82953

Effective Date: 01/07/99 Date Printed: 12/14/00 MSD: 005213

REGULATORY INFORMATION: (CONTINUED)

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.

16. OTHER INFORMATION

MSDS STATUS: Revised Section 13

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