AIR PERMIT APPLICATION

ORLANDO UTILITIES COMMISSION

STANTON ENERGY CENTER

For the Installation of Natural Gas Igniters on Units 1 and 2

B&V PROJECT NO. 160357

PREPARED FOR

OUC The Reliable One

Orlando Utilities Commission

OCTOBER 2011

BLACK & VEATCH
Building a world of difference.

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The *Reliable* One®

October 12, 2011

Mr. Martin Costello
Florida Department of Environmental Protection
Division of Air Resource Management
Office of Air Permitting and Compliance
2600 Blair Stone Road, MailStation 5505
Tallahassee, FL 32399-2400

project No: 0950137-039-AC

Dear Mr. Costello,

Enclosed please find the finalized application for a construction permit for the Stanton Energy Center.

Per our phone conversations, the subject application project entails the replacement of oil igniters for natural gas igniters on Units 1 and 2 (EU 001 and 002).

If you would like to discuss any issues regarding this application, please contact me at my office, 407-434-3072 or Brian O'neill, Air Permitting Section Lead, Energy, Black and Veatch Corporation 913-458-8199.

The Orlando Utilities Commission looks forward to working with you on this permitting effort.

Best Regards,

David R. Báez

Project Engineer, Environmental Affairs
Orlando Utilities Commission

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DIVISION OF AIR
RESOURCE MANAGEMENT

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1.0 Introduction and Project Description

Orlando Utilities Commission (OUC) is proposing to replace the existing fuel oil igniter systems on Stanton Energy Center (SEC) Units 1 & 2 with natural gas igniter systems. The natural gas will be supplied from the existing Florida Gas Transmission (FGT) transmission line on the SEC site located north of SEC Units 1 & 2. The igniters will be used primarily as initial light-off for the 60 low NO_x coal burners (30 per unit).

A new natural gas metering station will be installed at the Facility for metering and regulation of the natural gas to be used for the new igniter systems. The new metering station will be located next to the existing FGT transmission line. At the metering station the gas supply will be reduced in pressure to approximately 250 psi. The natural gas will then be routed underground in a single pipeline to the south wall outside Unit 2 where the line will split into a supply piping line supporting Unit 1 and supply piping line supporting Unit 2. At this point the natural gas pressure will be reduced further to approximately 125 psi before entering the Units. The natural gas will be routed to the front and back walls of each boiler at the burner fronts (three on the front wall and two on the back wall of the boilers). Near the burner fronts the natural gas pressure will be further reduced to approximately 30 psi which is the pressure needed at the igniters.

At the burner fronts, the existing fuel oil igniter piping and atomizing steam lines will be removed from the units and replaced in essentially the same locations with the new natural gas lines. Modifications will be made to the igniter guns to accommodate the natural gas firing. The entire burner management system will be modified and upgraded to accommodate natural gas firing as well as compliance with NFPA 2011 Code requirements for Burner Management Systems.

The remainder of this document provides the permit applicability analysis, supporting calculations, and the appropriate Florida Department of Environment (FDEP) application forms.

2.0 NSR/PSD Applicability

On December 31, 2002, the United States Environmental Protection Agency (USEPA) substantially reformed the Prevention of Significant Deterioration (PSD) program, including the manner in which a project's emissions increase is determined. Florida amended its rules, effective February 2006, to address the USEPA PSD reforms.

2.1 EMISSIONS ANALYSIS

In terms of PSD applicability, a project at an existing major source will not be subject to PSD review if it does not result in a significant emissions increase. In general, a project's emissions increase is determined as the difference between its baseline actual emissions (BAE) and its future projected actual emissions (PAE). One is also allowed to consider excludable emissions (EE) when making this comparison.

The starting point for this type of analysis at the Stanton Energy Center is the determination of the BAE for Units 1 and 2 combined. For this analysis, the BAE emissions were determined using historical emissions data and the methodology set forth in the current PSD regulations. The historical emissions data were derived from continuous emissions monitoring system (CEMS) data for SO2, NOx, CO, and CO2 emissions (for all or part of the baseline period) and from annual operating reports (AORs) and stack tests for all other pollutants. The BAE period is chosen on a pollutant-by-pollutant basis as the 24-month period within the five year look-back period that has the highest emissions of that pollutant based on historical emissions data. The BAE period can be different for each pollutant but must be the same for both units for each individual pollutant. The five year look back period for this air permit application ran from September 2006 through August 2011. Table 2-1 illustrates the BAE for this project.

Once the BAE is established, the next step is to determine the EE based on the projected operation of each unit without the project. Essentially, the rules allow one to exclude from the emissions increase calculation those emission increases that would have occurred without the project. As will be discussed shortly, the EE can be considered an adjusted BAE and is subtracted from the PAE to determine the project emission increases. This project conservatively assumes that no adjustments to the baseline are made as the units would continue to operate as they've done historically if the new natural gas burners were never installed. Therefore, the EE are equal to the BAE which were shown in Table 2-1.

Once the BAE (and EE) are established, the next step is to determine the PAE values. In determining the PAE for each unit, one needs to differentiate between the projected increases due to *natural* demand growth versus the demand increases due to the *project.* However, since the project is not expected to increase demand growth upon the units, the increase in operation of the unit due to demand growth caused by the project is non-existent (zero). This analysis also conservatively assumes that the units will have a flat (zero) natural demand growth into the future essentially making their anticipated future annual heat input equal to the units' baseline heat input.

Table 2-1 Baseline Actual Emissions

POLLUTANT	BAE PERIOD	UNIT 1 BAE (TPY)	UNIT 2 BAE (TPY)	COMBINED BAE (TPY)
NO_x	Sep 2006 – Aug 2008	6,306.82	2,486.78	8,793.60
SO_2	Sep 2006 – Aug 2008	4,723.59	2,052.73	6,776.32
CO	Jan 2009 – Dec 2010	1,012.09	856.96	1,869.04
VOC	Sep 2006 – Aug 2008	42.08	15.59	57.67
PM	Sep 2006 – Aug 2008	259.87	322.20	582.07
PM_{10}	Sep 2006 – Aug 2008	248.93	313.96	562.89
$PM_{2.5}$	Jan 2009 – Dec 2010	187.11	253.32	440.43
H_2SO_4	Apr 2007 – Mar 2009	178.76	189.27	368.03
CO_2	May 2007 – Apr 2009	3,228,131	3,285,671	6,513,803

Note: Appendix A contains detailed emissions calculations.

The remaining step for determining the PAE then is to combine the projected annual heat input (equal to the baseline heat input) with the anticipated future emission factors. To accomplish this calculation, the analysis assumed that no more than 15 percent of the projected annual heat input from the units would come from the combustion of natural gas in the proposed igniter systems. This annual heat input value was then combined with emissions factors representing the combustion of natural gas in the proposed igniter systems to derive ton per year emissions from the proposed igniter system. The balance of the projected annual heat input from the units was then combined with annualized emission factors based on their historical operations.[1] Together, the projected emissions from the combustion of the historical fuels along with the projected emissions from the combustion of natural gas make up the project's PAE. Table 2-2 provides the project's PAE.

Once the BAE (EE) and PAE values are determined, the next step is to perform the calculations to determine the projected emissions increase (PEI) to compare with the PSD Significant Emission Rates (SERs). Table 2-3 combines the data from the previous tables and makes the appropriate comparisons. As illustrated in the table, the installation of natural gas igniter systems will not cause a significant emissions increase and therefore will not trigger/require major source PSD permitting.

2.2 RECORD KEEPING REQUIREMENTS

Prior to beginning actual construction on a proposed project, a facility must record the following information:

- A description of the project;
- Identification of each affected emission unit;
- A description of the applicability test used; including,
  - The BAE;
  - The PAE;
  - The amount of EE;
  - The reason for excluding that amount; and,
  - Any netting calculations, if applicable.

With this application submittal, OUC is fulfilling this above information requirement.

After resuming normal operation following completion of the project, the PSD regulations also require the facility to monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that are emitted by any of the affected emission units. In addition,

[1] This analysis was conservative in that it did not account for any reduction in the projected/future emission factors (which are meant to represent all operations other than the natural gas igniters) for the removal of oil firing capabilities. That is, projected/future emission factors for the non-natural gas igniter portion of the boilers' operations were set equal to the historical emission factors which included the oil firing capabilities that will no longer be available to the units.

Table 2-2 Projected Actual Emissions

POLLUTANT	PAE (TPY)
NO_x	8,118.13
SO_2	5,766.76
CO	1,962.78
VOC	74.31
PM	529.70
PM_{10}	513.39
$PM_{2.5}$	408.21
H_2SO_4	313.08
CO_2	6,096,916

Note: Appendix A contains detailed emissions calculations.

Table 2-3 Projected Emissions to Baseline Emissions Comparison

POLLUTANT	BAE (EE) (TPY)	PAE (TPY)	PROJECT EMISSIONS INCREASE (TPY)	PSD SER (TPY)	PSD MAJOR MODIFICATION (YES/NO)
NO_x	8,793.60	8,118.13	-675.47	40	No
SO_2	6,776.32	5,766.76	-1,009.55	40	No
CO	1,869.04	1,962.78	93.73	100	No
VOC	57.67	74.31	16.63	40	No
PM	582.07	529.70	-52.37	25	No
PM_{10}	562.89	513.39	-49.50	15	No
$PM_{2.5}$	440.43	408.21	-32.22	10	No
H_2SO_4	368.03	313.08	-54.95	7	No
CO_2	6,513,803	6,096,916	-416,887	75,000	No

Notes:
Assumes a maximum natural gas contribution to annual heat input of 15 percent.
Appendix A contains detailed emissions calculations.

annual emissions, in tons per year, are required to be calculated at the end of each year following the date that normal operation resumes after completion of the project. These monitoring and emission calculation requirements shall continue for each year of the projection period.

2.3 REPORTING REQUIREMENTS

It is important to note that per the FDEP and USEPA NSR reform rules, the PAE values in Table 2-3 should not be construed to be future annual permit limits. Rather, OUC's obligation going forward is to simply track and report emissions from Units 1 and 2 60 days after the end of each year for the five years following completion of the project to demonstrate that the units did not experience a significant emissions increase over the baseline emissions which would indicate a potential for retroactive PSD permitting. That is, if the post-project actual emissions exceed the BAE by a significant amount *and* differ from (and presumably exceed) the PAE, then the project may be subject to PSD review, unless a legitimate reason is identified in the emissions report, such as the actual electrical demand growth exceeded the projected growth rate and the reported emissions increase is the result of that circumstance alone.

Further, as discussed above and because the installation of the natural gas igniter systems is voluntary and the amount of use is yet to be determined, Units 1 and 2 are not obligated to demonstrate the emissions reductions shown above and the values should not be construed to be future annual permit limits (per the FDEP and USEPA NSR reform rules). The purpose of the analysis presented in this document was simply to demonstrate that emission increases for will be below the SERs and thus not be considered a major modification for PSD.

Appendix A
Detailed Emissions Calculations

Significant Emissions Increase Calculation - Natural Gas Igniter Project

Market Demand Growth that is independent of project - Percent increase over the 10 years following the date the Unit resumes regular operation.	0.0%	
Market Demand Growth that is directly the result of the project - Percent increase over the 10 years following the date the Unit resumes regular operation.	0.0%	None assumed for power generation
Annual Project Related Capacity Increase (%)	0.0%	
Short-term Project Related Capacity Increase (%)	0.00%	
Pre-Project (Baseline Period) Maximum Permitted Heat Input (Mbtu/h)	9,600	Title V Air Operating Permit Heat Input for Both Units (4,800 MMBtu/hr each)
Post-Project Maximum Heat Input (Mbtu/hr)	9,600	

	NOx			SO2			CO		
	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy
BAE-Average rate in tpy of actual emissions over any consecutive 24-month period within the 5-years immediately preceding actual construction of the project.	6.25E+07		8,793.60	6.25E+07		6,776.32	6.06E+07		1,869.04
PAE - The HI and initial projected emissions in any one 12-month period of the 10 years following the date the Unit resumes regular operation.	5.31E+07	9.38E+06	8,118.13	5.31E+07	9.38E+06	5,766.76	5.15E+07	9.09E+06	1,962.78
Post-Project Period Capacity Factor	74.34%			74.34%			72.02%		
EE - The excludable HI and emissions that would have been emitted anyway without the modification.	6.25E+07		8,793.60	6.25E+07		6,776.32	6.06E+07		1,869.04
Projected Emission Increase = PAE minus the EE			-675.47			-1,009.55			93.73
Significant Emission Level (tpy)			40			40			100
Exceed SEL			NO			NO			NO

	VOC			PM			PM10		
	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy
BAE-Average rate in tpy of actual emissions over any consecutive 24-month period within the 5-years immediately preceding actual construction of the project.	6.25E+07		57.67	6.25E+07		582.07	6.25E+07		562.89
PAE - The HI and initial projected emissions in any one 12-month period of the 10 years following the date the Unit resumes regular operation.	5.31E+07	9.38E+06	74.31	5.31E+07	9.38E+06	529.70	5.31E+07	9.38E+06	513.39
Post-Project Period Capacity Factor	74.34%			74.34%			74.34%		
EE - The excludable HI and emissions that would have been emitted anyway without the modification.	6.25E+07		57.67	6.25E+07		582.07	6.25E+07		562.89
Projected Emission Increase = PAE minus the EE			16.63			-52.37			-49.50
Significant Emission Level (tpy)			40			25			15
Exceed SEL			NO			NO			NO

	PM2.5			H2SO4			CO2		
	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy	Blended Fuel MBtu/yr	Natural Gas Mbtu/yr	Emissions tpy
BAE-Average rate in tpy of actual emissions over any consecutive 24-month period within the 5-years immediately preceding actual construction of the project.	6.06E+07		440.43	6.34E+07		368.03	6.35E+07		6,513,803
PAE - The HI and initial projected emissions in any one 12-month period of the 10 years following the date the Unit resumes regular operation.	5.15E+07	9.09E+06	408.21	5.39E+07	9.51E+06	313.08	5.40E+07	9.52E+06	6,096,916
Post-Project Period Capacity Factor	72.02%			75.43%			75.49%		
EE - The excludable HI and emissions that would have been emitted anyway without the modification.	6.06E+07		440.43	6.34E+07		368.03	6.35E+07		6,513,803
Projected Emission Increase = PAE minus the EE			-32.22			-54.95			-416,887
Significant Emission Level (tpy)			10			7			75,000
Exceed SEL			NO			NO			NO

Emission Factors

	Baseline Period Average Emissions (lb/Mbtu)	Post-Project Blended Fuel Emission[1] (lb/Mbtu)	Post-Project Gas Emissions[2] (lb/Mbtu)
NOx	0.2813	0.2813	0.1373
SO2	0.2168	0.2168	0.0015
CO	0.0617	0.0617	0.0824
VOC	0.0018	0.0018	0.0054
PM	0.0186	0.0186	0.0075
PM10	0.0180	0.0180	0.0075
PM2.5	0.0145	0.0145	0.0075
H2SO4	0.0116	0.0116	0.0001
CO2	205.20	205.20	117.65

Post-Project Percent Boiler HI that is Gas	
15.00%	
8,160	Coal (Mbtu/h)
1,440	Gas (Mbtu/h)
9,600	Total

[1] Conservatively assumed no change to post-project emission factor since largely driven by coal usage.

[2] From EPA AP-42 Tables 1.4-1 and 1.4-2, Emission Factors for Natural Gas Boilers (exception is H2SO4 which is calculated as 3% of SO2 x ratio of molecular weights (98/80)

NSR Reform Method (Highest 24-months of the Most Recent 5 Years)

	CEMS Heat Input (total) Unit 1 Monthly Heat Input (mmBtu)	Unit 2 Monthly Heat Input (mmBtu)	Total Monthly Heat Input (mmBtu)	24-Mon Ann Rolling Avg (mmBtu)
2006 Sep	2,946,157	2,778,142	5,722,299	
2006 Oct	584,321	3,204,658	3,788,979	
2006 Nov	2,356,139	3,275,935	5,632,073	
2006 Dec	2,986,852	3,152,252	6,139,104	
2007 Jan	3,024,269	2,906,706	5,930,975	
2007 Feb	2,580,144	1,822,482	4,402,626	
2007 Mar	3,151,803	0	3,151,803	
2007 Apr	2,976,670	1,965,715	4,942,385	
2007 May	3,109,088	3,273,389	6,382,477	
2007 Jun	3,097,091	2,854,452	5,951,544	
2007 Jul	3,298,928	3,251,693	6,550,621	
2007 Aug	3,259,417	3,212,925	6,472,341	
2007 Sep	3,181,587	3,204,669	6,386,256	
2007 Oct	1,265,857	3,152,131	4,417,989	
2007 Nov	699,307	2,919,304	3,618,611	
2007 Dec	2,584,181	2,893,453	5,477,635	
2008 Jan	2,613,162	2,890,485	5,503,648	
2008 Feb	2,502,278	2,353,963	4,856,241	
2008 Mar	2,874,959	1,239,624	4,114,583	
2008 Apr	2,970,972	0	2,970,972	
2008 May	3,196,098	1,540,950	4,737,048	
2008 Jun	3,042,769	2,813,771	5,856,540	
2008 Jul	3,174,040	2,818,156	5,992,196	
2008 Aug	3,019,161	3,018,382	6,037,543	62,518,244
2008 Sep	2,824,873	3,130,918	5,955,791	62,634,990
2008 Oct	0	3,311,387	3,311,387	62,396,194
2008 Nov	2,097,167	3,088,703	5,185,871	62,173,093
2008 Dec	2,965,704	2,837,387	5,803,091	62,005,086
2009 Jan	2,959,473	2,610,988	5,570,461	61,824,830
2009 Feb	2,746,318	2,502,178	5,248,496	62,247,765
2009 Mar	2,774,105	2,745,653	5,519,758	63,431,742
2009 Apr	2,670,196	2,383,669	5,053,865	63,487,482
2009 May	2,537,484	2,422,545	4,960,029	62,776,258
2009 Jun	2,919,876	2,507,395	5,427,271	62,514,122
2009 Jul	2,427,339	2,802,974	5,230,313	61,853,968
2009 Aug	2,956,072	2,945,484	5,901,557	61,568,575
2009 Sep	2,428,278	2,789,656	5,217,934	60,984,414
2009 Oct	3,083,353	170,809	3,254,163	60,402,501
2009 Nov	2,645,895	2,344,777	4,990,671	61,088,531
2009 Dec	2,974,767	2,930,372	5,905,138	61,302,283
2010 Jan	3,136,625	2,890,512	6,027,137	61,564,028
2010 Feb	2,659,440	2,600,869	5,260,309	61,766,062
2010 Mar	0	2,930,878	2,930,878	61,174,209
2010 Apr	309,811	2,685,367	2,995,178	61,186,312
2010 May	2,898,330	2,961,085	5,859,415	61,747,496
2010 Jun	3,010,194	2,978,697	5,988,892	61,813,671
2010 Jul	3,042,138	3,062,388	6,104,526	61,869,836
2010 Aug	2,673,121	2,657,395	5,330,515	61,516,323
2010 Sep	2,267,122	2,583,498	4,850,620	60,963,737
2010 Oct	2,442,081	429,989	2,872,069	60,744,078
2010 Nov	2,570,064	2,396,423	4,966,487	60,634,387
2010 Dec	2,960,318	2,707,757	5,668,075	60,566,879
2011 Jan	2,493,738	2,493,738	4,987,476	60,275,386
2011 Feb	2,065,023	2,065,023	4,130,046	59,716,161
2011 Mar	2,075,214	2,075,214	4,150,428	59,031,496
2011 Apr	2,225,409	2,225,409	4,450,818	58,729,972
2011 May	2,265,613	2,265,613	4,531,226	58,515,571
2011 Jun	2,351,069	2,351,069	4,702,137	58,153,004
2011 Jul	1,832,634	1,929,356	3,761,990	57,418,843
2011 Aug	1,718,735	1,840,519	3,557,254	56,246,691

	NOx Unit 1 Monthly Emissions (tons)	NOx Unit 2 Monthly Emissions (tons)	NOx Total Monthly Emissions (tons)	NOx 24-Mon Ann Rolling Avg (tons)	SO2 Unit 1 Monthly Emissions (tons)	SO2 Unit 2 Monthly Emissions (tons)	SO2 Total Monthly Emissions (tons)	SO2 24-Mon Ann Rolling Avg (tons)
2006 Sep	600.38	225.91	826.30		529.00	224.51	753.52	
2006 Oct	114.76	265.24	380.01		106.05	255.56	361.61	
2006 Nov	423.34	272.35	695.69		495.69	248.42	744.11	
2006 Dec	568.54	258.94	827.47		547.34	215.97	763.30	
2007 Jan	595.44	238.51	833.95		589.09	251.37	840.46	
2007 Feb	560.47	150.86	711.34		416.04	126.32	542.35	
2007 Mar	702.86	0.00	702.86		511.37	0.00	511.37	
2007 Apr	627.24	160.48	787.72		411.94	130.97	542.92	
2007 May	558.97	267.78	826.75		394.41	212.26	606.66	
2007 Jun	538.52	234.58	773.09		379.82	195.65	575.47	
2007 Jul	590.71	268.00	858.71		435.20	171.12	606.33	
2007 Aug	600.49	265.03	865.51		493.43	149.50	642.93	
2007 Sep	550.72	265.92	816.63		421.34	168.75	590.09	
2007 Oct	235.43	259.44	494.87		172.02	165.16	337.17	
2007 Nov	87.31	243.31	330.62		57.74	131.58	189.32	
2007 Dec	520.71	238.62	759.33		328.23	154.62	482.85	
2008 Jan	504.28	237.54	741.82		332.82	228.65	561.47	
2008 Feb	494.69	192.88	687.57		381.27	183.21	564.47	
2008 Mar	631.10	113.50	744.60		382.76	96.81	479.57	
2008 Apr	642.92	0.00	642.92		508.50	0.00	508.50	
2008 May	680.06	120.13	800.18		439.75	113.24	552.99	
2008 Jun	586.65	217.73	804.37		453.77	212.31	666.08	
2008 Jul	639.72	231.02	870.74		310.37	233.19	543.57	
2008 Aug	558.36	245.81	804.17	8,793.60	349.23	236.30	585.53	6,776.32
2008 Sep	567.42	258.62	826.04	8,793.48	291.96	271.17	563.13	6,681.12
2008 Oct	0.00	271.73	271.73	8,739.34	0.00	273.83	273.83	6,637.23
2008 Nov	289.58	253.80	543.38	8,663.18	266.36	182.36	448.72	6,489.53
2008 Dec	427.38	234.00	661.38	8,580.13	334.33	140.44	474.77	6,345.27
2009 Jan	434.94	218.67	653.61	8,489.97	269.38	132.26	401.64	6,125.86
2009 Feb	399.94	205.13	605.07	8,436.83	380.18	192.05	572.23	6,140.79
2009 Mar	397.20	227.72	624.92	8,397.86	350.57	223.41	573.98	6,172.10
2009 Apr	387.56	196.22	583.78	8,295.89	177.72	149.16	326.88	6,064.08
2009 May	375.06	196.65	571.71	8,168.37	166.33	96.74	263.07	5,892.28
2009 Jun	433.73	201.01	634.74	8,099.19	173.68	146.33	320.01	5,764.55
2009 Jul	349.63	223.83	573.46	7,956.57	177.48	240.19	417.67	5,670.22
2009 Aug	456.38	235.81	692.19	7,869.91	190.25	240.32	430.57	5,564.04
2009 Sep	397.73	230.11	627.84	7,775.51	145.06	177.43	322.50	5,430.25
2009 Oct	513.72	14.04	527.76	7,791.95	170.82	11.50	182.31	5,352.82
2009 Nov	423.93	189.47	613.40	7,933.34	174.10	166.42	340.52	5,428.42
2009 Dec	459.82	233.65	693.46	7,900.41	214.70	230.93	445.63	5,409.81
2010 Jan	482.17	230.54	712.71	7,885.86	331.52	269.29	600.81	5,429.48
2010 Feb	420.69	206.45	627.14	7,855.65	245.53	160.51	406.04	5,350.26
2010 Mar	0.00	223.63	223.63	7,595.16	0.00	142.63	142.63	5,181.79
2010 Apr	39.61	225.54	265.15	7,408.26	31.99	208.90	240.89	5,047.98
2010 May	416.06	231.11	647.17	7,329.77	269.28	213.58	482.87	5,012.92
2010 Jun	445.90	230.55	676.44	7,265.80	278.79	220.82	499.61	4,929.68
2010 Jul	446.72	234.44	681.16	7,171.01	331.07	226.87	557.94	4,936.87
2010 Aug	398.97	205.57	604.54	7,071.20	219.22	185.86	405.08	4,846.64
2010 Sep	341.99	199.91	541.90	6,929.13	95.11	101.66	196.77	4,663.46
2010 Oct	326.85	33.22	360.07	6,973.30	156.59	21.55	178.13	4,615.62
2010 Nov	362.80	185.53	548.33	6,975.76	229.16	168.83	397.99	4,590.25
2010 Dec	425.53	210.75	636.29	6,963.23	217.31	161.06	378.37	4,542.05
2011 Jan	339.75	191.74	531.49	6,902.17	156.97	133.60	290.57	4,486.52
2011 Feb	202.86	159.11	361.98	6,780.62	108.16	85.96	194.12	4,297.47
2011 Mar	0.04	158.72	158.76	6,547.54	0.04	45.17	45.21	4,033.08
2011 Apr	244.18	171.75	415.92	6,463.62	141.14	47.57	188.72	3,964.00
2011 May	322.95	176.77	499.72	6,427.62	138.76	71.97	210.73	3,937.83
2011 Jun	266.71	184.37	451.08	6,335.79	119.66	77.72	197.37	3,876.51
2011 Jul	391.00	207.00	598.00	6,348.06	134.00	88.00	222.00	3,778.66
2011 Aug	367.00	204.00	571.00	6,287.47	151.00	129.00	280.00	3,703.39

	CO Unit 1 Monthly Emissions (tons)	CO Unit 2 Monthly Emissions (tons)	CO Total Monthly Emissions (tons)	CO 24-Mon Ann Rolling Avg (tons)	VOC Unit 1 Monthly Emissions (tons)	VOC Unit 2 Monthly Emissions (tons)	VOC Total Monthly Emissions (tons)	VOC 24-Mon Ann Rolling Avg (tons)
2006 Sep	28.17	31.86	60.04		4.19	1.38	5.58	
2006 Oct	5.59	36.78	42.37		0.83	1.60	2.43	
2006 Nov	22.53	37.60	60.13		3.35	1.63	4.99	
2006 Dec	28.56	36.18	64.74		4.25	1.57	5.82	
2007 Jan	28.71	34.00	62.71		4.21	1.53	5.74	
2007 Feb	24.49	21.32	45.81		3.59	0.96	4.55	
2007 Mar	29.92	0.00	29.92		4.38	0.00	4.38	
2007 Apr	28.25	22.99	51.25		4.14	1.04	5.18	
2007 May	29.51	38.29	67.80		4.32	1.73	6.05	
2007 Jun	29.40	33.39	62.79		4.31	1.51	5.81	
2007 Jul	31.31	38.04	69.35		4.59	1.71	6.30	
2007 Aug	30.94	37.58	68.52		4.53	1.69	6.23	
2007 Sep	30.20	37.49	67.69		4.42	1.69	6.11	
2007 Oct	12.02	36.87	48.89		1.76	1.66	3.42	
2007 Nov	6.64	34.15	40.79		0.97	1.54	2.51	
2007 Dec	24.53	33.85	58.38		3.59	1.53	5.12	
2008 Jan	24.83	28.85	53.68		2.98	1.46	4.44	
2008 Feb	23.77	23.50	47.27		2.86	1.19	4.04	
2008 Mar	27.32	12.37	39.69		3.28	0.62	3.91	
2008 Apr	28.23	0.00	28.23		3.39	0.00	3.39	
2008 May	30.37	15.38	45.75		3.65	0.78	4.43	
2008 Jun	28.91	28.09	57.00		3.48	1.42	4.89	
2008 Jul	30.16	28.13	58.29		3.63	1.42	5.05	
2008 Aug	28.69	30.13	58.81	644.94	3.45	1.52	4.97	57.67
2008 Sep	26.84	31.25	58.09	643.97	3.23	1.58	4.80	57.29
2008 Oct	0.00	33.05	33.05	639.31	0.00	1.67	1.67	56.91
2008 Nov	19.93	30.83	50.76	634.62	2.40	1.56	3.95	56.39
2008 Dec	28.18	28.32	56.50	630.50	3.39	1.43	4.82	55.89
2009 Jan	90.34	93.14	183.48	690.89	3.32	1.32	4.64	55.34
2009 Feb	83.84	89.26	173.09	754.53	3.08	1.28	4.35	55.24
2009 Mar	84.69	97.94	182.63	830.88	3.12	1.39	4.50	55.30
2009 Apr	81.51	85.03	166.54	888.53	3.00	1.20	4.20	54.81
2009 May	77.46	86.41	163.88	936.56	2.85	1.22	4.07	53.82
2009 Jun	89.14	89.44	178.58	994.48	3.28	1.26	4.54	53.19
2009 Jul	74.10	99.99	174.08	1,046.83	2.73	1.41	4.14	52.11
2009 Aug	90.24	105.07	195.31	1,110.22	3.32	1.49	4.81	51.39
2009 Sep	74.13	99.51	173.64	1,163.20	2.73	1.41	4.13	50.40
2009 Oct	94.13	6.09	100.22	1,188.86	3.46	0.09	3.55	50.47
2009 Nov	80.77	83.64	164.41	1,250.67	2.97	1.18	4.15	51.29
2009 Dec	90.81	104.53	195.34	1,319.16	3.34	1.48	4.82	51.14
2010 Jan	113.61	63.07	176.67	1,380.65	3.57	1.44	5.00	51.42
2010 Feb	96.32	56.75	153.07	1,433.55	3.02	1.29	4.32	51.56
2010 Mar	0.00	63.95	63.95	1,445.68	0.00	1.46	1.46	50.33
2010 Apr	11.22	58.59	69.81	1,466.47	0.35	1.34	1.69	49.48
2010 May	104.97	64.61	169.58	1,528.39	3.29	1.47	4.77	49.65
2010 Jun	109.03	64.99	174.02	1,586.90	3.42	1.48	4.90	49.66
2010 Jul	110.18	66.82	177.00	1,646.26	3.46	1.52	4.98	49.63
2010 Aug	96.82	57.98	154.80	1,694.25	3.04	1.32	4.36	49.32
2010 Sep	62.11	56.37	138.48	1,734.44	2.58	1.29	3.86	48.65
2010 Oct	88.45	9.38	97.83	1,766.83	2.78	0.21	2.99	49.51
2010 Nov	93.09	52.29	145.37	1,814.14	2.92	1.19	4.11	49.59
2010 Dec	107.22	59.08	166.30	1,869.04	3.36	1.35	4.71	49.54
2011 Jan	76.10	57.30	133.40	1,844.00	1.85	0.99	2.83	48.64
2011 Feb	30.00	55.87	85.87	1,800.39	1.00	0.81	1.81	47.37
2011 Mar	0.00	50.85	50.85	1,734.50	0.00	0.80	0.80	45.52
2011 Apr	78.30	45.34	123.64	1,713.05	1.44	0.85	2.29	44.56
2011 May	40.30	38.89	79.19	1,670.71	1.72	0.82	2.55	43.80
2011 Jun	48.70	57.77	106.47	1,634.66	1.73	0.85	2.58	42.82
2011 Jul	84.90	66.57	151.47	1,623.35	2.16	0.97	3.13	42.31
2011 Aug	119.80	79.23	199.03	1,625.21	2.02	0.93	2.94	41.38

	PM Unit 1 Monthly Emissions (tons)	PM Unit 2 Monthly Emissions (tons)	PM Total Monthly Emissions (tons)	PM 24-Mon Ann Rolling Avg. (tons)	PM10 Unit 1 Monthly Emissions (tons)	PM10 Unit 2 Monthly Emissions (tons)	PM10 Total Monthly Emissions (tons)	PM10 24-Mon Ann Rolling Avg (tons)
2006 Sep	28.68	23.32	52.00		28.68	23.32	52.00	
2006 Oct	5.69	26.92	32.61		5.69	26.92	32.61	
2006 Nov	22.94	27.52	50.46		22.94	27.52	50.46	
2006 Dec	29.08	26.48	55.56		29.07	26.48	55.56	
2007 Jan	22.36	36.38	58.74		22.35	36.38	58.73	
2007 Feb	19.07	22.81	41.88		19.07	22.81	41.88	
2007 Mar	23.30	0.00	23.30		23.30	0.00	23.30	
2007 Apr	22.00	24.60	46.61		22.00	24.60	46.60	
2007 May	22.98	40.97	63.95		22.98	40.97	63.95	
2007 Jun	22.89	35.73	58.62		22.89	35.72	58.62	
2007 Jul	24.39	40.70	65.08		24.38	40.70	65.08	
2007 Aug	24.09	40.21	64.31		24.09	40.21	64.30	
2007 Sep	23.52	40.11	63.63		23.52	40.11	63.62	
2007 Oct	9.36	39.45	48.81		9.36	39.45	48.81	
2007 Nov	5.17	36.54	41.71		5.17	36.54	41.71	
2007 Dec	19.10	36.22	55.32		19.10	36.21	55.31	
2008 Jan	21.80	25.38	47.18		19.36	22.53	41.89	
2008 Feb	20.87	20.67	41.54		18.53	18.35	36.88	
2008 Mar	23.98	10.88	34.87		21.29	9.66	30.96	
2008 Apr	24.78	0.00	24.78		22.01	0.00	22.01	
2008 May	26.66	13.53	40.19		23.67	12.01	35.68	
2008 Jun	25.38	24.71	50.09		22.54	21.93	44.47	
2008 Jul	26.48	24.75	51.22		23.51	21.97	45.48	
2008 Aug	25.18	26.50	51.69	582.07	22.36	23.53	45.89	562.89
2008 Sep	23.56	27.49	51.05	581.60	20.92	24.40	45.33	559.55
2008 Oct	0.00	29.08	29.08	579.83	0.00	25.81	25.81	556.15
2008 Nov	17.49	27.12	44.61	576.91	15.53	24.07	39.61	550.73
2008 Dec	24.74	24.91	49.65	573.95	21.97	22.12	44.08	544.99
2009 Jan	23.06	23.00	46.07	567.62	20.48	20.44	40.93	538.09
2009 Feb	21.40	22.05	43.45	568.40	19.01	19.59	38.60	534.44
2009 Mar	21.62	24.19	45.81	579.65	19.20	21.50	40.70	543.15
2009 Apr	20.81	21.00	41.81	577.26	18.48	18.66	37.14	538.42
2009 May	19.77	21.34	41.12	565.84	17.56	18.97	36.53	524.71
2009 Jun	22.75	22.09	44.84	558.95	20.21	19.63	39.84	515.32
2009 Jul	18.92	24.70	43.61	548.21	16.80	21.95	38.75	502.15
2009 Aug	23.04	25.95	48.99	540.55	20.46	23.06	43.52	491.76
2009 Sep	18.92	24.58	43.50	530.49	16.80	21.84	38.65	479.27
2009 Oct	24.03	1.50	25.53	518.85	21.34	1.34	22.68	466.21
2009 Nov	20.62	20.66	41.28	518.63	18.31	18.36	36.67	463.69
2009 Dec	23.18	25.82	49.00	515.47	20.59	22.94	43.53	457.80
2010 Jan	26.34	37.25	63.59	523.68	23.38	33.50	56.89	465.30
2010 Feb	22.33	33.52	55.85	530.83	19.83	30.15	49.97	471.85
2010 Mar	0.00	37.77	37.77	532.29	0.00	33.97	33.97	473.35
2010 Apr	2.60	34.61	37.21	538.50	2.31	31.13	33.43	479.07
2010 May	24.34	38.16	62.50	549.66	21.61	34.32	55.93	489.19
2010 Jun	25.27	38.39	63.66	556.44	22.44	34.52	56.97	495.44
2010 Jul	25.54	39.47	65.01	563.34	22.68	35.49	58.18	501.79
2010 Aug	22.44	34.25	56.69	565.84	19.93	30.80	50.73	504.21
2010 Sep	19.04	33.30	52.33	566.48	16.90	29.94	46.85	504.97
2010 Oct	20.50	5.54	26.05	564.96	18.21	4.98	23.19	503.66
2010 Nov	21.58	30.88	52.46	568.89	19.16	27.78	46.94	507.32
2010 Dec	24.86	34.90	59.75	573.94	22.07	31.38	53.45	512.01
2011 Jan	15.51	23.57	39.08	570.45	13.39	21.64	35.03	509.06
2011 Feb	8.23	19.28	27.51	562.48	7.10	17.71	24.81	502.17
2011 Mar	0.00	18.98	18.98	549.07	0.00	17.43	17.43	490.54
2011 Apr	11.45	20.35	31.81	544.06	9.89	18.69	28.58	488.26
2011 May	14.15	19.64	33.79	540.40	12.22	18.04	30.25	483.12
2011 Jun	14.20	20.48	34.68	535.32	12.26	18.81	31.07	478.73
2011 Jul	17.72	23.27	40.99	534.01	15.30	21.37	36.67	477.69
2011 Aug	16.47	22.17	38.64	528.83	14.23	20.35	34.59	473.23

	PM2.5 Unit 1 Monthly Emissions (tons)	PM2.5 Unit 2 Monthly Emissions (tons)	PM2.5 Total Monthly Emissions (tons)	PM2.5 24-Mon Ann Rolling Avg. (tons)	H2SO4 Unit 1 Monthly Emissions (tons)	H2SO4 Unit 2 Monthly Emissions (tons)	H2SO4 Total Monthly Emissions (tons)	H2SO4 24-Mon Ann Rolling Avg. (tons)	CO2 Unit 1 Monthly Emissions (tons)	CO2 Unit 2 Monthly Emissions (tons)	CO2 Total Monthly Emissions (tons)	CO2 24-Mon Ann Rolling Avg. (tons)
2006 Sep	18.61	17.68	36.29		17.00	15.96	32.96		302,275	284,832	587,108	
2006 Oct	3.69	20.41	24.10		3.37	18.42	21.79		59,952	328,798	388,750	
2006 Nov	14.88	20.87	35.75		13.60	18.83	32.43		241,740	336,109	577,850	
2006 Dec	18.86	20.08	38.94		17.24	18.12	35.35		306,450	323,422	629,872	
2007 Jan	19.13	18.98	38.11		17.44	17.16	34.60		310,289	298,228	608,517	
2007 Feb	16.32	11.90	28.22		14.88	10.76	25.64		264,722	186,986	451,708	
2007 Mar	19.93	0.00	19.93		18.18	0.00	18.18		323,374	0	323,374	
2007 Apr	18.83	12.84	31.66		17.17	11.60	28.77		305,406	201,684	507,091	
2007 May	19.66	21.37	41.04		17.93	19.32	37.25		318,993	335,850	654,843	
2007 Jun	19.59	18.64	38.23		17.86	16.85	34.71		317,762	292,867	610,629	
2007 Jul	20.87	21.23	42.10		19.03	19.19	38.22		338,470	333,624	672,094	
2007 Aug	20.62	20.98	41.60		18.80	18.96	37.76		334,416	329,645	664,061	
2007 Sep	20.12	20.93	41.05		18.35	18.92	37.27		326,433	328,800	655,233	
2007 Oct	8.01	20.58	28.59		7.30	18.61	25.91		129,877	323,409	453,286	
2007 Nov	4.42	19.06	23.49		4.03	17.23	21.27		71,749	299,519	371,268	
2007 Dec	16.34	18.89	35.24		14.91	17.08	31.98		265,137	296,868	562,005	
2008 Jan	16.54	19.25	35.79		14.82	17.28	32.10		268,111	296,563	564,675	
2008 Feb	15.84	15.68	31.52		14.19	14.07	28.26		256,734	241,518	498,251	
2008 Mar	18.20	8.26	26.46		16.30	7.41	23.71		294,971	127,185	422,156	
2008 Apr	18.81	0.00	18.81		16.85	0.00	16.85		304,821	0	304,821	
2008 May	20.23	10.26	30.50		18.12	9.21	27.34		327,920	158,102	486,022	
2008 Jun	19.26	18.74	38.00		17.25	16.82	34.08		312,188	288,692	600,880	
2008 Jul	20.10	18.77	38.86		18.00	16.85	34.85		325,656	289,142	614,798	
2008 Aug	19.11	20.10	39.21	401.74	17.12	18.05	35.17	363.23	309,765	309,683	619,449	6,414,369
2008 Sep	17.88	20.85	38.73	402.97	16.02	18.72	34.74	364.12	289,832	321,227	611,059	6,426,345
2008 Oct	0.00	22.05	22.05	401.94	0.00	19.80	19.80	363.12	0	339,739	339,739	6,401,839
2008 Nov	13.28	20.57	33.85	400.99	11.89	18.47	30.36	362.09	215,164	316,900	532,064	6,378,946
2008 Dec	18.78	18.89	37.67	400.35	16.82	16.97	33.78	361.30	304,277	291,116	595,393	6,361,707
2009 Jan	17.51	17.44	34.96	398.78	15.62	15.65	31.28	359.64	303,639	267,889	571,528	6,343,212
2009 Feb	16.25	16.72	32.97	401.15	14.50	15.00	29.50	361.57	281,769	256,724	538,494	6,386,605
2009 Mar	16.42	18.34	34.76	408.56	14.64	16.46	31.10	368.03	284,619	281,712	566,331	6,508,084
2009 Apr	15.80	15.92	31.72	408.59	14.09	14.29	28.39	367.84	273,960	244,570	518,529	6,513,803
2009 May	15.02	16.18	31.20	403.67	13.39	14.52	27.92	363.17	260,346	248,554	508,899	6,440,831
2009 Jun	17.28	16.75	34.03	401.57	15.41	15.03	30.45	361.04	299,578	257,258	556,836	6,413,934
2009 Jul	14.36	18.73	33.09	397.07	12.81	16.81	29.62	356.74	249,047	287,586	536,633	6,346,204
2009 Aug	17.49	19.68	37.17	394.85	15.60	17.66	33.26	354.48	303,293	302,207	605,500	6,316,923
2009 Sep	14.37	18.64	33.01	390.83	12.82	16.73	29.54	350.62	249,141	286,218	535,359	6,256,986
2009 Oct	18.25	1.14	19.39	386.23	16.27	1.02	17.30	346.32	316,350	17,525	333,875	6,197,281
2009 Nov	15.66	15.66	31.32	390.15	13.97	14.06	28.02	349.70	271,468	240,574	512,042	6,267,668
2009 Dec	17.60	19.58	37.18	391.12	15.70	17.57	33.27	350.34	305,212	300,656	605,867	6,289,599
2010 Jan	19.99	29.19	49.17	397.81	17.88	17.04	34.92	351.75	321,817	296,567	618,383	6,316,453
2010 Feb	16.95	26.26	43.21	403.65	15.16	15.33	30.49	352.86	272,859	266,848	539,707	6,337,181
2010 Mar	0.00	29.59	29.59	405.22	0.00	17.28	17.28	349.64	0	300,708	300,708	6,276,458
2010 Apr	1.97	27.11	29.09	410.36	1.77	15.83	17.60	350.02	31,786	275,520	307,307	6,277,701
2010 May	18.47	29.90	48.37	419.30	16.52	17.46	33.98	353.34	297,366	303,807	601,174	6,335,276
2010 Jun	19.18	30.08	49.26	424.93	17.16	17.56	34.72	353.66	308,846	305,615	614,461	6,342,067
2010 Jul	19.39	30.92	50.31	430.65	17.34	18.05	35.39	353.93	312,122	314,201	626,323	6,347,830
2010 Aug	17.03	26.83	43.87	432.98	15.24	15.67	30.90	351.80	274,260	272,647	546,908	6,311,559
2010 Sep	14.45	26.09	40.53	433.87	12.92	15.23	28.15	348.50	232,607	265,068	497,675	6,254,667
2010 Oct	15.56	4.34	19.90	432.80	13.92	2.53	16.45	346.83	250,555	44,116	294,672	6,232,334
2010 Nov	16.38	24.20	40.57	436.16	14.65	14.13	28.78	346.04	263,689	245,873	509,562	6,221,083
2010 Dec	18.86	27.34	46.20	440.43	16.87	15.96	32.84	345.56	303,729	277,814	581,544	6,214,158
2011 Jan	10.95	19.42	30.38	438.14	9.39	11.67	21.06	340.46	237,685	255,857	493,543	6,175,165
2011 Feb	5.81	15.89	21.70	432.51	4.98	9.55	14.53	332.97	149,002	211,870	360,872	6,086,354
2011 Mar	0.00	15.65	15.65	422.96	0.00	9.39	9.39	322.12	47	212,919	212,965	5,909,671
2011 Apr	8.09	16.78	24.86	419.52	6.93	10.08	17.01	316.43	180,871	228,325	409,197	5,855,005
2011 May	9.99	16.19	26.18	417.01	8.57	9.73	18.30	311.62	219,994	232,450	452,444	5,826,778
2011 Jun	10.03	16.88	26.90	413.45	8.59	10.16	18.75	305.77	215,656	241,220	456,876	5,776,798
2011 Jul	12.52	19.18	31.70	412.76	10.70	11.54	22.24	302.08	188,028	197,952	385,980	5,701,471
2011 Aug	11.65	18.27	29.92	409.13	9.94	10.99	20.92	295.91	176,137	188,837	364,974	5,581,209

Max 24-Month Rolling Average (BAE	NOx	SO2	CO	VOC	PM	PM10	PM2.5	H2SO4	CO2
	8,793.60	6,776.32	1,869.04	57.67	582.07	562.89	440.43	368.03	6,513,803

Appendix B
Application Forms

Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

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

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

Air Operation Permit – Use this form to apply for:

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

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: 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? Yes √ No
6. Existing Title V Permitted Facility? √ Yes No

Application Contact

1. Application Contact Name: David R. Báez, Project Engineer, 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) 434-3072 ext. Fax: (407) 244-8794
4. Application Contact E-mail Address: dbaez@ouc.com

Application Processing Information (DEP Use)

1. Date of Receipt of Application:
2. Project Number(s): 0950137-039-AC
3. PSD Number (if applicable):
4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

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

Air Construction Permit

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

Air Operation Permit

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

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

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

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

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

Application Comment

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
1	Fossil Fuel Steam Generation Unit No. 1	ACM1	
2	Fossil Fuel Steam Generation Unit No. 2	ACM1	

Application Processing Fee

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

APPLICATION INFORMATION

Owner/Authorized Representative Statement

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

1. Owner/Authorized Representative Name :
   Jan C. Aspuru, VP, Power Resources
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) 434 - 3135 ext. Fax: (407) 275 - 4120
4. Owner/Authorized Representative E-mail Address: jaspuru@ouc.com
5. Owner/Authorized Representative Statement:

   I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.

Signature

Date 10/10/11

APPLICATION INFORMATION

Application Responsible Official Certification

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

1. Application Responsible Official Name:

2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):

- ☐ For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.
- ☐ For a partnership or sole proprietorship, a general partner or the proprietor, respectively.
- ☐ For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.
- ☐ The designated representative at an Acid Rain source or CAIR source.

3. Application Responsible Official Mailing Address...
Organization/Firm:
Street Address:
City: State: Zip Code:

4. Application Responsible Official Telephone Numbers...
Telephone: ( ) - ext. Fax: ( ) -

5. Application Responsible Official E-mail Address:

6. Application Responsible Official Certification:

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

Signature Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Larry Todd Newland
   Registration Number: 64188
2. Professional Engineer Mailing Address...
   Organization/Firm: Black & Veatch
   Street Address: 9000 Regency Parkway, Suite 300
   City: Cary State: NC Zip Code: 27518
3. Professional Engineer Telephone Numbers...
   Telephone: (919) 462-7415 ext. Fax: (919) 468-9212
4. Professional Engineer E-mail Address: newlandlt@bv.com
5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

(3) If the purpose of this application is to obtain a Title V air operation permit (check here ☐, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.

(4) If the purpose of this application is to obtain an air construction permit (check here ☑, 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 ☐, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature (seal) 10.6.11 Date

* 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
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: David R. Báez, Project Engineer, Environmental Affairs
2. Facility Contact Mailing Address... Organization/Firm: Orlando Utilities Commission Street Address: P.O. Box 3193 City: Orlando State: FL Zip Code: 32802
3. Facility Contact Telephone Numbers: Telephone: (407) 434 - 3072 ext. Fax: (407) 244 - 8794
4. Facility Contact E-mail Address: dbaez@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: City: State: Zip Code:
3. Facility Primary Responsible Official Telephone Numbers... Telephone: ( ) - ext. Fax: ( ) -
4. Facility Primary Responsible Official E-mail 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. ☐ Small Business Stationary Source	☐ Unknown
2. ☐ Synthetic Non-Title V Source	
3. ☑ Title V Source	
4. ☑ Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. ☐ Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. ☑ Major Source of Hazardous Air Pollutants (HAPs)	
7. ☐ Synthetic Minor Source of HAPs	
8. ☑ One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. ☐ One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. ☐ One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. ☐ 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	N
PM	A	N
VOC	A	N
PM10	A	N
PB	A	N

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's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap

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

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)
   [√] Attached, Document ID: Attach. A [ ] 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)
   [√] Attached, Document ID: Attach. B [ ] 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)
   [√] Attached, Document ID: Attach. C [ ] Previously Submitted, Date:_____

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location:
   [ ] Attached, Document ID:_____ [√] Not Applicable (existing permitted facility)

2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL):
   [√] Attached, Document ID: Attach. D

3. Rule Applicability Analysis:
   [√] Attached, Document ID: Attach. E

4. List of Exempt Emissions Units:
   [√] Attached, Document ID: Attach. F [ ] Not Applicable (no exempt units at facility)

5. Fugitive Emissions Identification:
   [√] Attached, Document ID: Attach. G [ ] Not Applicable

6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.):
   [ ] Attached, Document ID:_____ [√] Not Applicable

7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.):
   [ ] Attached, Document ID:_____ [√] Not Applicable

8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):
   [ ] Attached, Document ID:_____ [√] Not Applicable

9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):
   [ ] Attached, Document ID:_____ [√] Not Applicable

10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):
    [ ] Attached, Document ID:_____ [√] Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

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

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities: (Required for initial/renewal applications only)
   ☐ Attached, Document ID:_____ ☐ Not Applicable (revision application)

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

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

4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only)
   ☐ Attached, Document ID:_____
   ☐ Equipment/Activities Onsite but Not Required to be Individually Listed
   ☐ Not Applicable

5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)
   ☐ Attached, Document ID:_____ ☐ Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:
   ☐ Attached, Document ID:_____ ☐ Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

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

1. Acid Rain Program Forms:

   Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):
   ☐ Attached, Document ID:_____ ☑ Previously Submitted, Date:5/21/2009
   ☐ Not Applicable (not an Acid Rain source)

   Phase II NO_X Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☑ Not Applicable

   New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☑ Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):
   ☐ Attached, Document ID:_____ ☑ Previously Submitted, Date5/21/2009
   ☐ Not Applicable (not a CAIR source)

Additional Requirements Comment

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [2]

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:
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. Federal Program Applicability: (Check all that apply)

☑ Acid Rain Unit

☑ CAIR Unit

9. Package Unit:
Manufacturer: Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION
Section [1] of [2]

Emissions Unit Control Equipment/Method: Control 1 of 2

1. Control Equipment/Method Description: Gas Scrubber for SO2 control
2. Control Device or Method Code: 013

Emissions Unit Control Equipment/Method: Control 2 of 2

1. Control Equipment/Method Description: Electrostatic Precipitator - High Efficiency
2. Control Device or Method Code: 010

Emissions Unit Control Equipment/Method: Control 3 of 3

1. Control Equipment/Method Description: Low NOx Burners with Overfire Air
2. Control Device or Method Code: 204/205

Emissions Unit Control Equipment/Method: Control __ of __

1. Control Equipment/Method Description:
2. Control Device or Method Code:

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 4,800 MMBtu/hr	
2. Maximum Production Rate: 465 MW	
3. Maximum Heat Input Rate: 4,800 million Btu/hr	
4. Maximum Incineration Rate: pounds/hr tons/day	
5. Requested Maximum Operating Schedule: 24 hours/day 52 weeks/year	 7 days/week 8760 hours/year
6. Operating Capacity/Schedule Comment:	

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 [2]

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:		

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.		

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

Segment Description and Rate: Segment 5 of 5

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100601	3. SCC Units: Million Cubic Feet Gas Burned	
4. Maximum Hourly Rate: TBD	5. Maximum Annual Rate: TBD	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: TBD	8. Maximum % Ash: TBD	9. Million Btu per SCC Unit: TBD
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:		

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	**205/204**		**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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control:
3. Potential Emissions: 771.5 lb/hour 3379.2 tons/year	4. Synthetically Limited? ☐ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.18 lb/mmBtu burned Reference: Vendor guarantee	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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: (4286 tpy) x (0.18 lb/mmBtu) = 771.5 lb/hr (4286 tpy) x (0.18 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 3379.2 tpy	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 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:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.18 lb/mmBtu	4. Equivalent Allowable Emissions: 771.5 lb/hour 3379.2 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emission value is based on vendor guarantee from Low NOx Burner/Overfire Air system installation.	

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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NOX - Nitrogen Oxides	2. Total Percent Efficiency of Control: 60
3. Potential Emissions: 2572 lb/hour 8635 tons/year	4. Synthetically Limited? ☐ Yes ☐ 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) 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: ☐ 5 years ☐ 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:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 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 Subsection F2 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 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 Subsection F2 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 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 Subsection F2 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2 - Sulfur Dioxide	2. Total Percent Efficiency of Control:
3. Potential Emissions: 4886 lb/hour 21401 tons/year	4. Synthetically Limited? ☐ Yes ☐ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: (4286 mmBtu/hr) x (1.14 lb/mmBtu) = 4886 lb/hr (4286 mmBtu/hr) x (1.14 lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 21401 tpy	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 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):	

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G 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: ☑ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance: COMS	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation __ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1 of 8

1. Parameter Code: VE	2. Pollutant(s): Opacity
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: Light Hawk 560	Serial Number: 56000377/378
5. Installation Date:	6. Performance Specification Test Date: 1/16/2004
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 2 of 8

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: TML9850	Serial Number: S/N 745
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 3 of 8

1. Parameter Code: 02	2. Pollutant(s): SO2
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: SERVOMEX LTD. Model Number: 1400	Serial Number: 1420C/1013
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 4 of 8

1. Parameter Code: EM - EMISSION	2. Pollutant(s): SO2
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: TML9850	Serial Number: S/N 363
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION
Section [1] of [2]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 5 of 8

1. Parameter Code: CO2	2. Pollutant(s): CO2
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: MONITOR LABS Model Number: TML9820	Serial Number: S/N 76
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION
Section [1] of [2]

Continuous Monitoring System: Continuous Monitor 6 of 8

1. Parameter Code: FLOW	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: EMRC-DP7 Model Number: CM60	Serial Number: S/N 460
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 7 of 8

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: TML 9841	Serial Number: N0373
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 8 of 8

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION
Section [1] of [2]

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: Attach. B [ ] 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

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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)): ☐ Attached, Document ID: _____ ☑ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): ☐ Attached, Document ID: _____ ☑ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) ☐ Attached, Document ID: _____ ☑ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: ☐ Attached, Document ID: _____
2. Compliance Assurance Monitoring: ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Alternative Methods of Operation: ☐ Attached, Document ID: _____ ☐ Not Applicable
4. Alternative Modes of Operation (Emissions Trading): ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements Comment

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [2]

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:
Pulverized Coal Fired Unit No. 2 (460 MW gross)

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:
A		29-MAR-96	49

8. Federal Program Applicability: (Check all that apply)

☑ Acid Rain Unit

☑ CAIR Unit

9. Package Unit:
Manufacturer: Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION
Section [2] of [2]

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description: Electrostatic Precipitator – High Efficiency
2. Control Device or Method Code: 016, ,

Emissions Unit Control Equipment/Method: Control 2 of 2

1. Control Equipment/Method Description: SCR (Selective Catalytic Reduction
2. Control Device or Method Code: 139

Emissions Unit Control Equipment/Method: Control 3 of 3

1. Control Equipment/Method Description: Gas Scrubber for SO2 control
2. Control Device or Method Code: 013

Emissions Unit Control Equipment/Method: Control 4 of 4

1. Control Equipment/Method Description: Low NOx Burner/Overfire Air
2. Control Device or Method Code:205/204

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 4,800 MMBtu/hr	
2. Maximum Production Rate: 465 MW	
3. Maximum Heat Input Rate: 4,800 million Btu/hr	
4. Maximum Incineration Rate: pounds/hr tons/day	
5. Requested Maximum Operating Schedule: 24 hours/day 52 weeks/year	 7 days/week 8760 hours/year
6. Operating Capacity/Schedule Comment:	

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: 1,310,120 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:		

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:	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:		

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: Used oil specification: Arsenic 5 PPM, Cadmium 2 PPM, Chromium 10 PPM, Lead 100 PPM, Total Halogens 1000 PPM, PCB 50 ppm.		

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

Segment Description and Rate: Segment 5 of 5

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC): 10100601	3. SCC Units: Million Cubic Feet Gas Burned	
4. Maximum Hourly Rate: TBD	5. Maximum Annual Rate: TBD	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: TBD	8. Maximum % Ash: TBD	9. Million Btu per SCC Unit: TBD
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:		

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**	**205/204**	**EL**
PB			**EL**
PM	**010**		**EL**
PM10	**010**		**NS**
SO2	**001**		**EL**
VOC			**EL**

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 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 Subsection F2 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 2815.9 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 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:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 1.5 x 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: (4286 mmBtu/hr) x (1.5 x 10^{-4} lb/mmBtu) = 0.64 lb/hr (4286 mmBtu/hr) x (1.5 x 10^{-4} lb/mmBtu) x (8760 hr/yr) x (ton/2000 lb) = 2.8 tpy	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 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: 1.5×10^{-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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 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 Subsection F2 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Assume PM10 emissions are the same as PM.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 3643 lb/hour 4693 tons/year	4. Synthetically Limited? ☐ Yes ☐ 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) 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: ☐ 5 years ☐ 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 Subsection F2 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 3 of 3

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.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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? ☐ Yes ☐ 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: ☐ 5 years ☐ 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 Subsection F2 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):	

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G 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: ☐ Rule ☑ 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: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1 of 8

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement: ☐ Rule ☐ Other	
4. Monitor Information... Manufacturer: MONITOR LABS Model Number: 9850 Serial Number: 593	
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 2 of 8

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement: ☐ Rule ☐ Other	
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: TML41 Serial Number: S/N 131	
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 3 of 8

1. Parameter Code: VE	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: Light Hawk 560	Serial Number: 5600379 / 5600380
5. Installation Date:	6. Performance Specification Test Date: 5/21/2003
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 4 of 8

1. Parameter Code: CO2	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: MONITOR LABS Model Number: 9820	Serial Number: S/N 179
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 5 of 8

1. Parameter Code: FLOW	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: EMRC Model Number: EMRC-DP1	Serial Number: S/N 461
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 6 of 8

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: TML 9850	Serial Number: S/N 615
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 7 of 8

1. Parameter Code: CO2	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: 9820	Serial Number: S/N 175
5. Installation Date:	6. Performance Specification Test Date: 29-JUL-96
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 8 of 8

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Teledyne Monitor Labs Model Number: TML 30	Serial Number: S/N 151
5. Installation Date:	6. Performance Specification Test Date: 10/21/2008
7. Continuous Monitor Comment:	

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: Attach. B ☐ 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

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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)): ☐ Attached, Document ID: _____ ☑ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): ☐ Attached, Document ID: _____ ☑ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) ☐ Attached, Document ID: _____ ☑ Not Applicable

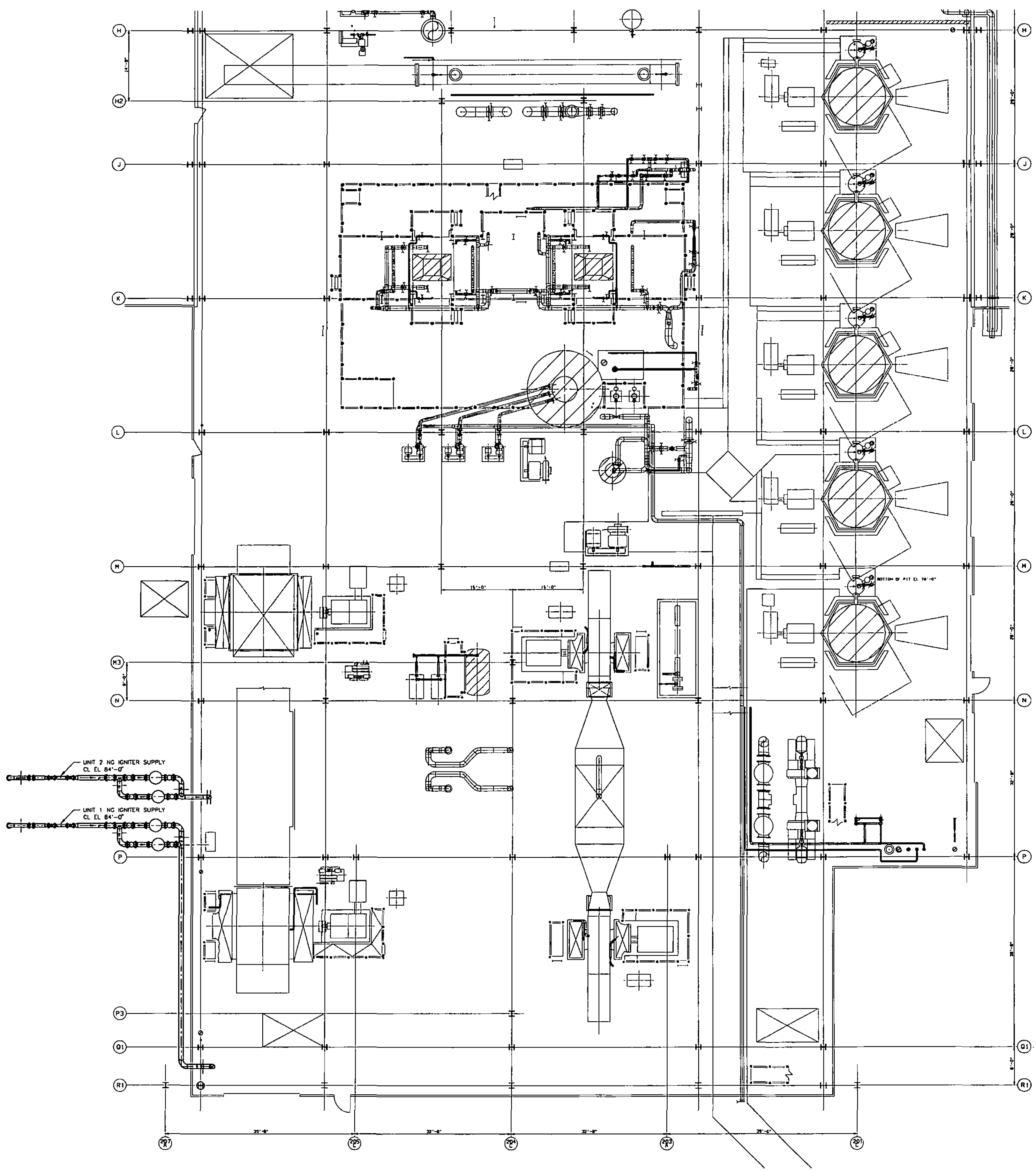
Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: ☐ Attached, Document ID: _____
2. Compliance Assurance Monitoring: ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Alternative Methods of Operation: ☐ Attached, Document ID: _____ ☐ Not Applicable
4. Alternative Modes of Operation (Emissions Trading): ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements Comment

Attachment A

Facility Plot Plan



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NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
A	06/JUL/11	PRELIMINARY PIPING DESIGN FOR PROPOSAL	BDS	BDS		DPT	

SCALE: 1/8" = 1'-0"

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

SIGNED ____________

DATE ____________ REG NO. ____________

BLACK & VEATCH
Building a world of difference®

DESIGNER | DRAWN | CHECKED | DATE

ORLANDO UTILITIES COMMISSION
STANTON ENERGY CENTER – UNIT 2

NG IGNITER PIPING PROPOSAL
PLAN BELOW 122'-0"

PROJECT DRAWING NUMBER: 905705-SM-2001 REV: A

CODE | AREA

SAV01382 A1ASL030 07/06/11 E1 1=1 14:49:24 ACAD 16.1s (LMS Tech)

Attachment B

Process Flow Diagram

NOTES:

1. SYSTEM CODE IS FGA, EXCEPT AS INDICATED.
2. ALL SYSTEM COMPONENTS ARE SERIES CFGA-XXX-XXXX, UNLESS OTHERWISE NOTED.
3. SEE DRAWING CUUU-M2001 FOR MISCELLANEOUS CONNECTION SIZES.
4. VENT TO A SAFE LOCATION.

EXISTING GAS CHROMATOGRAPH AT STATION B GAS YARD

CFGA-M2381A-01
FROM FILTER/SEPARATOR

CSA

FM

CORIOLIS METER TUBE ASSEMBLY

PI

S

NEW FGT RTU FLOW COMPUTER INSTALLED BY FGT INSIDE EXISTING STATION B RTU CABINET

SEE NOTE 4
VT SET AT XXX PSIG

PIT

01-1FGA-M2381
TO UNIT 1
INGNIGTER SKID

UG

CSB|1FGA
CSD|1FGA

2FGA|CSB
2FGA|CSD

CSB|1FGA
CSD|1FGA

02-2FGA-M2381
TO UNIT 2
INGNIGTER SKID

2FGA|CSB
2FGA|CSD

CSD
CSC

NEW FGT RTU FLOW COMPUTER INSTALLED BY FGT INSIDE EXISTING STATION B RTU CABINET

POWER

FIBER OPTIC CABLE

LOCATED AT SEC U1/U2

DPM

RS-458

RS-232

CAT 5 (ETHERNET)

ANZ

FT

PT

TI

TE

TW

FLOW CONDITIONER

SCREW-TYPE QUICK-OPENING CLOSURE

ULTRASONIC FLOW METER

SCREW-TYPE QUICK-OPENING CLOSURE

TO USERS ON SKID

INSTRUMENT SUPPLY CONTROL PANEL

CSES

03-CFGA-M2381A
TO FILTER/SEPARATOR

UG

CSES

BLACK & VEATCH CORPORATION
9000 REGENCY PARKWAY, SUITE 300
CARY, NC 27518
FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION #8132

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NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
0	20/SEP/2011	ISSUED FOR PERMIT	RJB	DPT			

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA

SIGNED _____

DATE _____ REG NO. _____

BLACK & VEATCH CORPORATION

DESIGNER DPT | DRAWN RJB | CHECKED | DATE

ORLANDO UTILITIES COMMISSION
STANTON UNIT 1&2 GAS IGNITER PROJECT

PROJECT 174727 | DRAWING NUMBER SM-2005 | REV 0

PIPING & INSTRUMENT DIAGRAM
FUEL GAS SUPPLY

CODE | AREA

ACAD 18.0s (LMS Tech)
D1_1
09/20/11 13:01:18
ACD11196
ACD11196

Attachment C

Precautions to Prevent Emissions of Unconfined Particulate Matter

Precautions to Prevent Emissions of Unconfined Particulate Matter

This project will not create new sources of unconfined particulate matter nor alter OUC's previous commitments to the prevention of unconfined particulate matter.

Attachment D

Description of Proposed Construction or Modification

Description of Proposed Construction or Modification

Orlando Utilities Commission (OUC) is proposing to replace the existing fuel oil igniter systems on Stanton Energy Center (SEC) Units 1 & 2 with natural gas igniter systems. The natural gas will be supplied from the existing Florida Gas Transmission (FGT) transmission line on the SEC site located north of SEC Units 1 & 2. The igniters will be used primarily as initial light-off for the 60 low NO_x coal burners (30 per unit). Additional information can be found in the Sections 1.0 and 2.0 of the application support document.

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

State: Rule 62-4.070 – *Standards for Issuing or Denying Permits.*
State: Rule 62-210.300 – *Permits Required.*
State: Rule 62-212.300 – *General Preconstruction Review 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

This project does not contain any new fugitive emissions sources for the facility.

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 natural gas in the proposed new igniter systems. The natural gas will be pipeline quality with a sulfur content of 0.5 grains per dscf. Secondary fuels for these units are:

- Fuel oil – no longer available to the units upon installation of the natural gas igniters,
- Waste oil,
- Natural gas,
- Landfill gas

Attachment I

Detailed Description of Control Equipment

Detailed Description of Control Equipment

There is no new control equipment associated with this installation.

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.