

ARCADIS

Appendix A

NYSDEC Forms

New York State Department of Environmental Conservation Air Permit Application



DEC ID									
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APPLICATION ID														
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OFFICE USE ONLY									

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 Thomas E Spang	Title President
Signature <i>[Signature]</i>	Date 3 / 8 / 10

Section II - Identification Information

<input type="checkbox"/> Title V Facility Permit <input type="checkbox"/> New <input type="checkbox"/> Significant Modification <input type="checkbox"/> Administrative Amendment <input type="checkbox"/> Renewal <input type="checkbox"/> Minor Modification General Permit Title: _____			<input type="checkbox"/> State Facility Permit <input checked="" type="checkbox"/> New <input type="checkbox"/> Modification General Permit Title: _____		
<input checked="" type="checkbox"/> Application involves construction of new facility			<input type="checkbox"/> Application involves construction of new emission unit(s)		

Owner/Firm					
Name Cricket Valley Energy Center, LLC					
Street Address 31 Milk St, Suite 1001					
City Boston		State MA	Country	Zip 02109	
Owner Classification <input type="checkbox"/> Federal <input checked="" type="checkbox"/> Corporation/Partnership			<input type="checkbox"/> State <input type="checkbox"/> Individual		<input type="checkbox"/> Municipal
Taxpayer ID 270605498					
Facility					
Name Cricket Valley Energy					
Location Address 2241 NY Route 22					
<input type="checkbox"/> City / <input checked="" type="checkbox"/> Town / <input type="checkbox"/> Village Dover				Zip 12522	
Project Description					
<input checked="" type="checkbox"/> Continuation Sheet(s)					
This application is for a new approximately 1,000 megawatt (MW) combined cycle electric generating facility, firing natural gas as the sole fuel of the combustion turbines, auxiliary boiler and heat recovery steam generator.					

Owner/Firm Contact Mailing Address					
Name (Last, First, Middle Initial) Sellars, Frederick M.			Phone No. (978) 937-9999 x317		
Affiliation Arcadis, Permitting Consultant		Title Vice President		Fax No. (978) 937-7555	
Street Address 2 Executive Drive, Suite 303					
City Chelmsford		State MA	Country	Zip 01824	
Facility Contact Mailing Address					
Name (Last, First, Middle Initial) De Meyere, Robert E.			Phone No. (617) 456-2214		
Affiliation Cricket Valley Energy Center, LLC		Title Director, Development		Fax No. (617) 456-2201	
Street Address 31 Milk St, Suite 1001					
City Boston		State MA	Country	Zip 02109	



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Section II - Identification Information

Project Description (continuation)

The project is comprised of three combined cycle units. Each unit consists of one F-Class Technology combustion turbine generator (CTG), one heat recovery steam generator (HRSG) with supplemental natural gas duct firing, one steam turbine generator (STG), and an associated air cooled condenser (ACC). The project is intended to operate as a base load facility and is proposing to operate 8,760 hours per year, incorporating a range of load conditions. In addition to the combustion turbines, the facility will contain ancillary combustion equipment including one natural gas fired auxiliary boiler, one diesel fired fire pump engine and three diesel fired black-start generators.

A detailed description of the proposed project is provided in Section 2.0 of the document.

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Section III - Facility Information

Classification					
<input type="checkbox"/> Hospital	<input type="checkbox"/> Residential	<input type="checkbox"/> Educational/Institutional	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Utility

Affected States (Title V Only)				
<input type="checkbox"/> Vermont	<input type="checkbox"/> Massachusetts	<input type="checkbox"/> Rhode Island	<input type="checkbox"/> Pennsylvania	Tribal Land: _____
<input type="checkbox"/> New Hampshire	<input type="checkbox"/> Connecticut	<input type="checkbox"/> New Jersey	<input type="checkbox"/> Ohio	Tribal Land: _____

SIC Codes											
4911											

Facility Description		<input checked="" type="checkbox"/> Continuation Sheet(s)
The facility will consist of three combined cycle units. Each unit will fire natural gas exclusively and consist of one F-Class combustion turbine generator (CTG), a heat recovery steam generator (HRSG) with supplemental duct firing, and an associated...		

Compliance Statements (Title V Only)
<p>I certify that as of the date of this application the facility is in compliance with all applicable requirements: <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block on page 8 of this form along with the compliance plan information required. For all emission units at this facility that are operating <u>in compliance</u> with all applicable requirements complete the following:</p> <ul style="list-style-type: none"> " This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those units referenced in the compliance plan portion of Section IV of this application. " 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									<input checked="" type="checkbox"/> Continuation Sheet(s)
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	201	1						
6	NYCRR	201	2						
6	NYCRR	201	3	2					
6	NYCRR	201	3	3					

Facility State Only Requirements									<input type="checkbox"/> Continuation Sheet(s)
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	202	2						
6	NYCRR	207	2						
6	NYCRR	221	2						
6	NYCRR	272	2						

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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
6	NYCRR	211	3						
☒ Applicable Federal Requirement " State Only Requirement		" Capping	CAS No.		Contaminant Name				
			-		Opacity				
Monitoring Information									
☒ Ambient Air Monitoring		" Work Practice Involving Specific Operations			" Record Keeping/Maintenance Procedures				
Description									
No person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.									
As a natural gas fired facility, opacity from the equipment will not exceed these limits. Compliance with this requirement will be demonstrated via visual inspection in accordance with 40 CFR Part 60, Method 9.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Method 9			
		Parameter				Manufacturer Name/Model No.			
Code		Description							
01		Opacity							
Limit			Limit Units						
Upper		Lower		Code	Description				
20		0		136	Percent				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
18	6-minute avg (Method 9)		4	As required.		10	Upon request.		

Facility Emissions Summary				☒ Continuation Sheet(s)	
CAS No.	Contaminant Name	PTE		Actual (lbs/yr)	
		(lbs/yr)	Range Code		
NY075 - 00 - 5	PM-10		G		
NY075 - 00 - 0	PARTICULATES		G		
7446 - 09 - 5	SULFUR DIOXIDE		F		
NY210 - 00 - 0	OXIDES OF NITROGEN		H		
630 - 08 - 0	CARBON MONOXIDE		H		
7439 - 92 - 1	LEAD		A		
NY998 - 00 - 0	VOC		G		
NY100 - 00 - 0	HAP		C		
7664- 93 - 9	SULFURIC ACID MIST		C		
106 - 99 - 0	1,3 -Butadiene		Y		
75 - 07 - 0	Acetaldehyde		Y		
107 - 02 - 8	Acrolein		Y		
120 - 12 - 7	Anthracene		Y		



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Section III - Facility Information

Facility Emissions Summary (continuation)				
CAS No.	Contaminant Name	PTE		Actual (lbs/yr)
		(lbs/yr)	Range Code	
7664 - 41 - 7	Ammonia		G	
71 - 43 - 2	Benzene		Y	
56 - 55 - 3	Benzo(a)anthracene		Y	
50 - 32 - 8	Benzo(a)pyrene		Y	
106 - 97 - 8	Butane		C	
218 - 01 - 9	Chrysene		A	
53 - 70 - 3	Dibenz(a,h)anthracene		A	
74 - 84 - 0	Ethane		D	
100 - 41 - 4	Ethylbenzene		Y	
50 - 00 - 0	Formaldehyde		Y	
110 - 54 - 3	Hexane		Y	
91 - 20 - 3	Napthalene		Y	
109 - 66 - 0	Pentane		C	
85 - 01 - 8	Phenanthrene		A	
130498 - 29 - 2	PAH		Y	
74 - 98 - 6	Propane		C	
115 - 07 - 1	Propylene		A	
75 - 56 - 9	Propylene Oxide		Y	
129 - 00 - 0	Pyrene		A	
108 - 88 - 3	Toluene		Y	
133 - 02 - 7	Xylene (Total)		Y	
07440 - 38 - 2	Arsenic		Y	
07440 - 39 - 3	Barium		A	
07740 - 41 - 7	Beryllium		Y	
07740 - 43 - 9	Cadmium		Y	
07740 - 47 - 3	Chromium		Y	
07740 - 48 - 4	Cobalt		Y	
07740 - 50 - 8	Copper		A	
07439 - 96 - 5	Manganese		Y	
07439 - 97 - 6	Mercury		Y	
07439 - 98 - 7	Molybdenum		A	
07440 - 02 - 0	Nickel		Y	
07782 - 49 - 2	Selenium		Y	
07440 - 62 - 2	Vanadium		A	
07440 - 66 - 6	Zinc		A	
-	-			
-	-			

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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	225	3						
☒ Applicable Federal Requirement ☐ State Only Requirement		" Capping	CAS No.		Contaminant Name				
			7704-34-9		Sulfur				
Monitoring Information									
" Ambient Air Monitoring		" Work Practice Involving Specific Operations			☒ Record Keeping/Maintenance Procedures				
Description									
The combustion turbines at the facility will only utilize natural gas. Ancillary equipment at the facility will only utilize ULSD fuel. The ULSD will have a sulfur content no greater than 0.0015% sulfur by weight. The sulfur content of the fuel will be certified by the vendor and monitored by the facility.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	007	Parameter of process material							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit			Limit Units						
Upper		Lower		Code	Description				
0.0015				57	Percent by weight.				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum - not to be exceeded		11	Per delivery		10	Upon request		
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		Process Material				Reference Test Method			
Type	Code	Description							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
Limit			Limit Units						
Upper		Lower		Code	Description				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		

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Section IV - Emission Unit Information

Emission Unit Description										" Continuation Sheet(s)
EMISSION UNIT	U	-	0	0	0	0	0	1	This generating unit will fire natural gas exclusively and consist of one CTG, one HRSG with supplemental duct firing, and an associated ACC. The auxiliary boiler and black start generators will also exhaust through this stack.	

Building					" Continuation Sheet(s)	
Building	Building Name			Length (ft)	Width (ft)	Orientation
CTGEN01	Turbine Generation Building			670	100	0°
HRSG01	Heat Recovery Steam Generator Enclosure			128	160	90°
ACC01	Air Cooled Condenser			190	190	90°

Emission Point							" Continuation Sheet(s)
EMISSION PT.	E	P	0	0	1	No. 1 Combustion Turbine/HRSG, Auxiliary Boiler	
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (EF)	Cross Section		
					Length (in)	Width (in)	
435	283	170	228	235	N/A	N/A	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
69	1,174,582					N/A	
EMISSION PT.							
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (EF)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	

Emission Source/Control							" Continuation Sheet(s)
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
CT001	C	12/2011	3/2015	N/A			F-class Turbine
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	Description
2000	25	MMBtu/hr, HHV@ ISO conditions					
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
DB001	C	12/2011	3/2015	N/A			HRSG, Duct Burner
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	Description
481	25	MMBtu/hr, HHV@ ISO conditions					

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Section IV - Emission Unit Information

EMISSION UNIT									
U - 0 0 0 0 1									
Emission Source/Control (continuation)									
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
DLN01	K	12/2011	3/2015	N/A	103	Dry low NOx Burner	TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description		Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
SCR01		12/2011	3/2015	N/A	033	Selective Catalytic Reduction	TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description		Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
oxc01		12/2011	3/2015	N/A	110	Catalytic oxidation	TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description		Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
AUX01	C	12/2011	3/2015	N/A	102		TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description		Code	Description	
48.6	25	mmBtu/hr, HHV							
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
LNB01	K	12/2011	3/2015	N/A	102	Low NOx Burner	TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description		Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
FGR01	K	12/2011	3/2015	N/A	026	Flue Gas Recirculation	TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description		Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description		Code	Description	

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Section IV - Emission Unit Information (continued)

Process Information										* Continuation Sheet(s)	
EMISSION UNIT U - 0 0 0 0 1										PROCESS P 0 1	
Description											
Process P01 represents natural gas firing in the F-class combustion turbine without supplemental duct firing. Dry low-NOx combustion technology and selective catalytic reduction will be used to control emissions of NOx from the process. An oxidation catalyst will be used to control emissions of CO and VOC. The natural gas HHV is assumed to be 966 Btu per standard cubic foot. Please see Section 2.0 of the application for a more detailed process description.											
Source Classification Code (SCC)		Total Thruput		Thruput Quantity Units							
		Quantity/Hr	Quantity/Yr	Code	Description						
2-01-002-01		2.3	20,530	0115	million cubic feet of natural gas						
" Confidential * Operating at Maximum Capacity " Activity with Insignificant Emissions			Operating Schedule		Building	Floor/Location					
			Hrs/Day	Days/Yr							
			24	365							
Emission Source/Control Identifier(s)											
CT001	DLN01	SCR01	OXC01								
EMISSION UNIT U - 0 0 0 0 1										PROCESS P 0 2	
Description											
Process P02 represents natural gas firing in the F-class combustion turbine with supplemental duct firing. Dry low-NOx combustion technology and selective catalytic reduction will be used to control emissions of NOx from the process. An oxidation catalyst will be used to control emissions of CO and VOC. The natural gas HHV is assumed to be 966 Btu/SCF. Please see Section 2.0 of the application for a more detailed process description.											
Source Classification Code (SCC)		Total Thruput		Thruput Quantity Units							
		Quantity/Hr	Quantity/Yr	Code	Description						
2-01-002-01		2.8	24,557	0115	million cubic feet of natural gas						
" Confidential * Operating at Maximum Capacity " Activity with Insignificant Emissions			Operating Schedule		Building	Floor/Location					
			Hrs/Day	Days/Yr							
			24	365							
Emission Source/Control Identifier(s)											
CT001	DB001	DLN01	SCR01	OXC01							

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Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements								" Continuation Sheet(s)	
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4320					
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4330	a				
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4333	a				
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4340	b				

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements								" Continuation Sheet(s)	
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
U-00001	EP001	P01/P02	CT001	6	NYCRR	242	1	6					
U-00001	EP001	P01/P02	CT001	6	NYCRR	242	1	7					
U-00001	EP001	P01/P02	CT001	6	NYCRR	242	2						
U-00001	EP001	P01/P02	CT001	6	NYCRR	242	3						

Emission Unit Compliance Certification										x Continuation Sheet(s)	
Rule Citation											
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause		
6	NYCRR	231	5	4							
x Applicable Federal Requirement				" State Only Requirement			" Capping				
Emission Unit	Emission Point	Process	Emission Source	CAS No.			Contaminant Name				
U-00001	EP001	P01/P02		NY210 - 00 - 0			Oxides of nitrogen				
Monitoring Information											
x Continuous Emission Monitoring				" Monitoring of Process or Control Device Parameters as Surrogate							
" Intermittent Emission Testing				" Work Practice Involving Specific Operations							
" Ambient Air Monitoring				" Record Keeping/Maintenance Procedures							
Description											
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (w/ and w/o duct burning) as LAER.											
This will be achieved through the application of DLN burners in combination with SCR. This limit applies at all load conditions except startup and shutdown. The facility will use CEMS to monitor NOx stack emissions.											
Work Practice		Process Material					Reference Test Method				
Type	Code	Description					40 CFR 60, Appendix A, Method 7E				
Parameter		Manufacturer Name/Model No.									
Code	Description					TBD					
23	Concentration										
Limit				Limit Units							
Upper	Lower			Code	Description						
2.0				275	parts per million by volume (dry, corrected to 15% O2)						
Averaging Method			Monitoring Frequency			Reporting Requirements					
Code	Description		Code	Description		Code	Description				
08	1-hour average		01	Continuous		07	Quarterly				

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Section IV - Emission Unit Information

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements (continuation)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4345	a,b,c,d,e				
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4350					
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4365	a				
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4375	a				
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4380	b				
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4395					
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4400					
U-00001	EP001	P01/P02	CT001	40	CFR	60	KKKK	4405					
U-00001	EP001	P01/P02		6	NYCRR	227	2	4	e				
U-00001	EP001	P01/P02		6	NYCRR	227	2	6	b				
U-00001	EP001	P01/P02		6	NYCRR	243	1	6					
U-00001	EP001	P01/P02		6	NYCRR	243	1	7					
U-00001	EP001	P01/P02		6	NYCRR	243	2						
U-00001	EP001	P01/P02		6	NYCRR	243	3						
U-00001	EP001	P01/P02		6	NYCRR	243	4						
U-00001	EP001	P01/P02		6	NYCRR	243	5						
U-00001	EP001	P01/P02		6	NYCRR	243	6						
U-00001	EP001	P01/P02		6	NYCRR	243	7						
U-00001	EP001	P01/P02		6	NYCRR	243	8						
U-00001	EP001	P01/P02		6	NYCRR	244	1	6					
U-00001	EP001	P01/P02		6	NYCRR	244	1	7					
U-00001	EP001	P01/P02		6	NYCRR	244	2						
U-00001	EP001	P01/P02		6	NYCRR	244	3						
U-00001	EP001	P01/P02		6	NYCRR	244	4						
U-00001	EP001	P01/P02		6	NYCRR	244	5						
U-00001	EP001	P01/P02		6	NYCRR	244	6						
U-00001	EP001	P01/P02		6	NYCRR	244	7						
U-00001	EP001	P01/P02		6	NYCRR	244	8						
U-00001	EP001	P01/P02		6	NYCRR	245	1	6					
U-00001	EP001	P01/P02		6	NYCRR	245	1	7					
U-00001	EP001	P01/P02		6	NYCRR	245	2						
U-00001	EP001	P01/P02		6	NYCRR	245	3						
U-00001	EP001	P01/P02		6	NYCRR	245	4						
U-00001	EP001	P01/P02		6	NYCRR	245	5						
U-00001	EP001	P01/P02		6	NYCRR	245	6						
U-00001	EP001	P01/P02		6	NYCRR	245	7						
U-00001	EP001	P01/P02		6	NYCRR	245	8						
U-00001	EP001	P01/P02		6	NYCRR	231	5	4					
U-00001	EP001	P01/P02		6	NYCRR	231	7	6					
U-00001	EP001	P01/P02		40	CFR	72	A	6	a	3			

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	227	2	4	e	2			
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00001	EP001	P01/P02		NY210- 00 - 0		Oxides of nitrogen			
Monitoring Information									
X Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
" Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (with and without duct burning) as LAER for the proposed project. Meeting the LAER limit will also satisfy the requirements of 6NYCRR 227 2.4 as LAER is more stringent than the limit under this regulation.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 7E			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Manufacturer Name/Model No.			
23		Concentration				TBD			
Limit				Limit Units					
Upper		Lower		Code	Description				
2.0				275	Parts per million by volume (dry, corrected to 15% O2)				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		01	Continuous		07	Quarterly		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	60	KKKK	4345	a,b,c,d,e				
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U- 00001	EP001	P01/P02		NY210- 00 - 0		Oxides of nitrogen			
Monitoring Information									
X Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
" Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (with and without duct burning) as LAER for the proposed project. Meeting the LAER limit will also satisfy the requirements of 40 CFR 60 Subpart KKKK as LAER is more stringent than the limit under this regulation.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 7E			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Manufacturer Name/Model No.			
23		Concentration				TBD			
Limit				Limit Units					
Upper		Lower		Code	Description				
2.0					Parts per million by volume (dry, corrected to 15% O2)				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		01	Continuous		07	Quarterly		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00001	EP001	P01		NY998 - 00 - 0		Volatile organic compounds			
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									
Facility will maintain a VOC emission limit of 1.0 ppmv at 15 percent O2 without duct burning as LAER. This level of emissions will be achieved via good combustion control and an oxidation catalyst. This emission limits applies at all load conditions except startup and shutdown. Stack testing will be used to demonstrate compliance with this limit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 25A			
Parameter		Manufacturer Name/Model No.							
Code	Description				Manufacturer Name/Model No.				
23	Concentration								
Limit		Limit Units							
Upper	Lower	Code	Description						
1.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00001	EP001	P02		NY998 - 00 - 0		Volatile organic compounds			
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									
Facility will maintain a VOC emission limit of 2.0 ppmv at 15 percent O2 with duct burning as LAER. This level of emissions will be achieved via good combustion control and an oxidation catalyst. This emission limits applies at all load conditions except startup and shutdown. Stack testing will be used to demonstrate compliance with this limit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 25A			
Parameter		Manufacturer Name/Model No.							
Code	Description				Manufacturer Name/Model No.				
23	Concentration								
Limit		Limit Units							
Upper	Lower	Code	Description						
2.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				

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Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00001	EP001	P01/P02		630 - 08 - 0		Carbon monoxide			
Monitoring Information									
X 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									
Facility will maintain a CO emission limit of 2.0 ppmv at 15 percent O2 with and without duct burning as BACT for the proposed project. This level of emissions will be achieved via good combustion control and an oxidation catalyst. The facility will use CEMS to monitor CO stack emissions.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 10			
Parameter		Manufacturer Name/Model No.							
Code	Description				TBD				
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
2.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	01	Continuous	07	Quarterly				
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00001	EP001	P01		NY075 - 00 - 0		Particulates			
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									
Facility will maintain a PM10/PM2.5 emission limit of 0.006 lb/MMBtu without duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting only commercially available, pipeline quality natural gas in the turbines and duct burner. The facility will demonstrate compliance with this limit via stack testing.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				EPA RM5, 201/201A & 202			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.006		7	pounds per million Btus						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U- 00001	EP001	P02		NY075 - 00 - 0		Particulates			
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									
Facility will maintain a PM10/PM2.5 emission limit of 0.007 lb/MMBtu with duct burning as BACT. This level of emissions will be achieved by combusting only commercially available, pipeline quality natural gas in the turbines and duct burner. The facility will demonstrate compliance with this limit via stack testing.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				EPA RM5, 201/201A & 202			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.007		7	pounds per million Btus						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		14	As required		10	Upon request		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00001	EP001	P01/P02		7446 - 09 - 5		Sulfur dioxide			
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									
Facility will maintain a SO2 emission limit of 0.0017 lb/MMBtu (with and without duct burning) as BACT. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Manufacturer Name/Model No.			
04	12	Natural gas							
Parameter		Manufacturer Name/Model No.							
Code	Description								
32	Sulfur content								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.5		13	grains per 100 DSCF						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U - 00001	EP001	P01		7664 - 93 - 9		Sulfuric acid mist			
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									
Facility will maintain a sulfuric acid mist limit of 0.00014 lb/MMBtu without duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	012	Natural gas							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit				Limit Units					
Upper		Lower		Code		Description			
0.5				13		grains per 100 DSCF			
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00001	EP001	P02		7664 - 93 - 9		Sulfuric acid mist			
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									
Facility will maintain a sulfuric acid mist limit of 0.0005 lb/mmBtu with duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	012	Natural gas							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit				Limit Units					
Upper		Lower		Code		Description			
0.5				13		grains per 100 DSCF			
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	2	5					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U - 00001	EP001	P03	AUX01	NY210 - 00 - 0		Oxides of nitrogen			
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									
Facility will maintain a NOx emission limit of 0.036 lb/MMBtu or approximately 9 ppmv at 15 percent O2. The auxiliary boiler will use flue gas recirculation in combination with low-NOx burners. The facility will use vendor guarantees and/or stack testing to document compliance with this LAER emission limit, as required.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 7E			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.036		7	lbs per million Btus						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		14	As required		10	Upon request		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	2	5					
" Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U - 00001	EP001	P03	AUX01	NY998 - 08 - 0		Volatile organic compounds			
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									
The facility will maintain a VOC emission limit of 0.005 lb/MMBtu from the auxiliary boiler using good combustion practices in combination. This is considered to represent LAER. The facility will use vendor guarantees and/or stack testing to document compliance with this limit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 25A			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.005		7	lbs per million Btus						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		14	As required		10	Upon request		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U - 00001	EP001	P03	AUX01	630 - 08 - 0		Carbon monoxide			
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									
The facility will maintain a CO emission limit of 0.037 lb/MMBtu from the auxiliary boiler using good combustion practices. This limit represents BACT. The facility will use vendor guarantees and/or stack testing to document compliance with this limit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 10			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.037		7	lbs per million Bus						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		14	As required		10	Upon request.		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U - 00001	EP001	P03	AUX01	NY075 - 00 - 0		Particulates			
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									
The project is proposing the exclusive use of clean-burning pipeline quality natural gas in conjunction with good combustion practices as BACT for the auxiliary boiler. The project will maintain a PM10/PM2.5 emission limit of 0.005 lb/MMBtu in the boiler using natural gas as the only fuel. The facility will use vendor emission guarantees and/or stack testing to ensure compliance with this limit as required.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				EPA RM5, 201/201A, 202			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.005		7	lbs per million Btus						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hr average		14	As required		10	Upon request		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U- 00001	EP001	P03	AUX01	7664 - 09 - 05		Sulfur Dioxide			
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									
The facility will maintain a SO2 emission limit of 0.0016 lb/MMBtu as BACT for the proposed project. In order to maintain this limit, the proposed auxiliary boiler will only combust pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	012	Natural gas							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit			Limit Units						
Upper		Lower		Code	Description				
0.5				13	Grains per 100 DSCF				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum not to be exceeded		14	As required		10	Upon request		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U- 00001	EP001	P03	AUX01	7664 - 93 - 9		Sulfuric acid mist			
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									
The facility will maintain an H2SO4 emission limit of 0.0001 lb/MMBtu as BACT for the proposed project. In order to maintain this limit, the proposed auxiliary boiler will only combust pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	12	Natural gas							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit			Limit Units						
Upper		Lower		Code	Description				
0.5				13	Grains per 100 DSCF				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum not to be exceeded		14	As required		10	Upon request		

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Section IV - Emission Unit Information

Emission Unit Description										" Continuation Sheet(s)
EMISSION UNIT	U	-	0	0	0	0	0	2	This generating unit will fire natural gas exclusively and consist of one CTG, one HRSG with supplemental duct firing, and an associated ACC.	

Building					" Continuation Sheet(s)
Building	Building Name		Length (ft)	Width (ft)	Orientation
CTGEN01	Turbine Generation Building		670	100	0°
HRSG02	Heat Recovery Steam Generator Enclosure		128	160	90°
ACC02	Air Cooled Condenser		190	190	90°

Emission Point							" Continuation Sheet(s)
EMISSION PT.	E	P	0	0	2		
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (EF)	Cross Section		
					Length (in)	Width (in)	
435	283	170	228	235	N/A	N/A	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
69	1,174,582					N/A	
EMISSION PT.							
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (EF)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	

Emission Source/Control								" Continuation Sheet(s)
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.	
ID	Type				Code	Description		
CT002	C	12/2011	3/2015	N/A			F-class Turbine	
Design Capacity	Design Capacity Units			Waste Feed		Waste Type		
	Code	Description		Code	Description	Code	Description	
2000	25	MMBtu/hr, HHV@ ISO conditions						
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.	
ID	Type				Code	Description		
DB002	C	12/2011	3/2015	N/A			HRSG, Duct Burner	
Design Capacity	Design Capacity Units			Waste Feed		Waste Type		
	Code	Description		Code	Description	Code	Description	
481	25	MMBtu/hr, HHV@ ISO conditions						

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Section IV - Emission Unit Information

EMISSION UNIT									
U	-	0	0	0	0	2	Emission Source/Control (continuation)		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
DLN02	K	12/2011	3/2015	N/A	103	Dry Low NOx Burner	TBD		
Design Capacity	Design Capacity Units			Waste Feed		Waste Type			
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
SCR02		12/2011	3/2015	N/A	033	Selective catalytic reduction	TBD		
Design Capacity	Design Capacity Units			Waste Feed		Waste Type			
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
oxc02		12/2011	3/2015	N/A	110	Catalytic oxidation	TBD		
Design Capacity	Design Capacity Units			Waste Feed		Waste Type			
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed		Waste Type			
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed		Waste Type			
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed		Waste Type			
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed		Waste Type			
	Code	Description		Code	Description	Code	Description		

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Section IV - Emission Unit Information (continued)

Process Information										" Continuation Sheet(s)	
EMISSION UNIT U - 0 0 0 0 2										PROCESS P 0 1	
Description											
Process P01 represents natural gas firing in the F-class combustion turbine without supplemental duct firing. Dry low-NOx combustion technology and selective catalytic reduction will be used to control emissions of NOx from the process. An oxidation catalyst will be used to control emissions of CO and VOC. The natural gas HHV is assumed to be 966 Btu per standard cubic foot. Please see Section 2.0 of the application for a more detailed process description.											
Source Classification Code (SCC)		Total Thruput		Thruput Quantity Units							
		Quantity/Hr	Quantity/Yr	Code	Description						
2-01-002-01		2.3	20,530	0115	million cubic feet of natural gas						
" Confidential x Operating at Maximum Capacity " Activity with Insignificant Emissions			Operating Schedule		Building	Floor/Location					
			Hrs/Day	Days/Yr							
			24	365							
Emission Source/Control Identifier(s)											
CT002	DLN02	SCR02	OXC02								
EMISSION UNIT U - 0 0 0 0 2										PROCESS P 0 2	
Description											
Process P02 represents natural gas firing in the F-class combustion turbine with supplemental duct firing. Dry low-NOx combustion technology and selective catalytic reduction will be used to control emissions of NOx from the process. An oxidation catalyst will be used to control emissions of CO and VOC. The natural gas HHV is assumed to be 966 Btu/SCF. Please see Section 2.0 of the application for a more detailed process description.											
Source Classification Code (SCC)		Total Thruput		Thruput Quantity Units							
		Quantity/Hr	Quantity/Yr	Code	Description						
2-01-002-01		2.8	24,557	0115	million cubic feet of natural gas						
" Confidential x Operating at Maximum Capacity " Activity with Insignificant Emissions			Operating Schedule		Building	Floor/Location					
			Hrs/Day	Days/Yr							
			24	365							
Emission Source/Control Identifier(s)											
CT002	DB002	DLN02	SCR02	OXC02							

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Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements								" Continuation Sheet(s)		
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause	
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4320						
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4330	a					
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4333	a					
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4340	b					

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements								" Continuation Sheet(s)		
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause	
U-00002	EP002	P01/P02		6	NYCRR	242	1	6						
U-00002	EP002	P01/P02		6	NYCRR	242	1	7						
U-00002	EP002	P01/P02		6	NYCRR	242	2							
U-00002	EP002	P01/P02		6	NYCRR	242	3							

Emission Unit Compliance Certification										x Continuation Sheet(s)	
Rule Citation											
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause		
6	NYCRR	231	5	4							
x Applicable Federal Requirement				" State Only Requirement			" Capping				
Emission Unit	Emission Point	Process	Emission Source	CAS No.			Contaminant Name				
U-00002	EP002	P01/P02		NY210 - 00 - 0			Oxides of nitrogen				
Monitoring Information											
x Continuous Emission Monitoring				" Monitoring of Process or Control Device Parameters as Surrogate							
" Intermittent Emission Testing				" Work Practice Involving Specific Operations							
" Ambient Air Monitoring				" Record Keeping/Maintenance Procedures							
Description											
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (w/ and w/o duct burning) as LAER.											
This will be achieved through the application of DLN burners in combination with SCR. This limit applies at all load conditions except startup and shutdown. The facility will use CEMS to monitor NOx stack emissions.											
Work Practice		Process Material					Reference Test Method				
Type	Code	Description									
							40 CFR 60, Appendix A, Method 7E				
		Parameter					Manufacturer Name/Model No.				
Code	Description										
23	Concentration					TBD					
Limit				Limit Units							
Upper	Lower	Code		Description							
2.0		275		parts per million by volume (dry, corrected to 15% O2)							
Averaging Method			Monitoring Frequency			Reporting Requirements					
Code	Description		Code	Description		Code	Description				
08	1-hour average		01	Continuous		07	Quarterly				

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Section IV - Emission Unit Information

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements (continuation)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4345	a,b,c,d,e				
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4350					
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4365	a				
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4375	a				
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4380	b				
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4395					
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4400					
U-00002	EP002	P01/P02		40	CFR	60	KKKK	4405					
U-00002	EP002	P01/P02		6	NYCRR	227	2	4	e				
U-00002	EP002	P01/P02		6	NYCRR	227	2	6	b				
U-00002	EP002	P01/P02		6	NYCRR	243	1	6					
U-00002	EP002	P01/P02		6	NYCRR	243	1	7					
U-00002	EP002	P01/P02		6	NYCRR	243	2						
U-00002	EP002	P01/P02		6	NYCRR	243	3						
U-00002	EP002	P01/P02		6	NYCRR	243	4						
U-00002	EP002	P01/P02		6	NYCRR	243	5						
U-00002	EP002	P01/P02		6	NYCRR	243	6						
U-00002	EP002	P01/P02		6	NYCRR	243	7						
U-00002	EP002	P01/P02		6	NYCRR	243	8						
U-00002	EP002	P01/P02		6	NYCRR	244	1	6					
U-00002	EP002	P01/P02		6	NYCRR	244	1	7					
U-00002	EP002	P01/P02		6	NYCRR	244	2						
U-00002	EP002	P01/P02		6	NYCRR	244	3						
U-00002	EP002	P01/P02		6	NYCRR	244	4						
U-00002	EP002	P01/P02		6	NYCRR	244	5						
U-00002	EP002	P01/P02		6	NYCRR	244	6						
U-00002	EP002	P01/P02		6	NYCRR	244	7						
U-00002	EP002	P01/P02		6	NYCRR	244	8						
U-00002	EP002	P01/P02		6	NYCRR	245	1	6					
U-00002	EP002	P01/P02		6	NYCRR	245	1	7					
U-00002	EP002	P01/P02		6	NYCRR	245	2						
U-00002	EP002	P01/P02		6	NYCRR	245	3						
U-00002	EP002	P01/P02		6	NYCRR	245	4						
U-00002	EP002	P01/P02		6	NYCRR	245	5						
U-00002	EP002	P01/P02		6	NYCRR	245	6						
U-00002	EP002	P01/P02		6	NYCRR	245	7						
U-00002	EP002	P01/P02		6	NYCRR	245	8						
U-00002	EP002	P01/P02		6	NYCRR	231	5	4					
U-00002	EP002	P01/P02		6	NYCRR	231	7	6					
U-00002	EP002	P01/P02		40	CFR	72	A	6	a	3			

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	227	2	4	e	2			
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00002	EP002	P01/P02		NY210- 00 - 0		Oxides of nitrogen			
Monitoring Information									
X Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
" Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (with and without duct burning) as LAER for the proposed project. Meeting the LAER limit will also satisfy the requirements of 6NYCRR 227 2.4 as LAER is more stringent than the limit under this regulation.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 7E			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Manufacturer Name/Model No.			
23		Concentration				TBD			
Limit				Limit Units					
Upper		Lower		Code	Description				
2.0				275	Parts per million by volume (dry, corrected to 15% O2)				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		01	Continuous		07	Quarterly		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	60	KKKK	4345	a,b,c,d,e				
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U- 00002	EP002	P01/P02		NY210- 00 - 0		Oxides of nitrogen			
Monitoring Information									
X Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
" Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (with and without duct burning) as LAER for the proposed project. Meeting the LAER limit will also satisfy the requirements of 40 CFR 60 Subpart KKKK as LAER is more stringent than the limit under this regulation.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 7E			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Manufacturer Name/Model No.			
23		Concentration				TBD			
Limit				Limit Units					
Upper		Lower		Code	Description				
2.0					Parts per million by volume (dry, corrected to 15% O2)				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		01	Continuous		07	Quarterly		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00002	EP002	P01		NY998 - 00 - 0		Volatile organic compounds			
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									
Facility will maintain a VOC emission limit of 1.0 ppmv at 15 percent O2 without duct burning as LAER. This level of emissions will be achieved via good combustion control and an oxidation catalyst. This emission limits applies at all load conditions except startup and shutdown. Stack testing will be used to demonstrate compliance with this limit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 25A			
Parameter		Manufacturer Name/Model No.							
Code	Description				Manufacturer Name/Model No.				
23	Concentration								
Limit		Limit Units							
Upper	Lower	Code	Description						
1.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00002	EP002	P02		NY998 - 00 - 0		Volatile organic compounds			
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									
Facility will maintain a VOC emission limit of 2.0 ppmv at 15 percent O2 with duct burning as LAER. This level of emissions will be achieved via good combustion control and an oxidation catalyst. This emission limits applies at all load conditions except startup and shutdown. Stack testing will be used to demonstrate compliance with this limit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 25A			
Parameter		Manufacturer Name/Model No.							
Code	Description				Manufacturer Name/Model No.				
23	Concentration								
Limit		Limit Units							
Upper	Lower	Code	Description						
2.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00002	EP002	P01/P02		630 - 08 - 0		Carbon monoxide			
Monitoring Information									
X Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
" Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a CO emission limit of 2.0 ppmv at 15 percent O2 with and without duct burning as BACT for the proposed project. This level of emissions will be achieved via good combustion control and an oxidation catalyst. The facility will use CEMS to monitor CO stack emissions.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 10			
Parameter		Manufacturer Name/Model No.							
Code	Description	TBD							
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
2.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	01	Continuous	07	Quarterly				
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00002	EP002	P01		NY075 - 00 - 0		Particulates			
Monitoring Information									
" Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
X Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a PM10/PM2.5 emission limit of 0.006 lb/MMBtu without duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting only commercially available, pipeline quality natural gas in the turbines and duct burner. The facility will demonstrate compliance with this limit via stack testing.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				EPA RM5, 201/201A & 202			
Parameter		Manufacturer Name/Model No.							
Code	Description	TBD							
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.006		7	pounds per million Btus						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U- 00002	EP002	P02		NY075 - 00 - 0		Particulates			
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									
Facility will maintain a PM10/PM2.5 emission limit of 0.007 lb/MMBtu with duct burning as BACT. This level of emissions will be achieved by combusting only commercially available, pipeline quality natural gas in the turbines and duct burner. The facility will demonstrate compliance with this limit via stack testing.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				EPA RM5, 201/201A & 202			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.007		7	pounds per million Btus						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		14	As required		10	Upon request		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00002	EP002	P01/P02		7446 - 09 - 5		Sulfur dioxide			
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									
Facility will maintain a SO2 emission limit of 0.0017 lb/MMBtu (with and without duct burning) as BACT. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				EPA RM5, 201/201A & 202			
04	12	Natural gas							
Parameter		Manufacturer Name/Model No.							
Code	Description								
32	Sulfur content								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.5		13	grains per 100 DSCF						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U - 00002	EP002	P01		7664 - 93 - 9		Sulfuric acid mist			
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									
Facility will maintain a sulfuric acid mist limit of 0.00014 lb/MMBtu without duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	012	Natural gas							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit			Limit Units						
Upper		Lower		Code	Description				
0.5				13	grains per 100 DSCF				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00002	EP002	P02		7664 - 93 - 9		Sulfuric acid mist			
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									
Facility will maintain a sulfuric acid mist limit of 0.0005 lb/mmBtu with duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	012	Natural gas							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit			Limit Units						
Upper		Lower		Code	Description				
0.5				13	grains per 100 DSCF				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		

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Section IV - Emission Unit Information

Emission Unit Description										" Continuation Sheet(s)
EMISSION UNIT	U	-	0	0	0	0	3	This generating unit will fire natural gas exclusively and consist of one CTG, one HRSG with supplemental duct firing, and an associated ACC.		

Building					" Continuation Sheet(s)
Building	Building Name	Length (ft)	Width (ft)	Orientation	
CTGEN01	Turbine Generation Building	670	100	0°	
HRSG03	Heat Recovery Steam Generator Enclosure	128	160	90°	
ACC03	Air Cooled Condenser	190	190	90°	

Emission Point							" Continuation Sheet(s)
EMISSION PT.	E	P	0	0	3		
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (EF)	Cross Section		Date of Removal
					Length (in)	Width (in)	
435	283	170	228	235	N/A	N/A	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
69	1,174,582					N/A	
EMISSION PT.							
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (EF)	Cross Section		Date of Removal
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	

Emission Source/Control								" Continuation Sheet(s)
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.	
ID	Type				Code	Description		
CT003	C	12/2011	3/2015	N/A			F-class Turbine	
Design Capacity	Design Capacity Units			Waste Feed		Waste Type		
	Code	Description		Code	Description	Code	Description	
2000	25	MMBtu/hr, HHV@ ISO conditions						
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.	
ID	Type				Code	Description		
DB003	C	12/2011	3/2015	N/A			HRSG, Duct Burner	
Design Capacity	Design Capacity Units			Waste Feed		Waste Type		
	Code	Description		Code	Description	Code	Description	
481	25	MMBtu/hr, HHV@ ISO conditions						

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Section IV - Emission Unit Information

EMISSION UNIT									
U - 0 0 0 0 3									
Emission Source/Control (continuation)									
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
DLN03	K	12/2011	3/2015	N/A	103	Dry low NOx Burner	TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
SCR03		12/2011	3/2015	N/A	033	Selective catalytic reduction	TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
oxc03		12/2011	3/2015	N/A	110	Catalytic oxidation	TBD		
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description	Code	Description		
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units			Waste Feed			Waste Type		
	Code	Description		Code	Description	Code	Description		

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Section IV - Emission Unit Information (continued)

Process Information										" Continuation Sheet(s)									
EMISSION UNIT							U	-	0	0	0	0	3	PROCESS		P	0	1	
Description																			
Process P01 represents natural gas firing in the F-class combustion turbine without supplemental duct firing. Dry low-NOx combustion technology and selective catalytic reduction will be used to control emissions of NOx from the process. An oxidation catalyst will be used to control emissions of CO and VOC. The natural gas HHV is assumed to be 966 Btu per standard cubic foot. Please see Section 2.0 of the application for a more detailed process description.																			
Source Classification Code (SCC)		Total Thruput			Thruput Quantity Units														
		Quantity/Hr	Quantity/Yr		Code			Description											
2-01-002-01		2.3	20,530		0115			million cubic feet of natural gas											
" Confidential ✕ Operating at Maximum Capacity " Activity with Insignificant Emissions				Operating Schedule					Building		Floor/Location								
				Hrs/Day		Days/Yr													
				24		365													
Emission Source/Control Identifier(s)																			
CT003		DLN03			SCR03			OXC03											
EMISSION UNIT							U	-	0	0	0	0	3	PROCESS		P	0	2	
Description																			
Process P02 represents natural gas firing in the F-class combustion turbine with supplemental duct firing. Dry low-NOx combustion technology and selective catalytic reduction will be used to control emissions of NOx from the process. An oxidation catalyst will be used to control emissions of CO and VOC. The natural gas HHV is assumed to be 966 Btu/SCF. Please see Section 2.0 of the application for a more detailed process description.																			
Source Classification Code (SCC)		Total Thruput			Thruput Quantity Units														
		Quantity/Hr	Quantity/Yr		Code			Description											
2-01-002-01		2.8	24,557		0115			million cubic feet of natural gas											
" Confidential ✕ Operating at Maximum Capacity " Activity with Insignificant Emissions				Operating Schedule					Building		Floor/Location								
				Hrs/Day		Days/Yr													
				24		365			CTGEN01										
Emission Source/Control Identifier(s)																			
CT003		DB003			DLN03			SCR03			OXC03								

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Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements								" Continuation Sheet(s)		
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause	
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4320						
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4330	a					
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4333	a					
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4340	b					

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements								" Continuation Sheet(s)		
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause	
U-00003	EP003	P01/P02		6	NYCRR	242	1	6						
U-00003	EP003	P01/P02		6	NYCRR	242	1	7						
U-00003	EP003	P01/P02		6	NYCRR	242	2							
U-00003	EP003	P01/P02		6	NYCRR	242	3							

Emission Unit Compliance Certification										x Continuation Sheet(s)	
Rule Citation											
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause		
6	NYCRR	231	5	4							
x Applicable Federal Requirement				" State Only Requirement			" Capping				
Emission Unit	Emission Point	Process	Emission Source	CAS No.			Contaminant Name				
U-00003	EP003	P01/P02		NY210 - 00 - 0			Oxides of nitrogen				
Monitoring Information											
x Continuous Emission Monitoring				" Monitoring of Process or Control Device Parameters as Surrogate							
" Intermittent Emission Testing				" Work Practice Involving Specific Operations							
" Ambient Air Monitoring				" Record Keeping/Maintenance Procedures							
Description											
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (w/ and w/o duct burning) as LAER.											
This will be achieved through the application of DLN burners in combination with SCR. This limit applies at all load conditions except startup and shutdown. The facility will use CEMS to monitor NOx stack emissions.											
Work Practice		Process Material					Reference Test Method				
Type	Code	Description					40 CFR 60, Appendix A, Method 7E				
Parameter		Manufacturer Name/Model No.									
Code	Description					TBD					
23	Concentration										
Limit				Limit Units							
Upper	Lower	Code		Description							
2.0		275		parts per million by volume (dry, corrected to 15% O2)							
Averaging Method			Monitoring Frequency			Reporting Requirements					
Code	Description		Code	Description		Code	Description				
08	1-hour average		01	Continuous		07	Quarterly				

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Section IV - Emission Unit Information

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements (continuation)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4345	a,b,c,d,e				
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4350					
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4365	a				
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4375	a				
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4380	b				
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4395					
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4400					
U-00003	EP003	P01/P02		40	CFR	60	KKKK	4405					
U-00003	EP003	P01/P02		6	NYCRR	227	2	4	e				
U-00003	EP003	P01/P02		6	NYCRR	227	2	6	b				
U-00003	EP003	P01/P02		6	NYCRR	243	1	6					
U-00003	EP003	P01/P02		6	NYCRR	243	1	7					
U-00003	EP003	P01/P02		6	NYCRR	243	2						
U-00003	EP003	P01/P02		6	NYCRR	243	3						
U-00003	EP003	P01/P02		6	NYCRR	243	4						
U-00003	EP003	P01/P02		6	NYCRR	243	5						
U-00003	EP003	P01/P02		6	NYCRR	243	6						
U-00003	EP003	P01/P02		6	NYCRR	243	7						
U-00003	EP003	P01/P02		6	NYCRR	243	8						
U-00003	EP003	P01/P02		6	NYCRR	244	1	6					
U-00003	EP003	P01/P02		6	NYCRR	244	1	7					
U-00003	EP003	P01/P02		6	NYCRR	244	2						
U-00003	EP003	P01/P02		6	NYCRR	244	3						
U-00003	EP003	P01/P02		6	NYCRR	244	4						
U-00003	EP003	P01/P02		6	NYCRR	244	5						
U-00003	EP003	P01/P02		6	NYCRR	244	6						
U-00003	EP003	P01/P02		6	NYCRR	244	7						
U-00003	EP003	P01/P02		6	NYCRR	244	8						
U-00003	EP003	P01/P02		6	NYCRR	245	1	6					
U-00003	EP003	P01/P02		6	NYCRR	245	1	7					
U-00003	EP003	P01/P02		6	NYCRR	245	2						
U-00003	EP003	P01/P02		6	NYCRR	245	3						
U-00003	EP003	P01/P02		6	NYCRR	245	4						
U-00003	EP003	P01/P02		6	NYCRR	245	5						
U-00003	EP003	P01/P02		6	NYCRR	245	6						
U-00003	EP003	P01/P02		6	NYCRR	245	7						
U-00003	EP003	P01/P02		6	NYCRR	245	8						
U-00003	EP003	P01/P02		6	NYCRR	231	5	4					
U-00003	EP003	P01/P02		6	NYCRR	231	7	6					
U-00003	EP003	P01/P02		40	CFR	72	A	6	a	3			



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Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements (continuation)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
U - 00003	EP003	P01/P02		40	CFR	72	A	9					
U - 00003	EP003	P01/P02		40	CFR	75	A	2					
U - 00003	EP003	P01/P02		40	CFR	75	B	10					
U - 00003	EP003	P01/P02		40	CFR	75	B	11					
U - 00003	EP003	P01/P02		40	CFR	75	B	12					
U - 00003	EP003	P01/P02		40	CFR	75	B	13					
U - 00003	EP003	P01/P02		40	CFR	75	C						
U - 00003	EP003	P01/P02		40	CFR	75	D						
U - 00003	EP003	P01/P02		40	CFR	75	F						
U - 00003	EP003	P01/P02		40	CFR	75	G						
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Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements (continuation)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
U - 00003	EP003	P01/P02		6	NYCRR	242	3						
U - 00003	EP003	P01/P02		6	NYCRR	242	4						
U - 00003	EP003	P01/P02		6	NYCRR	242	5						
U - 00003	EP003	P01/P02		6	NYCRR	242	6						
U - 00003	EP003	P01/P02		6	NYCRR	242	7						
U - 00003	EP003	P01/P02		6	NYCRR	242	8						
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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	227	2	4	e	2			
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00003	EP003	P01/P02		NY210- 00 - 0		Oxides of nitrogen			
Monitoring Information									
X Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
" Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (with and without duct burning) as LAER for the proposed project. Meeting the LAER limit will also satisfy the requirements of 6NYCRR 227 2.4 as LAER is more stringent than the limit under this regulation.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 7E			
Parameter		Manufacturer Name/Model No.							
Code	Description				Manufacturer Name/Model No.				
23	Concentration				TBD				
Limit		Limit Units							
Upper	Lower	Code	Description						
2.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	01	Continuous	07	Quarterly				
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	60	KKKK	4345	a,b,c,d,e				
X Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U- 00003	EP003	P01/P02		NY210- 00 - 0		Oxides of nitrogen			
Monitoring Information									
X Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
" Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a NOx emission limit of 2.0 ppmv at 15 percent O2 (with and without duct burning) as LAER for the proposed project. Meeting the LAER limit will also satisfy the requirements of 40 CFR 60 Subpart KKKK as LAER is more stringent than the limit under this regulation.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 7E			
Parameter		Manufacturer Name/Model No.							
Code	Description				Manufacturer Name/Model No.				
23	Concentration				TBD				
Limit		Limit Units							
Upper	Lower	Code	Description						
2.0			Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	01	Continuous	07	Quarterly				

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Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00003	EP003	P01		NY998 - 00 - 0		Volatile organic compounds			
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									
Facility will maintain a VOC emission limit of 1.0 ppmv at 15 percent O2 without duct burning as LAER. This level of emissions will be achieved via good combustion control and an oxidation catalyst. This emission limits applies at all load conditions except startup and shutdown. Stack testing will be used to demonstrate compliance with this limit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 25A			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit		Limit Units							
Upper	Lower	Code	Description						
1.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00003	EP003	P02		NY998 - 00 - 0		Volatile organic compounds			
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									
Facility will maintain a VOC emission limit of 2.0 ppmv at 15 percent O2 with duct burning as LAER. This level of emissions will be achieved via good combustion control and an oxidation catalyst. This emission limits applies at all load conditions except startup and shutdown. Stack testing will be used to demonstrate compliance with this limit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60, Appendix A, Method 25A			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit		Limit Units							
Upper	Lower	Code	Description						
2.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				

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Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00003	EP003	P01/P02		630 - 08 - 0		Carbon monoxide			
Monitoring Information									
☒ Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
" Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a CO emission limit of 2.0 ppmv at 15 percent O2 with and without duct burning as BACT for the proposed project. This level of emissions will be achieved via good combustion control and an oxidation catalyast. The facility will use CEMS to monitor CO stack emissions.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60, Appendix A, Method 10			
Parameter		Manufacturer Name/Model No.							
Code	Description	Manufacturer Name/Model No.							
23	Concentration	TBD							
Limit		Limit Units							
Upper	Lower	Code	Description						
2.0		275	Parts per million by volume (dry, corrected to 15% O2)						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	01	Continuous	07	Quarterly				
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00003	EP003	P01		NY075 - 00 - 0		Particulates			
Monitoring Information									
" Continuous Emission Monitoring			" Monitoring of Process or Control Device Parameters as Surrogate						
☒ Intermittent Emission Testing			" Work Practice Involving Specific Operations						
" Ambient Air Monitoring			" Record Keeping/Maintenance Procedures						
Description									
Facility will maintain a PM10/PM2.5 emission limit of 0.006 lb/MMBtu without duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting only commercially available, pipeline quality natural gas in the turbines and duct burner. The facility will demonstrate compliance with this limit via stack testing.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Reference Test Method			
						EPA RM5, 201/201A & 202			
Parameter		Manufacturer Name/Model No.							
Code	Description	Manufacturer Name/Model No.							
23	Concentration								
Limit		Limit Units							
Upper	Lower	Code	Description						
0.006		7	pounds per million Btus						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-hour average	14	As required	10	Upon request				

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Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U- 00003	EP003	P02		NY075 - 00 - 0		Particulates			
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									
Facility will maintain a PM10/PM2.5 emission limit of 0.007 lb/MMBtu with duct burning as BACT. This level of emissions will be achieved by combusting only commercially available, pipeline quality natural gas in the turbines and duct burner. The facility will demonstrate compliance with this limit via stack testing.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				EPA RM5, 201/201A & 202			
Parameter		Manufacturer Name/Model No.							
Code	Description								
23	Concentration								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.007		7	pounds per million Btus						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		14	As required		10	Upon request		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00003	EP003	P01/P02		7446 - 09 - 5		Sulfur dioxide			
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									
Facility will maintain a SO2 emission limit of 0.0017 lb/MMBtu (with and without duct burning) as BACT. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description				Manufacturer Name/Model No.			
04	12	Natural gas							
Parameter		Manufacturer Name/Model No.							
Code	Description								
32	Sulfur content								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.5		13	grains per 100 DSCF						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U - 00003	EP003	P01		7664 - 93 - 9		Sulfuric acid mist			
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									
Facility will maintain a sulfuric acid mist limit of 0.00014 lb/MMBtu without duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	012	Natural gas							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit			Limit Units						
Upper		Lower		Code		Description			
0.5				13		grains per 100 DSCF			
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		
Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					
☒ Applicable Federal Requirement			" State Only Requirement			" Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
U-00003	EP003	P02		7664 - 93 - 9		Sulfuric acid mist			
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									
Facility will maintain a sulfuric acid mist limit of 0.0005 lb/mmBtu with duct burning as BACT for the proposed project. This level of emissions will be achieved by combusting commercially available, pipeline quality natural gas with a maximum sulfur content of 0.5 grains/100 SCF in the combustion turbines.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
04	012	Natural gas							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
32		Sulfur content							
Limit			Limit Units						
Upper		Lower		Code		Description			
0.5				13		grains per 100 DSCF			
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
01	Maximum, not to be exceeded		14	As required		10	Upon request		

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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							" Continuation Sheet(s)			
EMISSION UNIT		-					PROCESS		-	-
CAS No.	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined	
-	-									
PTE			Standard Units		PTE How Determined		Actual			
(lbs/hr)	(lbs/yr)	(standard units)				(lbs/hr)	(lbs/yr)			
EMISSION UNIT		-					PROCESS		-	-
CAS No.	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined	
-	-									
PTE			Standard Units		PTE How Determined		Actual			
(lbs/hr)	(lbs/yr)	(standard units)				(lbs/hr)	(lbs/yr)			
EMISSION UNIT		-					PROCESS		-	-
CAS No.	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined	
-	-									
PTE			Standard Units		PTE How Determined		Actual			
(lbs/hr)	(lbs/yr)	(standard units)				(lbs/hr)	(lbs/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 (lbs/yr)	PTE Emissions			Actual			
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.		Contaminant Name					
- -							
ERP (lbs/yr)	PTE Emissions			Actual			
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.		Contaminant Name					
- -							
ERP (lbs/yr)	PTE Emissions			Actual			
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.		Contaminant Name					
- -							
ERP (lbs/yr)	PTE Emissions			Actual			
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	

Compliance Plan												" Continuation Sheet(s)	
For any emission units which are <u>not in compliance</u> at the time of permit application, the applicant shall complete the following													
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 ____ / ____ / ____										Reduction																	
										Date						Method											
										____ / ____ / ____																	
CAS No.					Contaminant Name					ERC (lbs/yr)																	
										Netting						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 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						Offset											
-		-			-																						
-		-			-																						
-		-			-																						



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Supporting Documentation

- ✕ P.E. Certification (form attached)
- " List of Exempt Activities (form attached)
- ✕ Plot Plan
- " Methods Used to Determine Compliance (form attached)
- ✕ 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 (____ / ____ / ____)
- " Other Document(s): _____ (____ / ____ / ____)
_____ (____ / ____ / ____)
_____ (____ / ____ / ____)
_____ (____ / ____ / ____)
_____ (____ / ____ / ____)
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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. David C. Hoffman

Signature of P.E.

Date 03 / 23 / 10

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