STATE OF MISSOURI
Department of Natural Resources
Air Pollution Control Program
1101 Riverside Drive, P.O. Box 176
Jefferson City, Missouri 65102-0176

FILED[3]
MAY 11 2006
Missouri Public
Service Commission

Exhibit No. 79
Case No(s). EA-2006-0309
Date 4-27-06 Rptr KF

Emissions Inventory Questionnaire (EIQ) Internet Submittal 2006-03-22

FORM 1.0 GENERAL PLANT INFORMATION

Shaded Areas for Office Use Only

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

Facility Street Address	County Name	Region	Classification	HAP Category
24110 S. HARPER RD	CASS	KCRO	P70 Permits / UK Enforcement	

City	Zip Code + 4	Facility Phone Number
PECULIAR	64708-	8167377527

Facility Mailing Address	City	State	Zip Code + 4
10700 EAST 350 HIGHWAY	KANSAS CITY	MO	64138-

Facility Contact Name and Title	Facility Contact E-mail	Where to Send EIQ in Future (Check One)
Jeff Creason, Engineer	jeff.creason@aquila.com	☐ Facility Mailing Address ☒ Parent Co. Mailing Address

Product/Principal Activity	SIC	NAICS	Number of Employees	Land in Acres
ELECTRICITY	4911	221112	4.00	10.00

	Latitude	Longitude	UTM Coordinates		
Degrees			Zone	Easting (m)	Northing (m)
Minutes			CSTR Legal Description		
Seconds			(1/4):	(1/4): NW	Section 25 / Township 45N / Range 31W

Parent Company Name	Phone Number	Fax Number
AQUILA INC	816-737-7527	

Mailing Address	City	State	Zip Code + 4
10700 EAST 350 HIGHWAY PO BOX 11739	KANSAS CITY	MO	64138-

Contact Person	Contact Person E-mail	Country
JEFF CREASON		UNITED STATES

TOTAL PLANT EMISSIONS FROM FORM 3.0 (TONS PER YEAR)

PM10	SOx	NOx	VOC	CO	LEAD	HAPs	PM25	NH3
1.82	1.55	30.44	0.96	37.32	0.00	0.00	0.00	0.00

The undersigned hereby certifies that they have personally examined and are familiar with the information and statements contained herein and further certifies that they believe this information and statements to be true, accurate and complete. The undersigned certifies that knowingly making a false statement or misrepresenting the facts presented in this document is a violation of state law.

Print Name of Person Completing Form	Title	Check Amount
Signature	Date	Check Number
Print Name of Authorized Company Representative	Title	Check Date
Signature	Date	OFFICE USE ONLY Logged In By / Date Received

MO 780-1431 (11-05)

FORM 1.2 SUMMARY OF EMISSION POINTS

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005
[1] Total Number of Emission Points 3			

[2] Point No.	[3] Point Description (Use same description on Form 2.0)	[4] Worksheet(s) Used with Form 2.0
01	Combustion Turbine, simple-cycle Siemens-Westinghouse 501D5A	
02	Combustion Turbine, simple-cycle Siemens Westinghouse 501D5A	
03	Combustion Turbine, simple-cycle Siemens Westinghouse 501D5A	

MO 780-1620 (8-05)

Duplicate this form as needed.

FORM 2.0 EMISSION POINT INFORMATION

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

[1] POINT IDENTIFICATION

Point No.	Point Description	SIC Code	Number of SCCs Used with this Point	Seg. No.
01	Combustion Turbine, simple-cycle Siemens-Westinghouse 501D5A	4911	1	

Source Classification Code (SCC)	SCC Description	SCC Units
20100201	Turbine	Million Cubic Feet Burned

Do the emissions from this emission point flow through a stack?	Point Activity Status
[X] Yes [ ] No	[ ] Active
Are the emissions from this point fugitive? / **If fugitive, what percentage?**	[ ] Inactive
[ ] Yes [X] No	[ ] Dismantled

[2] OPERATING RATE/SCHEDULE

Annual Throughput	Units	Maximum Hourly Design Rate	Units/Hr
288.874000	Million Cubic Feet Burned	1.455000	Million Cubic Feet Burned

Hours/Day	Days/Week	Weeks/Year	Total Hours Per Year	Jan-Mar (%)	Apr-Jun (%)	Jul-Sep (%)	Oct-Dec (%)
5.10	4.00	13	265.20	0.00	0.00	97.00	3.00

Does this process include any maximum hourly design rate restrictions?

[ ] Yes [X] No

[3] EMISSIONS CALCULATIONS

Source of Emission Factor: (List below in Column [6])

(1) CEM (2) Stack Test (3) Mass Balance (4) AP-42 (4F) Fire (5) Other (EC) Eng Calc (TK) Tanks

Or identify worksheet number (i.e.: (27) Haul Road Worksheet)

[4] AP 42/Other Reference

[5] List other worksheets

Air Pollutant	[6] Source	[7] Emission Factor (Lbs/Unit)	[8] Emission Factor Control Status	[9] Ash or Sulfur (%)	[10] Overall Control Efficiency (%)	[11] Actual Emissions (Tons/Yr)	Maximum Hourly (Lbs/Hr)	Potential Controlled (Tons/Yr)	Potential Uncontrolled (Tons/Yr)
PM10	2	3.92000000	No Control	0.00000		0.5662			
SOx	4	3.33000000	No Control	0.00000		0.4810			
NOx	1	58.80000000	No Control			8.4929			
VOC	4	2.06000000	No Control			0.2975			
CO	4	80.36000000	No Control			11.6070			
Lead									
HAPs									
PM2.5									
NH3									

Duplicate this form as needed.

FORM 2.0S STACK INFORMATION

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

Point No.	Source Classification Code (SCC)	Seg No.	For a non-circular stack: Diameter = (1.128A)^1/2 (A = Cross Sectional Area in sq. feet)
01	20100201		

Stack No.	Stack Description	% of Emissions Released
EP01	Combustion Turbine #1 exhaust stack	100.00

Stack Operating Status

☒ Active ☐ Inactive ☐ Dismantled

Height (Ft)	Diameter (Ft)	Temperature (F)	Velocity (Ft/Min)	Flow Rate (Cu Ft/Min)	List other points sharing this stack
70.00	25.000				

MO 780-1435 (8-05) **Duplicate this form as needed.**

FORM 2.0 EMISSION POINT INFORMATION

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

[1] POINT IDENTIFICATION

Point No.	Point Description	SIC Code	Number of SCCs Used with this Point	Seg. No.
02	Combustion Turbine, simple-cycle Siemens Westinghouse 501D5A	4911	1	

Source Classification Code (SCC)	SCC Description	SCC Units
20100201	Turbine	Million Cubic Feet Burned

Do the emissions from this emission point flow through a stack?

☒ Yes ☐ No

Are the emissions from this point fugitive?

☐ Yes ☒ No

If fugitive, what percentage?

Point Activity Status

☐ Active
☐ Inactive
☐ Dismantled

[2] OPERATING RATE/SCHEDULE

Annual Throughput	Units	Maximum Hourly Design Rate	Units/Hr
327.819470	Million Cubic Feet Burned	1.455000	Million Cubic Feet Burned

Hours/Day	Days/Week	Weeks/Year	Total Hours Per Year	Jan-Mar (%)	Apr-Jun (%)	Jul-Sep (%)	Oct-Dec (%)
5.00	4.00	15	300.00	0.00	4.00	92.00	4.00

Does this process include any maximum hourly design rate restrictions?

☐ Yes ☒ No

[3] EMISSIONS CALCULATIONS

Source of Emission Factor: (List below in Column [6])

(1) CEM (2) Stack Test (3) Mass Balance (4) AP-42 (4F) Fire (5) Other (EC) Eng Calc (TK) Tanks

Or identify worksheet number (i.e.: (27) Haul Road Worksheet)

[4] AP 42/Other Reference

[5] List other worksheets

Air Pollutant	[6] Source	[7] Emission Factor (Lbs/Unit)	[8] Emission Factor Control Status	[9] Ash or Sulfur (%)	[10] Overall Control Efficiency (%)	[11] Actual Emissions (Tons/Yr)	Maximum Hourly (Lbs/Hr)	Potential Controlled (Tons/Yr)	Potential Uncontrolled (Tons/Yr)
PM10	2	3.92000000	No Control	0.00000		0.6425			
SOx	4	3.33200000	No Control	0.00000		0.5461			
NOx	1	68.60000000	No Control			11.2442			
VOC	4	2.06000000	No Control			0.3377			
CO	4	80.36000000	No Control			13.1718			
Lead									
HAPs									
PM2.5									
NH3									

Duplicate this form as needed.

FORM 2.0S STACK INFORMATION

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

Point No.	Source Classification Code (SCC)	Seg No.	For a non-circular stack: Diameter = (1.128A)^1/2 (A = Cross Sectional Area in sq. feet)
02	20100201		

Stack No.	Stack Description	% of Emissions Released
EP02	Combustion Turbine #2 exhaust stack	100.00

Stack Operating Status

☒ Active ☐ Inactive ☐ Dismantled

Height (Ft)	Diameter (Ft)	Temperature (F)	Velocity (Ft/Min)	Flow Rate (Cu Ft/Min)	List other points sharing this stack
70.00	25.000				

MO 780-1435 (8-05) **Duplicate this form as needed.**

FORM 2.0 EMISSION POINT INFORMATION

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

[1] POINT IDENTIFICATION

Point No.	Point Description	SIC Code	Number of SCCs Used with this Point	Seg. No.
03	Combustion Turbine, simple-cycle Siemens Westinghouse 501D5A	4911	1	

Source Classification Code (SCC)	SCC Description	SCC Units
20100201	Turbine	Million Cubic Feet Burned

Do the emissions from this emission point flow through a stack? [X] Yes [ ] No

Are the emissions from this point fugitive? [ ] Yes [X] No

If fugitive, what percentage?

Point Activity Status: [ ] Active [ ] Inactive [ ] Dismantled

[2] OPERATING RATE/SCHEDULE

Annual Throughput	Units	Maximum Hourly Design Rate	Units/Hr
312.076130	Million Cubic Feet Burned	1.455000	Million Cubic Feet Burned

Hours/Day	Days/Week	Weeks/Year	Total Hours Per Year	Jan-Mar (%)	Apr-Jun (%)	Jul-Sep (%)	Oct-Dec (%)
5.20	4.00	14	291.20	0.00	8.00	86.00	6.00

Does this process include any maximum hourly design rate restrictions? [ ] Yes [X] No

[3] EMISSIONS CALCULATIONS

Source of Emission Factor: (List below in Column [6])
(1) CEM (2) Stack Test (3) Mass Balance (4) AP-42 (4F) Fire (5) Other (EC) Eng Calc (TK) Tanks
Or identify worksheet number (i.e.: (27) Haul Road Worksheet)

[4] AP 42/Other Reference

[5] List other worksheets

Air Pollutant	[6] Source	[7] Emission Factor (Lbs/Unit)	[8] Emission Factor Control Status	[9] Ash or Sulfur (%)	[10] Overall Control Efficiency (%)	[11] Actual Emissions (Tons/Yr)	Maximum Hourly (Lbs/Hr)	Potential Controlled (Tons/Yr)	Potential Uncontrolled (Tons/Yr)
PM10	2	3.92000000	No Control	0.00000		0.6117			
SOx	4	3.33000000	No Control	0.00000		0.5196			
NOx	1	68.60000000	No Control			10.7042			
VOC	4	2.06000000	No Control			0.3214			
CO	4	80.36000000	No Control			12.5392			
Lead									
HAPs									
PM2.5									
NH3									

Duplicate this form as needed.

FORM 2.0S STACK INFORMATION

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

Point No.	Source Classification Code (SCC)	Seg No.	For a non-circular stack: Diameter = (1.128A)^1/2 (A = Cross Sectional Area in sq. feet)
03	20100201		

Stack No.	Stack Description	% of Emissions Released
EP03	Combustion Turbine #3 exhaust stack	100.00

Stack Operating Status

☒ Active ☐ Inactive ☐ Dismantled

Height (Ft)	Diameter (Ft)	Temperature (F)	Velocity (Ft/Min)	Flow Rate (Cu Ft/Min)	List other points sharing this stack
70.00	25.000				

MO 780-1435 (8-05) **Duplicate this form as needed.**

STATE OF MISSOURI
Department of Natural Resources
Air Pollution Control Program
1101 Riverside Drive, P.O. Box 176
Jefferson City, Missouri 65102-0176

FORM 3.0 EMISSIONS FEE CALCULATION

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

[1] POINT No. / SCC	Use one row to list the emissions from one emission point. Sum the emissions in the page total box at the bottom of the column. If more than one page is needed, use the first row of the duplicated page to list the page totals from this page. Express emission figures in tons per year and round to two [2] decimal places.								
	Air Pollutant								
	PM10	SOx	NOx	VOC	CO	LEAD	HAPs	PM2.5	NH3
01 / 20100201	0.57	0.48	8.49	0.30	11.61	0.00	0.00	0.00	0.00
02 / 20100201	0.64	0.55	11.24	0.34	13.17	0.00	0.00	0.00	0.00
03 / 20100201	0.61	0.52	10.70	0.32	12.54	0.00	0.00	0.00	0.00
Page Totals	1.82	1.55	30.44	0.96	37.32	0.00	0.00	0.00	0.00

NOTE: FILL OUT THE LOWER PORTION OF THIS FORM ONE TIME ONLY.

[2] ACTUAL EMISSIONS (Make sure to use the sum of ALL page totals for each pollutant for the actual emission figures below.)

	PM10	SOx	NOx	VOC	CO	LEAD	HAPs	PM2.5	NH3
	1.82	1.55	30.44	0.96	37.32	0.00	0.00	0.00	0.00

Copy the Actual Emissions from [2] to the appropriate box(s) in the Total Plant Emissions section of Form 1.0.

[3] CHARGEABLE EMISSIONS (Maximum 4,000 Tons/Yr Cap per Pollutant)

	1.82	1.55	30.44	0.96	NO FEES FOR CO	0.00	0.00	NO FEES FOR PM2.5	NO FEES FOR NH3

[4] SUM OF CHARGEABLE EMISSIONS SUBJECT TO FEES (Maximum 12,000 tons per year cap; ROUND TO NEAREST WHOLE TON.)	35 Tons/Yr
[5] TOTAL ANNUAL EMISSIONS FEE (See instructions for fee schedule) ONE TON MINIMUM$	1207.50

[6] Include a check for the amount in Box 5, payable to the Missouri Air Pollution Control Program. Mail the check for the emissions fee to the State Air Agency listed at the top of this form.

[7] Send the completed questionnaire and any supporting documention to the agency listed at the top of Form 1.0.

Facilities within local air program jurisdiction only need to include copies of Form 1.0, 3.0, and 4.0 along with the emissions fee check to the Jefferson City address.

FORM 4.0 FINANCIAL COST ESTIMATE

Facility Name	FIPS County No.	Plant No.	Year of Data
AQUILA INC	037	0063	2005

The Missouri Air Law, Chapter 643 requires a financial cost estimate. The cost estimate is an evaluation of any additional costs of doing business attributable to the Federal Clean Air Act, as amended.

Please calculate the cost and expenses incurred to complete the Emission Inventory Questionnaire (EIQ), including the calculation of emission fees. If you hired an outside consultant, please include the time and money charged to your company. Also include any cost incurred if you installed air pollution control equipment, any additional monitoring or testing expense or any additional personnel costs incurred to comply with the Missouri Air Law and the Federal Clean Air Act, as amended.

PLEASE BE SURE TO USE THE CODES. SEE INSTRUCTIONS FOR LISTS.

Category Reporting	CODE for Personnel or Equipment	Number of Employees	Total Number of Hours Required	Cost Per Hour	Total Cost
[1] EIQ reviewed and completed by Company Personnel (Engineers, Technical Specialists, Others)	A08 : Engineer - Environmental / Air Quality	1	40.0	50.00	2000.00
[2] EIQ completed by outside Engineering Consultants	A03 : Consultant (Engineering, Environmental, and Safety)				13000.00
[2] EIQ completed by outside Engineering Consultants	A08 : Engineer - Environmental / Air Quality				28000.00
[3] Pollution control equipment, monitoring, or testing (Please list items separately)	D01 : CEM Capital Costs				420000.00
[3] Pollution control equipment, monitoring, or testing (Please list items separately)	D05 : Contract Labor				35000.00
TOTAL		0	40.0		498000.00

Remarks

MO 780-1622 (8-05)