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**Air Permit Application
for
Stanton Energy Center**

Submitted by

Orlando Utilities Commission

**Prepared by
Black & Veatch**

**February 2007
Project No. 143799**

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1.0 Introduction

The Orlando Utilities Commission (OUC) is planning on implementing a number of changes at the Stanton Energy Center (SEC) to reduce emissions and improve facility operations. Heretofore, these facility changes, as set forth in this application will be referred to as the Project. The Project consists of the following changes at the SEC:

- Addition of Low-NO_x burners and overfire air on Unit 1.
- Unit 2 Low-NO_x burner and overfire air upgrade.
- Addition of forced oxidation systems on the Units 1 and 2 wet flue gas desulfurization (WFGD) systems.
- Unit 1 scrubber upgrade.
- Improvements to ash loadout system.
- Changes to the coal handling operations to allow for the use of solid fuel blends in Unit 1 and 2, which would include the potential use of a pet coke/coal blend and a blend of Powder River Basin (PRB) subbituminous coal with bituminous coal.

This report is a technical support document for the air construction permit application designed to provide a basis for the Florida Department of Environmental Protection's (FDEP) preparation of an air construction permit for the Project.

2.0 Project Characterization

The following sections characterize the Project, including a general description of the location, existing facility, and changes associated with the Project.

2.1 Project Location

The Project is located in Orange County, in the city of Orlando. The facility is located at 5100 South Alafaya Trail, Orlando. The approximate UTM coordinates of the site are 484.00 km East and 3,150.5 km North (Zone 17). The topography of the area is unpronounced and considered relatively flat.

2.2 Facility Description

The facility consists primarily of two fossil fuel fired steam electric generating units, an auxiliary boiler, two combined cycle combustion turbines, and solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities.

2.3 Project Description

The Project involves a number of changes at the SEC designed to reduce emissions from the facility and improve facility operations. The primary focus of the changes is a reduction in nitrogen oxides (NO_x) and sulfur dioxide (SO₂) emissions as part of a strategy to comply with the requirements of the Clean Air Interstate Rule (CAIR) cap-and-trade program. Some of the changes are being undertaken to improve operations at the facility and to provide additional operational flexibility. The following changes are included in this air permit application:

- Addition of Low-NO_x burners and overfire air on Unit 1.
- Unit 2 Low-NO_x burner and overfire air upgrade.
- Addition of forced oxidation systems on the Units 1 and 2 wet flue gas desulfurization (WFGD) systems.
- Unit 1 scrubber upgrade.
- Improvements to the ash loadout system.
- Changes to the coal handling operations to allow for the use of solid fuel blends in Unit 1 and 2, which would include the potential use of a pet coke/coal blend and a blend of PRB subbituminous coal with bituminous coal.

2.3.1 Low-NO_x Burners and Overfire Air

This change involves the installation of a Low NO_x burners and Overfire Air (LNB/OFA) System on SEC Unit 1 and the replacement/modification of the existing LNB/OFA System on SEC Unit 2. The purpose of installing the LNB/OFA System is to lower the level of NO_x emissions from Stanton Energy Center Units 1 and 2 while avoiding adverse effects to the boilers and the unit's performance/reliability.

NO_x, primarily in the form of NO and NO₂ are formed during combustion by two primary mechanisms: thermal NO_x and fuel NO_x. Thermal NO_x results from the dissociation and oxidation of nitrogen in the combustion air. The rate and degree of thermal NO_x formation is dependent upon oxygen availability during the combustion process and is exponentially dependent upon combustion temperature. Fuel NO_x, on the other hand, results from the oxidation of nitrogen organically bound in the fuel. Fuel NO_x is the dominant NO_x producing mechanism in the combustion of pulverized coal, accounting for as much as 75 to 80 percent of total NO_x from a unit without low NO_x burners.

LNB and OFA are two forms of combustion control that have been combined in a single technology to reduce NO_x emissions from pulverized coal fired units. A diagram illustrating the staged combustion of LNBs and OFA is illustrated on Figure 2-1. LNB offered commercially for application to coal-fired boilers control the formation and emission of NO_x through staged combustion. The basic NO_x reduction principles for LNB are to control and balance the fuel and airflow to each burner, and to control the amount and position of secondary air in the burner zone so that fuel devolatilization and high temperature zones are not oxygen rich. In this process, the mixing of the fuel and the air by the burner is controlled in such a way that ignition and initial combustion of the coal takes place under oxygen deficient conditions, while the mixing of a portion of the combustion air is delayed along the length of the flame. The objective of this process is to drive the fuel-bound nitrogen out of the coal as quickly as possible, under conditions where no oxygen is present, and where it will be forced to form molecular nitrogen, rather than be oxidized to NO_x.

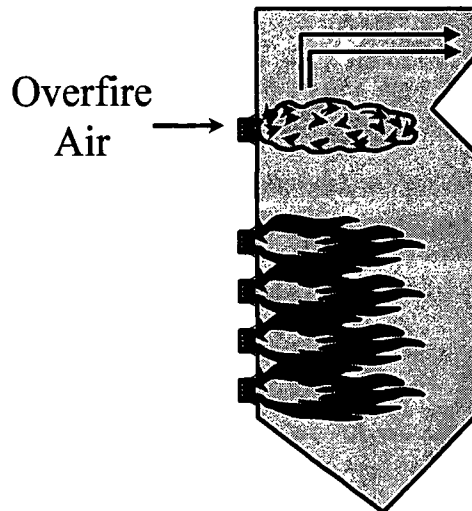


Figure 2-1
Staged Combustion of LNBs and OFA System

The OFA works by reducing the excess air in the burner zone, thereby enhancing the combustion staging effect and further reducing NO_x emissions. Any residual unburned material, such as Carbon Monoxide (CO) and unburned carbon, which inevitably escapes the main burner zone, is subsequently oxidized as the OFA is added.

The net result of the staged combustion associated with LNB is usually lower peak combustion temperatures and longer and/or wider flames, due to the delayed mixing process. The lower combustion temperatures and potential for encroachment on cooled boiler surfaces are also one of the main reasons why low NO_x combustion may be associated with the potential for increased carbon in ash and higher CO emissions. This resulting efficiency loss due to increased carbon in ash and increased CO emission can be somewhat offset by the lower total excess air demand that is part of the low NO_x firing strategy. Additionally, improved stoichiometry control (air and coal flow monitoring) at the burners will improve combustion by better coal and air balance across all of the coal burners and maintaining coal fineness will allow for good coal burnout. Vendors providing the types of LNB/OFA addition and upgrades planned for the SEC Unit 1 and Unit 2, respectively, are in some cases able to guarantee that the unit changes will not result in an increase in CO emissions.

2.3.2 Forced Oxidation Addition to the Unit 1 and Unit 2 WFGD Systems

Both SEC Unit 1 and Unit 2 utilize an existing wet FGD limestone based scrubber to control SO_2 emissions. Each unit's scrubber system includes three (3) 50 percent capacity absorber modules, with two normally in operation and the other designated as a

spare. Both systems currently are operating in a natural oxidation mode, where approximately 75 percent of the scrubber reaction products are calcium sulfate (gypsum) and the remainder is calcium sulfite.

In state-of-the-art FGD systems, gypsum scale is effectively controlled through the use of forced oxidation of the sulfite compounds to sulfate. The higher oxidation rates, usually in excess of 95%, in combination with recycle tank suspended solids concentrations of 12-15 percent, provides for controlled precipitation of the gypsum crystals. This drastically reduces scaling by forcing gypsum crystals to grow upon themselves and not form on absorber internals. In this manner, the scaling and deposit growth on the FGD internals can be significantly reduced resulting in greater reliability of the absorber modules and lower maintenance costs.

In this operating mode, air molecules are injected into the absorber slurry in the reaction tank. The air molecules are absorbed in the scrubbing liquor, and provide ample driving force to convert nearly all liquid phase sulfite to sulfate. Gypsum super saturation is controlled by ensuring adequate gypsum seed crystals are present in the absorber liquor.

It has been determined that the Stanton Unit 1 and Unit 2 existing absorber systems would support the addition of forced oxidation. There is adequate depth in the recycle tanks to inject air at the proper depth (~ 22 feet below liquid level) without affecting recycle pump performance. Air injection will be accomplished by installing a fixed grid sparging system in each recycle tank.

The following information is based on preliminary design of the forced oxidation systems. The oxidation air system will consist of centrifugal air blowers with air piped to each reaction tank and distributed inside the tanks with air spargers. Each unit will have a dedicated 100 percent capacity oxidation air blower. The units will share a spare 100 percent capacity blower. The oxidation air will be saturated with service water. The forced oxidation system will consist of the following:

- Three 100 percent capacity centrifugal air blowers
- Air piping and valves
- Reaction tank air spargers
- Saturation water piping
- Foundations
- Blower building

- Electrical
- Controls

None of the above equipment is a source of air emissions. The purpose of the forced oxidation systems is to improve scrubber reliability and reduce scrubber module maintenance. Note that both unit's existing scrubber system includes a spare module that is used when scrubber module maintenance is required.

The use of a forced oxidation system will result in increased formation of calcium sulfate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) and less formation of calcium sulfite ($\text{CaSO}_3 \cdot \frac{1}{2}\text{H}_2\text{O}$) as a scrubber byproduct. It is estimated that in the existing natural oxidation WFGD systems approximately 75 percent of the SO_2 reaction product is $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$, while in a forced oxidation system approximately 98 percent of the SO_2 reaction product is expected to be $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$, with the remainder in both cases being $\text{CaSO}_3 \cdot \frac{1}{2}\text{H}_2\text{O}$. With a constant coal sulfur content, due to the higher molecular weight of the $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ byproduct, one could expect an approximately 7.4 percent increase in the quantity of scrubber byproduct produced on a dry solids basis. However, because calcium sulfate is easier to dewater, the use of a forced oxidation system allows for production of a higher percent solids scrubber byproduct. Therefore, with the same fuel sulfur content, there is expected to be no increase in total scrubber byproduct production.

2.3.3 Unit 1 Scrubber Upgrade

Phase 1 of the Scrubber Upgrade Project involves installation of a dibasic acid (DBA) chemical feed system and forced oxidation system to improve scrubber performance. Installation of the DBA chemical feed system was covered under an air permit application dated September 1, 2006. The addition of a forced oxidation system is covered under this application (see Section 2.2.2). Phase 2 of the Scrubber Upgrade involves installation of a new distribution tray in conjunction with spray header modifications on the Unit 1 absorber modules. This modification is expected to reduce the operating costs of the Unit 1 FGD system and improve its reliability. In addition, the modifications will provide flexibility to meet possible future SO_2 reduction requirements and will increase flexibility in coal selection.

The existing FGD System consists of three (3) 50% capacity absorber modules, with normal operation consisting of two (2) operating absorber modules with one (1) module designated as a spare. The absorber chemistry is limestone based, operating in natural oxidation mode. Four recycle pumps per module are provided, with three used for normal operation and the fourth acting as an installed spare. Based on 2004 CEM

data, the Unit 1 absorbers are removing an average of 82.4% of SO₂ with the inlet ranging from 7,500 to 8,500 lb/hr SO₂.

To increase reliability and flexibility of the Unit 1 FGD System, OUC commissioned a study to evaluate improvements in SO₂ removal capability of the FGD system for Unit 1. This study was performed by Black & Veatch with assistance from Wheelabrator Air Pollution Control Company (WAPC). WAPC is a major supplier of wet FGD systems. The goals for this study were to identify the most cost effective means to improve SO₂ removal performance, mitigate process problems, improve reliability, and reduce operating costs. Based on this study, OUC plans the following modifications.

Distribution Trays: Based on the existing absorber modules, the study indicated that the FGD system performance can be significantly improved with the addition of a perforated distribution tray in conjunction with spray header modifications. The use of distribution trays have commonly been used by the industry over the last 15 years in the design of new scrubber systems and have been used as a retrofit option to improve performance of existing FGD systems. The distribution trays provide intimate contact between the gas and liquid phases and the resulting increased mass transfer surface area improves the amount of SO₂ absorbed in the scrubbers.

Based on review of the absorber arrangement, removal of the bottom internal spray header would be required to allow the distribution trays to have adequate space between the flue gas inlet and the "new" first recycle spray level. The spray header elevations for the three higher levels will remain in place and use existing support steel. The bottom header that has been replaced by the distribution tray will be relocated higher in the module. This modification will require new absorber penetrations and possible internal support modifications.

As an alternative to distribution trays, addition of a 5th spray level and an increase in recycle pump capacity is also being considered which would also increase the liquid-to-gas (L/G) ratio and provide significant improvement in SO₂ control performance. This modification would need to be studied in more depth to verify the structural integrity of the scrubbers. This 5th spray level would have some space restrictions and would probably only be used as a spare except at higher SO₂ loadings due to the potential for erosion of the adjacent lower header.

Increase L/G. In addition to the perforated tray, a modified nozzle arrangement with more modern nozzles can be used to maximize spray coverage via a modified spray

nozzle arrangement. Current industry practice for recycle spray nozzles are to use silicon carbide material, with a hollow cone spray pattern that have a large free passage, usually greater than 2 inches. This modification may allow the existing pumps to produce higher flow rates (thus increasing the L/G) without changing the current pump operating speeds. Additional modifications such as replacing existing piping with larger piping or modifying the pumps will also be considered during detailed design.

ID Fan Modifications. The addition of a distribution tray to each absorber module will cause the absorber pressure drop to increase, which will require additional fan static pressure. If additional air quality control system (AQCS) components are to be installed, ID fan modifications would probably be needed to increase the pressure capacity to offset the increased component pressure drops. The switch to high speed operation would provide significant additional ID fan pressure capacity, estimated at approximately 18 inches water column of additional static pressure capability. The modifications needed would be determined during detailed design.

OUC plans to leave the final details of the design modifications open until further site investigations are performed and detailed data can be obtained from equipment manufacturers.

The addition of distribution trays and/or upgrading the existing spray headers will increase the mass transfer capability of the existing scrubber modules. Preliminary modeling by the FGD system supplier indicated that SO₂ removal efficiencies of 85 to 94 percent could be expected with two absorber operation. With the planned addition of dibasic acid, removal rates near 95 percent could be expected with coal sulfur levels up to 4 lb SO₂ /MMBtu.

Ultimately the purpose and primary result of the Unit 1 scrubber upgrade is to improve the removal efficiency of the scrubber and the Unit 1 scrubber upgrade will not include the addition of any new emission units at the facility. The only expected affect of the Unit 1 scrubber upgrade on facility air emissions would involve a decrease in Unit 1 SO₂ emissions and possibly slight increases in limestone material handling emissions resulting from slightly higher limestone usage associated with improved SO₂ removal.

2.3.4 Improvements to Ash Loadout System

Stanton Energy Center ("Plant" or "Station") currently has two fly ash (ash) load-out silos; Silo No. 1 and Silo No. 2 receive ash pneumatically from Unit 2 and Unit 1, respectively. Each silo is equipped with an individual load-out spout that allows the ash to drop from the silo to a truck for delivery to the landfill or for beneficial use, depending

on the ash quality. Each silo is also equipped with an individual baghouse.

The proposed improvements to this current arrangement may be best described as three phased construction activities that will ultimately allow maximum flexibility to mix ashes from on and off site to produce an increased amount of marketable pozzolan grade ash for use in concrete (see the Process Flow Diagram or "PFD" in Attachment B of this application). The three phases of construction are:

1. Installation of common piping between existing Silos No. 1 and No. 2 that will allow mixing of ashes from those silos during load-out to trucks. A truck scale will also be installed under these silos during this phase of construction (see Silos No. 1 and No. 2 and truck scale in System 1 of the PFD).

2. Installation of a rail unloading system that will allow rail cars to import ash to the Plant (see System 2 in the PFD). This operation will consist of a bucket elevator that will unload incoming railed ash to a new 2000 ton Silo No. 4 (equipped with an individual baghouse) which will store ash prior to conveying to one of two silos in the truck load-out area (Silo No. 1 or new Silo No. 3 of System 1 in PFD).

3. Installation of a new 250 ton Silo No. 3 equipped with its own baghouse that will be located adjacent to Silo No. 1. This silo will accept imported ash from the rail unloading system. Silo No. 3 will also accept imported ash from pneumatic trucks via a single truck port hook-up. Ash from Silo No. 3 can be loaded out to trucks directly through the same common load-out spout used for Silo Nos. 1 and 2.

The major pieces of new equipment required to accomplish these improvements are:

- 450 tons per hour bucket elevator,
- Five air slides,
- 2000 ton Silo No. 4 with baghouse at rail unloading,
- 250 ton Silo No.3 with baghouse at truck load-out,
- Pneumatic transfer equipment with pressure pod,
- Various blowers, compressors, and piping.

Existing Silo Nos. 1 and 2 will continue to receive ash generated by the Plant, each receiving approximately 100,000 tons per year. These two silos will combine their individual load-out spouts into a single common spout. The common spout will be an extendable double walled, hatch fitted spout that blows vented air from the trucks back to Silo No. 1. Appropriate conveyance piping, air slides, vent piping, valving, etc. will be installed to accomplish combining the load-out spouts. In addition, a truck scale will be installed under the common spout.

Railcar imported ash (see System 2 in PFD) will be received at the railcar unloading facility located on the Plant site approximately 500 feet south southwest from the truck scale. Ash will gravity unload from covered hopper bottom dump railcars to an air slide (see attached PFD). The air slide / railcar connection is fitted with an airtight boot. The air slide operates up to a maximum 450 tons per hour ("TPH"). Ash will be moved by the air slide to a load-in bucket elevator (450 TPH) and raised to a second air slide. The air slide will load the pozzolan (ash) into a 2,000 ton silo (new Silo No. 4).

The pozzolan is removed from Silo 4 by gravity load-out to a pressure pod which will pneumatically convey the ash to either the new 250 ton Silo No.3 or existing Silo No. 1, depending on valve settings, at a rate of 50 TPH. This transfer is anticipated to operate for 8-10 hours per day and transfer about 100,000 tons per year. Silo No. 3 essentially serves as a surge silo for imported ashes that will normally be used in mixing with plant ashes to augment their quality. Silo No. 3 can also accept ash pneumatically from trucks equipped with blowers; this transfer rate will be approximately 25 tons per hour. Silo No. 3 will load-out through the same common spout as Silo Nos. 1 and 2, directly above the truck scale. As much as 30,000 tons of ash may be imported by truck.

Mixing of ash is accomplished by loading ash from Silo Nos. 1, 2, and 3 at separate intervals; the mixing actually occurs in the truck, not in the pipe. Intervals of a silo's unloading are dictated by desired ash mixing ratios and are tracked by tonnages monitored on the truck scale. The instantaneous load-out rate is expected to be 250 TPH but will be very discontinuous because of the mixing method described.

Silo 3 emissions will be the result of pneumatic load-in of 130,000 tons per year (average) of imported ash. Silo 4 emissions will be the result of pneumatic load-in of 100,000 tons per year (average) of imported ash. Controlled PM and PM₁₀ emission factors for cement supplement unloading to elevated storage silo (pneumatic) from AP-42 Section 11.12, *Concrete Batching*, Table 11.12-2 are used to estimate emissions from the

new silos. These emission factors are 0.0089 lbs/ton for PM and 0.0049 lbs/ton for PM₁₀. Using these emission factors and an estimated load-in of 130,000 tons per year, estimated emissions for silo 3 are 0.58 tpy and 0.32 tpy for PM and PM₁₀, respectively. Similarly, with an estimated load-in of 100,000 tons per year for Silo 4, estimated emissions from Silo 4 are 0.45 tpy and 0.25 tpy of PM and PM₁₀, respectively. Silo No. 1 emissions will increase slightly because of the additional emissions from load-out to trucks from Silo Nos. 2 and 3, due to all three silos sharing a common load-out spout; this is certainly a relatively small emissions increase and may be considered insignificant. Emissions associated with the additional loadout of the 130,000 tons per year of imported ash can be conservatively estimated using an emissions factor of one tenth of that of pneumatic transfer. As such, additional emissions associated with loadout of the imported ash are estimated at 0.06 tpy and 0.03 tpy of PM and PM₁₀, respectively. The existing baghouse on Silo No. 2 will have emissions reduced by the amount of emissions caused by load-out to trucks since such emissions will now be vented to Silo 1.

These improvements are proposed to allow the blending of Plant ashes with imported ashes in order to produce larger quantities of high quality marketable pozzolan grade fly ash (a non-cementitious additive to concrete that partially replaces cement and improves concrete durability and workability) and reduce quantities of Plant fly ash going to landfill.

Currently the Plant produces a coal fly ash that is either marginally marketable or non-marketable for use as an ASTM approved pozzolan in concrete. Unit 1 usually meets pozzolan specs required by the concrete industry; Unit 2 rarely meets such specifications. Each Unit produces about 100,000 tons per year. Non-marketable ash must be landfilled. This landfilling is viewed as a negative value activity for this material and has a net negative impact on the environment.

Importation and mixing of a high quality pozzolan ash with the on-site ashes will allow for the production of a blended ash product that will result in more and higher quality marketable pozzolan ash for use in concrete. This resulting blended marketable ash will have a net beneficial environmental effect. The overall beneficial environmental effects result from:

- avoided greenhouse gas generation by offset cement production;
- conserved landfill space;

- avoided mining and transportation activity (resources preservation) resulting from offset cement production;
- improved concrete products from use of quality pozzolan (primarily improved durability);
- avoided particulate and hazardous air pollutant emissions from offset cement production.

2.3.5 Coal Handling Modifications

This application covers installation of additional coal conveying equipment at Stanton Energy Center (Stanton) to allow blending of fuels for Units 1 and 2 and to allow blending of petroleum coke (Petcoke) and Powder River Basin (PRB) sub-bituminous coal with bituminous coals. These additions will be coordinated with coal yard modifications associated with the Stanton Unit B addition.

The function of the coal storage, stockout and reclaim additions is to allow blending of fuels for Stanton Units 1 and 2 including PRB and Petcoke. Coal blending is desired to allow Stanton to comply with regulatory requirements regarding air emissions while also producing cost effective energy. The modifications and use of PRB and Petcoke will provide flexibility to meet future emission reduction plans and will increase flexibility in fuel selection.

A General Arrangement drawing (S1001AB) and preliminary Flow Diagram (S2000AB) of the proposed Coal Blending Additions are included in Attachment B. The Coal Blending Additions include the following major components:

- A new Stacker/Reclaimer (S/R) 304 and Conveyor 306 located north of and parallel to the existing S/R.
- Transfer Point 302A including hopper east of existing Transfer Building 49.
- Conveyor 301 from Transfer Point 305 to new Transfer Point 302A.
- Conveyor 400A from Transfer Point 305 to Stanton Unit B Coal Crusher Building 404.
- Expansion of the coal storage area north of the existing S/R 13 and west of the Stanton B coal yard system.

To increase flexibility of Unit 1 & 2 fuel selection and comply with future air emissions requirements, OUC commissioned a study to evaluate alternate fuel and air quality control strategies for Stanton Units 1 & 2. This study was performed by Black & Veatch. The goals for this study were to identify cost effective fuels and air quality control modifications to comply with air emissions requirements including CAIR and

CAMR. Based on this study, OUC seeks the flexibility to burn a wider range of fuels and addition of the modifications described below.

New Conveyor 300B will transmit coal from the Coal Receiving System to Transfer Point 305 then to Conveyor 306 and to new S/R 304. S/R 304 then will convey the coal to active coal storage areas on either side of Conveyor 306 at rates up to 3500 tons per hour. In this way two or more coals can be stocked out and stored for future reclaiming and blending with coal reclaimed by existing S/R 13.

Coal blending will be accomplished by reclaiming different coals with existing S/R 13 and new S/R 304 and discharging the two coals onto Conveyors 6A and/or 6B that convey coal to Units 1 and 2 coal silos.

The coal storage area will be expanded to the north and west within the area originally intended for coal storage when Stanton Unit 1 was certified. This area drains to the existing Coal Runoff Pond.

In addition to new S/R 304, new Conveyor 301 and Transfer Point 302A will be added to convey coal from S/R 304 and Conveyor 306 to Conveyors 6A and 6B at rates between 225 and 1800 tons per hour. A new surge hopper with belt feeder will be located in Transfer Point 302A to permit more accurate control of coal flow onto Conveyors 6A and 6B than can be provided by S/R 304 in reclaim mode.

The discharge chutework of existing Conveyor 3 will also be modified to provide surge capacity and add a belt feeder to more accurately control coal flow to Conveyors 6A and 6B from existing S/R 13. Blending is accomplished on Conveyors 6A and 6B by varying the coal discharge rate from Conveyor 3 and the Surge Hopper at Transfer Point 302A.

New Conveyor 400A will also be added to convey Powder River Basin coal reclaimed by S/R 304 from Transfer Point 305 to Stanton Unit B Coal Crusher Building 404 for burning in Stanton Unit B. This will provide greater reliability of PRB fuel supply to Stanton Unit B by providing a second coal flow path to Stanton Unit B.

S/R 304 will include wet suppression equipment to limit fugitive dust. A baghouse type dust collector will be provided at Transfer Point 302A.

Control of the Coal Blending Additions will be through the modified Coal Handling Control System located in Transfer Building 49.

Due to varying heat contents, the annual coal consumption for Stanton Units 1 and 2 may be slightly affected depending on which blends are used. The use of Petcoke will reduce the total tons of coal required while PRB will increase the total tons. For instance, if 25 per cent PRB is blended with bituminous coal typically used in the past at Stanton Units 1 and 2, the coal used would increase about 8 per cent. If 25 per cent Petcoke is blended with bituminous coal typically used in the past at Stanton Units 1 and 2, the coal used would decrease about 4 per cent. A blend of 25 percent Petcoke with 75 percent PRB would increase coal tonnage by about 22 per cent.

A new stacker/reclaimer will be included in the coal handling modifications. The existing stacker/reclaimer will also remain in use. As previously indicated, S/R 304 will simply provide greater flexibility in coal handling and allow for the blending of different types of coals. The addition of this stacker/reclaimer will not increase the total quantity of coal handled by a stacker/reclaimer at the facility. As such, there is no increase in PM/PM₁₀ emissions associated with the addition of the new stacker/reclaimer, as the Unit 1 and Unit 2 coal handled by the new stacker/reclaimer would have been handled by the existing stacker/reclaimer if the modifications weren't made. Also, since the pet coke blend that will become possible with the new coal handling system has a greater heating value than the typical coal that has been used at the facility, there will be no increase in solid fuel throughput associated with the use of a pet coke blend. As such, in general there will be no emission increases from existing material handling emission points as a result of the use of a petcoke blend.

However, with the blending option there may be some reduction in the quantity of coal that is sent directly to the unit coal silos from the coal receiving area. As such, the blending option may increase the quantity of coal that is processed through a stacker/reclaimer. An estimate of the additional coal that may be handled through the stacker/reclaimer is 25 percent of total coal handling. Using the lowest projected blend heating value of 11,043 Btu/lb and the heat input level for Unit 1 and Unit 2 of 4,286 mmBtu/hr given in the facility Title V permit, it can be conservatively assumed that 850,000 tons of coal will be sent to a stacker/reclaimer under the blending option that may have been sent directly to the unit coal silos from coal receiving without the blending option. For this type of operation, emissions may be estimated using the emission factor equation for drop operations found in USEPA AP-42 Section 13.2.4, Aggregate Handling and Storage Piles. This equation uses the site mean wind speed and the material moisture content to develop an emissions factor for PM and PM₁₀. The following is the AP-42 equation and the resulting PM and PM₁₀ emission factors.

$$E = k(0.0032)(U/5)^{1.3}/(M/2)^{1.4}$$

Where :

E = emission factor

k = particle size multiplier = 0.74 for PM and 0.35 for PM₁₀,

U = mean wind speed = 7.5 mph for Orlando

M = material moisture content = 5.15% for petcoke blend

Using this equation, the PM emission factor for stockout and reclaim is 0.00107 lb/ton for PM and 0.00050 lb/ton for PM₁₀. Use of these emission factors and considering the possible additional stockout and reclaim of 850,000 tons of coal due to blending, it is estimated that a possible additional 0.45 tpy PM and 0.21 tpy PM₁₀ may result from both stockout and reclaim of the additional solid fuel. Based on these calculations, the additional emissions associated with solid fuel not being sent directly to the unit coal silos from receiving under the blending option are estimated as 0.90 tpy PM and 0.42 tpy PM₁₀. These estimates are conservative in that the calculations do not account for wet suppression measures that may be used to reduce emissions from coal handling. Also, these estimates are conservative in that the coal throughput estimate is based on the use of a lower heating value PRB blend while the emission factor is based on the lower moisture petcoke blend. Further, if use of the generic PRB were assumed, the throughput would increase by about 25 percent, but due to the high moisture content of PRB coal, the calculated emission factor would be about 10 percent of that used above.

The changes in the coal handling operations include the use of three new conveyors and three new transfer buildings (302A, 302B, and 305). Each of the new transfer buildings will include baghouse controls to limit emissions of PM/PM₁₀. Emissions from the material handling baghouse dust collectors at the Stanton facility have historically been characterized by use of an emission factor of 0.00031 lb/ton material handling. This emission factor is found in AP-42 Section 11.6 and is for secondary limestone screening and crushing with fabric filter. The emissions from the three new transfer building baghouse dust collectors associated with this application are estimated using this same emission factor. Note that the controlled conveyor transfer point for crushed stone found in AP-42 Section 11.19 gives a lower emission factor than the 0.00031 lb/ton emission factor used here. To estimate emissions from the transfer buildings, annual coal throughput rates must be estimated. As a conservative estimate of coal throughput, the Unit 1 and Unit 2 boiler heat input rates in conjunction with the expected minimum fuel heating value can be used to estimate the potential transfer buildings coal throughputs. The lowest heating value associated with the typical coals being considered for Stanton Unit 1 and Unit 2 is approximately 8,824 Btu/lb, which is with the generic PRB coal. Using the heat input level for Unit 1 and Unit 2 of 4,286 mmBtu/hr listed in the facility's Title V permit, the coal throughput rate for each unit can conservatively be calculated assuming year-round operation. This calculation gives a theoretical annual coal use rate of 2,130,000 tons per year per unit.

Two of the new transfer buildings (302B and 305) are associated with the transfer of coal in and out of the new stacker/reclaimer area. Since the existing stacker/reclaimer will also remain in use, it can be assumed that half of the coal processed for Unit 1 and Unit 2 will be transferred through these two new transfer buildings and the other half of the Unit 1 and Unit 2 coal needs will be handled via the existing stacker/reclaimer system. However, each of these two transfer buildings could potentially handle the coal going both to and from the stacker/reclaimer. As such, on a conservative basis, the two new coal transfer buildings could potentially handle 4,260,000 tons of coal per year (double the per unit theoretical annual coal use rate). The third new transfer building (302A) will be located between the stacker/reclaimer area and the coal silos. This transfer building is also where any coal blending would occur. This transfer building is equipped with a baghouse and will handle all of the coal going to either Unit 1 or Unit 2, but the coal will only pass through this transfer building once. Therefore, this new transfer building could potentially handle 4,260,000 tons per year of coal. Using an emissions factor of 0.00031 lb/ton, as used in the facility AOR reporting, each new transfer building would involve possible PM/PM₁₀ emissions of 0.66 tpy from Unit 1 and Unit 2 coal handling. The sum increase of PM/PM₁₀ emissions from the three new coal handling transfer buildings is 1.98 tpy.

Additionally, the existing coal receiving system and the existing primary coal transfer structure will be upgraded to improve operations. For these systems, there will be no changes in the types of emission controls used and the changes will not result in a change in the coal throughputs. Therefore, these changes are not expected to change emissions from these systems.

There is also an increase of approximately 328,500 square feet (7.5 acres) in the coal pile area associated with the new coal handling operations. PM and PM₁₀ emissions associated with this additional coal storage area are calculated using uncontrolled emission factors for active storage piles included in AP-42 Section 8.19 as revised 9/91 along with a control efficiency of 70 percent associated with water suppression, as needed. The referenced emission factors are 13.2 lb/acre/day and 6.3 lb/acre/day for PM and PM₁₀, respectively. Applying these emission factors and a 70 percent control efficiency to the new coal storage area results in estimated annual emissions of 5.42 tpy PM and 2.59 tpy PM₁₀.

2.3.6 Use of PRB and Alternative Coal/Solid Fuel Blends in Units 1 and 2

As part of the Project, OUC is requesting to be permitted for the use of PRB coal and alternative coal/solid fuel blends in Unit 1 and Unit 2. The possible blends include a petcoke blend consisting of use of up to 25 percent petcoke blended with coal and a PRB blend consisting of use of PRB subbituminous coal blended with a bituminous coal or

petcoke. All other coals considered for blend possibilities are bituminous coals that are already covered under the existing Stanton permit.

As part of the review of the possible use of coal blends for Stanton Units 1 and 2, calibration coal parameters were established. The calibration coal is the typical or baseline coal, which is used as a reference condition for comparison with alternate coals or coal blend options. The qualifications for the baseline coal include the following:

The calibration coal data for the units was developed by looking at the proportions of coal delivered to the plant during a set number of days, acquiring detailed representative fuel quality data from the suppliers, and by weighting this data to arrive at a mass-average composite set of coal quality data. This data was then checked to confirm that it was in-line with the short proximate analyses which corresponded to the coal deliveries, and the heating value, moisture, ash, and sulfur were checked and balanced for consistency. The calibration coal quality data for Stanton Units 1 and 2, along with an average of the two is shown in Table 2-1. Another source of data regarding the typical properties of the coal used in SEC Unit 1 and Unit 2 is the annual operating reports (AORs) for the facility. Table 2-2 shows the coal heating value, sulfur content and ash content for Unit 1 and Unit 2 for calendar years 2001 through 2005.

	Unit 1	Unit 2	Average
Proximate Analysis (as-received basis)			
Higher Heating Value, Btu/lbm	12,534	12,349	12,442
Moisture, percent	5.58	6.03	5.81
Ash, percent	10.48	10.77	10.63
Volatile Matter, percent	33.36	33.10	33.23
Fixed Carbon, percent	50.58	50.10	50.34
Ultimate Analysis (as-received basis)			
Carbon, percent	71.91	71.17	71.54
Hydrogen, percent	4.69	4.58	4.64
Nitrogen, percent	1.52	1.51	1.52
Sulfur, percent	1.16	1.23	1.20
Ash, percent	10.48	10.77	10.63
Moisture, percent	5.58	6.03	5.81
Chlorine, percent		0.11	0.11
Oxygen, percent	4.56	4.60	4.58

Year	Unit 1			Unit 2		
	Heating Value (mmBtu/ton)	Sulfur Content (%)	Ash Content (%)	Heating Value (mmBtu/ton)	Sulfur Content (%)	Ash Content (%)
2001	25	1.17	9.53	25	1.22	9.65
2002	25	1.14	9.21	25	1.12	9.21
2003	25	1.05	9.21	25	1.14	9.21
2004	25	1.17	8.87	25	1.17	8.87
2005	25	1.25	9.59	25	1.24	9.59
Average	25	1.16	9.28	25	1.18	9.31

Table 2-3 shows the typical analyses for types of coals and coal blends being considered for the Stanton facility. Note that while petcoke is not coal, for the purposes of this discussion, the petcoke/coal blend is referred to as one of the coal blends.

Table 2-3
Typical Coals Envisioned for Possible Use in Stanton Units 1 and 2

	Average Calibration Coal	East. KY (low S, High Btu)	Illinois Basin (Pattiki)	North. App/ Columbian 50/50 Blend	Generic 8800 PRB	Pattiki/ Generic PRB 75/25 Blend	East. KY/ Petcoke 75/25 Blend
Proximate Analysis (as-received basis)							
Higher Heating Value, Btu/lbm	12,442	13,695	11,782	12,278	8,824	11,043	13,846
Moisture, percent	5.81	4.93	10.61	7.01	27.11	14.74	5.15
Ash, percent	10.63	5.15	7.98	9.56	4.89	7.21	3.95
Volatile Matter, percent	33.23	36.96	36.14		32.44		
Fixed Carbon, percent	50.34	52.96	45.27		35.56		
Ultimate Analysis (as-received basis)							
Carbon, percent	71.54	74.26	65.15	68.68	51.41	61.72	76.62
Hydrogen, percent	4.64	5.04	4.51	4.92	3.57	4.27	4.66
Nitrogen, percent	1.52	1.49	1.28	1.33	0.68	1.13	1.62
Sulfur, percent	1.20	0.71	2.72	1.51	0.27	2.11	1.63
Chlorine, percent	0.11	0.14	0.18	0.08	0.01	0.14	0.11
Oxygen, percent	4.58	8.42	7.57	6.98	12.05	8.69	6.27

Note that the facility is permitted to fire coal, so the only fuel options shown in Table 2-3 that are not covered by the facility as it is currently permitted is the petcoke blend. In condition III.A.2 of the facility Title V permit, coal as given as an allowable fuel for Unit 1 and Unit 2, but in the facility description section of the permit it indicates bituminous coal is the primary fuel for Unit 1 and Unit 2. The terms coal, bituminous coal, and solid fuel are used in other areas of the facility permit. As shown in Table 2-3, the PRB coal has a lower sulfur content and ash content than the coal historically fired in Unit 1 and Unit 2, and as such, regardless of the current permitted status of firing PRB in these units, the use of PRB coal would be expected to result in no increases in air emissions. The use of a petcoke blend and a PRB coal are the focus of the discussion on emission changes that may be seen from Unit 1 and Unit 2 due to the use of the alternative fuels. As seen in Table 2-3, the parameters associated with the a petcoke or PRB blend is comparable to the parameters associated with bituminous coal and as such, the use of these blends is expected to have no affect on the Unit 1 and Unit 2 emissions as compared to the emissions associated with firing bituminous coals. Also, since the PRB coal has a lower ash and sulfur content, as compared to the bituminous coals, it is expected that the use of PRB coal would have a beneficial affect in regards to air emissions. Table 2-4 below was

taken from the FDEP Technical Evaluation and Final Determination document associated with a recent permit revision allowing increased co-firing of petcoke at the St. Johns River Power Park facility in Jacksonville. This table, which FDEP took from a United Kingdom cement plant application, shows a general comparison of coal with petcoke. As seen from this table the level of both lead (Pb) and mercury (Hg) in the petcoke is shown to be lower than their respective levels in coal. As such, the use of petcoke is expected to result in no increases in Pb or Hg emissions.

Chemical Names	Units	Coal	Petcoke	Increase or Decrease
Heat Content	CV-MJ/kg	25.5	31.41	Increase
Carbon	% Carbon	73.4	85	Increase
Chlorine	Cl %	0.03	NA	Decrease
Copper	Cu (ppm)	12	3	Decrease
Lead	Pb	16	5	Decrease
Zinc	Zn	NA	17	Increase
Cadmium	Cd	10	0.04	Decrease
Chromium	Cr	8	5	Decrease
Thallium	Th	10	0.05	Decrease
Arsenic	As	7	1	Decrease
Mercury	Hg	10	NA	Decrease
Antimony	Sb	3	1	Decrease
Cobalt	Co	2	3	Increase
Manganese	Mn	71	NA	Decrease
Nickel	N	6	252	Increase
Tin	Sn	10	1	Decrease
Vanadium	V	4	150	Increase
Sulfur	S%	1.4	5.0	Increase

3.0 NSR/PSD Applicability

3.1 New Source Review

The federal Clean Air Act (CAA) New Source Review (NSR) provisions are implemented for new major stationary sources and major modifications under two programs: the Prevention of Significant Deterioration (PSD) program outlined in 40 Code of Federal Regulations (CFR) 51 and 52.21, and the Nonattainment NSR program outlined in 40 CFR 51 and 52. The proposed facility is in an attainment or unclassifiable area with respect to all pollutants. As such, the PSD program, as administered by the state of Florida under 62-212.400, F.A.C., Stationary Sources – Preconstruction Review, Prevention of Significant Deterioration will be the regulations of concern for the SEC facility.

3.2 Prevention of Significant Deterioration

The PSD regulations are designed to ensure that the air quality in existing attainment areas does not significantly deteriorate or exceed the ambient air quality standards (AAQS), while providing a margin for future industrial and commercial growth. PSD regulations apply to major stationary sources and major modifications at existing major sources undergoing construction in areas designated as attainment or unclassifiable.

A major stationary source is defined as any one of the listed major source categories which emits, or has the potential to emit, 100 tpy or more of any regulated pollutant, or 250 tpy or more of any regulated pollutant if the facility is not one of the listed major source categories. The SEC is one of the 28 listed major source categories, and has potential emissions greater than 100 tpy for at least one PSD pollutant. As such, it is considered an existing major source for PSD. Changes at an existing PSD major source are considered a major modification and are subject to PSD permitting if the changes result in an emissions increase or a net emissions increase greater than the PSD significant emission rates (SERs). The PSD SERs for pollutants that are typically of concern for an electric utility facility are shown in Table 3-1. PSD applicability is determined on a pollutant-by-pollutant basis, where the emissions increase of each pollutant is compared to their respective SER to determine PSD applicability.

Table 3-1 PSD SERs	
Pollutant	SERs (tons/year)
NO _x	40
SO ₂	40
CO	100
VOC	40
PM	25
PM ₁₀	15
SAM	7
Pb	0.6
Hg	0.1

3.3 Project Emission Changes

In general, a project's emissions increase is determined as the difference between its baseline actual emissions and its potential to emit or its future projected actual emissions. Most of the emissions from the facility are a result of fuel combustion in the boilers. Table 3-2 shows the Unit 1 and Unit 2 emissions for the most recent five calendar years as found on the Acid Rain data base for NO_x and SO₂ and as reported in the facility annual operating report (AOR) for the other pollutants. For the Unit 1 and Unit 2 boiler emissions, the emissions change is equal to the difference between the projected actual emissions following the project and the baseline actual emissions for the units prior to the project. As part of this comparison any emissions that could have been accommodated by the emission units prior to the project and do not result because of the project are considered excludable emissions and are not considered in the project emissions increase calculation. Because SEC Unit 1 and Unit 2 are base load units before and after the project, there will be no increase in the unit demand due to the project. Essentially, these units are the first units in the OUC system used to meet electrical demand, and implementation of this Project does not change that. Therefore any increase in unit use over time would be due to an increase in natural demand growth and as such any emission increases associated with increased operation are excludable emissions and are not included in the emissions increase calculation. Also, the project will not result in an increase in the Unit 1 or Unit 2 short-term heat input rate. Therefore, the only way that there would be an annual emissions increase from Unit 1 or Unit 2 as a result of the project is if there is an increase in the short-term (lb/hr or lb/mmBtu) emissions rate from

the Units. The following is a discussion of the expected affect of the project on facility emissions.

Table 3-2 Historical Emissions						
Unit 1						
Year	NO _x	SO ₂	CO	PM	PM ₁₀	VOC
2001	7,459.6	6,660.6	388.3	135.1	30.0	43.5
2002	6,493.6	5,320.6	412.8	43.2	27.2	44.8
2003	6,375.2	4,832.8	412.5	47.4	30.3	45.0
2004	5,860.0	4,273.6	394.7	39.5	39.5	43.8
2005	7,532.8	6,058.9	326.9	66.6	64.2	49.4
Unit 2						
Year	NO _x	SO ₂	CO	PM	PM ₁₀	VOC
2001	2,826.3	3,268.4	382.6	66.9	42.4	44.4
2002	2,348.9	2,358.7	370.8	101.5	63.8	42.8
2003	2,519.6	2,305.2	358.5	95.1	64.3	40.8
2004	2,566.0	2,500.6	398.9	112.8	111.1	44.1
2005	2,692.0	2,778.9	385.2	78.1	77.7	44.3
Unit 1 and Unit 2 Combined						
Year	NO _x	SO ₂	CO	PM	PM ₁₀	VOC
2001	10,285.9	9,929.0	770.8	202.0	72.5	87.9
2002	8,842.5	7,679.3	783.7	144.7	91.0	87.6
2003	8,894.8	7,138.0	771.0	142.6	94.7	85.8
2004	8,426.0	6,774.2	793.6	152.3	150.7	87.9
2005	10,224.8	8,837.8	712.0	144.7	142.0	93.8
2004-2005 annual Average	9,325.4	7,806.0	752.8	148.5	146.4	90.9

3.3.1 NO_x and SO₂

Since the primary purpose of the proposed changes at the facility is to provide better NO_x and SO₂ control for Unit 1 and Unit 2, there are expected to be no increase in either NO_x or SO₂ emissions and in reality there is expected to be reductions in emission of these pollutants. As part of this application, OUC is requesting that the Unit 1 and Unit 2 combined NO_x emissions limit included in the Stanton B permit be incorporated into the permit covering the facility changes in this application. The referenced Stanton B permit condition states that combined NO_x emissions from Unit 1 and Unit 2 shall not exceed 8,300 tons per year on a 12-month rolling total beginning the first month of first fire of Unit B.

With a future NO_x limit of 8,300 tons per year for Unit 1 and Unit 2 combined, future NO_x emissions will clearly be less than the baseline NO_x emissions for these units. In reality, the NO_x emissions from these units will likely be much lower than this permitted level, as facility NO_x emissions will be minimized as part of a CAIR compliance strategy.

Similarly, as some of the changes included with this application involve improving scrubber performance, the SO₂ emissions following completion of the project will be less than the baseline level emissions. While coal variability can result in variability in SO₂ emissions, as part of an overall CAIR compliance strategy, SO₂ emissions following completion of the project will be less than the baseline SO₂ emission levels. As such, the changes are not considered a PSD major modification for either NO_x or SO₂.

3.3.2 CO Emission changes

While an increase in CO emissions is commonly linked to the addition of LNB, in some cases vendors are now willing to guarantee that the addition or upgrade of a LNB/OFA system will not result in an increase in CO emissions. While the Unit 2 permit includes a CO permit limit of 0.15 lb/mmBtu, the permit does not require use of a CO CEMS to track CO emissions. The only CO test report available for Unit 2 was the initial performance test done in 1996 and this test showed a CO emissions rate of approximately 0.13 lb/mmBtu. However, reporting of CO emissions from Units 1 and 2 has historically been based on the appropriate AP-42 emission factor. This emission factor is on a lb/ton basis and its use results in a relatively low estimated CO emissions rate. While it is dependent on the coal heating value, using the AP-42 emission factor of 0.5 lb/ton with a 12,500 Btu/lb coal results in an estimated CO emission rate of 0.02 lb/mmBtu. Comparing this estimated emission rate of 0.02 lb/mmBtu with typical new PC unit CO BACT levels of approximately 0.15 lb/mmBtu gives an indication of the relative low estimates obtained when using AP-42 emission factors.

Because the reported emissions based on AP-42 emission factors from these units may be in question and there is limited additional data on CO emissions from these units, it is proposed that the emission changes associated with the LNB/OFA project be quantified before and after the installation of the LNB/OFA systems to demonstrate that the increase in the CO lb/mmBtu emission levels, if any, will not result in an increase in CO emissions greater than 100 tpy (the PSD SER for CO). If during performance testing, it is found that the vendor is not able to maintain CO emissions at the pre-project levels, OUC will submit to FDEP a request for a PSD permit modification for CO which will include a BACT analysis for CO and a modeling analysis to demonstrate that the increase

in CO will not exceed the appropriate Class II modeling thresholds. None of the other changes associated with this permit application are expected to impact CO emissions at the facility.

3.3.3 PM/PM₁₀ Emission changes

The pet coke blend and the PRB coal, as shown in Table 2-4 have significantly lower ash contents than the existing coal. As such, there is no expected increase in PM/PM₁₀ from Unit 1 or Unit 2 resulting from the use of these blends.

The only other sources of PM/PM₁₀ emissions associated with the proposed changes covered under this application are relating to material handling operations. As discussed in Section 2.3.5, the utilization of the new stacker/reclaimer will result in the use of three new transfer buildings that will be sources of PM/PM₁₀ emissions. Using an emission factor of 0.00031 lb/ton material handled, and a conservative estimated annual coal throughput of 4,260,000 tons per year gives estimated PM/PM₁₀ emissions of 0.66 tpy for each transfer building and 1.98 tpy for all three new transfer buildings combined.

An expansion of the SEC coal pile associated with the addition of a new stacker/reclaimer will be a source of PM/PM₁₀ emissions. As discussed in Section 2.3.5, emissions associated with the increased coal pile size amount to 5.42 and 2.59 tpy of PM and PM₁₀, respectively. Note that the addition of the new stacker/reclaimer itself doesn't result in an increase in PM/PM₁₀ emissions, as regardless of whether coal is handled with the new stacker/reclaimer or the existing stacker/reclaimer the same amount of coal will be handled by a stacker/reclaimer. So, any emissions associated with handling of coal with the new stacker/reclaimer are equal in the reduction of emissions from the existing stacker/reclaimer because that coal was not handled with the existing stacker/reclaimer. However, the use of the blending option may result in solid fuel that otherwise may have been sent directly to the unit coal silos from receiving, being processed through the stacker/reclaimer. As discussed in Section 2.3.5, the additional PM and PM₁₀ resulting from this possible increase in solid fuel handled by a stacker/reclaimer is estimated as 0.90 tpy PM and 0.42 tpy PM₁₀.

Due to the installation of two new ash storage silos and bringing ash in from other sites as part of the improvements to the ash loadout system, there will be a slight increase in PM/PM₁₀ emissions from additional ash handling. As discussed in Section 2.3.4, an estimate of the increased emissions from the new flyash silos associated with the flyash blending operation are 1.09 tpy PM and 0.60 tpy PM₁₀. In summary, the total estimated emission increases associated with the material handling changes put forth in this application are 9.39 and 5.59 tpy of PM and PM₁₀, respectively. Comparing these emission increases to the PSD major modification SER thresholds of 25 and 15 tpy for PM and PM₁₀, respectively, shows that the projects increase in PM and PM₁₀ are less than significant and the project is not subject to PSD for PM or PM₁₀.

3.3.4 Pb and Hg Emission changes

Based on the co-benefit associated with the existing Stanton Unit 1 and Unit 2 emission controls, the current Hg emission levels are expected to be relatively low. The petcoke blend would be expected to have a lower fuel Hg level and because the blend would have a similar level of chlorine (Cl), a co-benefit Hg control efficiency similar to what is achieved using the current fuel are expected. In summary, the use of petcoke would not result in an increase in fuel Hg content and any improvement to other pollutant emission controls should provide a co-benefit in regards to mercury control. As such, it is expected that there will be no increase in mercury emissions.

As indicated in the discussion on PM/PM₁₀ emissions, the petcoke blend is expected to have considerably lower ash levels than the typical coal used at the Stanton facility. Also, as was shown in Table 2-4, the Pb content of pet coke is also expected to be lower than the lead content of coal. As such there should be no increase in Pb emissions associated with the use of the petcoke blend.

3.3.5 Sulfuric Acid Mist

As with SO₂, sulfuric acid mist (SAM) is a byproduct of sulfur in the fuel. SAM can be directly correlated to SO₂ emissions. As discussed above, as part of a CAIR compliance strategy, OUC is committed to maintaining SO₂ emissions below the baseline emission levels. This in turn will show that emissions of SAM are not increasing as a result of use of the blends.

3.4 Summary

This analysis shows that the facility changes included in this permit application will not result in a significant emissions increase of PSD pollutants, and as such, PSD permitting is not required for this project.

4.0 New Source Performance Standard Applicability

The Project boilers would only be affected by New Source Performance Standard (NSPS) applicability if the changes are considered a modification or reconstruction under NSPS definitions. NSPS Subpart Da is applicable to each electric utility steam generating unit for which construction or modification is commenced after September 18, 1978. Both SEC Unit 1 and Unit 2 were installed after this NSPS effective date, so each unit is currently subject to Subpart Da. However, Subpart Da was recently revised with changes to the PM, NO_x and SO₂ standards and the addition of a mercury standard. The revised PM, NO_x, and SO₂ standards apply to any affected facility for which construction, reconstruction, or modification is commenced after February 28, 2005. The new mercury standards apply to any affected facility for which construction, modification, or reconstruction commenced after January 30, 2004.

Because the Project does not constitute a new unit, NSPS applicability will be dependent on whether the Project is considered a modification or reconstruction of Unit 1 or Unit 2. The NSPS definition of reconstruction is found at 40 Code of Federal Regulations (CFR) 60.15. In summary, a change is considered reconstruction if the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable new unit. The cost of the Project does not exceed 50 percent of the cost to build a new unit and, as such, the Project does not constitute reconstruction under the NSPS definition.

The NSPS definition of modification is found at 40 CFR 60.2 and CFR 60.14. Under this definition, any physical or operational change that results in an increase in the emission rate to which a standard applies is considered a modification. For NSPS purposes, the emission rate is expressed in kg/hr of any pollutant discharged into the atmosphere for which a standard is applicable. Therefore, unlike the definition of modification in the current NSR/PSD regulations, the NSPS definition is based on hourly emissions rather than annual emissions. The NSPS definition of modification specifically indicates that no physical change, or change in the method of operation, at an existing electric utility steam generating unit shall be treated as a modification provided that such change does not increase the maximum emissions of any pollutant regulated under the NSPS above the maximum hourly emissions achievable at that unit during the 5 years prior to the change. Further, the NSPS definition of modification specifies that use of an alternative fuel or raw material if the existing facility was designed to accommodate that alternative use is not considered a modification. No changes to the affected facility (the boiler) are required to allow for use of the petcoke blend. Also, the addition or use of any system or device whose primary function is the reduction of air pollutants is not

considered a modification. Because the changes associated with the Project that would affect Unit 1 or Unit 2 involve either use of an alternative fuel or use of a system or device whose primary purpose is the reduction of air pollutants, the Project changes are not considered a NSPS modification.

Portions of the new coal handling operations will be subject to NSPS Subpart Y, *Standards of Performance for Coal Preparation Plants*. Subpart Y is applicable to coal processing and conveying equipment and coal storage systems (except for open storage piles). Coal processing and conveying equipment means any machinery used to reduce the size of coal or to separate coal from refuse, and the equipment used to convey coal to or remove coal and refuse from the machinery. This includes, but is not limited to, breakers, crushers, screens and conveyor belts. Coal storage system means any facility used to store coal except for open storage piles. Any coal processing and conveying or coal storage system subject to Subpart Y will be subject to a 20 percent opacity standard.



Department of Environmental Protection

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Division of Air Resource Management FEB 05 2007

APPLICATION FOR AIR PERMIT - LONG FORM BUREAU OF AIR REGULATION

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

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

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) – Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: Orlando Utilities Commission	
2. Site Name: Stanton Energy Center	
3. Facility Identification Number: 0950137	
4. Facility Location... Street Address or Other Locator: 5100 South Alafaya Trail City: Orlando County: Orange Zip: Code: 32831	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Application Contact Name: Denise Stalls, Vice President Environmental Affairs	
2. Application Contact Mailing Address... Organization/Firm: Orlando Utilities Commission Street Address: P.O. Box 3193 City: Orlando State: FL Zip Code: 32802	
3. Application Contact Telephone Numbers... Telephone: (407) 737 - 4236 ext. Fax: (407) 384 - 4020	
4. Application Contact Email Address: dstalls@ouc.com	

Application Processing Information (DEP Use)

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

APPLICATION INFORMATION

Purpose of Application

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

Air Construction Permit

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

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

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
1	Fossil Fuel Steam Generation Unit No. 1	ACM1	
2	Pulverized Coal Fired Unit No. 2 (460 MW Gross)	ACM1	
	Coal Transfer Building No. 302B	AC1F	
	Coal Transfer Building No. 305	AC1F	
	Coal Transfer Building No. 302A	AC1F	

Application Processing Fee

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

Owner/Authorized Representative Statement

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

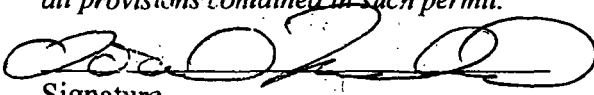
1. Owner/Authorized Representative Name : Denise M Stalls, VP, Environmental Affairs
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Orlando Utilities Commission Street Address: P.O. Box 3193 City: Orlando State: FL Zip Code: 32802
3. Owner/Authorized Representative Telephone Numbers... Telephone: (407)737-4236 ext. Fax: (407) 384-4062
4. Owner/Authorized Representative Email Address: <u>dstalls@ouc.com</u>
5. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.</i> <u>Denise M Stalls</u> Signature Date <u>1/26/07</u>

Application Responsible Official Certification

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

1. Application Responsible Official Name:			
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):			
<input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.			
<input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively.			
<input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.			
<input type="checkbox"/> The designated representative at an Acid Rain source.			
3. Application Responsible Official Mailing Address...			
Organization/Firm:			
Street Address:			
City:	State:	Zip Code:	
4. Application Responsible Official Telephone Numbers...			
Telephone: () - ext. Fax: () -			
5. Application Responsible Official Email Address:			
6. Application Responsible Official Certification:			
<i>I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.</i>			
_____ Signature		_____ Date	

Professional Engineer Certification

1. Professional Engineer Name: Larry Todd Newland Registration Number: 64188
2. Professional Engineer Mailing Address... Organization/Firm: Black & Veatch Street Address: 11000 Regency Parkway, Suite 100 City: Cary State: NC Zip Code: 27518
3. Professional Engineer Telephone Numbers... Telephone: (919) - 462-7415 ext. Fax: (919) - 468-9212
4. Professional Engineer Email Address: newlandlt@bv.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/>, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i> Signature  Date 01-26-2007 (seal) <

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 483.5 North (km) 3150.6		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 28° 29' 1" N Longitude (DD/MM/SS) 81° 10' 7" W	
3. Governmental Facility Code: 4	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4911

Facility Contact

1. Facility Contact Name: Denise Stalls, Vice President Environmental Affairs
2. Facility Contact Mailing Address... Organization/Firm: Orlando Utilities Commission Street Address: P.O. BOX 3193 <div style="display: flex; justify-content: space-between; margin-top: 10px;"> City: Orlando State: FL Zip Code: 32802 </div>
3. Facility Contact Telephone Numbers: Telephone: (407)423 -9100 ext. 4381+ Fax: (407)384-4020
4. Facility Contact Email Address: dstalls@ouc.com

Facility Primary Responsible Official

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

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: <div style="display: flex; justify-content: space-between; margin-top: 10px;"> City: State: Zip Code: </div>
3. Facility Primary Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -
4. Facility Primary Responsible Official Email Address:

FACILITY INFORMATION

Facility Regulatory Classifications

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

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

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
SO2	A	N
CO	A	N
NOX	A	Y
PM	A	N
VOC	A	N
PM10	A	N
PB	A	N

FACILITY INFORMATION

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
NOX	N	1 and 2		8,300	ESCPSD
<p>7. Facility-Wide or Multi-Unit Emissions Cap Comment: The above emissions cap was accepted as part of the permitting of Stanton B. The cap effectively allowed Stanton B to net out of PSD applicability for NOx. This cap becomes effective on the first month of first fire of Unit B.</p>					

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

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

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. D</u>
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. E</u>
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.): <input type="checkbox"/> Attached, Document ID: <u>Attach. F</u> <input type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: <u>Attach. G</u> <input type="checkbox"/> Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

FACILITY INFORMATION

Additional Requirements for FESOP Applications

1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)
--

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities (Required for initial/renewal applications only): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (revision application)

2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan (Required for all initial/revision/renewal applications): <input type="checkbox"/> Attached, Document ID: _____ Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
--

4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input type="checkbox"/> Not Applicable

5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only) : <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
--

6. Requested Changes to Current Title V Air Operation Permit: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
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Additional Requirements Comment

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EMISSIONS UNIT INFORMATION

Section [1] of [7]

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [1] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

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 have 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. Description of Emissions Unit Addressed in this Section:

Fossil Fuel Steam Generating Unit #1

3. Emissions Unit Identification Number: 1

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 01-JULY-85	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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9. Package Unit:

Manufacturer:

Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [1] of [7]

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Gas Scrubber for SO2 control

Electrostatic Precipitator – High Efficiency

2. Control Device or Method Code(s): 013, 010

EMISSIONS UNIT INFORMATION

Section [1] of [7]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 4286 MMBtu/hr
2. Maximum Production Rate: 465 MW
3. Maximum Heat Input Rate: 4286 million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8760 hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [1] of [7]

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram:		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:		6. Stack Height: 550 Feet	7. Exit Diameter: 19 Feet
8. Exit Temperature: 127 °F		9. Actual Volumetric Flow Rate: 1,420,000 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): 483.05 North (km): 3150.06		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) 28° 28' 43" N Longitude (DD/MM/SS) 81° 10' 30" W	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [1] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate:** Segment 1 of 5

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100202		3. SCC Units: Tons Bituminous Coal Burned
4. Maximum Hourly Rate: 159	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 3.5	8. Maximum % Ash: 10	9. Million Btu per SCC Unit: 26
10. Segment Comment:		

Segment Description and Rate: Segment 2 of 5

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100401		3. SCC Units: 1000 Gallons Residual Oil (No. 6) Burned
4. Maximum Hourly Rate: 27.6	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 2.5	8. Maximum % Ash: 0.1	9. Million Btu per SCC Unit: 150
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [1] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)**Segment Description and Rate:** Segment 3 of 5

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100701		3. SCC Units: Million Cubic Feet Process Gas Burned
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:		

Segment Description and Rate: Segment 4 of 5

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10101302		3. SCC Units: 1000 Gallons Waste Oil Burned
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: On-site generated lubricating oil and used fuel oil which meets the requirements of 40 CFR 266.40.		

EMISSIONS UNIT INFORMATION

Section [1] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 5 of 5

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100202		3. SCC Units: Tons Petcoke Blend Burned
4. Maximum Hourly Rate: 155	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 3.5	8. Maximum % Ash: 10	9. Million Btu per SCC Unit: 27.7
10. Segment Comment: Segment covers a blend of 25 percent petcoke and 75 percent bituminous coal. Maximum hourly rate based on expected typical heat input and will vary based on fuel heat content.		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [1] of [7]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	013		EL
CO			NS
NOX			EL
PM	010		EL
VOC			NS
PM10	010		EL
PB	010		NS

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 95.4 lb/hour 418 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.6 lb/ton burned Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (159 tpy) x (0.6 lb/ton) = 95.4 lb/hr (159 tpy) x (0.6 lb/ton) x (8760 hr/yr) x (ton/2000 lb) = 418 tpy			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
(Optional for unregulated emissions units.)**

1. Pollutant Emitted: NOX – Nitrogen Oxides		2. Total Percent Efficiency of Control: 60	
3. Potential Emissions: 2482 lb/hour 8635 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.6 lb/mmBtu (30 day rolling average) 0.46 lb/mmBtu (annual average)		7. Emissions Method Code: 0	
Reference: Existing permit limit			
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (4286 mmBtu/hr) x (0.6 lb/mmBtu) = 2572 lb/hr (4286 mmBtu/hr) x (0.46 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 8635 tpy			
11. Potential, Fugitive, and Actual Emissions Comment: As given in Section II.B and discussed in the permit support document for this permit application, a NOx emissions cap of 8,300 tons per year for Unit 1 and Unit 2 combined will become effective on the first month of first fire of Stanton Unit B.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.6 lb/mmBtu (30 day rolling average)	4. Equivalent Allowable Emissions: 2572 lb/hour 11264 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.46 lb/mmBtu (annual average)	4. Equivalent Allowable Emissions: lb/hour 8635 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
(Optional for unregulated emissions units.)**

1. Pollutant Emitted: PB – Lead - Total (elemental lead and lead compounds)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.07 lb/hour 0.29 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 4.2E-04 lb/ton Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (159 tpy) x (4.2E-04 lb/ton) = 0.07 lb/hr (159 tpy) x (4.2E-04 lb/ton) x (8760 hr/yr) x (ton/2000 lb) = 0.29 tpy			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
(Optional for unregulated emissions units.)**

1. Pollutant Emitted: PM – Particulate Matter - Total		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 128.6 lb/hour 563 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.03 lb/mmBtu Reference: Existing permit limit		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (4286 mmBtu/hr) x (0.03 lb/mmBtu) = 128.6 lb/hr (4286 mmBtu/hr) x (0.03 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 563 tpy			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.03 lb/mmBtu heat input	4. Equivalent Allowable Emissions: 128.6 lb/hour 563 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

1. Pollutant Emitted: PM10 – Particulate Matter - PM10		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 128.6 lb/hour 563 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.03 lb/mmBtu Reference: Existing permit limit for PM		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment: Assume same as PM			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

1. Pollutant Emitted: SO ₂ – Sulfur Dioxide		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 4886 lb/hour 21401 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 1.14 lb/mmBtu Reference: Existing permit limit		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: $(4286 \text{ mmBtu/hr}) \times (1.14 \text{ lb/mmBtu}) = 4886 \text{ lb/hr}$ $(4286 \text{ mmBtu/hr}) \times (1.14 \text{ lb/mmBtu}) \times (8760 \text{ hr/yr}) \times (\text{ton}/2000 \text{ lb}) = 21401 \text{ tpy}$			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 1.14 lb/mmBtu heat input	4. Equivalent Allowable Emissions: 4886 lb/hour 21401 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

1. Pollutant Emitted: VOC – Volatile Organic Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 15.9 lb/hour 69.67 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.1 Reference:		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [1] of [7]

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 12

1. Parameter Code: VE	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: LEAR SIEGLER Model Number: RM4200 Serial Number: 16301511	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 2 of 12

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: INFRARED INDUST Model Number: 760 Serial Number: S/N 3091	
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)**Complete if this emissions unit is or would be subject to continuous monitoring.****Continuous Monitoring System:** Continuous Monitor 3 of 12

1. Parameter Code: 02	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: SERVOMEX LTD. Model Number: 1400 Serial Number: 1420/701/81	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 4 of 12

1. Parameter Code: EM – EMISSION	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: MONITOR LABS Model Number: 9850 Serial Number: S/N 1002	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 5 of 12

1. Parameter Code: CO2	2. Pollutant(s): SO2
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: MONITOR LABS Model Number: 9820 Serial Number: S/N 447	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 6 of 12

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: FUJ Model Number: 760 Serial Number: S/N 3091	
5. Installation Date: 01-MAY-87	6. Performance Specification Test Date: 25-FEB-93
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 7 of 12

1. Parameter Code: VE	2. Pollutant(s): PM
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: LEAR SIEGLER Model Number: RM4200 Serial Number: 16301511	
5. Installation Date: 01-MAY-87	6. Performance Specification Test Date: 01-MAR-88
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 8 of 12

1. Parameter Code: FLOW	2. Pollutant(s): NOX
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: EMRC-DP7 Model Number: CM60 Serial Number: S/N 0461	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 9 of 12

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: LEAR SIEGLER Model Number: SM8100 Serial Number: 1161103V	
5. Installation Date: 01-MAY-87	6. Performance Specification Test Date: 25-FEB-93
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 10 of 12

1. Parameter Code: VE – Visible emissions (opacity)	2. Pollutant(s): VE
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: LIER SIEGLER Model Number: RM4200 Serial Number: 16301511	
5. Installation Date: 01-MAY-87	6. Performance Specification Test Date: 29-MAR-89
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 11 of 12

1. Parameter Code: VE – Visible emissions (opacity)	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 12 of 12

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: MONITOR LABS Model Number: 9841 Serial Number: S/N 863	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [7]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. H</u> <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. I</u> <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. J</u> <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [1] of [7]

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

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EMISSIONS UNIT INFORMATION

Section [2] of [7]

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSION UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [2] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

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 have 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. Description of Emissions Unit Addressed in this Section:
Pulverized Coal Fired Unit No. 2 (460 MW gross)

3. Emissions Unit Identification Number:

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 29-MAR-96	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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9. Package Unit:
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [2] of [7]

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Fabric Filter – High Temperature (T>250F)

SCR (Selective Catalytic Reduction)

Gas Scrubber for SO2 control

2. Control Device or Method Code(s): 016, 139, 013

EMISSIONS UNIT INFORMATION

Section [2] of [7]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 4286 mmBtu/hr
2. Maximum Production Rate: 465 MW
3. Maximum Heat Input Rate: 4286 million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8760 hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [2] of [7]

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram:		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:		6. Stack Height: 550 Feet	7. Exit Diameter: 19 Feet
8. Exit Temperature: 124 °F		9. Actual Volumetric Flow Rate: 1310120 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): 484 North (km): 3150.5		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) 28° 28' 57" N Longitude (DD/MM/SS) 81° 9' 54" W	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [2] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate:** Segment 1 of 4

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100202		3. SCC Units: Tons Bituminous Coal Burned
4. Maximum Hourly Rate: 159	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 3.5	8. Maximum % Ash: 10	9. Million Btu per SCC Unit: 26
10. Segment Comment:		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100401		3. SCC Units: 1000 Gallons Residual Oil (No. 6) Burned
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 2	8. Maximum % Ash:	9. Million Btu per SCC Unit: 154
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [2] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100701		3. SCC Units: Million Cubic Feet Process Gas Burned
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:		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10101302		3. SCC Units: 1000 Gallons Waste Oil Burned
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: Used oil specification: Arsenic 5 PPM, Cadmium 2 PPM, Chromium 10 PPM, Lead 100 PPM, Total Halogens 1000 PPM, PCB 50 ppm.		

EMISSIONS UNIT INFORMATION

Section [2] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 5 of 5

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100202		3. SCC Units: Tons Petcoke Blend Burned
4. Maximum Hourly Rate: 155	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 3.5	8. Maximum % Ash: 10	9. Million Btu per SCC Unit: 27.7
10. Segment Comment: Segment covers a blend of 25 percent petcoke and 75 percent bituminous coal. Maximum hourly rate based on expected typical heat input and will vary based on fuel heat content.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [2] of [7]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO			EL
NOX	139		EL
PB			EL
PM	016		EL
PM 10	016		NS
SO2	001		EL
VOC			EL

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO-Carbon Monoxide		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 642.9 lb/hour 2815.9 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.15 lb/mmBtu Reference: Existing permit limit		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (4286 mmBtu/hr) x (0.15 lb/mmBtu) = 642.9 lb/hr (4286 mmBtu/hr) x (0.15 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 2815.9 tpy			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.15 lb/mmBtu	4. Equivalent Allowable Emissions: 642.9 lb/hour 2815.9tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Aloowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NOX – Nitrogen Oxides		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 728.6 lb/hour 3191.4 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.17 lb/mmBtu (30 day rolling average) Reference: Existing permit limit		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (4286 mmBtu/hr) x (0.17 lb/mmBtu) = 728.6 lb/hr (4286 mmBtu/hr) x (0.17 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 3191.4 tpy			
11. Potential, Fugitive, and Actual Emissions Comment: NOx Allowables are based on a 30 day rolling average. As give in Section II.B and discussed in the application support document for this permit application, a NOx emissions cap of 8,300 tons per year for Unit 1 and Unit 2 combined will become effective on the first month of first fire of Station B.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.17 lb/mmBtu Heat Input	4. Equivalent Allowable Emissions: 728.6 lb/hour 3191.4 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PB – Lead - Total (elemental lead and lead compounds)	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.64 lb/hour 2.8 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 1.5×10^{-4} lb/mmBtu Reference: Existing permit limit	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions: $(4286 \text{ mmBtu/hr}) \times (1.5 \times 10^{-4} \text{ lb/mmBtu}) = 0.64 \text{ lb/hr}$ $(4286 \text{ mmBtu/hr}) \times (1.5 \times 10^{-4} \text{ lb/mmBtu}) \times (8760 \text{ hr/yr}) \times (\text{ton}/2000 \text{ lb}) = 2.8 \text{ tpy}$	
11. Potential, Fugitive, and Actual Emissions Comment:	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 1.5 x 10 ⁻⁴ lb/mmBtu	4. Equivalent Allowable Emissions: 0.64 lb/hour 2.8 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM – Particulate Matter - Total		2. Total Percent Efficiency of Control: 99.4	
3. Potential Emissions: 85.7 lb/hour 375.5 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.02 lb/mmBtu Reference: Existing permit limit		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (4286 mmBtu/hr) x (0.02 lb/mmBtu) = 85.7 lb/hr (4286 mmBtu/hr) x (0.02 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 375.5 tpy			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.02 lb/mmBtu Heat Input	4. Equivalent Allowable Emissions: 85.7 lb/hour 375.5 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10 – Particulate Matter - PM10		2. Total Percent Efficiency of Control: 99.4	
3. Potential Emissions: 85.72 lb/hour 375.45 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment: Assumes PM10 emissions are the same as PM.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO ₂		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 3643 lb/hour 4693 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.85 lb/mmBtu (3 hour average) 0.25 lb/mmBtu (30 day rolling average)		7. Emissions Method Code: 0	
Reference: Existing permit limit			
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (4286 mmBtu/hr) x (0.85 lb/mmBtu) = 3643 lb/hr (4286 mmBtu/hr) x (0.25 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 4693 tpy			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 3

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.85 lb/mmBtu (3 hour)	4. Equivalent Allowable Emissions: 3643 lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions 2 of 3

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.67 lb/mmBtu (24 hour)	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.25 lb/mmBtu (30 day rolling average)	4. Equivalent Allowable Emissions: lb/hour 4693 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: VOC – Volatile Organic Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 64.29 lb/hour 281.59 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.015 lb/mmBtu Reference: Existing permit limit		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (4286 mmBtu/hr) x (0.015 lb/mmBtu) = 64.29 lb/hr (4286 mmBtu/hr) x (0.015 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 281.59 tpy			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.015 lb/mmBtu Heat Input	4. Equivalent Allowable Emissions: 64.29 lb/hour 281.59 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions value is an existing permit limit.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [2] of [7]

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: VE may not exceed 20% opacity under normal operation except for one 6-minute period per hour of not more than 27% opacity.	

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 6

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Monitor Labs Model Number: 9850 Serial Number: 593/1665	
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 2 of 6

1. Parameter Code: EM - EMISSION	2. Pollutant(s): NOX
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Monitor Labs Model Number: 9841AS Serial Number: S/N 56/1650	
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)**Complete if this emissions unit is or would be subject to continuous monitoring.****Continuous Monitoring System:** Continuous Monitor 3 of 6

1. Parameter Code: VE	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: LIER SIEGLER Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 4 of 6

1. Parameter Code: CO2	2. Pollutant(s): SO2
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: MONITOR LABS Model Number: 9820 Serial Number: S/N 180/1799	
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 5 of 6

1. Parameter Code: FLOW	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: EMRC-DP1 Model Number: Serial Number: S/N 2SAA-PT-406	
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 6 of 6

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Western Research Model Number: 721-AT Serial Number: S/N 90-721AT2	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment: s/n 90-721at2-7663-2 Inlet Monitor	

EMISSIONS UNIT INFORMATION

Section [2] of [7]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)

Attached, Document ID: _____ Previously Submitted, Date _____

2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)

Attached, Document ID: Attach. H Previously Submitted, Date _____

3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)

Attached, Document ID: Attach. I Previously Submitted, Date _____

4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)

Attached, Document ID: _____ Previously Submitted, Date _____

Not Applicable (construction application)

5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)

Attached, Document ID: Attach. J Previously Submitted, Date _____

Not Applicable

6. Compliance Demonstration Reports/Records

Attached, Document ID: _____

Test Date(s)/Pollutant(s) Tested: _____

Previously Submitted, Date: _____

Test Date(s)/Pollutant(s) Tested: _____

To be Submitted, Date (if known): _____

Test Date(s)/Pollutant(s) Tested: _____

Not Applicable

Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.

7. Other Information Required by Rule or Statute

Attached, Document ID: _____ Not Applicable

EMISSIONS UNIT INFORMATION

Section [2] of [7]

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [3] of [7]

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [3] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

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.

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. Description of Emissions Unit Addressed in this Section: Transfer Building No. 302B

3. Emissions Unit Identification Number:

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit:
Manufacturer:

Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [3] of [7]

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
Fabric Filter – Low Temperature

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

EMISSIONS UNIT INFORMATION

Section [3] of [7]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 3,500 ton per hour
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [3] of [7]

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: 302B		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:	6. Stack Height: Feet TBD	7. Exit Diameter: Feet TBD	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: TBD 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 Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [3] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Handling of Solid Fuel		
2. Source Classification Code (SCC): 30501099		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 3,500	5. Maximum Annual Rate: 4,260,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [3] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [3] of [7]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		
PM10	018		

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM/PM10		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 1.1 lb/hour 0.66 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.00031 Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: $(3,500 \text{ ton per hour throughput}) \times (0.00031 \text{ lb/ton}) \times (\text{ton}/2,000 \text{ lb}) = 1.1 \text{ lb/hr}$ $(4,260,000 \text{ ton per year throughput}) \times (0.00031 \text{ lb/ton}) \times (\text{ton}/2,000 \text{ lb}) = 0.66 \text{ tpy}$			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [3] of [7]

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation __ of __

1. Visible Emissions Subtype:		2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour			
4. Method of Compliance:			
5. Visible Emissions Comment:			

Visible Emissions Limitation: Visible Emissions Limitation __ of __

1. Visible Emissions Subtype:		2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour			
4. Method of Compliance:			
5. Visible Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [3] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [3] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [3] of [7]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. I</u> <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. J</u> <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [3] of [7]

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [4] of [7]

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [4] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

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.

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. Description of Emissions Unit Addressed in this Section: Transfer Building No. 305

3. Emissions Unit Identification Number:

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit:
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [4] of [7]

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
Fabric Filter – Low Temperature

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

EMISSIONS UNIT INFORMATION

Section [4] of [7]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 3,500 ton per hour
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [4] of [7]

C. EMISSION POINT (STACK/VENT) INFORMATION
 (Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: 305		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:	6. Stack Height: Feet TBD	7. Exit Diameter: Feet TBD	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: TBD 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 Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [4] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Handling of Solid Fuel		
2. Source Classification Code (SCC): 30501099		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 3,500	5. Maximum Annual Rate: 4,260,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

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D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		
PM10	018		

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM/PM10		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 1.1 lb/hour 0.66 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.00031 Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: $(3,500 \text{ ton per hour throughput}) \times (0.00031 \text{ lb/ton}) \times (\text{ton}/2,000 \text{ lb}) = 1.1 \text{ lb/hr}$ $(4,260,000 \text{ ton per year throughput}) \times (0.00031 \text{ lb/ton}) \times (\text{ton}/2,000 \text{ lb}) = 0.66 \text{ tpy}$			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

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G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

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H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [4] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [4] of [7]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. I</u> <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. J</u> <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

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Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [5] of [7]

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [5] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
- 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.

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.
- 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. Description of Emissions Unit Addressed in this Section: Transfer Building No. 302A

3. Emissions Unit Identification Number:

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit:
Manufacturer:

Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [5] of [7]

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
Fabric Filter – Low Temperature

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

EMISSIONS UNIT INFORMATION

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 1,800 ton per hour
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [5] of [7]

C. EMISSION POINT (STACK/VENT) INFORMATION
 (Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: 302A		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:	6. Stack Height: Feet TBD		7. Exit Diameter: Feet TBD
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: TBD 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 Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Handling of Solid Fuel		
2. Source Classification Code (SCC): 30501099		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 1,800	5. Maximum Annual Rate: 4,260,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [5] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		
PM10	018		

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM/PM10		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.6 lb/hour 0.66 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.00031 Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (1,800 ton per hour throughput) x (0.00031 lb/ton) x (ton/2,000 lb) = 0.6 lb/hr (4,260,00 ton per year throughput) x (0.00031 lb/ton) x (ton/2,000 lb) = 0.66 tpy			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [5] of [7]

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation __ of __

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation __ of __

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

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H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

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H. CONTINUOUS MONITOR INFORMATION (CONTINUED)**Complete if this emissions unit is or would be subject to continuous monitoring.****Continuous Monitoring System:** Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

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I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. I</u> <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. J</u> <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

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Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

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EMISSIONS UNIT INFORMATION

Section [6] of [7]

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [6] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

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.

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. Description of Emissions Unit Addressed in this Section: Ash Silo 3

3. Emissions Unit Identification Number:

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit:
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [6] of [7]

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
Fabric Filter – Low Temperature

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

EMISSIONS UNIT INFORMATION

Section [6] of [7]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 75 ton per hour
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [6] of [7]

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: Silo 3		2. Emission Point Type Code: 1			
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:					
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:					
5. Discharge Type Code:		6. Stack Height: Feet TBD		7. Exit Diameter: Feet TBD	
8. Exit Temperature: 77 °F		9. Actual Volumetric Flow Rate: TBD 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 Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)		
15. Emission Point Comment:					

EMISSIONS UNIT INFORMATION

Section [6] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Handling of Flyash		
2. Source Classification Code (SCC): 30510299		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 75	5. Maximum Annual Rate: 130,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [6] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [6] of [7]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		
PM10	018		

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.67 lb/hour 0.579tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.0089 lb/ton Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (75 ton per hour throughput) x (0.0089 lb/ton) = 0.67 lb/hr (130,000 ton per year throughput) x (0.0089 lb/ton) x (ton/2,000 lb) = 0.579 tpy			
11. Potential, Fugitive, and Actual Emissions Comment: Annual emission calculations are based on the expected annual average ash throughput for the silo.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.37 lb/hour 0.245 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.0049 lb/ton Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (75 ton per hour throughput) x (0.0049 lb/ton) = 0.37 lb/hr (130,000 ton per year throughput) x (0.0049 lb/ton) x (ton/2,000 lb) = 0.319 tpy			
11. Potential, Fugitive, and Actual Emissions Comment: Annual emission calculations are based on the expected annual average ash throughput for the silo.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [6] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [6] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [6] of [7]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. A</u> <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. I</u> <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p> <p><input checked="" type="checkbox"/> Not Applicable (construction application)</p>
<p>5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. J</u> <input type="checkbox"/> Previously Submitted, Date _____</p> <p><input type="checkbox"/> Not Applicable</p>
<p>6. Compliance Demonstration Reports/Records</p> <p><input type="checkbox"/> Attached, Document ID: _____</p> <p> Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Previously Submitted, Date: _____</p> <p> Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____</p> <p> Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p> <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
<p>7. Other Information Required by Rule or Statute</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [6] of [7]

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [7] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

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.

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. Description of Emissions Unit Addressed in this Section: Ash Silo 4

3. Emissions Unit Identification Number:

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit:
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [7] of [7]

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
Fabric Filter – Low Temperature

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

EMISSIONS UNIT INFORMATION

Section [7] of [7]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 450 ton per hour
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [7] of [7]

**C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)****Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: Silo 4		2. Emission Point Type Code: 1			
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:					
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:					
5. Discharge Type Code:		6. Stack Height: Feet TBD		7. Exit Diameter: Feet TBD	
8. Exit Temperature: 77 °F		9. Actual Volumetric Flow Rate: TBD 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 Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)		
15. Emission Point Comment:					

EMISSIONS UNIT INFORMATION

Section [7] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Handling of Flyash		
2. Source Classification Code (SCC): 30510299		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 450	5. Maximum Annual Rate: 100,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [7] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
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:		

EMISSIONS UNIT INFORMATION

Section [7] of [7]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		
PM10	018		

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 4.005 lb/hour 0.445 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.0089 Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: $(450 \text{ ton per hour throughput}) \times (0.0089 \text{ lb/ton}) = 4.005 \text{ lb/hr}$ $(100,000 \text{ ton per year throughput}) \times (0.0089 \text{ lb/ton}) \times (\text{ton}/2,000 \text{ lb}) = 0.445 \text{ tpy}$			
11. Potential, Fugitive, and Actual Emissions Comment: Annual emission calculations are based on the expected annual average ash throughput for the silo.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 2.205 lb/hour 0.245 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.0049 Reference: USEPA AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: (450 ton per hour throughput) x (0.0049 lb/ton) = 2.205 lb/hr (100,000 ton per year throughput) x (0.0049 lb/ton) x (ton/2,000 lb) = 0.245 tpy			
11. Potential, Fugitive, and Actual Emissions Comment: Annual emission calculations are based on the expected annual average ash throughput for the silo.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [7] of [7]

G. VISIBLE EMISSIONS INFORMATION**Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.****Visible Emissions Limitation:** Visible Emissions Limitation __ of __

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation __ of __

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [7] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [7] of [7]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [7] of [7]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. A</u> <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. I</u> <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attach. J</u> <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [7] of [7]

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

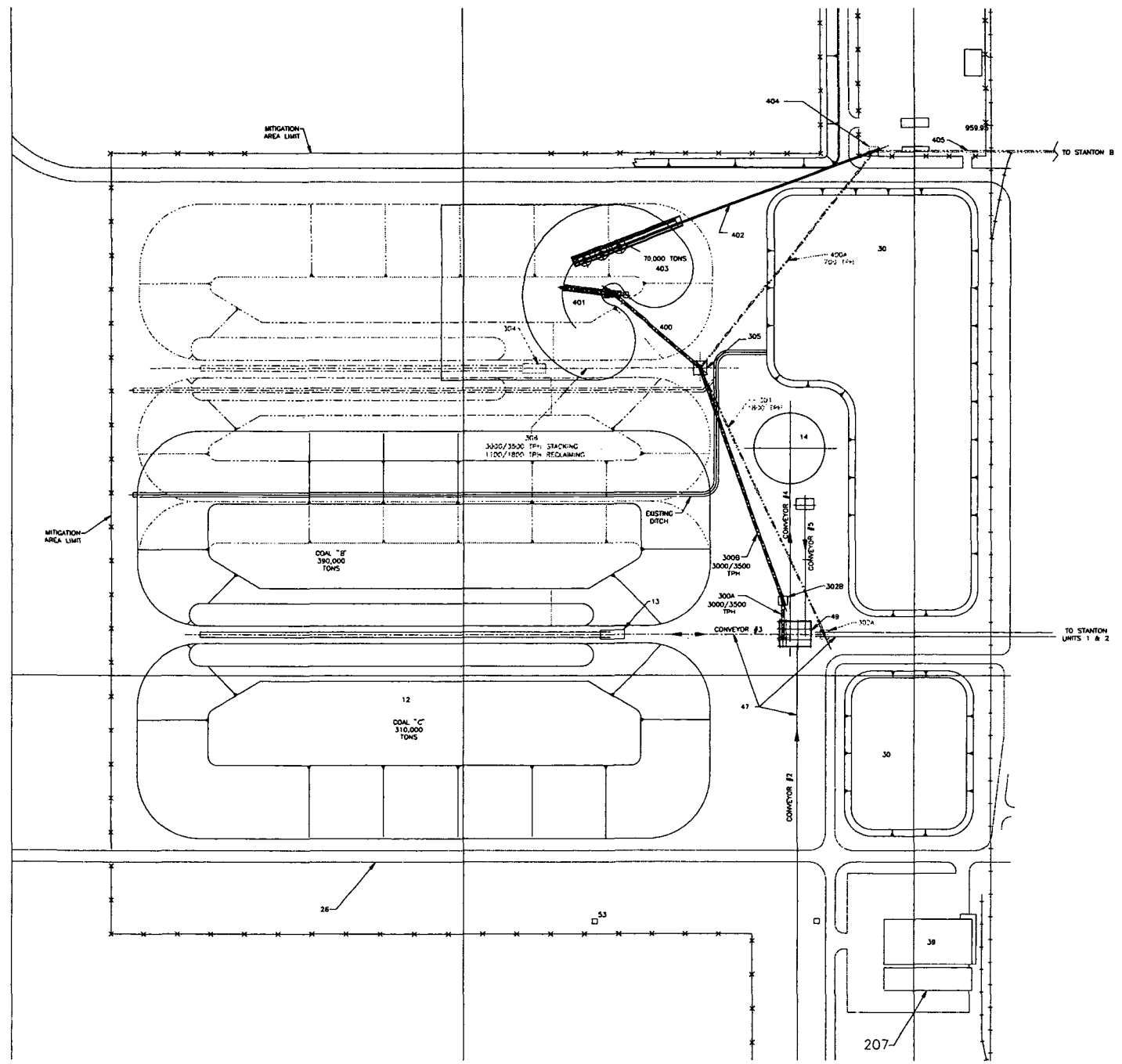
Additional Requirements Comment

--

Attachment A

Facility Plot Plan

BUILDING AND FACILITIES LEGEND	
EXISTING FACILITIES	
NO	DESCRIPTION
12	COAL STORAGE AREA
13	STACKER RECLAIMER
14	EMERGENCY STOCKOUT AND RECLAIM
26	COMBUSTION WASTE HALL ROAD
30	COAL STORAGE AREA TRAFFIC POND
39	PERMANENT WAREHOUSE
47	TARD COAL CONVEYOR
48	COAL TRANSFER STRUCTURE
53	WELL WATER PUMP HOUSE
207	PERMANENT WAREHOUSE ADDITION
PROPOSED FACILITIES - STANTON B	
300	COAL STOCKOUT CONVEYOR
302	TRANSFER BUILDING
303	TRANSFER BUILDING
400	RECEIVING CONVEYOR
401	RADIAL STACKER
402	RECLAIM CONVEYOR
403	PREL COAL STOCKPILE
404	CRUISER BUILDING (BY OTHERS)
405	SILLO FILL CONVEYOR (BY OTHERS)
PROPOSED BLENDING FACILITIES	
301	COAL RECLAIM CONVEYOR
302	TRANSFER BUILDING
304	BUCKET WHEEL STACKER/RECLAIMER (SHARED WITH STANTON B)
308	STACKER/RECLAIMER CONVEYOR (SHARED WITH STANTON B)
400A	RECLAIM CONVEYOR



NOT TO BE USED
FOR CONSTRUCTION

SCHEDULE E1
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10/19/06 08:33:24

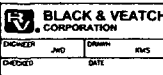
NO	DATE	REVISIONS AND RECORD OF ISSUE	DESIGNED	CHECKED	APP'D
A	10/19/2006				



100' 50' 0' 100' 200'
SCALE: 1" = 100'

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A QUALIFIED PERSON UNDER THE LAWS OF THE STATE OF FLORIDA.

DESIGNED: JMO
CHECKED: RMS
DATE: 10/19/06



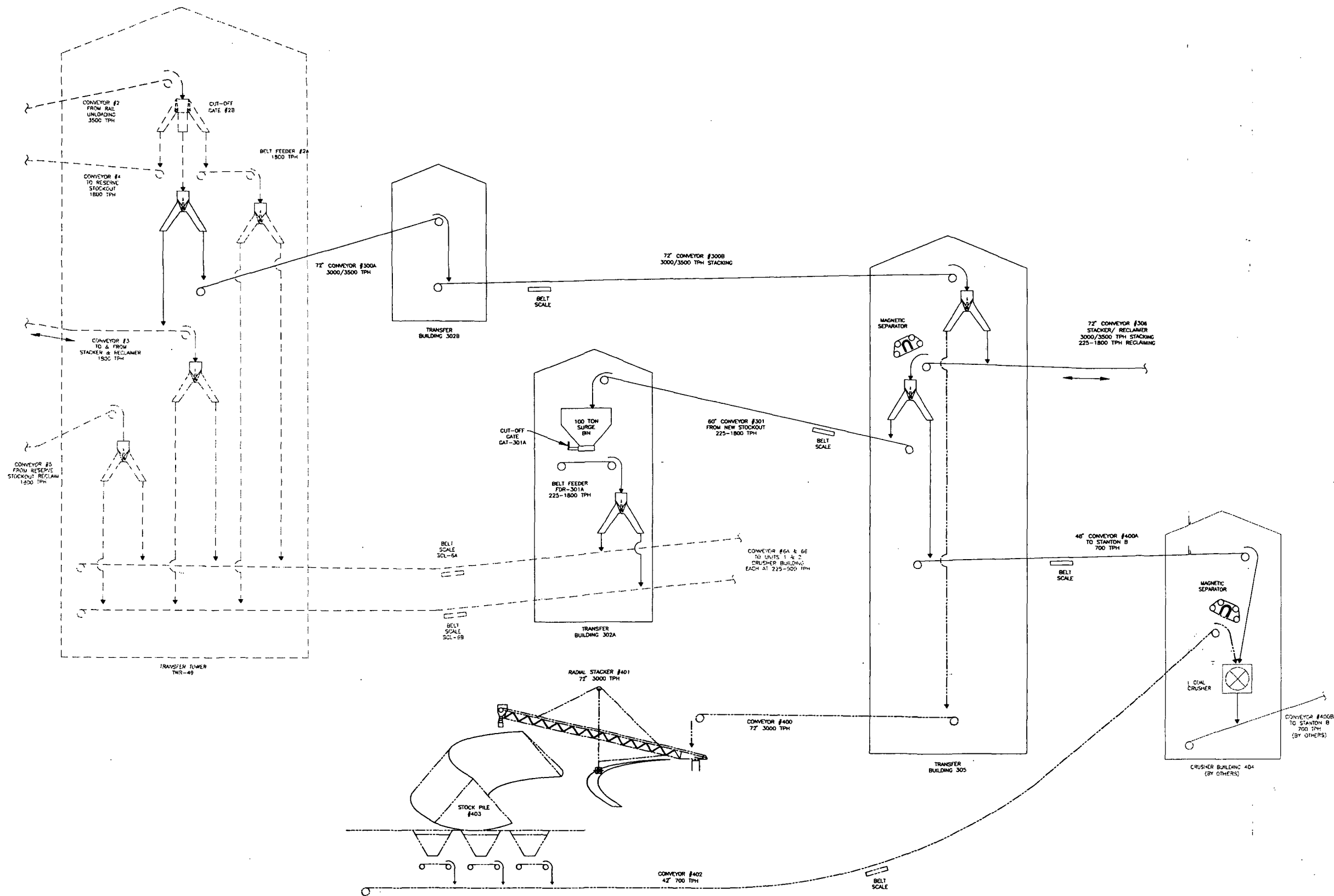
BLACK & VEATCH CORPORATION
ORLANDO UTILITIES COMMISSION
STANTON ENERGY CENTER

PROJECT: 142726-DS-S1001AB
DRAWING NUMBER: A

PROPOSED ADDITIONS
COAL STACKOUT AND RECLAIM AREA

Attachment B

Process Flow Diagram



OPEN
10/10/06

NOT TO BE USED
FOR CONSTRUCTION

SCHEDULE 1
 10/19/2006
 10/19/2006
 10/19/2006

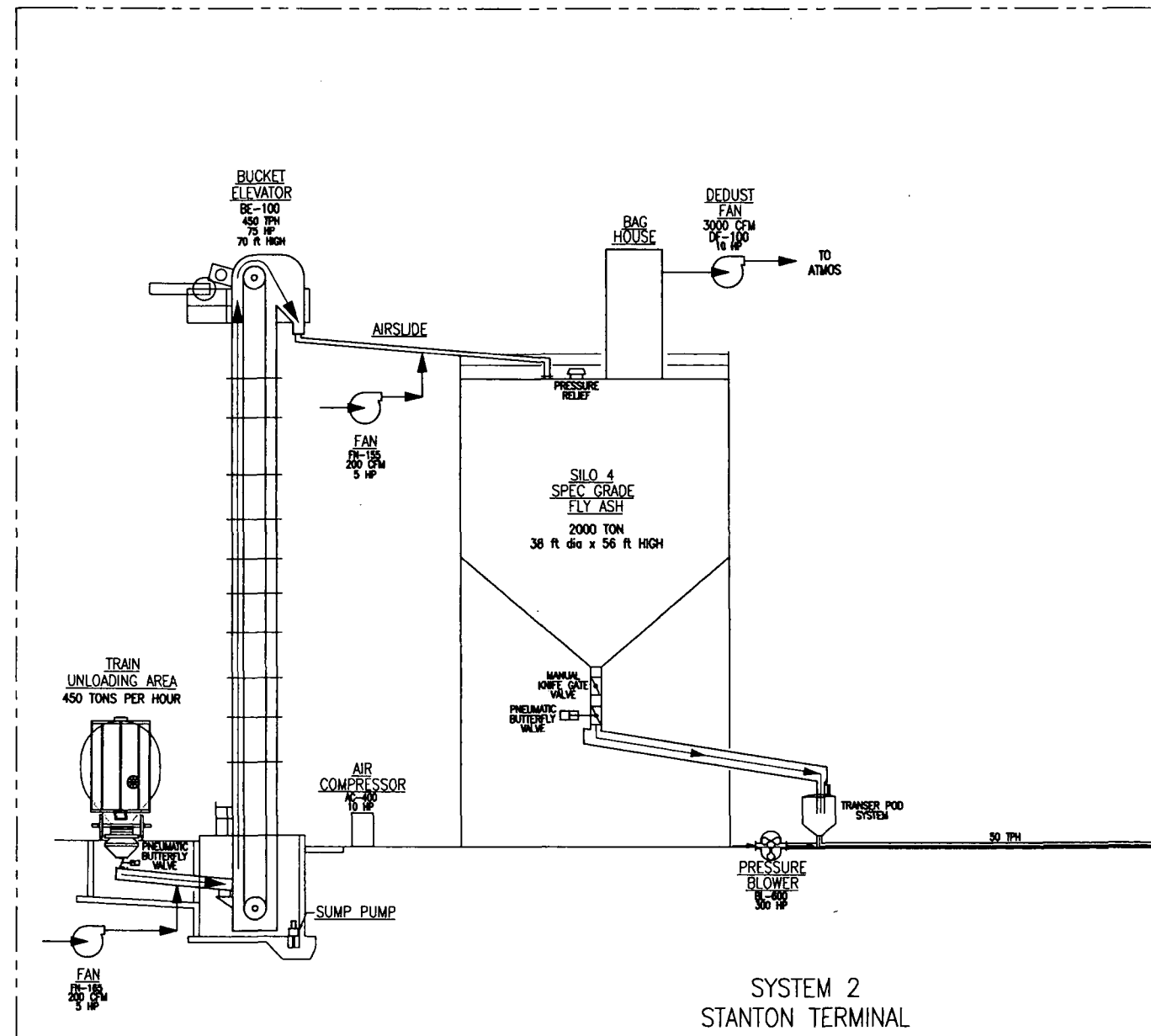
NO.	DATE	REVISIONS AND RECORD OF ISSUE	DESIGNED	CHECKED
B	10/19/2006	ADDED BUILDING	WAS/MT	
A	10/19/2006	INITIAL ISSUE	WAS/MT	

I HEREBY CERTIFY THAT THIS DOCUMENT WAS
 PREPARED BY ME OR UNDER MY DIRECT SUPER-
 VISION AND THAT I AM A duly LICENSED PRO-
 FESSIONAL ENGINEER UNDER THE LAWS OF THE
 STATE OF
 SIGNED: _____
 DATE: _____ REG. NO.: _____

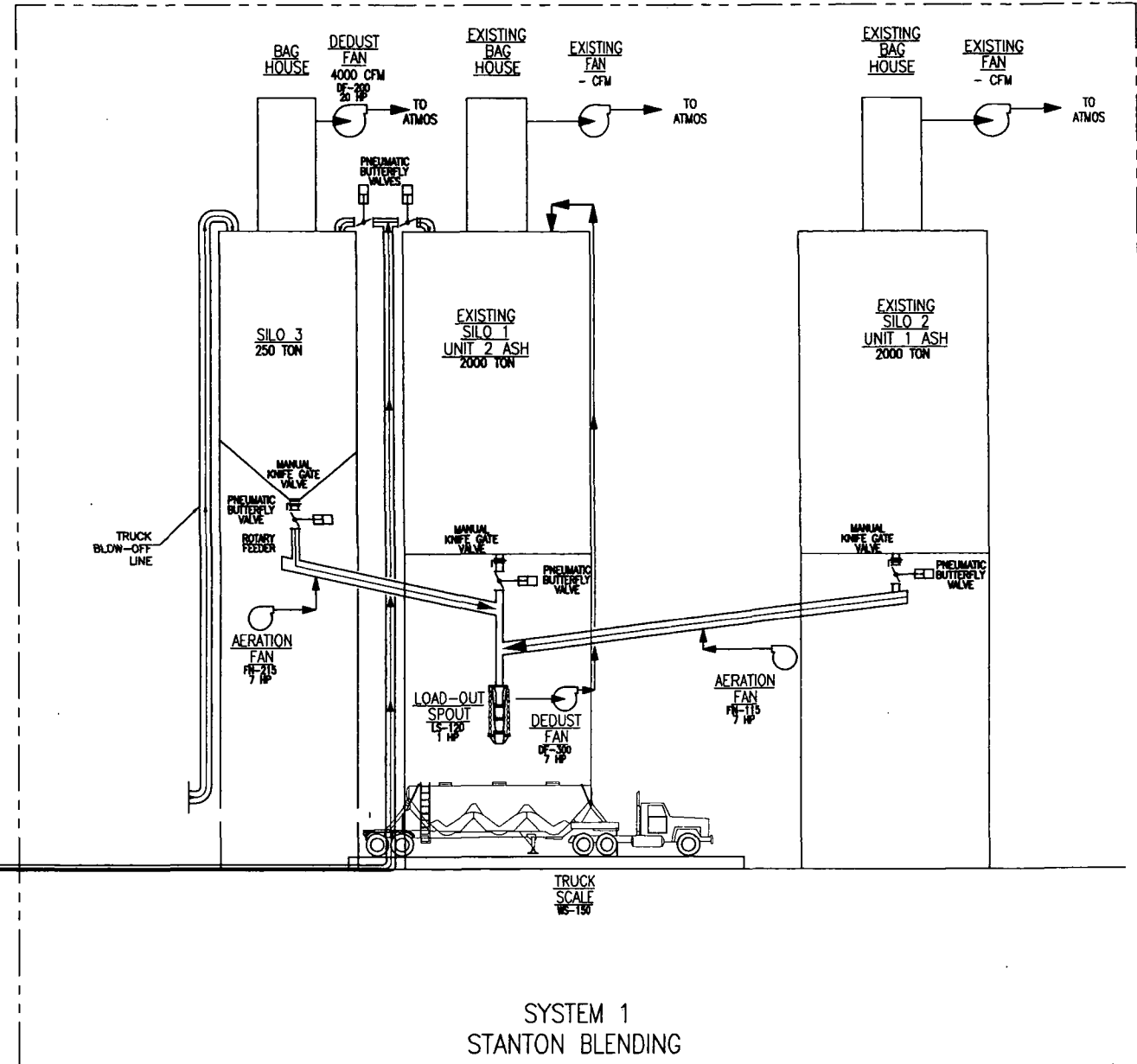
BLACK & VEATCH
 CORPORATION
 ENGINEER JMO
 CHECKED BMT

ORLANDO UTILITIES COMMISSION
 STANTON ENERGY CENTER
 MODIFIED SOUTHERN LAYOUT
 FLOW DIAGRAM

PROJECT 142726-DS-S2000AB
 DRAWING NUMBER B
 CODE
 AREA



SYSTEM 2
STANTON TERMINAL



SYSTEM 1
STANTON BLENDING

AREA 10

DATE	NO.	REVISION DESCRIPTION	APPD.	DATE	NO.	REVISION DESCRIPTION	APPD.
10-5-06	B	REVISED HORSEPOWERS	BRH				

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DATE: 10-3-06
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DRAWN BY:
CHECKED BY:
APPROVED BY:

STANTON ENERGY CENTER
FLY ASH TRANSFER CONE SILO
PROCESS FLOW DIAGRAM
ORLANDO, FLORIDA

DRAWING NO. PF-100	
PROJECT NO.	
REVISION NO. B	SHEET NO. 1 OF 1

Attachment C

Precautions to Prevent Emissions of Unconfined Particulate Matter

Precautions to Prevent Emissions of Unconfined Particulate Matter

The following reasonable precautions will be taken to prevent emissions of unconfined particulate matter on an as-needed basis:

- Paving and maintenance of roads, parking areas, and yards,
- Chemical (dust suppressants) or water application to unpaved roads, and unpaved yard areas,
- Removal of particulate matter (PM) from roads and other paved areas to prevent re-entrainment, and from buildings or work areas to prevent airborne PM,
- Landscaping or planting of vegetation,
- Regular mowing of grass and care of vegetation,
- Confining abrasive blasting where possible,
- Limiting access to plant property by unnecessary vehicles, and
- Additional, or alternative activities, or other techniques to minimize unconfined PM emissions.

Attachment D

Description of Proposed Construction or Modification

Description of Proposed Construction or Modification

This application addresses several changes at the facility. A major focus of these facility changes is an improvement in the control of NO_x and SO₂ emissions. The changes also include modifications to the coal handling operations that will allow for the use of solid fuel blends, including the use of a 25 percent petcoke blend in Unit No. 1 and Unit No. 2. The proposed facility changes are described in more detail in the application support document. The following is a bulleted list of the facility changes addressed in this application:

- Addition of Low-NO_x burners and overfire air on Unit 1.
- Unit 2 Low-NO_x burner and overfire air upgrade.
- Addition of forced oxidation systems on the Units 1 and 2 wet flue gas desulfurization (WFGD) systems.
- Unit 1 scrubber upgrade.
- Improvements to ash loadout silos 1 and 2.
- Changes to the coal handling operations to allow for the use of solid fuel blends in Unit 1 and 2, which would include the potential use of a pet coke/coal blend.

Attachment E

Rule Applicability Analysis

Rule Applicability Analysis

The following rule applicability analysis is limited to the rules associated with the proposed facility changes and does not encompass overall facility rule applicability. Overall facility applicable requirements were identified in the latest Title V permit application.

Rule Applicability Analysis for the Facility Changes

Federal: 40 CFR Part 60 Subpart Y – *Standards of Performance for Coal Preparation Plants* - Applicable to subject new coal handling equipment.

Federal: 40 CFR Part 60 Subpart A – *General Provisions*.

State: Rule 62-4.070 – *Standards for Issuing or Denying Permits*.

State: Rule 62-204.800(8)(b).31 – *General Provisions Adopted – 40 CFR 60 Subpart A – General Provisions adopted by reference, with exceptions*.

State: Rule 62-204.800(8)(d) – *Standards of Performance for Coal Preparation Plants Adopted – 40 CFR 60 Subpart Y adopted by reference*.

State: Rule 62-210.300 – *Permits Required*.

State: Rule 62-212.300 – *General Preconstruction Review Requirements*.

State: Rule 62-297.310 – *General Compliance Test Requirements*.

Attachment F

List of Exempt Emission Units

List of Exempt Emission Units

This application does not affect the existing list of exempt emission units at this facility.

Attachment G

Fugitive Emissions Identification

Fugitive Emissions Identification

As discussed in the support document accompanying this application, fugitive emissions associated with the new solid fuel handling operations occur at the coal pile and from stacking and reclaiming coal from the coal pile.

Attachment H

Fuel Analysis or Specification

Fuel Analysis or Specification

The primary fuel for Unit No. 1 and Unit No. 2 is coal. With this permit application, it is requested that the permit also allow for the firing of a 25 percent petcoke blend in Unit No. 1 and Unit No. 2. A more detailed discussion of the expected typical analysis of the petcoke blend is included in the application support document. Secondary fuels for these units are:

- Fuel oil,
- Waste oil,
- Natural gas,
- Landfill gas

Attachment I

Detailed Description of Control Equipment

Detailed Description of Control Equipment

See the application support document for a discussion of the control equipment associated with this application.

Attachment J

Operation and Maintenance Plan

Operation and Maintenance Plan

The facility equipment will be operated and maintained in accordance with manufacturer's recommendations, operations and maintenance experience, and technical guidance taking into account protection of equipment, safety of personnel and other factors as deemed necessary to maintain compliance with the permitted limits.