New York State Department of Environmental Conservation
Air Permit Application

DEC ID	APPLICATION ID	OFFICE USE ONLY
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Section I - Certification

Title V Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information [required pursuant to 6 NYCRR 201-6.3(d)] I believe the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Responsible Official	Title
Signature	Date / /

State Facility Certification

I certify that this facility will be operated in conformance with all provisions of existing regulations.

Responsible Official Bruce Bailey	Title Vice President
Signature Bruce Bailey	Date 6/12/12 / /

Section II - Identification Information

Title V Facility Permit	State Facility Permit
__ New __ Significant Modification __ Administrative Amendment	X New Modification
__ Renewal __ Minor Modification General Permit Title:	General Permit Title:
X Application involves construction of new facility	X Application involves construction of new emission unit(s)

Owner / Firm

Name	Quasar Energy Group, LLC				
Street Address	7264 Riverview Road				
City	Cleveland	State OH	Country USA	Zip 44141	
Owner Classification	__ - Federal X - Corporation/Partnership	__ -State __ - Individual	__ - Municipal	Taxpayer ID	38-3858634

Facility

_ Confidential

Name	Wheatfield Bioenergy ADS Facility
Location Address	Liberty Drive
__ City / X Town / __ Village	Wheatfield Zip #

Project Description

_ Continuation Sheet(s)

This Application is for the construction and operation of a new anaerobic digestion facility. The facility will accept certain types of liquid and solid biomass for processing in a 230,000 gal equalization tank and a 750,000 gal digestion tank. Collected biogas will be conveyed to a CAT 3520 IC engine to produce electricity. Other sources include a backup flare, biofilter, and a boiler.

Owner / Firm Contact Mailing Address

Name (Last, First, Middle Initial)	Bruce Bailey			Phone No.	(216) 986-9999 x116
Affiliation	Quasar Energy Group, LLC	Title	VP Technical Affairs	Fax No.	(216) 986-9999
Street Address	7264 Riverview Road				
City	Cleveland	State OH	Country USA	Zip	44141

Facility Contact Mailing Address

Name (Last, First, Middle Initial)	Bruce Bailey			Phone No.	(216) 986-9999 x116
Affiliation	Quasar Energy Group, LLC	Title	VP Technical Affairs	Fax No.	(216) 986-9999
Street Address	7264 Riverview Road				
City	Cleveland	State OH	Country USA	Zip	44141

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Section III - Facility Information

Classification

_ Hospital _ Residential _ Educational/Institutional _ Commercial X Industrial _ Utility

Affected States (Title V Only)

_ Vermont _ Massachusetts _ Rhode Island _ Pennsylvania
_ New Hampshire _ Connecticut _ New Jersey _ Ohio

Tribal Land: **Tonawanda, Tuscarora**
Tribal Land: **Cattaraugus, Allegany**
Tribal Land: **Oil Springs**

SIC Codes

4953												

Facility Description

_ Continuation Sheet(s)

The Facility will accept liquid and solid biomasses such as food waste, agricultural waste, and sewage sludge. The biomass will be initially processed in a 230,000 gal equalization tank for stabilization purposes and ultimately to a 750,000 gal digester tank. A blower will convey collected biogas from the digester tank to a Caterpillar G3520C internal combustion (IC) engine. A backup flare will be used in the event that the IC engine is down for maintenance purposes or for any unplanned outages. In addition, heat from the IC engine will be recirculated to the tanks via heat exchanger process (a biogas boiler will also be used).

Compliance Statements (Title V Only)

For all emission sources at this facility that are operating in compliance with all applicable requirements including any compliance certification requirements under section 114 (a) (3) of the clean air act amendments of 1990, complete the following:

___ This Facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit.
___ For all emission units, subject to any applicable requirements that will become effective during the term of the permit, this facility will meet all such requirements on a timely basis.
___ Compliance certification reports will be submitted at least once a year. Each report will certify compliance status with respect to each requirement, and the method used to determine the status.

Facility Applicable Federal Requirements

_ Continuation Sheet(s)

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	60	A						
40	CFR	60	JJJJ						
40	CFR	63	A						
40	CFR	63	ZZZZ						

Facility State Only Requirements

_ Continuation Sheet(s)

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	200							
6	NYCRR	201							
6	NYCRR	202							
6	NYCRR	211							
6	NYCRR	212							
6	NYCRR	215							

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Section III - Facility Information (continued)

Facility Compliance Certification

_ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

_ Applicable Federal Requirement _ State Only Requirement	_ Capping	CAS. No. - -	Contaminant Name

Monitoring Information

_ Ambient Air Monitoring | _ Work Practice Involving Specific Operations | _ Record Keeping/Maintenance Procedures

Description

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description

Facility Emissions Summary

X Continuation Sheet(s)

CAS No.	Contaminant Name	PTE (lbs/yr)	PTE Range Code	Actual (lbs/yr)
NY075 - 00 - 5	PM-10		B	
NY075 - 00 - 0	Particulates		B	
7446 - 09 - 5	SO_2		A	
NY210 - 00 - 0	NO_x		B	
630 - 08 - 0	CO		F	
NY998 - 00 - 0	VOC		A	
NY100 - 00 - 0	HAP		A	
- -	**NMOC**		B	
71 - 55 - 6	**1,1,1-Trichloroethane**		Y	
79 - 34 - 5	**1,1,2,2-Tetrachloroethane**		Y	
75 - 34 - 3	**1,1-Dichloroethane**		Y	
75 - 35 - 4	**1,1-Dichloroethene**		Y	

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Section III - Facility Information (continued)

Facility Emissions Summary (continuation)

CAS No.	Contaminant Name	PTE (lbs/yr)	PTE Range Code	Actual (lbs/yr)
107 - 06 - 2	1,2-Dichloroethane		Y	
78 - 87 - 5	1,2-Dichloropropane		Y	
107 - 13 - 1	Acrylonitrile		Y	
75 - 15 - 1	Carbon disulfide		Y	
56 - 23 - 5	Carbon tetrachloride		Y	
463 - 58 - 1	Carbonyl sulfide		Y	
75 - 00 - 3	Chloroethane		Y	
67 - 66 - 3	Chloroform		Y	
75 - 09 - 2	Dichloromethane		Y	
100 - 41 - 4	Ethylbenze		Y	
110 - 54 - 3	Hexane		Y	
7439 - 97 - 6	Mercury		Y	
108 - 10 - 1	Methyl isobutyl ketone		Y	
127 - 18 - 4	Perchloroethylene		Y	
79 - 01 - 6	Trichloroethene		Y	
75 - 01 - 4	Vinyl chloride		Y	
7647 - 01 - 0	Hydrochloric Acid		Y	
1330 - 20 - 7	Xylene		Y	
71 - 43 - 2	Benzene		Y	
108 - 88 - 3	Toluene		Y	
108 - 90 - 7	Chlorobenzene		Y	

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Section IV - Emission Unit Information

Emission Unit Description

_ Continuation Sheet(s)

EMISSION UNIT 1-ANDIG

The Facility accepts liquid and solid biomass for processing within a 230,000 gallon equalization tank and a 750,000 gallon digestion tank. Biogas is collected from the tanks and combusted in a Caterpillar G3520C IC engine where electricity is produced (backup flare is also utilized). A biofilter is used to treat the exhaust from the odor control areas.

Building

_ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation

Emission Point

_ Continuation Sheet(s)

Emission Unit	1-ANDIG				EMISSION PT.	00001
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
TBD	18	TBD	12	943		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
	9,780	TBD	TBD			

Emission Unit	1-ANDIG				EMISSION PT.	00002
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
TBD	TBD	TBD	TBD	TBD		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
TBD	TBD	TBD	TBD			

Emission Source/Control

X Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
ENG01	C	TBD	TBD				CAT® G3520C IC engine
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
1,600	213	KILOWATTS					

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
FLARE	C	TBD	TBD				Backup Utility Flare
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
TBD							

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Section IV - Emission Unit Information

Emission Unit	Emission Source/Control (continuation)
1-ANDIG	

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
EQTNK	I	TBD	TBD				Biomass Equalization Tank
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
230,000	15	gallons					

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
DGTNK	I	TBD	TBD				Anaerobic Digestion Tank
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
750,000	15	gallons					

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
RECLQ	I	TBD	TBD				Liquid Receiving Precast Tank
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
12,000	15	gallons					

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
RECSD	I	TBD	TBD				Solids Receiving Pit (Hopper)
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
30	93	cubic yards					

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
FILTR	K	TBD	TBD				Biofilter
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
40	93	CUBIC YARDS					

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description

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Section IV - Emission Unit Information (continued)

Process Information

_ Continuation Sheet(s)

EMISSION UNIT 1-ANDIG — Process 001

Description

Liquid and solid biomass are processed in a 230,000 gallon equalization tank and a 750,000 gallon digestion tank. Biogas is collected from the tanks and conveyed to a Caterpillar G3520C internal combustion engine where electricity is produced for onsite and offsite use. A backup utility flare is present for periods of scheduled maintenance on the engine and for any unplanned outages of the engine.

Source Classification Code (SCC)	Total Thruput Quantity/Hr	Total Thruput Quantity/Yr	Thruput Quantity Units Code	Thruput Quantity Units Description

__ Confidential X Operating at Maximum Capacity __ Activity with Insignificant Emissions	Operating Schedule Hrs/Day	Operating Schedule Days/Yr	Building	Floor
	24	365		

Emission Source/Control Identifier(s) (continued)

ENG01	FLARE	EQTNK	DGTNK

EMISSION UNIT 1-ANDIG — Process 002

Description

A biofilter is used to treat exhaust from the odor control areas where liquid and solid biomass are accepted at the Facility. Liquid biomass is collected in a 12,000 gallon precast concrete tank and solid biomass is collected in a live bottom hopper with a capacity of 30 cubic yards.

Source Classification Code (SCC)	Total Thruput Quantity/Hr	Total Thruput Quantity/Yr	Thruput Quantity Units Code	Thruput Quantity Units Description

__ Confidential X Operating at Maximum Capacity __ Activity with Insignificant Emissions	Operating Schedule Hrs/Day	Operating Schedule Days/Yr	Building	Floor
	24	365		

Emission Source/Control Identifier(s) (continued)

FILTR	RECLQ	RECSD					

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Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirement									_ Continuation Sheet(s)
				Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	SubClaus

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements									_ Continuation Sheet(s)
				Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	SubClaus
-													
-													
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-													
-													
-													

Emission Unit Compliance Certification

X Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	60	JJJJ						

X Applicable Federal Requirement _ State Only Requirement _ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS. No.	Contaminant Name
1-ANDIG	00001	001	ENG01		

Monitoring Information

_ Continuous Emission Monitoring
_ Intermittent Emission Testing
_ Ambient Air Monitoring
_ Monitoring of Process or Control Device Parameters as Surrogate
_ Work Practice Involving Specific Operations
X Record Keeping/Maintenance Procedures

Description

For Caterpillar G3520C engines that are installed or imported after July 1, 2009, records of maintenance on each engine shall be maintained; if the installed engine is certified by manufacturer to Subpart JJJJ standards, maintenance shall be conducted according to manufacturer emission - related written instructions in order to be exempt from performance testing requirements.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED	10	UPON REQUEST

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Section IV - Emission Unit Information (continued)

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	60	JJJJ						

X Applicable Federal Requirement _ State Only Requirement _ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS. No.	Contaminant Name
1-ANDIG	00001	001	ENG01	630 - 08 - 0	CARBON MONOXIDE

Monitoring Information

_ Continuous Emission Monitoring
X Intermittent Emission Testing
_ Ambient Air Monitoring
_ Monitoring of Process or Control Device Parameters as Surrogate
_ Work Practice Involving Specific Operations
_ Record Keeping/Maintenance Procedures

Description

If a Caterpillar G3520C engine is installed after July 1, 2009 and not certified by manufacturer according to Subpart JJJJ standards, testing for CO shall be conducted once every 8,760 hours or 3 years. If the Caterpillar G3520C engine is certified according to Subpart JJJJ standards, but not maintained in accordance with manufacturer instructions, testing for CO shall be performed.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 10 of 40 CFR Part 60, Appendix A

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
5.0		319	grams per brake horsepower - hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
	Average of three 1-hour test runs	14	AS REQUIRED	01	WITHIN 60 DAYS OF TEST

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	60	JJJJ						

X Applicable Federal Requirement _ State Only Requirement _ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS. No.	Contaminant Name
1-ANDIG	00001	001	ENG01	NY210 - 00 - 0	OXIDES OF NITROGEN

Monitoring Information

_ Continuous Emission Monitoring
X Intermittent Emission Testing
_ Ambient Air Monitoring
_ Monitoring of Process or Control Device Parameters as Surrogate
_ Work Practice Involving Specific Operations
_ Record Keeping/Maintenance Procedures

Description

If a Caterpillar G3520C engine is installed after July 1, 2009 and not certified by manufacturer according to Subpart JJJJ standards, testing for NOx shall be conducted once every 8,760 hours or 3 years. If the Caterpillar G3520C engine is certified according to Subpart JJJJ standards, but not maintained in accordance with manufacturer instructions, testing for NOx shall be performed.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 7E of 40 CFR Part 60, Appendix A

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
2.0		319	grams per brake horsepower - hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
	Average of three 1-hour test runs	14	AS REQUIRED	01	WITHIN 60 DAYS OF TEST

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Section IV - Emission Unit Information (continued)

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	60	JJJJ						

X Applicable Federal Requirement _ State Only Requirement _ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS. No.	Contaminant Name
1-ANDIG	00001	001	ENG01	NY998 - 00 - 0	VOC

Monitoring Information

_ Continuous Emission Monitoring
X Intermittent Emission Testing
_ Ambient Air Monitoring
_ Monitoring of Process or Control Device Parameters as Surrogate
_ Work Practice Involving Specific Operations
_ Record Keeping/Maintenance Procedures

Description

If a Caterpillar G3520C engine is installed after July 1, 2009 and not certified by manufacturer according to Subpart JJJJ standards, testing for VOCs shall be conducted once every 8,760 hours or 3 years. If the Caterpillar G3520C engine is certified according to Subpart JJJJ standards, but not maintained in accordance with manufacturer instructions, testing for VOCs shall be performed.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 25A of 40 CFR Part 60, Appendix A

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
1.0		319	grams per brake horsepower - hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
	Average of three 1-hour test runs	14	AS REQUIRED	01	WITHIN 60 DAYS OF TEST

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

_ Applicable Federal Requirement _ State Only Requirement _ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS. No.	Contaminant Name

Monitoring Information

_ Continuous Emission Monitoring
_ Intermittent Emission Testing
_ Ambient Air Monitoring
_ Monitoring of Process or Control Device Parameters as Surrogate
_ Work Practice Involving Specific Operations
_ Record Keeping/Maintenance Procedures

Description

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description

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Section IV - Emission Unit Information (continued)

Determination of Non-Applicability (Title V Only)

_ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	_ Applicable Federal Requirement _ State Only Requirement

Description

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	_ Applicable Federal Requirement _ State Only Requirement

Description

Process Emissions Summary

X Continuation Sheet(s)

EMISSION UNIT	1 - A N D I G					Process	0 0 1
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.	
630 - 08 - 0	**CARBON MONOXIDE**						

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
15.69	**137,479**	**68.7**	**38**	**09**		

EMISSION UNIT	1 - A N D I G					Process	0 0 1
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.	
NY210 - 00 - 0	**OXIDES OF NITROGEN**						

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
1.85	**16,174**	**8.1**	**38**	**09**		

EMISSION UNIT	1 - A N D I G					Process	0 0 1
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.	
	NMOC			**97.2**			

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
0.45	**3,916**	**2.0**	**38**	**03**		

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Section IV - Emission Unit Information (continued)

Process Emissions Summary (continuation)

EMISSION UNIT	1-ANDIG				Process	001
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
NY998-00-0	VOC			97.2		

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
0.17	1,527	0.8	38	03		

EMISSION UNIT	1-ANDIG				Process	001
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
7446-09-5	SULFUR DIOXIDE					

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
0.10	859	0.4	38	04		

EMISSION UNIT	1-ANDIG				Process	001
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
NY075-00-0	PARTICULATES					

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
0.86	7,569	3.8	38	03		

EMISSION UNIT	1-ANDIG				Process	001
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
NY075-00-5	PM-10					

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
0.86	7,569	3.8	38	03		

EMISSION UNIT	1-ANDIG				Process	001
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
NY100-00-0	TOTAL HAPs			98		

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
0.04	314	0.2	38	03		

EMISSION UNIT	1-ANDIG				Process	002
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
NY998-00-0	VOC					

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
0.10	915	0.5	38	04		

EMISSION UNIT	1-ANDIG				Process	002
CAS No.	Contaminant Name	% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
	NMOC					

PTE (lb/hr)	PTE (lb/yr)	PTE (standard units)	Standard Units	PTE How Determined	Actual (lb/hr)	Actual (lb/yr)
0.27	2,346	1.2	38	04		

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Section IV - Emission Unit Information (continued)

Process Emissions Summary (continuation)

EMISSION UNIT	1 - A N D I G					Process	0 0 2
CAS No.	Contaminant Name		% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
7783-06-4	HYDROGEN SULFIDE						
PTE			Standard Units	PTE How Determined		Actual	
(lb/hr)	(lb/yr)	(standard units)				(lb/hr)	(lb/yr)
0.01	93	0.05	38	04			

EMISSION UNIT	1 - A N D I G					Process	0 0 2
CAS No.	Contaminant Name		% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
7664-41-7	AMMONIA						
PTE			Standard Units	PTE How Determined		Actual	
(lb/hr)	(lb/yr)	(standard units)				(lb/hr)	(lb/yr)
0.01	116	0.1	38	04			

EMISSION UNIT	-					Process	
CAS No.	Contaminant Name		% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
PTE			Standard Units	PTE How Determined		Actual	
(lb/hr)	(lb/yr)	(standard units)				(lb/hr)	(lb/yr)

EMISSION UNIT	-					Process	
CAS No.	Contaminant Name		% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
PTE			Standard Units	PTE How Determined		Actual	
(lb/hr)	(lb/yr)	(standard units)				(lb/hr)	(lb/yr)

EMISSION UNIT	-					Process	
CAS No.	Contaminant Name		% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
PTE			Standard Units	PTE How Determined		Actual	
(lb/hr)	(lb/yr)	(standard units)				(lb/hr)	(lb/yr)

EMISSION UNIT	-					Process	
CAS No.	Contaminant Name		% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
PTE			Standard Units	PTE How Determined		Actual	
(lb/hr)	(lb/yr)	(standard units)				(lb/hr)	(lb/yr)

EMISSION UNIT	-					Process	
CAS No.	Contaminant Name		% Thruput	% Capture	% Control	ERP (lb/hr)	ERP How Determ.
PTE			Standard Units	PTE How Determined		Actual	
(lb/hr)	(lb/yr)	(standard units)				(lb/hr)	(lb/yr)

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Section IV - Emission Unit Information (continued)

Emission Unit -	Emission Unit Emissions Summary	_ Continuation Sheet(s)

CAS No.	Contaminant Name			
ERP (lb/yr)	PTE Emissions		Actual	
	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)
CAS No.	Contaminant Name			
ERP (lb/yr)	PTE Emissions		Actual	
	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)
CAS No.	Contaminant Name			
ERP (lb/yr)	PTE Emissions		Actual	
	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)
CAS No.	Contaminant Name			
ERP (lb/yr)	PTE Emissions		Actual	
	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)

Compliance Plan

_ Continuation Sheet(s)

For any emission units which will not be in compliance at the time of permit issuance, complete the following:

_ This facility meets all applicable requirements except for those units listed below. This facility will achieve compliance for those units according to the following schedule:

Consent Order: | Certified progress reports are to be submitted every 6 months beginning:

Emission Unit	Process	Emission Source	Applicable Federal Requirement									
			Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause

Remedial Measure/Intermediate Milestones	R/I	Date Scheduled

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Section IV - Emission Unit Information (continued)

Request for Emission Reduction Credits

_ Continuation Sheet(s)

EMISSION UNIT -

Emission Reduction Description

Contaminant Emission Reduction Data

Baseline Period __/__/__ to __/__/__

CAS No.	Contaminant Name	Reduction Date	Reduction Method	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
- -					
- -					
- -					

Facility to Use Future Reduction

Name — APPLICATION ID - - /

Location Address

__ City / __ Town / __ Village | State | Zip

Use of Emission Reduction Credits

_ Continuation Sheet(s)

EMISSION UNIT -

Proposed Project Description

Contaminant Emissions Increase Data

CAS No.	Contaminant Name	PEP (lbs/yr)
- -		

Statement of Compliance

_ All major facilities under the ownership of this "ownership/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under section 114(a)(3) of the clean air act amendments of 1990, or are meeting the schedule of a consent order.

Source of Emission Reduction Credit - Facility

Name — PERMIT ID - - /

Location Address

__ City / __ Town / __ Village | State | Zip

Emission Unit	CAS No.	Contaminant Name	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
-	- -			
-	- -			
-	- -			

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List of Attachments

Supporting Documentation

- [X] P.E. Certification
- [ ] List of Exempt Activities (form attached)
- [X] Methods Used to Determine Compliance (form attached)
- [ ] Plot Plan
- [ ] Calculations
- [ ] Air Quality Model (__/__/__)
- [ ] Confidentiality Justification
- [ ] Ambient Air Monitoring Plan (__/__/__)
- [ ] Stack Test Protocols/Reports (__/__/__)
- [ ] Continuous Emissions Monitoring Plans/QA/QC (__/__/__)
- [ ] MACT Demonstration (__/__/__)
- [ ] Operational Flexibility: Description of Alternative Operating Scenarios and Protocols
- [ ] Title IV: Application/Registration
- [ ] ERC Quantification (form attached)
- [ ] Use of ERC(s) (form attached)
- [ ] Baseline Period Demonstration
- [ ] Analysis of Contemporaneous Emission Increase/Decrease
- [ ] LAER Demonstration (__/__/__)
- [ ] BACT Demonstration (__/__/__)
- [X] Other Document(s):

SEQR Short Form	(__/__/__)
Emissions Inventory (see Section 1)	(__/__/__)
	(__/__/__)
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Appendix C
State Environmental Quality Review
SHORT ENVIRONMENTAL ASSESSMENT FORM
For UNLISTED ACTIONS Only

PART I - PROJECT INFORMATION (To be completed by Applicant or Project Sponsor)

1. APPLICANT/SPONSOR
Quasar Energy Group, LLC

2. PROJECT NAME
Anaerobic Digestion Facility

3. PROJECT LOCATION:
Municipality Wheatfield County Niagara

4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map)
Liberty
Wheatfield, NY 14304 (see Figure 1 in Section 1)

5. PROPOSED ACTION IS:
☑ New ☐ Expansion ☐ Modification/alteration

6. DESCRIBE PROJECT BRIEFLY:
Quasar Energy Group, LLC is proposing the construction of a new anaerobic digestion facility. Liquid and solid biomass will be accepted and processed in a 230,000 gal equalization tank and a 750,000 gal digestion tank. Biogas collected from the tanks will be combusted in a Caterpillar G3520C IC engine (or a backup utility flare). A biofilter will treat exhaust from the odor contol areas.

7. AMOUNT OF LAND AFFECTED:
Initially +/- 2 acres Ultimately +/- 2 acres

8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER EXISTING LAND USE RESTRICTIONS?
☑ Yes ☐ No If No, describe briefly

9. WHAT IS PRESENT LAND USE IN VICINITY OF PROJECT?
☐ Residential ☑ Industrial ☑ Commercial ☐ Agriculture ☐ Park/Forest/Open Space ☐ Other
Describe:

10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)?
☐ Yes ☑ No If Yes, list agency(s) name and permit/approvals:

11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL?
☐ Yes ☑ No If Yes, list agency(s) name and permit/approvals:

12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION?
☐ Yes ☑ No

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: Bruce Bailey, Vice President Date: 6/13/12

Signature: Bruce Bailey

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

Reset

PART II - IMPACT ASSESSMENT (To be completed by Lead Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? If yes, coordinate the review process and use the FULL EAF.
☐ Yes ☐ No

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.
☐ Yes ☐ No

C. COULD ACTION RESULT IN **ANY** ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible)

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic pattern, solid waste production or disposal, potential for erosion, drainage or flooding problems? Explain briefly:

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character? Explain briefly:

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species? Explain briefly:

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources? Explain briefly:

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action? Explain briefly:

C6. Long term, short term, cumulative, or other effects not identified in C1-C5? Explain briefly:

C7. Other impacts (including changes in use of either quantity or type of energy)? Explain briefly:

D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CRITICAL ENVIRONMENTAL AREA (CEA)?
☐ Yes ☐ No If Yes, explain briefly:

E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?
☐ Yes ☐ No If Yes, explain briefly:

PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed. If question D of Part II was checked yes, the determination of significance must evaluate the potential impact of the proposed action on the environmental characteristics of the CEA.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which **MAY** occur. Then proceed directly to the FULL EAF and/or prepare a positive declaration.

☐ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action **WILL NOT** result in any significant adverse environmental impacts **AND** provide, on attachments as necessary, the reasons supporting this determination

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (If different from responsible officer)

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METHODS USED TO DETERMINE COMPLIANCE		
Emission Unit ID	**Applicable Requirement**	**Method Used to Determine Compliance and Corresponding Date**
1-ANDIG	6 NYCRR 202-1	Stack testing when required.
1-ANDIG	6 NYCRR 201-7	Complete an initial performance test and additional monitoring as required.
1-ANDIG	6 NYCRR 212-6	Perform a visual observation for opacity on a daily basis
1-ANDIG	40 CFR, Part 60, Subpart JJJJ	Keep records of maintenance on Caterpillar G3520C engine; for certified engines, conduct maintenance in accordance with manufacturer emission-related written instructions to avoid performance testing requirements (certification of engine to 40 CFR, Part 60, Subpart JJJJ standards must be obtained from manufacturer and maintained at the Facility).
1-ANDIG	40 CFR, Part 60, Subpart JJJJ	For non-certified engines (or if certified engine is not operated in accordance with manufacturer instructions), conduct emission testing for CO, NOx and VOC every 8,760 hours or 3 years (whichever is sooner). The test report is to be submitted to the Administrator within 60 days of the test date.

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P.E. Certification

I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments as they pertain to the practice of engineering. This is defined as the performance of a professional service such as consultation, investigation, evaluation, planning, design or supervision of construction or operation in connection with any utilities, structures, buildings, machines, equipment, processes, works, or projects wherein the safeguarding of life, health and property is concerned, when such service or work requires the application of engineering principals and data. Based on my inquiry of those individuals with primary responsibility for obtaining such information, I certify that the statements and information are to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name of P.E. DOUGLAS M. GATRELL

Signature of P.E. Douglas M. Gatrell

Date 6 / 14 / 12.

NYS License No. 083375-1

Phone (716) 297-6150.

STATE OF NEW YORK
Douglas Mitchell Gatrell
083375
LICENSED PROFESSIONAL ENGINEER