CPV Valley Energy Center
3330 Route 6
Middletown, NY 10940

August 24, 2018

Regional Air Pollution Control Engineer
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, NY 12561
Certified Mail: 7017 0190 0000 0941 2706

Division of Air Resources
NYSDEC – Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258
Certified Mail: 7017 0190 0000 0941 2713

USEPA Region II
Air Compliance Branch
290 Broadway
New York, NY 10007-1866
Certified Mail: 7017 0190 0000 0941 2720

John Petronella
NYSDEC Region 3 Permit Administrator
21 South Putt Corners Rd.
New Paltz, NY 12561-1620
Certified Mail: 7017 1090 0000 0941 2737

Re: CPV Valley Energy Center
Title V and Title IV Acid Rain Permit Application

Dear Sir / Madam:

CPV Valley Energy Center is submitting the Title V and Title IV Acid Rain permit application to New York State Department of Environmental Conservation (NYSDEC) in accordance with the Title 6 of the New York Codes, Rules and Regulations (NYCRR) Section 201-6.2. A completed Title V permit application and supporting documentation is included in ***Attachment 1***. The Title IV Acid Rain permit application is included in ***Attachment 2***. CPV Valley Energy Center looks forward to working with the Department on the Title IV and Title V application process. If you have any questions or require further information regarding this submission, please feel free to contact me at 781-848-2202.

Sincerely,

Don Atwood
Competitive Power Ventures, Inc.
Asset Manager Representative

CC: Ben Stanley
Christopher Hogan
Chris Allgeier

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 1

Title V Certification And Application Forms

New York State Department of Environmental Conservation
Air Permit Application

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEC ID	Application ID	Application Type
3-3356-00013 6	- - /	State Facility × Title V

Section I - Certification

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 to complete this application, 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 Donald Atwood	Title Asset Management Rep.
Signature	Date 08-24-2018

Professional Engineer 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. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Professional Engineer Peter T. Behmen	NYS License No. 082540
Signature	Date 08-27-2018

Section II - Identification Information

Type of Permit Action Requested

× New Renewal Significant Modification Administrative Amendment Minor Modification

Application for the construction of a new facility Application involves the construction of new emission unit(s)

Facility Information

Name CPV Valley Energy Center

Location Address 3330 Route 6

× City / Town / Village Middletown, NY Zip 10940

Owner/Firm Information

Business Taxpayer ID [redacted]

Name CPV Valley LLC.

Street Address 8403 Colesville Road Suite 915

City Silver Spring | State/Province MD | Country US | Zip 20910

Owner Classification: Federal State Municipal × Corporation/Partnership Individual

Owner/Firm Contact Information

Name Donald Atwood | Phone 781-848-2202

E-mail Address Datwood@cpv.com | Fax

Affiliation Asset Management Represenative | Title Asset Management Rep.

Street Address 50 Braintree Hill Office Park Suite 300

City Braintree | State/Province MA | Country US | Zip 02184

Facility Contact Information

Name Ben Stanley | Phone 845-649-8300

E-mail Address b.stanley@dgc-ops.com | Fax

Affiliation Operator | Title Plant Manager

Street Address 3330 Route 6

City Middletown | State/Province NY | Country US | Zip 10940

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DEC ID
3-3356-00136

Project Description × Continuation Sheet(s)

CPV Valley, LLC owns and operates the CPV Valley Energy Center, a 680 megawatt (MW) natural gas-fired electric generating facility. The CPV Valley Energy Center will use ultra-low sulfur distillate oil for back-up for reliability purposes. The CPV facility will use "combined cycle" generation technology and will be comprised of two combined-cycle units, each consisting of a combustion turbine generator (CTG), a Heat Recovery Steam Generator (HRSG) with supplemental duct firing, and a steam turbine generator (STG).

Section III - Facility Information

Facility Classification

Hospital | Residential | Educational/Institutional | Commercial | Industrial | × Utility

Affected States (Title V Applications Only)

Vermont | Massachusetts | Rhode Island | × Pennsylvania | Tribal Land: N/A
New Hampshire | × Connecticut | × New Jersey | Ohio | Tribal Land: N/A

SIC Code(s)			NAICS Code(s)			
4911			221112			

Facility Description × Continuation Sheet(s)

The CPV Valley Energy Center consists of two dual fuel-fired Siemens F-class combustion turbine generators (CTGs), with a nominal heat input of 2,234 mm Btu/hr, each when operating on natural gas at base load, two 500 mmBtu/hr supplementary natural gas-fired duct burners, two heat recovery steam generators.

Compliance Statements (Title V Applications Only)

I certify that as of the date of this application the facility is in compliance with all applicable requirements. × Yes No

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 the facility that are operating in compliance with all applicable requirements, complete the following:

× This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those emission units referenced in the compliance plan portion 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 such requirements on a timely basis.

× Compliance certification reports will be submitted at least once per year. Each report will certify compliance status with respect to each applicable requirement, and the method used to determine the status.

Facility Applicable Federal Requirements × Continuation Sheet(s)

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
40	CFR	82	F						
40	CFR	72	A						
40	CFR	60	A	3,7,8,11					
40	CFR	60	A	12,13,19					

Facility State Only Requirements × Continuation Sheet(s)

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	293							
6	NYCRR	202	1						
6	NYCRR	202	2						
6	NYCRR	621							

New York State Department of Environmental Conservation
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3	-	3	3	5	6	-	0	0	1	3	6

Section II - Identification Information

Project Description (continuation)

Auxiliary equipment includes a low nitrogen oxide (NOx) natural gas-fired auxiliary boiler, needed to keep the HRSGs warm during periods of turbine shutdown and to provide sealing steam during startups. The stacks for the facility are 275 feet tall. The project is located on an approximately 122-acre site in Wawayanda, Orange County, New York. The project activities are located on an approximately 21-acre area that is bounded to the east by State Route 17M/6; to the north by State Route 6 and to the south by Interstate 84.

DEC ID										
3	-	3	3	5	6	-	0	0	1	3	6

Section III - Facility Information

Facility Description (continuation)

(HRSGs) and a single steam turbine generator (STG). Supporting ancillary equipment includes a 48.1 mmBtu/hr natural gas fired auxiliary boiler, a 10.08 mmBtu/hr ULSD emergency generator, one dew point heater with two 4.48 mmBtu/hr fuel gas burners and a 1.96 mmBtu/hr ULSD fire water pump engine. The CTGs are fueled by natural gas. Ultra-low sulfur diesel may be used as backup fuel for up to 720 hours per year per turbine. The duct burners will fire natural gas exclusively. The CTGs utilize dry low-NOx (DLN) combustors for gas firing and water injection for control of nitrogen oxides (NOx) when firing ultra-low sulfur diesel. Selective catalytic reduction (SCRs) systems are used to further control NOx emissions. Oxidation catalysts and efficient combustion controls will be used to control emissions of carbon monoxide (CO) as well as volatile organic compounds (VOCs). Emissions of SO2 and PM/PM-10 are minimized through the use of pipeline natural gas and ULSD as backup, as well as efficient combustion controls. Upon leaving the SCRs, turbines gases are directed to individual stacks at 275 feet above grade with a flue diameter of 19 feet. In addition, CTGs inlet air will be cooled using an evaporative cooler when ambient temperatures are high, to improve CTGs efficiency.

The auxiliary boiler employs low-NOx burners (LNB) and flue gas recirculation (FGR) to control emissions of NOx. The auxiliary boiler will operate as needed for any start up condition to keep the HRSG warm during periods of turbine shutdown and to provide sealing steam to the steam turbine in the case of warm and hot startups. Total boiler hours for the facility will be limited to 2,000 hours per year.

The dew point fuel gas heater employs two forced draft burners to reduce NOx emissions. The unit will heat the natural gas to optimum firing temperature. The dew point heaters is proposed to operate up to 8,760 hours per year.

The emergency diesel fire pump will provide on-site fire fighting capability independent of the utility grid. The emergency diesel generator will be operated only for testing and to maintain operational readiness or if needed for emergency operation. Each emergency engine will be allowed to operate for up to 500 hours per year.

A 1.3 megawatt or similar emergency mobile back up may be used only for testing and to maintain operational readiness or it needed for emergency operation.

The five space heaters are used inside the generation buildings for temperature regulation.

The 930,900 gallon fuel oil storage tank, 600 gallon emergency diesel generator storage tank, and 500 gallon emergency diesel fire pump storage tank are maintained at the facility.

Only the facility's combustion turbines, duct burners and auxiliary boiler are subject to NYSDEC NOx RACT provisions.

The dew point heater, the emergency diesel generator, the emergency diesel fire pump, the five space heaters, the mobile backup generator, the fuel oil storage tank, and the emergency diesel storage tanks are exempt activities pursuant to Part 201-3.2.

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3	-	3	3	5	6	-	0	0	1	3	6

Section III - Facility Information

Facility Applicable Federal Requirements (continuation)

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
40	CFR	60	KKKK						
40	CFR	60	IIII						
40	CFR	60	Dc						
40	CFR	60	TTTT						
40	CFR	75	A,B,C,D						
40	CFR	75	F,G						
40	CFR	52	HH						
40	CFR	72	A	6	a	3			
40	CFR	72	A	9					

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3	-	3	3	5	6	-	0	0	1	3	6

Section III - Facility Information

Facility State Only Requirements (continuation)									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	200	3						
6	NYCRR	200	5						
6	NYCRR	200	6						
6	NYCRR	200	7						
6	NYCRR	201	1						
6	NYCRR	201	2						
6	NYCRR	201	3	1					
6	NYCRR	201	3	2					
6	NYCRR	201	3	3					
6	NYCRR	201	6	1	a				
6	NYCRR	201	6	1	b				
6	NYCRR	201	6	2,3					
6	NYCRR	201	6	4					
6	NYCRR	201	6	5					
6	NYCRR	201	6	6					
6	NYCRR	202	1	1					
6	NYCRR	202	1	2					
6	NYCRR	202	1	3					
6	NYCRR	202	1	5					
6	NYCRR	207							
6	NYCRR	211	1,2						
6	NYCRR	215							
6	NYCRR	225	1	6	a				
6	NYCRR	225	1	6	b				
6	NYCRR	225	1	2	h				
6	NYCRR	227	1,2						
6	NYCRR	231	2	1					
6	NYCRR	231	2	2					
6	NYCRR	231	2	3					
6	NYCRR	231	2	4					
6	NYCRR	231	2	5					

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DEC ID										
3	-	3	3	5	6	-	0	0	1	3	6

Section III - Facility Information

Facility State Only Requirements (continuation)									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	2	6					
6	NYCRR	231	2	9					
6	NYCRR	231	2	10					
6	NYCRR	231	2	12					
6	NYCRR	621	11						
6	NYCRR	621	13						
6	NYCRR	621	6	a					
6	NYCRR	251	3	a					
6	NYCRR	201	5						
6	NYCRR	201	7						
6	NYCRR	242	1	5					
6	NYCRR	231	5	3					
6	NYCRR	231	5	4					
6	NYCRR	231	5	5					
6	NYCRR	231	7	5					
6	NYCRR	231	7	6					
6	NYCRR	243							
6	NYCRR	244							
6	NYCRR	245							
6	NYCRR	227	1	3	a				
6	NYCRR	231	2						
6	NYCRR	201	1	4					
6	NYCRR	201	5						
6	NYCRR	201	1	11					
6	NYCRR	201	1	12					
6	NYCRR	201	1	13					

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Facility Compliance Certification × Continuation Sheet(s)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	227	1	3	a				

× Applicable Federal Requirement _ State Only Requirement	Capping	CAS Number	Contaminant Name

Monitoring Information

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

Compliance Activity Description

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60. The opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and all other applicable conditions cited in section 40CFR 60.11.

Work Practice Type Code	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60, Method 9

Monitored Parameter Code	Monitored Parameter Description	Manufacturer's Name/Model Number
01	Opacity	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
20	0	136	Percent

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
18	6-min average	14	As required	10	Upon Request

Facility Emissions Summary × Continuation Sheet(s)

CAS Number	Contaminant Name	Potential to Emit (tons/yr)	Actual Emissions (pounds/yr)
0NY075 - 00 - 5	PM-10	95.0	
0NY750 - 02 - 5	PM-2.5	95.0	
007446 - 09 - 5	Sulfur Dioxide	42.0	
0NY210 - 00 - 0	Oxides of Nitrogen	183.0	
000630 - 08 - 0	Carbon Monoxide	341.5	
007439 - 92 - 1	Lead (elemental)	0.02	
0NY998 - 00 - 0	Total Volatile Organic Compounds	64.0	
0NY100 - 00 - 0	Total Hazardous Air Pollutants	13.94	
0NY750 - 00 - 0	Carbon Dioxide Equivalents	2,164,438.0	
007664-93-9	Sulfuric Acid	13.0	
007664-41-7	Ammonia	104.8	

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Section III - Facility Information

Facility Emissions Summary (continuation)

CAS No.	Contaminant Name	PTE		Actual (lbs/yr)
		(lbs/yr)	Range	
106-99-0	1,3 Butadiene	6.50E+01	Y	
71-55-6	1, 1, 1-Trichloroethane	0.00E+00	Y	
56-49-5	3-Methylchloranthrene	4.49E-03	Y	
57-97-6	7, 12-Dimethylbenz(a)anthracene	4.40E-02	Y	
83-32-9	Acenaphthene	4.50E+01	Y	
208-96-8	Acenaphthylene	3.62E+00	Y	
75-07-0	Acetaldehyde	1.57E+03	Y	
107-02-8	Acrolein	2.50E+02	Y	
120-12-7	Anthracene	6.54E+00	Y	
07440-38-2	Arsenic	3.46E+01	Y	
56-55-3	Benz(a)anthracene	1.11E+01	Y	
71-43-2	Benzene	2.12E+03	Y	
50-32-8	Benzo(a)pyrene	2.24E+00	Y	
205-99-2	Benzo(b)fluoranthene	6.02E+00	Y	
191-24-2	Benzo(g, h, i)perylene	6.54E+00	Y	
207-08-9	Benzo(k)fluoranthene	6.02E+00	Y	
07740-41-7	Beryllium	9.90E-01	Y	
07740-43-9	Cadmium	1.78E+01	Y	
07740-47-3	Chromium	3.78E+01	Y	
218-01-9	Chrysene	7.82E+00	Y	
07740-48-4	Cobalt	2.30E-01	Y	
53-70-3	Dibenzo(a, h)anthracene	5.38E+00	Y	
106-46-7	Dichlorobenzene	3.30E+00	Y	
100-41-4	Ethylbenzene	1.25E+03	Y	
206-44-0	Fluoranthene	1.48E+01	Y	
7782-96-5	Fluorene	1.39E+01	Y	
50-00-0	Formaldehyde	5.02E+03	Y	
110-54-3	Hexane	4.94E+03	Y	
193-39-5	Indeno(1,2,3-cd)pyrene	7.34E+00	Y	
07439-92-1	Lead	4.46E+01	Y	

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Section III - Facility Information

Facility Emissions Summary (continuation)

CAS No.	Contaminant Name	PTE		Actual
		(lbs/yr)	Range	(lbs/yr)
07439-96-5	Manganese	2.44E+00	Y	
07439-97-6	Mercury	4.42E+00	Y	
133-02-7	Xylenes	2.50E+03	Y	
91-20-3	Naphthalene	1.57E+02	Y	
0770-02-0	Nickel	4.32E+01	Y	
130498-29-2	PAH	2.02E+02	Y	
85-01-8	Phenanthrene	5.00E+01	Y	
	POM	0.00E+00	Y	
75-56-9	Propylene Oxide	1.13E+03	Y	
129-00-0	Pyrene	1.70E+01	Y	
07782-49-2	Selenium	7.72E+01	Y	
108-88-3	Toluene	5.10E+03	Y	
56-23-5	Carbon Tetrachloride	7.08E+01	Y	
75-01-4	Vinyl Chloride	1.22E+02	Y	
79-01-06	Trichloroethylene	6.36E+01	Y	
127-18-4	Tetrachloroethylene (Perchloroethylene)	7.50E+01	Y	
7440-62-2	Vanadium	6.32E+00	Y	

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Section IV - Emission Unit Information

Emission Unit Description	Continuation Sheet(s)
Emission Unit: U-00001	

One Siemens SGT6-5000 F-Class combustion turbine which has a nominal rating of 1,998 mm Btu/hr at 51 °F (2,234 mmBtu/hr at -5°F) on natural gas and (2,145 mmBtu/hr at -5°F) on fuel oil (<0.0015% sulfur). The turbine is equipped with dry low-NOx combustors, steam injection, SCR and oxidation catalyst emission controls. This emission unit also contains a natural gas-fired duct burner rated at a nominal capacity of 500 mmBtu/hr.

Building Information — Continuation Sheet(s)

Building ID	Building Name	Length (ft)	Width (ft)	Orientation
GEN01	Generation Building	300	260	North
ACC01	Air Cooled Condenser	296	327	North
HRSG01	Heat Recovery Steam Generator - Inside Generation Building	160	105	North

Emission Unit: U-00001

Emission Unit Emissions Summary — * Continuation Sheet(s)

CAS Number	Contaminant Name			
0NY075-00-0	Particulates			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		94,200.0		
CAS Number	Contaminant Name			
0NY075-00-5	PM-10			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		94,200.0		
CAS Number	Contaminant Name			
0NY750-02-5	PM-2.5			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		94,200.0		
CAS Number	Contaminant Name			
0NY210-00-0	Oxides of Nitrogen			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		174,900.0		

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Section IV - Emission Unit Information

Emission Unit	Emission Unit Emissions Summary (continuation)			
U-00001				
CAS No.	Contaminant Name			
000630 - 08 - 0	Carbon Monoxide			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		334,000.0		
CAS No.	Contaminant Name			
007446 - 09 - 5	Sulfur Dioxide			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		41,000.0		
CAS No.	Contaminant Name			
0NY998 - 00 - 0	Volatile Organic Compounds			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		62,800.0		
CAS No.	Contaminant Name			
0NY100 - 00 - 0	Total Hazardous Air Pollutants			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		13,770.0		
CAS No.	Contaminant Name			
0NY750 - 00 - 0	Carbon Dioxide Equivalents			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		2,164,438,000.0		
CAS No.	Contaminant Name			
007664-93-9	Sulfuric Acid			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		12,600.0		
CAS No.	Contaminant Name			
007664-41-7	Ammonia			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		104,800.0		

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Section IV - Emission Unit Information

Emission Unit	Emission Unit Emissions Summary (continuation)			
U - 0 0 0 0 1				
CAS No.	Contaminant Name			
007439 - 92 - 1	Lead (elemental)			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		22.30		
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)

Continuation Sheet 2 of 2

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Emission Point Information

Continuation Sheet(s)

Emission Point	EP001					
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
496	275	140	228	195		
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**
74.26	1,310,911	546.98048	4584.69287		178	

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section 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 Information

× Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
CT001	C	08/2015	01/2018				Siemens SGT6-5000 Class-F Turbine

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
2234	25	mmBtu/hr				

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
DB001	C	08/2015	01/2018				Forney Duct Burner

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
500	25	mmBtu/hr				

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
DLN01	K	08/2015	01/2018		103	dry low NOx burner	

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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Emission Source/Control (continuation)

Emission Unit: U-00001

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
STI01	K	08/2015	01/2018		028	steam or water injection	
SCR01	K	08/2015	01/2018		033	selective catalytic reduction (SCR)	YARA SCR
OXY01	K	08/2015	01/2018		110	catalytic oxidation	SYNERGY

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

Continuation Sheet 1 of 1

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Process Information * Continuation Sheet(s)

Emission Unit	U-00001	Process	P1A

Process Description

Process P1A represents natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine, which has a nominal rating of 2,234 mmBtu/hr at -5°F (maximum heat input scenario). Dry low-NOx combustion technology, selective catalytic reduction (SCR) and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC. The quantity per hour throughput listed below represents the nominal firing rate (2,234 mm Btu/hr at -5°F) and the quantity per year throughput represents the turbine at the firing rate at the annual average ambient temperature of 51 °F (1,998 mmBtu/hr). Natural gas Higher Heating Value (HHV) is assumed to be 1,048 Btu/cubic foot.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-002-01	2.13	1,690.51	0115	million cubic feet of natural gas

Confidential / * Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	24	365		

Emission Point Identifier(s)

CT001	DLN01	SCR01	OXY01			

Emission Source/Control Identifier(s)

Emission Unit	U-00001	Process	P2A

Process Description

Process P2A represents combined natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine, which has a nominal rating of 2,234 mmBtu/hr at -5°F (maximum heat input scenario) and natural gas firing with in the duct burner, which has a nominal rating of 500 mmBtu/hr. Dry low-NOx combustion technology, selective catalytic reduction (SCR) and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC. The quantity per hour throughput listed below represents the maximum firing rate of the turbine (2,234 mmBtu/hr at -5°F) plus the duct burner at rated capacity (500 mm Btu/hr) and the quantity per year throughput represents 8,760 hours of natural gas firing in the turbine at the annual average ambient temperature of 51 °F (1,998 mmBtu/hr) plus 2,628 hours of natural gas firing in the duct burner at rated capacity (500 mmBtu/hr). Natural gas Higher Heating Value (HHV) is assumed to be 1,048 Btu/cubic foot.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-002-01	2.61	1,690.51	0115	million cubic feet of natural gas

Confidential / * Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	24	365		

Emission Point Identifier(s)

CT001	DB001	DLN01	SCR01	OXY01		

Emission Source/Control Identifier(s)

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Process Information (continuation)

Emission Unit	U-00001	Process	P3A

Description

Process P3A represents fuel oil firing in the Class-F combustion turbine, which has a nominal rating of 2,145 mm Btu/hr at -5 F (maximum heat input scenario). Dry low-NOx combustion technology, steam or water injection, selective catalytic reduction (SCR) and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC. The quantity per hour throughput listed below represents the nominal firing rate (2,145 mm Btu/hr at -5 F) and the quantity per year fuel oil firing at the firing rate at -5 F ambient temperature. Fuel oil Higher Heating Value (HHV) is assumed to be 139,728 throughput represents 720 hours of Btu/gallon.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-001-01	15.351	10,017	0607	1000 gallons burned

☐ Confidential ☒ Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		
	24	30		

Emission Point Identifier(s)

CT001	DLN01	STI01	SCR01	OXY01		

Emission Source/Control Identifier(s)

Emission Unit		Process	

Description

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

☐ Confidential ☐ Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

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Emission Unit Description		Continuation Sheet(s)
Emission Unit	U-00002	

One Siemens SGT6-5000 F-Class combustion turbine which has a nominal rating of 1,998 mm Btu/hr at 51 °F (2,234 mmBtu/hr at -5°F) on natural gas and (2,145 mmBtu/hr at -5°F) on fuel oil (<0.0015% sulfur). The turbine is equipped with dry low-NOx combustors, steam injection, SCR and oxidation catalyst emission controls. This emission unit also contains a natural gas-fired duct burner rated at a nominal capacity of 500 mmBtu/hr.

Building Information — Continuation Sheet(s)

Building ID	Building Name	Length (ft)	Width (ft)	Orientation
GEN02	Generation Building	300	260	North
ACC02	Air Cooled Condenser	296	327	North
HRSG02	Heat Recovery Steam Generator - Inside Generation Building	160	105	North

Emission Unit: U-00002 — **Emission Unit Emissions Summary** — * Continuation Sheet(s)

CAS Number	Contaminant Name			
0NY075-00-0	Particulates			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		94,200.0		
CAS Number	**Contaminant Name**			
0NY075-00-5	PM-10			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		94,200.0		
CAS Number	**Contaminant Name**			
0NY750-02-5	PM-2.5			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		94,200.0		
CAS Number	**Contaminant Name**			
0NY210-00-0	Oxides of Nitrogen			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		174,900.0		

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Emission Unit U-00002	Emission Unit Emissions Summary (continuation)			
CAS No.	Contaminant Name			
000630 - 08 - 0	Carbon Monoxide			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		334,000.0		
CAS No.	Contaminant Name			
007446 - 09 - 5	Sulfur Dioxide			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		41,000.0		
CAS No.	Contaminant Name			
0NY998 - 00 - 0	Volatile Organic Compounds			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		62,800.0		
CAS No.	Contaminant Name			
0NY100 - 00 - 0	Total Hazardous Air Pollutants			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		13,770.0		
CAS No.	Contaminant Name			
0NY750 - 00 - 0	Carbon Dioxide Equivalents			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		2,164,438,000.0		
CAS No.	Contaminant Name			
007664-93-9	Sulfuric Acid			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		12,600.0		
CAS No.	Contaminant Name			
007664-41-7	Ammonia			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		104,800.0		

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Emission Unit	Emission Unit Emissions Summary (continuation)			
U - 0 0 0 0 2				
CAS No.	Contaminant Name			
007439 - 92 - 1	Lead (elemental)			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		22.30		
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
ERP (lbs/yr)	PTE Emissions		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)

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Emission Point Information

Continuation Sheet(s)

Emission Point	EP002					
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
496	275	140	228	195		
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**
76.91	1,357,528	546.99053	4584.65455		305	

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section 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 Information

× Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
CT002	C	08/2015	01/2018				Siemens SGT6-5000 Class-F Turbine

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
2234	25	mmBtu/hr				

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
DB002	C	08/2015	01/2018				Forney Duct Burner

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
500	25	mmBtu/hr				

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
DLN02	K	08/2015	01/2018		103	dry low NOx burner	

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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Section IV - Emission Unit Information

Emission Source/Control (continuation)

Emission Unit: U-00002

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
STI02	K	08/2015	01/2018		028	steam or water injection	
SCR02	K	08/2015	01/2018		033	selective catalytic reduction (SCR)	YARA SCR
OXY02	K	08/2015	01/2018		110	catalytic oxidation	SYNERGY

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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Process Information * Continuation Sheet(s)

Emission Unit	U-00002	Process	P01

Process Description

Process P01 represents natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine, which has a nominal rating of 2,234 mmBtu/hr at -5°F (maximum heat input scenario). Dry low-NOx combustion technology, selective catalytic reduction (SCR) and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC. The quantity per hour throughput listed below represents the nominal firing rate (2,234 mm Btu/hr at -5°F) and the quantity per year throughput represents the turbine at the firing rate at the annual average ambient temperature of 51 °F (1,998 mmBtu/hr). Natural gas Higher Heating Value (HHV) is assumed to be 1,048 Btu/cubic foot.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-002-01	2.13	1,690.51	0115	million cubic feet of natural gas

Confidential / * Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	24	365		

Emission Point Identifier(s)

CT002	DLN02	SCR02	OXY02			

Emission Source/Control Identifier(s)

Process Information

Emission Unit	U-00002	Process	P02

Process Description

Process P02 represents combined natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine, which has a nominal rating of 2,234 mmBtu/hr at -5°F (maximum heat input scenario) and natural gas firing with the duct burner, which has a nominal rating of 500 mmBtu/hr. Dry low-NOx combustion technology, selective catalytic reduction (SCR) and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC. The quantity per hour throughput listed below represents the maximum firing rate of the turbine (2,234 mmBtu/hr at -5°F) plus the duct burner at rated capacity (500 mm Btu/hr) and the quantity per year throughput represents 8,760 hours of natural gas firing in the turbine at the annual average ambient temperature of 51 °F (1,998 mmBtu/hr) plus 2,628 hours of natural gas firing in the duct burner at rated capacity (500 mmBtu/hr). Natural gas Higher Heating Value (HHV) is assumed to be 1,048 Btu/cubic foot.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-002-01	2.61	1,690.51	0115	million cubic feet of natural gas

Confidential / * Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	24	365		

Emission Point Identifier(s)

CT002	DB002	DLN02	SCR02	OXY02		

Emission Source/Control Identifier(s)

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Section IV - Emission Unit Information

Process Information (continuation)

Emission Unit	U-00002	Process	P03

Description

Process P03 represents fuel oil firing in the Siemens SGT6-5000 Class-F combustion turbine, which has a nominal rating of 2,145 mm Btu/hr at -5 F (maximum heat input scenario). Dry low-NOx combustion technology, steam or water injection, selective catalytic reduction (SCR) and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC. The quantity per hour throughput listed below represents the nominal firing rate (2,145 mm Btu/hr at -5 F) and the quantity per year fuel oil firing at the firing rate at -5 F ambient temperature. Fuel oil Higher Heating Value (HHV) is assumed to be 139,728 throughput represents 720 hours of Btu/gallon.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-001-01	15.351	10,017	0607	1000 gallons burned

☐ Confidential ☒ Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		
	24	30		

Emission Point Identifier(s)

CT002	DLN02	STI02	SCR02	OXY02		

Emission Source/Control Identifier(s)

Emission Unit		Process	

Description

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

☐ Confidential ☐ Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

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Emission Unit Description	Continuation Sheet(s)
Emission Unit: U-00003	

One auxiliary boiler with a nominal rating of 48.1 mmBtu/hr that will fire natural gas exclusively. The boiler hours will be limited to 2000 hours per year. The boiler will operate primarily to assist with startups and shutdowns of the turbine.

Building Information — Continuation Sheet(s)

Building ID	Building Name	Length (ft)	Width (ft)	Orientation
GEN02	Auxiliary Boiler Located Inside Generation Building	300	260	North

Emission Unit: U-00003

Emission Unit Emissions Summary — * Continuation Sheet(s)

CAS Number	Contaminant Name			
0NY075-00-0	Particulates			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		600.0		
CAS Number	**Contaminant Name**			
0NY075-00-5	PM-10			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		600.0		
CAS Number	**Contaminant Name**			
0NY750-02-5	PM-2.5			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		600.0		
CAS Number	**Contaminant Name**			
0NY210-00-0	Oxides of Nitrogen			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		4,320.0		

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Emission Unit U - 0 0 0 0 3	Emission Unit Emissions Summary (continuation)			
CAS No.	**Contaminant Name**			
000630 - 08 - 0	Carbon Monoxide			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		6,940.0		
CAS No.	**Contaminant Name**			
007446 - 09 - 5	Sulfur Dioxide			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		220.0		
CAS No.	**Contaminant Name**			
0NY998 - 00 - 0	Volatile Organic Compounds			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		360.0		
CAS No.	**Contaminant Name**			
007664-93-9	Sulfuric Acid			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		220.0		
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**

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Emission Point Information

Continuation Sheet(s)

Emission Point	EP003					
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
496	275	140	228	301		
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**
57.53	14,194	546.99053	4584.65455		305	

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section 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 Information

Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
AUX01	C	08/2015	01/2018			low NOx burner	

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
48.1	25	mmBtu/hr				

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
LNB01	K	08/2015	01/2018		102	low NOx burner	

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
FGR01	K	08/2015	01/2018		026	flue gas recirculation	

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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Process Information

Continuation Sheet(s)

Emission Unit	U-00003	Process	P3B

Process Description

Process P3B represents natural gas firing in the auxiliary boiler, which has a nominal rating of 48.1 mmBtu/hr. Total natural gas usage will not exceed 2,000 full load boiler hours per year. Natural gas Higher Heating Value (HHV) is assumed to be 1,048 Btu/cubic foot.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
1-02-006-02	0.07	93.73	0115	million cubic feet of natural gas

Confidential * Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	24	365		

Emission Point Identifier(s)

AUX01	LNB01	FGR01				

Emission Source/Control Identifier(s)

Emission Unit	-	Process

Process Description

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

Confidential Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

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Section IV - Emission Unit Information

Emission Unit Description	Continuation Sheet(s)
Emission Unit: U-00004	

Kohler Power System
Model: 1000REOZDE
Engine Manufacturer: Detroit Diesel/MTU
Engine Model: 16V2000 G85 R163-8A37
Engine: type 4-Cycle,Turbocharged, Intercooled

Building Information — Continuation Sheet(s)

Building ID	Building Name	Length (ft)	Width (ft)	Orientation
DGB01	Generation Building	32	11	

Emission Unit: U-00004

Emission Unit Emissions Summary — * Continuation Sheet(s)

CAS Number	Contaminant Name			
0NY075 - 00 - 0	Particulates			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		98.0		
CAS Number	**Contaminant Name**			
0NY075 - 00 - 5	PM-2.5			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		98.0		
CAS Number	**Contaminant Name**			
0NY750 - 02 - 5	PM-2.5			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		98.0		
CAS Number	**Contaminant Name**			
0NY210 - 00 - 0	Oxides of Nitrogen			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		6,660		

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Emission Unit	Emission Unit Emissions Summary (continuation)			
U - 0 0 0 0 4				
CAS No.	**Contaminant Name**			
000630 - 08 - 0	Carbon Monoxide			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		984.0		
CAS No.	**Contaminant Name**			
007446 - 09 - 5	Sulfur Dioxide			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		9.7		
CAS No.	**Contaminant Name**			
0NY998 - 00 - 0	Volatile Organic Compounds			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		282.0		
CAS No.	**Contaminant Name**			
007664-93-9	Sulfuric Acid			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		0.2		
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**

Continuation Sheet 1 of 1

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Emission Point Information

Continuation Sheet(s)

Emission Point	EP004					
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
464	50	27	18	1,022		
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**
104.3	7,840	547.12988	4584.6514	DGB01	262	

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section 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 Information

Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
EG01	C	08/2015	01/2018				16V2000 G85 R163-8A37

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
10.08	0104	mmBtu/hr				

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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Section IV - Emission Unit Information

Emission Unit Description	Continuation Sheet(s)
Emission Unit: U - 0 0 0 0 5	
Fire Pump Diesel Engine Cummins CFP9E-F20	

Building Information				× Continuation Sheet(s)
Building ID	**Building Name**	**Length (ft)**	**Width (ft)**	**Orientation**
FPB01	Fire Water Pump Building	30	12	

Emission Unit: U - 0 0 0 0 5

Emission Unit Emissions Summary — Continuation Sheet(s)

CAS Number	Contaminant Name			
0NY075 - 00 - 0	Particulates			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		36.0		
CAS Number	**Contaminant Name**			
0NY075 - 00 - 5	PM-10			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		36.0		
CAS Number	**Contaminant Name**			
0NY750 - 02 - 5	PM-2.5			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		36.0		
CAS Number	**Contaminant Name**			
0NY210 - 00 - 0	Oxides of Nitrogen			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		684.0		

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Emission Unit	Emission Unit Emissions Summary (continuation)			
U - 0 0 0 0 5				
CAS No.	**Contaminant Name**			
000630 - 08 - 0	Carbon Monoxide			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		440.0		
CAS No.	**Contaminant Name**			
007446 - 09 - 5	Sulfur Dioxide			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		150.2		
CAS No.	**Contaminant Name**			
0NY998 - 00 - 0	Volatile Organic Compounds			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		38.0		
CAS No.	**Contaminant Name**			
007664-93-9	Sulfuric Acid			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		0.030		
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**

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Emission Point Information

Continuation Sheet(s)

Emission Point	EP005					
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
464	50	37	6	1,030		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
136.2	1,813	546.81502	4584.66944	FPB01	161	

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section 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 Information

Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
FP01	C	08/2015	01/2018				CFP9E-F20

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
1.96	0104	mmBtu/hr				

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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Section IV - Emission Unit Information

Emission Unit Description	Continuation Sheet(s)
Emission Unit: U-00006	

One Dew Point Heater with Two Fuel Gas Burners:
Model: Maxon OVENPAK® LE 45 Gas Burners – with SMARTLINK® DS Actuator

Building Information × Continuation Sheet(s)

Building ID	Building Name	Length (ft)	Width (ft)	Orientation
None	Located Outdoor			

Emission Unit: U-00006

Emission Unit Emissions Summary Continuation Sheet(s)

CAS Number	Contaminant Name			
0NY075-00-0	Particulates			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		666.0		
CAS Number	**Contaminant Name**			
0NY075-00-5	PM-10			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		666.0		
CAS Number	**Contaminant Name**			
0NY750-02-5	PM-2.5			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		666.0		
CAS Number	**Contaminant Name**			
0NY210-00-0	Oxides of Nitrogen			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
		3,190.0		

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Section IV - Emission Unit Information

Emission Unit	Emission Unit Emissions Summary (continuation)			
U - 0 0 0 0 6				
CAS No.	**Contaminant Name**			
000630 - 08 - 0	Carbon Monoxide			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		6,394.0		
CAS No.	**Contaminant Name**			
007446 - 09 - 5	Sulfur Dioxide			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		192.0		
CAS No.	**Contaminant Name**			
0NY998 - 00 - 0	Volatile Organic Compounds			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		438.0		
CAS No.	**Contaminant Name**			
007664-93-9	Sulfuric Acid			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
		17.6		
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**
CAS No.	**Contaminant Name**			
ERP (lbs/yr)	**PTE Emissions**		**Actual Emissions**	
	(lbs/hr)	**(lbs/yr)**	**(lbs/hr)**	**(lbs/yr)**

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Emission Point Information

Continuation Sheet(s)

Emission Point	EP006					
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
464	125		24	850		
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**
16.07	3,031	546.95885	4584.58	Outdoors	156	

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**

Emission Point						
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section 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 Information

Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
FGH1	C	08/2015	01/2018		102	Low NOx Burner	

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
9.0	0104	mmBtu/hr				

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number
						Low NOx Burner	

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model Number

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements							✖ Continuation Sheet(s)		
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Cl.	Subcl.
U-00001				40	CFR	60	A	3					
U-00001				40	CFR	60	A	7					
U-00001				40	CFR	60	A	8					
U-00001				40	CFR	60	A	11					

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements							✖ Continuation Sheet(s)		
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Cl.	Subcl.
U-00001				6	NYCRR	204	1	6,7					
U-00001				6	NYCRR	204	2						
U-00001				6	NYCRR	204	3						
U-00001				6	NYCRR	204	4						

Emission Unit Compliance Certification Continuation Sheet(s)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	5	4					

✖ Applicable Federal Requirement | State Only Requirement | Capping

Emission Unit	Emission Point	Process	Emission Source	CAS Number	Contaminant Name
U-00001	EP001	P1A,P2A		NY210-00-0	Oxides of nitrogen

Monitoring Information

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

Compliance Activity Description

2.0 ppmvd (corrected to 15% 02) NOx emission limit for the combustion turbine (with and without the duct burner) based upon the Higher Heating Value (HHV) of the fuel. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor NOx stack emissions. The emission limits represents LAER.

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

Monitored Parameter		Manufacturer's Name/Model Number
Code	Description	
23	Concentration	

Limit		Limit Units	
Upper	Lower	Code	Description
2.0		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description
47	3-hour block 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	Subpart	Section	Subdiv.	Parag.	Subparag.	Clause	Subcl.
U-00001				40	CFR	60	A	12					
U-00001				40	CFR	60	A	13					
U-00001				40	CFR	60	A	19					
U-00001				40	CFR	82	F						
U-00001				40	CFR	72	A	6					
U-00001				40	CFR	72	A	9					
U-00001				40	CFR	60	KKKK	4320	a,b				
U-00001				40	CFR	60	KKKK	4325					
U-00001				40	CFR	60	KKKK	4330	a	1,2			
U-00001				40	CFR	60	KKKK	4333	a,b	1,2			
U-00001				40	CFR	60	KKKK	4335	b	1,2,3			
U-00001				40	CFR	60	KKKK	4350					
U-00001				40	CFR	60	KKKK	4365	a				
U-00001				40	CFR	60	KKKK	4375	a				
U-00001				40	CFR	60	KKKK	4380	b				
U-00001				40	CFR	60	KKKK	4395					
U-00001				40	CFR	60	KKKK	4400					
U-00001				40	CFR	60	KKKK	4405					
U-00001				40	CFR	60	KKKK	4345	a,b,c,d,e				
U-00001				40	CFR	75	B	10					
U-00001				40	CFR	75	B	11	d				
U-00001				40	CFR	75	B	11	d	2			
U-00001				40	CFR	75	B	12	c				
U-00001				40	CFR	75	B	13	b				
U-00001				40	CFR	75	C						
U-00001				40	CFR	75	D						
U-00001				40	CFR	75	F	59					
U-00001				40	CFR	75	F	53	a,b,e,f				
U-00001				40	CFR	75	F	54					
U-00001				40	CFR	75	F	58	b	2,3			
U-00001				40	CFR	75	G						

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Section IV - Emission Unit Information

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements (continuation)									
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Clause	Subcl.
U-00001				6	NYCRR	204	5						
U-00001				6	NYCRR	204	6						
U-00001				6	NYCRR	204	7						
U-00001				6	NYCRR	204	8						
U-00001				6	NYCRR	204	9						
U-00001				6	NYCRR	237	1	4	a				
U-00001				6	NYCRR	237	1	6,7					
U-00001				6	NYCRR	237	2						
U-00001				6	NYCRR	237	3						
U-00001				6	NYCRR	237	4	1					
U-00001				6	NYCRR	237	5	3	a				
U-00001				6	NYCRR	237	6						
U-00001				6	NYCRR	237	7						
U-00001				6	NYCRR	237	8						
U-00001				6	NYCRR	238	1	4,6,7					
U-00001				6	NYCRR	238	2						
U-00001				6	NYCRR	238	3						
U-00001				6	NYCRR	238	4	1					
U-00001				6	NYCRR	238	5	3					
U-00001				6	NYCRR	238	6						
U-00001				6	NYCRR	238	7						
U-00001				6	NYCRR	238	8						
U-00001				6	NYCRR	242	1	6,7					
U-00001				6	NYCRR	242	2,3,4,5						
U-00001				6	NYCRR	242	6,7,8,10						
U-00001				6	NYCRR	227	1	2	a	1			
U-00001				6	NYCRR	227	1	3					
U-00001				6	NYCRR	227	1	4	d				
U-00001				6	NYCRR	227	2	4	e	2			
U-00001				6	NYCRR	227	2	6					

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

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Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements							* Continuation Sheet(s)		
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Cl.	Subcl.
U-00002				40	CFR	60	A	3					
U-00002				40	CFR	60	A	7					
U-00002				40	CFR	60	A	8					
U-00002				40	CFR	60	A	11					

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements							* Continuation Sheet(s)		
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Cl.	Subcl.
U-00002				6	NYCRR	204	1	6,7					
U-00002				6	NYCRR	204	2						
U-00002				6	NYCRR	204	3						
U-00002				6	NYCRR	204	4						

Emission Unit Compliance Certification Continuation Sheet(s)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	5	4					

* Applicable Federal Requirement | State Only Requirement | Capping

Emission Unit	Emission Point	Process	Emission Source	CAS Number	Contaminant Name
U-00002	EP002	P01,P02		NY210-00-0	Oxides of nitrogen

Monitoring Information

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

Compliance Activity Description

2.0 ppmvd (corrected to 15% 02) NOx emission limit for the combustion turbine (with and without the duct burner) based upon the Higher Heating Value (HHV) of the fuel. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor NOx stack emissions. The emission limits represents LAER.

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

Monitored Parameter		Manufacturer's Name/Model Number
Code	Description	
23	Concentration	

Limit		Limit Units	
Upper	Lower	Code	Description
2.0		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description
47	3-hour block average	01	Continuous	07	Quarterly

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3	-	3	3	5	6	-	0	0	1	3	6

Section IV - Emission Unit Information

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements (continuation)									
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Clause	Subcl.
U-00002				40	CFR	60	A	12					
U-00002				40	CFR	60	A	13					
U-00002				40	CFR	60	A	19					
U-00002				40	CFR	82	F						
U-00002				40	CFR	72	A	6	a	3			
U-00002				40	CFR	72	A	9					
U-00002				40	CFR	60	KKKK	4320	a,b				
U-00002				40	CFR	60	KKKK	4325					
U-00002				40	CFR	60	KKKK	4330	a	1,2			
U-00002				40	CFR	60	KKKK	4333	a,b	1,2			
U-00002				40	CFR	60	KKKK	4335	b	1,2,3			
U-00002				40	CFR	60	KKKK	4350					
U-00002				40	CFR	60	KKKK	4365	a				
U-00002				40	CFR	60	KKKK	4375	a				
U-00002				40	CFR	60	KKKK	4380	b				
U-00002				40	CFR	60	KKKK	4395					
U-00002				40	CFR	60	KKKK	4400					
U-00002				40	CFR	60	KKKK	4405					
U-00002				40	CFR	60	KKKK	4345	a,b,c,d,e				
U-00002				40	CFR	75	B	10					
U-00002				40	CFR	75	B	11	d				
U-00002				40	CFR	75	B	11	d	2			
U-00002				40	CFR	75	B	12	c				
U-00002				40	CFR	75	B	13	b				
U-00002				40	CFR	75	C						
U-00002				40	CFR	75	D						
U-00002				40	CFR	75	F	59					
U-00002				40	CFR	75	F	53	a,b,e,f				
U-00002				40	CFR	75	F	54					
U-00002				40	CFR	75	F	58	b	2,3			
U-00002				40	CFR	75	G						

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Section IV - Emission Unit Information

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements (continuation)									
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Clause	Subcl.
U-00002				6	NYCRR	204	5						
U-00002				6	NYCRR	204	6						
U-00002				6	NYCRR	204	7						
U-00002				6	NYCRR	204	8						
U-00002				6	NYCRR	204	9						
U-00002				6	NYCRR	237	1	4	a				
U-00002				6	NYCRR	237	1	6,7					
U-00002				6	NYCRR	237	2						
U-00002				6	NYCRR	237	3						
U-00002				6	NYCRR	237	4	1					
U-00002				6	NYCRR	237	5	3	a				
U-00002				6	NYCRR	237	6						
U-00002				6	NYCRR	237	7						
U-00002				6	NYCRR	237	8						
U-00002				6	NYCRR	238	1	4,6,7					
U-00002				6	NYCRR	238	2						
U-00002				6	NYCRR	238	3						
U-00002				6	NYCRR	238	4	1					
U-00002				6	NYCRR	238	5	3					
U-00002				6	NYCRR	238	6						
U-00002				6	NYCRR	238	7						
U-00002				6	NYCRR	238	8						
U-00002				6	NYCRR	242	1	6,7					
U-00002				6	NYCRR	242	2,3,4,5						
U-00002				6	NYCRR	242	6,7,8,10						
U-00002				6	NYCRR	227	1	2	a	1			
U-00002				6	NYCRR	227	1	3					
U-00002				6	NYCRR	227	1	4	d				
U-00002				6	NYCRR	227	2	4	e	2			
U-00002				6	NYCRR	227	2	6					

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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	Subpart	Section	Subdiv.	Parag.	Subparag.	Clause	Subcl.
U-00003				40	CFR	60	Dc	42c	d				
U-00003				40	CFR	60	Dc	43c	a	2			
U-00003				40	CFR	60	Dc	43c	c				

Continuation Sheet 1 of 1

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Section IV - Emission Unit Information

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements (continuation)									
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Clause	Subcl.
U-00003				6	NYCRR	227	2	4	d				
U-00003				6	NYCRR	227	2	6					

Continuation Sheet 1 of 1

New York State Department of Environmental Conservation
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Section III - Facility Information

Facility Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement	☐ Capping	CAS No.	Contaminant Name
		007446-09-5	Sulfur Dioxide

Monitoring Information

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

Description

Facility Sulfur Dioxide emissions are subject to BACT and the fuel sulfur limit listed in 6 NYCRR 225-1.2 (g). The facility is proposing to limit the 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 Type	Process Material Code	Process Material Description	Reference Test Method
04	007	number 2 oil	ASTM D 2880-71

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	sulfur content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0015		57	Percent by weight.

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Maximum - not to be exceeded	11	per delivery	15	Annually

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3A	CT001	0NY210-00-0	Oxides of Nitrogen

Monitoring Information

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

Description

The facility will maintain a 6.0 ppmvd (corrected to 15% 02) NOx emission limit when firing on fuel oil from the combustion turbine based upon Higher Heating Value (HHV) of the fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor NOx stack emissions. The emission limits represents LAER.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
6.0		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
47	3-Hour Block Average	01	Continuous	07	Quarterly

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P03	CT002	0NY210-00-0	Oxides of Nitrogen

Monitoring Information

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

Description

The facility will maintain a 6.0 ppmvd (corrected to 15% 02) NOx emission limit when firing fuel oil from the combustion turbine based upon Higher Heating Value (HHV) of the fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor NOx stack emissions. The emission limits represents LAER.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
6.0		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
47	3-Hour Block Average	01	Continuous	07	Quarterly

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DEC ID
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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3B	AUX01	0NY210-00-0	Oxides of Nitrogen

Monitoring Information

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

Description

The facility will maintain 0.0450 lb/mmBtu NOx emission limit when firing natural gas from the auxiliary boiler based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup and shutdown. The facility will use vendor emission guarantees and/or stack testing to ensure compliance with the LAER emission limit, as required.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.045		07	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P1A,P3A	CT001	0NY998-00-0	VOC

Monitoring Information

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

Description

The facility will maintain a 0.7 ppmvd (corrected to 15% 02) VOC emission limit from the combustion turbine based upon Higher Heating Value (HHV) of the natural gas (without duct burner) and fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. Stack testing will be used to demonstrate compliance with the LAER emission limit.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR Part 60, Appendix A, Method 25A, Method 18

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.7		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P2A	CT001	0NY998-00-0	VOC

Monitoring Information

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

Description

The facility will maintain a 1.8 ppmvd (corrected to 15% 02) VOC emission limit from the combustion turbine (with duct burner) based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown and fuel switching. Stack testing will be used to demonstrate compliance with the LAER emission limit.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
1.8		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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,P03	CT002	0NY998-00-0	VOC

Monitoring Information

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

Description

The facility will maintain a 0.7 ppmvd (corrected to 15% 02) VOC emission limit from the combustion turbine based upon Higher Heating Value (HHV) of the natural gas (without duct burner) and fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. Stack testing will be used to demonstrate compliance with the LAER emission limit.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR Part 60, Appendix A, Method 25A, Method 18

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.7		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	CT002	0NY998-00-0	VOC

Monitoring Information

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

Description

The facility will maintain a 1.8 ppmvd (corrected to 15% 02) VOC emission limit from the combustion turbine (with duct burner) based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown and fuel switching. Stack testing will be used to demonstrate compliance with the LAER emission limit.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR Part 60, Appendix A, Method 25A, Method 18

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
1.8		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3B	AUX01	0NY998-00-0	VOC

Monitoring Information

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

Description

The facility will maintain a 0.0038 lb/mmBtu VOC emission limit when firing on natural gas from the auxiliary boiler based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup and shutdown. The facility will use vendor emission guarantees and/or stack testing to ensure compliance with the LAER emission limit, as required

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR Part 60, Appendix A, Method 25A, Method 18

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0038		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P1A,P3A	CT001	000630-08-0	Carbon Monoxide

Monitoring Information

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

Description

The facility will maintain a 2.0 ppmvd (corrected to 15% 02) CO emission limit for the combustion turbine based upon the Higher Heating Value (HHV) of the the natural gas (without duct burner) and fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor CO stack emissions. The emission limit represents BACT.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
2.0		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
47	3-Hour Block Average	01	Continuous	07	Quarterly

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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,P03	CT002	000630-08-0	Carbon Monoxide

Monitoring Information

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

Description

The facility will maintain a 2.0 ppmvd (corrected to 15% 02) CO emission limit for the combustion turbine based upon the Higher Heating Value (HHV) of the the natural gas (without duct burner) and fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor CO stack emissions. The emission limit represents BACT.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
2.0		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
47	3-Hour Block Average	01	Continuous	07	Quarterly

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P2A	CT001	000630-08-0	Carbon Monoxide

Monitoring Information

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

Description

The facility will maintain a 3.4 ppmvd (corrected to 15% 02) CO emission limit for the combustion turbine (with duct burner) based upon the Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor CO stack emissions. The emission limit represents BACT.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
3.4		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
47	3-Hour Block Average	01	Continuous	07	Quarterly

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	CT002	000630-08-0	Carbon Monoxide

Monitoring Information

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

Description

The facility will maintain a 3.4 ppmvd (corrected to 15% 02) CO emission limit for the combustion turbine (with duct burner) based upon the Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor CO stack emissions. The emission limit represents BACT.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
3.4		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
47	3-Hour Block Average	01	Continuous	07	Quarterly

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3B	AUX01	000630-08-0	Carbon Monoxide

Monitoring Information

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

Description

The facility will maintain a 0.0721 lb/mmBtu CO emission limit when burning natural gas from the auxiliary boiler based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup and shutdown. The facility will use vendor emission guarantees and/or stack testing to ensure compliance with the BACT emission limit, as required.

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0721		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P1A,P2A	CT001	0NY075-00-0, 0NY075-00-5	PARTICULATES, PM-10

Monitoring Information

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

Description

The facility will maintain a 0.0073 lb/mmBtu PM emission limit with and without duct burner from the combustion turbine based upon Higher Heating Value (HHV) of the natural gas. The emission limits applies at all load except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by stack testing.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA RM 5, 201/201A or 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0073		7	pounds per Million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	CT002	0NY075-00-0, 0NY075-00-5	PARTICULATES, PM-10

Monitoring Information

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

Description

The facility will maintain a 0.0073 lb/mmBtu PM emission limit with and without duct burner from the combustion turbine based upon Higher Heating Value (HHV) of the natural gas. The emission limits applies at all load except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by stack testing.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA RM 5, 201/201A or 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0073		7	pounds per Million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3A	CT001	0NY075-00-0, 0NY075-00-5	Particulates, PM-10

Monitoring Information

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

Description

The facility will maintain a 0.0368 lb/mmBtu PM emission limit when firing fuel oil from the combustion turbine based upon Higher Heating Value (HHV) of the fuel oil. The emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by stack testing.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA RM 5, 201/201A or 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0368		7	pounds per Million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P03	CT002	0NY075-00-0, 0NY075-00-5	Particulates, PM-10

Monitoring Information

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

Description

The facility will maintain a 0.0368 lb/mmBtu PM emission limit when firing fuel oil from the combustion turbine based upon Higher Heating Value (HHV) of the fuel oil. The emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by stack testing.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA RM 5, 201/201A or 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0368		7	pounds per Million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3B	AUX01	0NY075-00-0, 0NY075-00-5	Particulates, PM-10

Monitoring Information

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

Description

The facility will maintain a 0.0063 lb/mmBtu PM emission limit when firing natural gas from the auxiliary boiler based on the Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup and shutdown. The facility will use vendor emission guarantees and/or stack testing to ensure compliance with the BACT emission limit, as required.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA RM 5, 201A/201,and 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	Concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0063		7	pounds per Million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-Hour Average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P1A,P2A	CT001	007446-09-5	Sulfur Dioxide

Monitoring Information

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

Description

The facility will maintain a 0.0022 lb/mmBtu SO2 emission limit from the combustion turbine (with and without duct burner) based on the Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by limiting sulfur content of the natural gas to 0.8 grains/100 SCF. The sulfur content of the natural gas will be verified through a certification or analysis provided by the fuels supplier and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	012	natural gas	ASTM 5504

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.8		13	grains per 100 dscf

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements 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	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	CT002	007446-09-5	Sulfur Dioxide

Monitoring Information

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

Description

The facility will maintain a 0.0022 lb/mmBtu SO2 emission limit from the combustion turbine (with and without duct burner) based on the Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by limiting sulfur content of the natural gas to 0.8 grains/100 SCF. The sulfur content of the natural gas will be verified through a certification or analysis provided by the fuels supplier and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	012	natural gas	ASTM 5504

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.8		13	grains per 100 dscf

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements 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	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3A	CT001	007446-09-5	Sulfur Dioxide

Monitoring Information

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

Description

The facility will maintain a 0.0015 lb/mmBtu SO2 emission limit when firing fuel oil from the combustion turbine based on the Higher Heating Value (HHV) of the fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by maintaining compliance with the fuel oil sulfur limit of 0.0015%. The sulfur content of the fuel will be certified by the vendor and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	007	Number 2 Oil	ASTM D 2880-71

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0015		57	percent by weight

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Maximum not to be exceeded	11	Per Delivery	10	Upon Request

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P03	CT002	007446-09-5	Sulfur Dioxide

Monitoring Information

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

Description

The facility will maintain a 0.0015 lb/mmBtu SO2 emission limit when firing fuel oil from the combustion turbine based on the Higher Heating Value (HHV) of the fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by maintaining compliance with the fuel oil sulfur limit of 0.0015%. The sulfur content of the fuel will be certified by the vendor and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	007	Number 2 Oil	ASTM D 2880-71

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0015		57	percent by weight

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Maximum not to be exceeded	11	Per Delivery	10	Upon Request

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3B	AUX01	007446-09-5	Sulfur Dioxide

Monitoring Information

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

Description

The facility will maintain a 0.0022 lb/mm Btu SO2 emission limit from the auxiliary boiler based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup and shutdown. The facility will demonstrate compliance with the BACT emission limit by limiting the sulfur content of the natural gas to 0.8 grains/100 scf.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			ASTM 5504

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.8		13	grains per 100 dscf

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Maximum not to be exceeded	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P1A,P2A	CT001	007664-93-9	Sulfuric Acid

Monitoring Information

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

Description

The facility will maintain a 0.0007 lb/mmBtu sulfuric acid mist emission limit from the combustion turbine (with and without duct burner) based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by limiting sulfur content of the natural gas to 0.8 grains/100 scf. The sulfur content of the natural gas will be verified through a certification or analysis provided by the fuels supplier and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	012	Natural Gas	ASTM 5504

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.8		13	grains per 100 dscf

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements 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	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	CT002	007664-93-9	Sulfuric Acid

Monitoring Information

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

Description

The facility will maintain a 0.0007 lb/mmBtu sulfuric acid mist emission limit from the combustion turbine (with and without duct burner) based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by limiting sulfur content of the natural gas to 0.8 grains/100 scf. The sulfur content of the natural gas will be verified through a certification or analysis provided by the fuels supplier and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	012	Natural Gas	ASTM 5504

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.8		13	grains per 100 dscf

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements 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	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3A	CT001	007664-93-9	Sulfuric Acid

Monitoring Information

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

Description

The facility will maintain a 0.0005 lb/mm Btu sulfuric acid mist emission limit when firing fuel oil from the combustion turbine based upon Higher Heating Value (HHV) of the gas and fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by maintaining compliance with the fuel oil sulfur limit of 0.0015%. The sulfur content of the fuel will be certified by the vendor and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	007	Number 2 Oil	ASTM D 2880-71

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0015		57	percent by weight

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Maximum not to be exceeded	11	Per Delivery	10	Upon Request

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P03	CT002	007664-93-9	Sulfuric Acid

Monitoring Information

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

Description

The facility will maintain a 0.0005 lb/mm Btu sulfuric acid mist emission limit from the combustion turbine (with and without duct burner) based upon Higher Heating Value (HHV) of the gas and fuel oil. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will demonstrate compliance with the BACT emission limit by maintaining compliance with the fuel oil sulfur limit of 0.0015%. The sulfur content of the fuel will be certified by the vendor and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	007	Number 2 Oil	ASTM D 2880-71

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0015		57	percent by weight

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Maximum not to be exceeded	11	Per Delivery	10	Upon Request

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Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
40	CFR	60	43	3	c				

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00003	EP003	P3B	AUX01		

Monitoring Information

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

Description

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60, Method 9

Parameter Code	Parameter Description	Manufacturer Name/Model No.
01	Opacity	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
20	0	136	Percent

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
18	6-min average	13	single occurrence	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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	P3B	AUX01	007664-93-9	Sulfuric Acid

Monitoring Information

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

Description

The facility will maintain a 0.0002 lb/mm Btu sulfuric acid mist emission limit from the auxiliary boiler based upon Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup and shutdown. The facility will demonstrate compliance with the BACT emission limit by limiting the sulfur content of the natural gas to 0.8 grains/100 scf. The sulfur content of the natural gas will be verified through a certification or analysis provided by the fuels supplier and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	012	Natural Gas	ASTM 5504

Parameter Code	Parameter Description	Manufacturer Name/Model No.
32	Sulfur Content	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.8		13	grains per 100 dscf

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements 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	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	200	7						

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00001	EP001	P1A,P2A,P3A	CT001	007664-41-7	Ammonia

Monitoring Information

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

Description

The facility will maintain a 5.0 ppmvd (corrected to 15% O2) limit applies during all fuels being fired and duct burner operations.. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor Ammonia stack emissions.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
	154	Ammonia	40 CFR 75 & 40 CFR 60 Appendices A/B/F

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
5.0		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
47	3-hour block average	01	Continuous	07	Quarterly

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	200	7						

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00002	EP002	P01,P02,P03	CT002	007664-41-7	Ammonia

Monitoring Information

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

Description

The facility will maintain a 5.0 ppmvd (corrected to 15% O2) limit applies during all fuels being fired and duct burner operations. This emission limit applies at all loads except during startup, shutdown and fuel switching. The facility will use CEMS to monitor Ammonia stack emissions.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
	154	Ammonia	40 CFR 75 & 40 CFR 60 Appendices A/B/F

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
5.0		275	parts per million by volume (dry, corrected to 15% 02)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
47	3-hour block average	01	Continuous	07	Quarterly

Continuation Sheet 32 of 54

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	200	7						

☐ Applicable Federal Requirement ☒ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
				007664-41-7	Ammonia

Monitoring Information

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

Description

The facility will maintain records to verify concentration of ammonia stored on-site is less than 19%.The ammonia concentration will be certified by the vendor and monitored by the facility.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	154	Ammonia	

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
19		21	percent by volume

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
01	Maximum not to be exceeded	11	Per Delivery	15	annually (calendar)

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
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/U-00002	EP001/EP002	P1A,P01	CT001/CT002		

Monitoring Information

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

Description

The facility will have a heat rate of 7605 Btu/kW-hr (HHV) or less at ISO conditions without duct burner firing to achieve a design thermal efficiency.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			ASME PTC 46-1996

Parameter Code	Parameter Description	Manufacturer Name/Model No.
38	Heat Input	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
7605			BTU per kilowatt-hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
60	maximum - not to exceed stated value	09	annually	14	semi-annually (calendar)

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	251	3	a					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00001/U-00002	EP001/EP002	P1A,P2A,P3A,P01,P02,P0	CT001/CT002	000124-38-9	Carbon Dioxide

Monitoring Information

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

Description

The facility are required to meet an emission rate of 925 pounds of CO2 per MW hour gross electrical output (output-based limit). These emission limits are measured on a 12-month rolling average basis, calculated by dividing the annual total of CO2 emissions over the relevant 12-month period by the annual total (gross) MW generated (output-based limit).

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

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
925		8	pounds per megawatt hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
17	annual maximum rolled monthly	01	continuous	13	quarterly (calendar)

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

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3-3356-0013

Request for Emission Reduction Credits — Continuation Sheet(s)

Emission Source: 00001

Emission Reduction Description

The facility purchased Emission Reductions Credits in the amount of 216.0 tons NOx and 75.0 tons VOC. Please see appendix 11 for additional information.

Contaminant Emission Reduction Data

Baseline Period ___/___/_____ to ___/___/_____

Reduction Date	Reduction Method

CAS Number	Contaminant Name	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
0NY210 - 00 - 0	Oxides of Nitrogen		432,000.0
0NY998 - 00 - 0	Volatile Organic Compounds		150,000.0

Facility to Use Future Reduction

Name: CPV Valley Energy Center — Application ID: - /

Location Address: 3330 Route 6

* City/ Town / Village: Middletown | State: NY | Zip: 10940

Use of Emission Reduction Credits — Continuation Sheet(s)

Emission Source:

Proposed Project Description

Contaminant Emissions Increase Data

CAS Number	Contaminant Name	Project Emission Potential (lbs/yr)

Statement of Compliance

All facilities under the ownership of this "owner/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 Source	CAS Number	Contaminant Name	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset

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Supporting Documentation and Attachments	
Required Supporting Documentation	Date of Document
× List of Exempt Activities (attach form)	8/5/2018
× Plot Plan	5/5/2017
× Process Flow Diagram	7/16/2015
× Methods Used to Determine Compliance (attach form)	8/5/2018
× Emissions Calculations	Submitted 8/2017
Optional Supporting Documentation	Date of Document
× Air Quality Model	Attachment 11
Confidentiality Justification	
Ambient Air Quality Monitoring Plan or Reports	
× Stack Test Protocol	Submitted 8/9/2017
× Stack Test Report	USLD Test
× Continuous Emissions Monitoring Plan	
× Lowest Achievable Emission Rate (LAER) Demonstration	USLD Test
× Best Available Control Technology (BACT) Demonstration	USLD Test
Reasonably Available Control Technology (RACT) Demonstration	
Toxic Impact Assessment (TIA)	
Environmental Rating Demonstration	
Operational Flexibility Protocol/Description of Alternate Operating Scenarios	
× Title IV Permit Application	01/2018
Emission Reduction Credit (ERC) Quantification (attach form)	
Baseline Period Demonstration	
Use of Emission Reduction Credits (attach form)	
Analysis of Contemporaneous Emissions Increase/Decrease	
Other Supporting Documentation	Date of Document

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00004	EP004	P04		0NY998-00-0	VOC

Monitoring Information

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

Description

LAER is 0.0331 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 25A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0331		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00004	EP004	P04		0NY210-00-0	Oxides of Nitrogen

Monitoring Information

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

Description

LAER is 4.77 grams per brake horsepower-hour. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 7E

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
4.77		319	grams per brake horsepower-hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00004	EP004	P04		0NY075-00-0	PARTICULATES

Monitoring Information

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

Description

BACT is 0.03 g/hp-hr. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 201/201A and 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.03		319	grams per brake horsepower-hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00004	EP004	P04		0NY075-00-5	PM-10

Monitoring Information

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

Description

BACT is 0.03 g/hp-hr. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 201/201A and 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.03		319	grams per brake horsepower-hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00004	EP004	P04		007446-09-5	SULFUR DIOXIDE

Monitoring Information

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

Description

BACT is 0.0014 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA approved methods

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0014		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00004	EP004	P04		007664-93-9	SULFURIC ACID

Monitoring Information

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

Description

BACT is 0.0003 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA approved methods

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.00003		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00004	EP004	P04		000630-08-0	CARBON MONOXIDE

Monitoring Information

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

Description

BACT is 0.45 g/hp-hr. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 10

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.45		319	grams per brake horsepower-hour

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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DEC ID
3-33561-00013

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00005	EP005	P05		0NY210-00-0	Oxides of Nitrogen

Monitoring Information

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

Description

LAER is 0.857 pounds per million Btus. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 7E

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.857		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00005	EP005	P05		0NY998-00-0	VOC

Monitoring Information

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

Description

LAER is 0.3612 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 25A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.3612		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00005	EP005	P05		000630-08-0	CARBON MONOXIDE

Monitoring Information

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

Description

BACT is 0.75 lbs/mmBtus. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 10

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.75		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00005	EP005	P05		0NY075-00-0, 0NY075-00-5	PARTICULATES, PM-10

Monitoring Information

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

Description

BACT is 0.043 lb/mmBtus. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 201/201A and 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.043		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

New York State Department of Environmental Conservation
Air Permit Application Form

DEC ID
3-33561-00136

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00005	EP005	P05		007446-09-5	SULFUR DIOXIDE

Monitoring Information

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

Description

BACT is 0.0014 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA approved methods

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0014		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

New York State Department of Environmental Conservation
Air Permit Application Form

DEC ID
3-33561-00136

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00005	EP005	P05		007664-93-9	SULFURIC ACID

Monitoring Information

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

Description

BACT is 0.0003 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA approved methods

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.00003		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

New York State Department of Environmental Conservation
Air Permit Application Form

DEC ID
3 - 3 3 5 6 - 0 0 1 3 6

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00006	EP006	P06		0NY210-00-0	Oxides of Nitrogen

Monitoring Information

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

Description

LAER is 0.058 pounds per million Btus for each individual gas heater. Will be achieved using forced draft low NOx Burner. Emission testing to be performed upon request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 7E

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.058		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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DEC ID
3-33561-00136

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00006	EP006	P06		0NY998-00-0	VOC

Monitoring Information

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

Description

LAER is 0.011 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 25A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.011		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

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3-33 56-0 01 36

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00006	EP006	P06		007664-93-9	SULFURIC ACID

Monitoring Information

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

Description

BACT is 0.0002 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA approved methods

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0002		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

New York State Department of Environmental Conservation
Air Permit Application Form

DEC ID
3-33561-0013

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00006	EP006	P06		000630-08-0	CARBON MONOXIDE

Monitoring Information

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

Description

BACT is 0.084 lbs/mmBtus.. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 10

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.084		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

New York State Department of Environmental Conservation
Air Permit Application Form

DEC ID
3-33561-00136

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00006	EP006	P06		0NY075-00-0, 0NY075-00-5	PARTICULATES, PM-10

Monitoring Information

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

Description

BACT is 0.0076 lb/mmBtus.. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			Method 201/201A and 202

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0076		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

New York State Department of Environmental Conservation
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DEC ID
3-33561-00136

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
U-00006	EP006	P06		007446-09-5	SULFUR DIOXIDE

Monitoring Information

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

Description

BACT is 0.0022 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			EPA approved methods

Parameter Code	Parameter Description	Manufacturer Name/Model No.
23	concentration	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0022		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-hour average	14	as required	01	once / batch or monitoring occurrence

New York State Department of Environmental Conservation
Air Permit Application Form

DEC ID
3 - 3 3 5 6 - 0 0 1 3 6

Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)

Rule Citation

Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	201	7						

☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
				0NY075-02-5	PM 2.5

Monitoring Information

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

Description

Monthly facility-wide emissions of PM-2.5 will be calculated as the sum of monthly PM-2.5 emissions from individual emission units or source groups. Emissions will be calculated based on heat input (or, equivalently, from fuel use) and emission factors as described below. Annual facility-wide emissions will then be determined at the end of each month on a rolling 12-month basis in order to demonstrate compliance with the 95 ton per year cap.

Unit Op Load	Fuel	Grp	Emission Factor
CT only > 80%	Gas	1	0.0056
CT only < 80%	Gas	2	0.0073
CT + DB > 80%	Gas	3	0.0064
CT only > 85%	Oil	4	0.0247
CT only < 85%	Oil	5	0.0368
Aux Boiler All	Gas	6	0.0063
Gas Heater All	Gas	7	0.0076
EDG All	Oil	8	0.0091
EFP All	Oil	9	0.0429

In cases where fuel use (gallons of oil or SCF of gas) for a source group is monitored directly rather than heat input, the equivalent heat input will be determined by multiplying the monthly fuel usage for the source group by the corresponding fuel heating value (mmBtu/gallon or mmBtu/scf), using the higher heating. In cases where fuel use (gallons of oil or standard cubic feet of gas) for a source group is monitored directly rather than heat input, the equivalent heat input will be determined by multiplying the monthly fuel usage for the source group by the corresponding fuel heating value (mmBtu/gallon or mmBtu/scf), using the higher heating value basis for fuel.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
04	318	Fuel	

Parameter Code	Parameter Description	Manufacturer Name/Model No.
38	Heat Input	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
95		38	tons per year

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
17	annual maximum rolled monthly	01	CONTINUOUS	15	ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEC ID
3-3356-00013 6

Process Information — Continuation Sheet(s)

Emission Unit	U-0004	Process	P04

Process Description

Process P04 represents the emergency generator firing on diesel fuel.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-002-01	110.4	36,300	0045	gallons

Confidential / * Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	500 Hours			

Emission Point Identifier(s)

EG01						

Emission Source/Control Identifier(s)

Emission Unit	-	Process

Process Description

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

Confidential / Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

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3-3356-00013 6

Process Information × Continuation Sheet(s)

Emission Unit	U-00006		Process	P06

Process Description

Process P06 represents one dew point heater with two fuel gas burners operating on natural gas.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-002-01	5.02	78,489.6	0104	million Btu heat input

Confidential / × Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	24	365		

Emission Point Identifier(s)

FGH1						

Emission Source/Control Identifier(s)

Emission Unit	-	Process

Process Description

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

Confidential / Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

New York State Department of Environmental Conservation
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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEC ID
3-3356-00136

Process Information

× Continuation Sheet(s)

Emission Unit	U-00006	Process	P06

Process Description

Process P06 represents one 9.0 mmBtu/hr dew point heater with two fuel gas burners operating on natural gas.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-01-002-01	5.02	78,489.6	0104	million Btu heat input

Confidential / × Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	24	365		

Emission Point Identifier(s)

FGH1						

Emission Source/Control Identifier(s)

Emission Unit	-	Process

Process Description

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

Confidential / Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

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Section IV - Emission Unit Information

Emission Unit Description	Continuation Sheet(s)
Emission Unit U - 0 0 0 0 7	
Five EngA Space Heaters Model: DGP-500	

Building Information				Continuation Sheet(s)
Building ID	Building Name	Length (ft)	Width (ft)	Orientation
GEN01	Generation Building	300	260	North
GEN02	Generation Building	300	260	North

Emission Unit U - 0 0 0 0 7	Emission Unit Emissions Summary			Continuation Sheet(s)
CAS Number	Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS Number	Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS Number	Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS Number	Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)

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Section IV - Emission Unit Information

Emission Unit Description	Continuation Sheet(s)
Emission Unit	U - 0 0 0 0 8

Aggreko Mobile Generator
Model: NHC20

Building Information				Continuation Sheet(s)
Building ID	Building Name	Length (ft)	Width (ft)	Orientation
NONE	Located Outdoor			

Emission Unit: U - 0 0 0 0 8

Emission Unit Emissions Summary Continuation Sheet(s)

CAS Number	Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS Number	Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS Number	Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS Number	Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 2

Title IV Acid Rain Application

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2018

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ new ☐ revised ☑ for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

CPV VALLEY ENERGY CENTER Facility (Source) Name	New York State	ORIS 06940 Plant Code

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
1	Yes
2	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

CPV VALLEY ENERGY CENTER
Facility (Source) Name (from STEP 1)

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
  (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:
  (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
  (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
  (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
  (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

CPV VALLEY ENERGY CENTER
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
  (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
  (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
  (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

CPV VALLEY ENERGY CENTER
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Read the certification statement, sign, and date.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. 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. Based on my inquiry of those individuals with primary responsibility for obtaining the 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 Donald G. Atwood	
Signature	Date 08-24-2018

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 3

Potential-to-Emit Table

Appendix B: Table B-1
CPV Valley Energy Center
Combined Cycle Turbine Emissions
Natural Gas Firing

SWPC 5000F Combustion Turbine in Combined Cycle Mode

GT Operating Mode																	Startup Emissions		
Ambient Temp, °F		-5	-5	-5	-5	9	9	9	9	51	90	90	90	90	90	90	9	9	9
% Load		BASE	BASE	80%	60%	BASE	BASE	BASE	80%	60%	BASE	BASE	BASE	BASE	80%	60%	Cold Start	Warm Start	Hot Start
Fuel Type		Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane
Evaporative Cooler Operation (85% effectiveness)		Off	Off	Off	Off	Off	Off	Off	Off	Off	On	On	Off	Off	Off	Off	Off	Off	Off
Combustion Turbine (CTG) Heat Input, mmBtu/hr (HHV)		2,234	2,234	2,083	1,559	1,998	1,998	1,998	1,864	1,364	1,855	1,855	1,855	1,855	1,689	1,243	1,364	1,364	1,364
Duct Burner Operation		Off	On	Off	Off	On	On	Off	Off	Off	On	Off	On	Off	Off	Off	Off	Off	Off
Duct Burner Heat Input, mmBtu/hr (HHV)		–	500.0	–	–	185.4	500.0	–	–	–	500.0	–	500.0	–	–	–	–	–	–
Combined Power Output of 2 CTG's & STG, MW		669.6	669.6	458.8	349.5	649.3	649.3	604.9	401.8	306.2	653.2	549.7	653.2	549.7	352.8	270.8	–	–	–
Controlled CTG and DB Pollutant Concentrations																			
NO_x	ppmvd @ 15% O_2	2.0	2.0	2.0	2.0	2.00	2.00	2.0	2.0	2.0	2.00	2.0	2.00	2.0	2.0	2.0	–	–	–
CO	ppmvd @ 15% O_2	2.0	3.3	2.0	2.0	2.66	3.44	2.0	2.0	2.0	3.50	2.0	3.55	2.0	2.0	2.0	–	–	–
VOC	ppmvd @ 15% O_2	0.7	1.6	0.7	0.7	1.12	1.67	0.7	0.7	0.7	1.72	0.7	1.77	0.7	0.7	0.7	–	–	–
NH_3	ppmvd @ 15% O_2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	–	–	–
Controlled CTG and DB Emission Factors, lb/mmBtu (HHV)																			
NO_x		0.0075	0.0093	0.0068	0.0074	0.0076	0.0076	0.0075	0.0067	0.0075	0.0076	0.0075	0.0074	0.0073	0.0068	0.0075	–	–	–
CO		0.0046	0.0090	0.0041	0.0179	0.0059	0.0077	0.0046	0.0041	0.0183	0.0078	0.0045	0.0077	0.0044	0.0041	0.0183	–	–	–
VOC		0.0009	0.0025	0.0008	0.0027	0.0014	0.0021	0.0009	0.0008	0.0028	0.0022	0.0009	0.0022	0.0009	0.0008	0.0028	–	–	–
SO_2		0.0022	0.0027	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	–	–	–
Sulfuric Acid Mist (H_2SO_4)		0.0007	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	–	–	–
PM/PM-10/PM-2.5 (filterables, condensibles and sulfates)		0.0050	0.0061	0.0047	0.0061	0.0055	0.0062	0.0059	0.0052	0.0068	0.0064	0.0052	0.0064	0.0052	0.0056	0.0073	–	–	–
Controlled CTG and DB Stack Emissions, lb/hr																	Emissions		
NO_x		16.80	20.80	14.08	11.44	16.52	19.04	15.04	12.56	10.24	17.92	13.92	17.52	13.52	11.44	9.36	36.44	40.96	38.02
CO		10.20	20.20	8.60	27.80	12.91	19.20	9.20	7.60	25.00	18.40	8.40	18.20	8.20	7.00	22.80	269.05	333.56	329.71
VOC		2.03	5.53	1.75	4.20	3.12	5.32	1.82	1.54	3.76	5.18	1.68	5.18	1.68	1.40	3.43	53.07	57.56	9.83
SO_2		4.87	5.96	4.54	3.38	4.76	5.45	4.36	4.06	2.97	5.13	4.04	5.13	4.04	3.68	2.71	–	–	–
SO_3		1.22	1.49	1.14	0.85	1.19	1.36	1.09	1.01	0.74	1.28	1.01	1.28	1.01	0.92	0.68	–	–	–
NH_3		11.93	11.93	10.20	8.69	10.89	10.89	10.89	9.37	8.02	9.90	9.90	9.69	9.69	8.46	7.26	–	–	–
Sulfuric Acid Mist (H_2SO_4)		1.49	1.83	1.39	1.04	1.46	1.67	1.33	1.24	0.91	1.57	1.24	1.57	1.24	1.13	0.83	–	–	–
Ammonia Sulfates ($(NH_4)_2SO_4$)		2.01	2.46	1.87	1.40	1.96	2.25	1.80	1.67	1.23	2.12	1.67	2.12	1.67	1.52	1.12	–	–	–
PM-10 (filterables and condensables)		9.10	14.10	8.00	8.00	10.15	13.30	8.30	8.00	8.00	13.00	8.00	13.00	8.00	8.00	8.00	–	–	–
PM-10 (filterables, condensables and sulfates)		11.11	16.56	9.87	9.40	12.12	15.55	10.10	9.67	9.23	15.12	9.67	15.12	9.67	9.52	9.12	9.66	9.65	9.40
Stack Parameters																			
Stack Diameter, m		5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79
Stack Diameter, ft		19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Exhaust Flow per Stack, lb/hr		4,332	4,353	3,700	3,143	3,974	3,988	3,966	3,407	2,909	3,688	3,667	3,598	3,577	3,116	2,670	1,464	1,464	1,464
Exhaust Volume, acfm		1,231,680	1,237,765	1,043,620	870,760	1,122,685	1,126,505	1,120,440	950,460	802,740	1,061,761	1,055,580	1,061,916	1,055,580	867,720	740,100	401,370	401,370	401,370
Stack Exit Velocity, ft/s		72.4	72.8	61.3	51.2	66.0	66.2	65.9	55.9	47.2	62.4	62.1	62.4	62.1	51.0	43.5	23.6	23.6	23.6
Stack Exit Velocity, m/s		22.1	22.2	18.7	15.6	20.1	20.2	20.1	17.0	14.4	19.0	18.9	19.0	18.9	15.5	13.3	7.2	7.2	7.2
Stack Exit Temperature, °F		195	195	182	179	182	182	189	178	176	183	183	196	196	175	173	113.5	113.5	113.5
Stack Exit Temperature, deg K		363.7	363.7	356.5	354.8	356.5	356.5	360.4	354.3	353.2	357.0	357.0	364.3	364.3	352.6	351.5	318.4	318.4	318.4
Emission Rates, g/s																			
NO_x		2.117	2.621	1.774	1.441	2.082	2.399	1.895	1.583	1.290	2.258	1.754	2.208	1.704	1.441	1.179	4.466	5.160	4.791
CO		1.285	2.545	1.084	3.503	1.626	2.419	1.159	0.958	3.150	2.318	1.058	2.293	1.033	0.882	2.873	33.900	42.028	41.544
VOC		0.256	0.697	0.221	0.529	0.393	0.670	0.229	0.194	0.476	0.653	0.212	0.651	0.212	0.176	0.432	6.687	7.252	6.571
SO_2		0.614	0.751	0.572	0.426	0.600	0.686	0.549	0.511	0.375	0.647	0.510	0.647	0.510	0.464	0.341	–	–	–
Sulfuric Acid Mist (H_2SO_4)		0.188	0.230	0.175	0.131	0.184	0.210	0.168	0.157	0.115	0.198	0.156	0.198	0.156	0.142	0.105	–	–	–
PM-10 (filterables and condensables)		1.147	1.777	1.008	1.008	1.279	1.676	1.046	1.008	1.008	1.638	1.008	1.638	1.008	1.008	1.008	–	–	–
PM-10 (filterables, condensables and sulfates)		1.400	2.086	1.244	1.184	1.527	1.969	1.272	1.219	1.163	1.985	1.218	1.985	1.218	1.199	1.149	1.217	1.216	1.184

Notes:

1) Proposed method of emission control for NO_x is Dry Low-NO_x Burners and SCR when firing natural gas.

2) Sulfur Trioxide, Sulfuric Acid Mist and Ammonia Sulfate emissions are calculated by the following methodology:

SO_2 —> SO_3 conversion = 20%

SO_3 lb/hr = SO_2 lb/hr * (80 MW_{SO3}/64 MW_{SO2}) * 20%

H_2SO_4 lb/hr = SO_3 lb/hr * (98 MW_{H2SO4}/80 MW_{SO3})

$(NH_4)_2SO_4$ lb/hr = H_2SO_4 lb/hr * 0.32 $MW_{(NH4)2SO4}$/98 MW_{H2SO4})

Controlled CTG and DB Stack Emissions, lb/MW-hr																	Emissions		
NO_x	0.050	0.062	0.061	0.065	0.059	0.059	0.050	0.063	0.067	0.055	0.059	0.054	0.049	0.065	0.069			
CO	0.050	0.060	0.037	0.159	0.040	0.059	0.030	0.038	0.163	0.056	0.031	0.056	0.030	0.040	0.168			
VOC	0.006	0.017	0.008	0.024	0.010	0.016	0.006	0.008	0.025	0.016	0.006	0.016	0.006	0.008	0.025			
SO_2	0.015	0.018	0.020	0.019	0.015	0.017	0.014	0.020	0.019	0.016	0.015	0.016	0.015	0.021	0.020			
SO_3	0.004	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.004	0.004	0.005	0.005			
NH_3	0.036	0.036	0.044	0.050	0.034	0.034	0.036	0.047	0.052	0.030	0.036	0.030	0.035	0.048	0.054			
Sulfuric Acid Mist (H_2SO_4)	0.004	0.005	0.006	0.006	0.004	0.005	0.004	0.006	0.006	0.005	0.005	0.005	0.005	0.006	0.006			
Ammonia Sulfates ($(NH_4)_2SO_4$)	0.006	0.007	0.008	0.008	0.006	0.007	0.006	0.008	0.008	0.006	0.006	0.006	0.006	0.009	0.008			
PM-10 (filterables and condensables)	0.027	0.042	0.035	0.046	0.031	0.041	0.027	0.040	0.052	0.040	0.029	0.040	0.029	0.045	0.059			
PM-10 (filterables, condensables and sulfates)	0.033	0.049	0.043	0.054	0.037	0.048	0.033	0.048	0.060	0.048	0.035	0.046	0.035	0.054	0.067			

Appendix B: Table B-2
CPV Valley Energy Center
Combined Cycle Turbine Emissions
Distillate Oil Firing

SWPC 5000F Combustion Turbine in Combined Cycle Mode

GT Operating Mode											Startup Emissions		
Ambient Temp (°F)	-5	-5	-5	51	51	51	90	90	90	90	51	51	51
% Load	100%	85%	70%	BASE	85%	70%	BASE	BASE	85%	70%	Cold Start	Warm Start	Hot Start
Fuel Type	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate
Evaporative Cooler Operation (85% effectiveness)	Off	Off	Off	Off	Off	Off	On	Off	Off	Off	Off	Off	On
Combustion Turbine (CTG) Heat Input, mmBtu/hr (HHV)	2,145	1,867	1,606	1,894	1,662	1,436	1,757	1,698	1,504	1,303	1,435.9	1435.9	1435.9
Combined Power Output of 2 CTG's & STG (MW)	635.6	456.8	380.0	566.3	400.1	332.7	516.9	501.5	351.3	293.3	-	-	-
Controlled CTG Pollutant Concentrations													
NO_x ppmvd @ 15% O_2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	-	-	-
CO ppmvd @ 15% O_2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-	-	-
VOC ppmvd @ 15% O_2	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-	-	-
NH_3 ppmvd @ 15% O_2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	-	-	-
Controlled CTG Emission Factors, lb/mmBtu (HHV)													
NO_x	0.0240	0.0239	0.0240	0.0240	0.0240	0.0240	0.0240	0.0240	0.0240	0.0240	-	-	-
CO	0.0035	0.0073	0.0146	0.0049	0.0073	0.0146	0.0049	0.0048	0.0073	0.0146	-	-	-
VOC	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	-	-	-
SO_4	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	-	-	-
Sulfuric Acid Mist (H_2SO_4)	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	-	-	-
PM/PM-10/PM-2.5 (filterables, condensibles and sulfates)	0.0239	0.0242	0.0361	0.0244	0.0247	0.0368	0.0240	0.0242	0.0246	0.0367	-	-	-
Controlled CTG Stack Emissions, lb/hr												Emissions	
NO_x	51.43	44.71	38.57	45.43	39.86	34.43	42.14	40.71	36.14	31.29	81.48	91.74	87.19
CO	7.43	13.60	23.40	9.20	12.20	21.00	8.60	8.20	11.00	19.00	323.48	375.76	369.52
VOC	2.10	1.82	1.54	1.82	1.61	1.40	1.68	1.68	1.47	1.26	187.12	198.28	173.61
SO_4	3.27	2.85	2.45	2.89	2.53	2.19	2.68	2.59	2.29	1.99	-	-	-
SO_2	0.82	0.71	0.61	0.72	0.63	0.55	0.67	0.65	0.57	0.50	-	-	-
NH_3	12.27	10.80	9.74	11.06	9.89	8.96	9.92	7.91	6.55	10.06	-	-	-
Sulfuric Acid Mist (H_2SO_4)	1.00	0.87	0.75	0.88	0.78	0.67	0.82	0.79	0.70	0.61	-	-	-
Ammonia Sulfates ($(NH_4)_2SO_4$)	1.35	1.17	1.01	1.19	1.04	0.90	1.10	1.07	0.95	0.82	-	-	-
PM-10 (filterables and condensables)	50.00	44.00	57.00	45.00	40.00	52.00	41.00	40.00	36.00	47.00	-	-	-
PM-10 (filterables, condensables and sulfates)	51.35	45.17	58.01	46.19	41.04	52.90	42.10	41.07	36.95	47.82	53.05	52.40	52.16
Stack Parameters													
Stack Diameter, m	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79
Stack Diameter, ft	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Exhaust Flow per Stack (lb/hr)	4,442	3,906	3,500	4,015	3,587	3,231	3,712	3,621	3,277	2,955	1,615	1,615	1,615
Exhaust Volume, acfm	1,274,010	1,111,200	976,380	1,147,230	1,005,240	894,180	1,069,140	1,069,140	895,050	824,100	447,090	447,090	447,090
Stack Exit Velocity, ft/s	74.9	65.3	57.4	67.4	59.1	52.6	62.8	62.8	52.6	48.4	26.3	26.3	26.3
Stack Exit Velocity, m/s	22.8	19.9	17.5	20.6	18.0	16.0	19.2	19.2	16.0	14.8	8.0	8.0	8.0
Stack Exit Temperature, °F	209	192	192	204	185	185	203	203	185	185	118	118	118
Stack Exit Temperature, deg K	371.5	362.0	362.0	368.7	358.2	358.2	368.2	368.2	358.2	358.2	320.9	320.9	320.9
Emission Rates, g/s													
NO_x	6.480	5.634	4.860	5.724	5.022	4.338	5.310	5.130	4.554	3.942	10.267	11.559	10.986
CO	0.936	1.714	2.948	1.159	1.537	2.646	1.084	1.033	1.386	2.394	40.759	47.345	46.559
VOC	0.265	0.229	0.194	0.229	0.203	0.176	0.212	0.212	0.185	0.159	23.577	24.983	21.875
SO_4	0.412	0.359	0.308	0.364	0.319	0.276	0.337	0.326	0.289	0.250	-	-	-
Sulfuric Acid Mist (H_2SO_4)	0.126	0.110	0.094	0.111	0.098	0.084	0.103	0.100	0.088	0.077	-	-	-
PM-10 (filterables and condensables)	6.300	5.544	7.182	5.670	5.040	6.552	5.166	5.040	4.536	5.922	-	-	-
PM-10 (filterables, condensables and sulfates)	6.470	5.692	7.309	5.820	5.172	6.666	5.305	5.175	4.655	6.025	6.685	6.603	6.572

Notes:

1) Proposed method of emission control for NO_x is water injection and SCR when firing fuel oil.

2) Sulfur Trioxide, Sulfuric Acid Mist and Ammonia Sulfates emissions are calculated by the following methodology:

SO_3 ----> SO_3 conversion = 20%

SO_3 lb/hr = SO_2 lb/hr * (80 MW_{SO3}/64 MW_{SO2}) * 20%

H_2SO_4 lb/hr = SO_3 lb/hr * (98 MW_{H2SO4}/80 MW_{SO3})

$(NH_4)_2SO_4$ lb/hr = H_2SO_4 lb/hr * (132 $MW_{NH4H2SO4}$/98 MW_{H2SO4})

Heat Rate (Btu/kW-hr) (HHV)	Full Load Cases	**6,751**	8,175	8,453	**6,689**	**8,306**	8,631	**6,798**	**6,772**	8,564	8,888
Heat Rate (Btu/kW-hr) (HHV) (@ISO Conditions without duct firing)	Draft Permit Limit				7,605						

Appendix B: Table B-3
CPV Valley Energy Center
Combustion Turbine Natural Gas Startup and Shutdown Emissions

Estimated Siemens SGT6-5000F Startup and Shutdown emissions-Natural Gas

Event	Elapsed Time (hr)	Turbine NO_x [1] (lb/event)	Duct Burner NO_x [1] (lb/event)	Turbine CO (lb/event)	Duct CO (lb/event)	VOC [2] (lb/event)	Particulates (lb/event)
Cold Start [3], 1 & CTG	2.87	337	95	4,012	690	150	22
2nd CTG	1.45	157	58	2,886	390	70	14
Warm Start [4]	1.95	284	77	3,128	569	112	19
	1.28	182	58	2,141	520	74	12
Hot Start [5]	1.80	155	62	2,330	479	91	17
	0.97	87	44	1,594	435	58	9
Shut Down	1.00	60	43	842	197	22	8

1. As NO_2
2. As CH_4
3. Startup after 72 hour shutdown
4. Startup after 8 hour shutdown
5. Startup after 2 hour shutdown

The above data has been determined based on the following assumptions:

1. Auxiliary Boiler in operation to pre-heat HRSG during start-up.
2. Emissions are estimated based upon data provided by Siemens on 10-20-2005
3. NO_x Catalyst sized to produce a removal at GU full load with duct firing
4. CO and VOC reductions based upon Catalyst performance provided by WSGT dated on 11-05-07
5. Stack damper installed to maintain HRSG hot during shut down.

	Type of Start-up or Shut-down Event			
	Cold Startup	Warm Startup	Hot Startup	Shutdown
Duration of Turbine at Min load prior to Start up (hr)	4.0	0.1 to 4.0	0.0 to 0.1	
Maximum Duration of Start-up or Shut-down Event (hr)	3.0	2.1	1.8	1
Nox (Lb/hr)	33.08	29.98	34.92	42.50
VOC (Lb/hr)	52.43	37.49	50.44	21.60
CO (Lb/hr)	119.59	291.64	266.17	197.20

Appendix B: Table B-4
CPV Valley Energy Center
Combustion Turbine Fuel Oil Startup and Shutdown Emissions

Estimated Siemens SGT6-5000F Startup and Shutdown emissions - Fuel Oil

Event	Elapsed Time (hr)	Turbine NOx[1] (lb/event)	Stack NOx[1] (lb/event)	Turbine CO (lb/event)	Stack CO (lb/event)	VOC[2] (lb/event)	Particulate (lb/event)
Cold Start[3] 1st CTG	3.09	799	232	6,800	842	571	100
2nd CTG	1.62	406	146	3,727	657	266	85
Warm Start[4]	2.22	560	187	4,995	721	430	112
	1.45	348	140	3,303	610	277	75
Hot Start[5]	1.97	480	158	4,100	629	347	103
	1.19	251	118	2,186	523	197	58
Shut Down	1.06	165	111	1,200	160	87	42

1. As NO_2
2. As CH_4
3. Startup after [illegible] hour shutdown
4. Startup after 48 hour shutdown
5. Startup after 8 hour shutdown

The above data has been determined based on the following assumptions:

1. Auxiliary Boiler in operation to pre-heat HRSG during start-up.
2. Emissions are estimated based upon data provided by Siemens on 10.29.2007
3. NOx Catalyst sized to produce 5.0 ppmvd at GT full load w/ duct firing.
4. CO and VOC reductions based upon Catalyst performance provided by VOGT dated on 11-05-07
5. Stack damper installed to maintain HRSG hot during shut down.

	Typical Start-up or Shut-down Event			
	Cold Startup	Warm Startup	Hot Startup	Shutdown
Duration of Turbine at 0% load prior to Start-up (hr)	>48	8 to 48	0 to 8	--
Maximum Duration of Start-up or Shut-down Event (hr)	3	3.1	2	1
Nox (Lb/hr)	76.71	88.25	80.29	110.86
VOC (Lb/hr)	189.20	209.84	173.34	86.90
CO (Lb/hr)	279.16	340.58	316.78	168.59

Appendix B: Table B-5
CPV Valley Energy Center
Combustion Turbine Startup and Shutdown Emissions Summary

Event	Fuel	Duration of Shutdown Prior to Startup (hours)	Duration (hours)	NO_x			CO			VOC			PM10		
				total (lb)	rate (lb/hr)	rate (gram/ sec)	total (lb)	rate (lb/hr)	rate (gram/ sec)	total (lb)	rate (lb/hr)	rate (gram/ sec)	total (lb)	rate (lb/hr)	rate (gram/ sec)
Cold Startup	Natural Gas	>48	2.2	76.5	35.4	4.5	580.7	269.1	33.9	114.6	53.1	6.7	20.9	9.7	1.2
Cold Startup	Distillate Oil	>48	2.3	189.5	81.5	10.3	752.1	323.5	40.8	435.1	187.1	23.6	123.4	53.1	6.7
Warm Startup	Natural Gas	8.1 to 48	1.6	66.2	40.9	5.2	539.3	333.6	42.0	93.1	57.6	7.3	15.6	9.6	1.2
Warm Startup	Distillate Oil	8.1 to 48	1.8	163.6	91.7	11.6	670.1	375.8	47.3	353.6	198.3	25.0	93.5	52.4	6.6
Hot Startup	Natural Gas	0 to 8	1.4	52.6	38.0	4.8	456.1	329.7	41.5	71.7	51.8	6.5	13.0	9.4	1.2
Hot Startup	Distillate Oil	0 to 8	1.6	135.2	87.2	11.0	572.8	369.5	46.6	269.1	173.6	21.9	80.9	52.2	6.6
Shutdown	Natural Gas		1.0	42.5	42.5	5.4	127.2	127.2	16.0	21.6	21.6	2.7	8.0	8.0	1.0
Shutdown	Distillate Oil		1.0	110.8	110.8	14.0	168.5	168.5	21.2	86.9	86.9	10.9	42.4	42.4	5.3

(1) Emissions are for a single unit

Appendix B: Table B-6
CPV Valley Energy Center
Potential Emissions Summary
Maximum Combined Cycle PTE for any Annual Operating Scenario

Annual Operating Scenario		Natural Gas Only Operation					Gas/Oil Operation			
Maximum Annual Operation With No Startups				Per Unit	2-Unit Total				Per Unit	2-Unit Total
Annual Turbine Operation, hr/yr				8,760	17,520				8,760	17,520
Annual Turbine Operation on Natural Gas, hr/yr				8,760	17,520				8,040	16,080
Annual Turbine Operation on Fuel Oil, hr/yr				0	0				720	1,440
DB Capacity Factor of Annual Turbine Operation				30%					30%	
Annual DB Operation on Natural Gas, hr/yr				2,628	5256				2,628	5256
Annual Generation, MWhr/yr					5415245					5,437,381
Annual Emissions, Tons/yr				Per Unit	2-Unit Total	lb/MWh			Per Unit	2-Unit Total
NO_x				71.13	142.3	0.053			84.23	168.5
CO				101.88	203.8	0.075			101.30	202.6
VOC				18.58	37.2	0.014			17.98	36.0
SO_2				20.9	41.0	0.015			20.12	40.2
H_2SO_4				6.28	12.6	0.005			6.16	12.3
PM/PM-10/PM-2.5				51.4	102.8	0.038			68.6	137.3
Annual Operation With Cold & Warm Startups				Per Unit	2-Unit Total				Per Unit	2-Unit Total
Number of Start-Ups on Natural Gas	Cold			40	80				36	72
	Warm			235	470				219	438
	Hot			0	0				0	0
Number of Shut Downs on Natural Gas				275	550				255	510
Operating Time Attributed to Gas SUSD, hr/yr				741	1,483				687	1,374
Downtime Prior to Natural Gas Startups, hr/yr				3,800	7,600				3,480	6,960
Number of Start-Ups on Fuel Oil	Cold			0	0				4	8
	Warm			0	0				16	32
	Hot			0	0				0	0
Number of Shut Downs on Fuel Oil				0	0				20	40
Operating Time Attributed to Oil SUSD, hr/yr				0	0				58	116
Downtime Prior to Fuel Oil Startups, hr/yr				0	0				320	640
Annual Turbine Operation on Natural Gas, hr/yr				4,219	8,438				3,553	7,107
Annual Turbine Operation on Fuel Oil, hr/yr				0	0				662	1,324
DB Capacity Factor of Annual Turbine Operation				30%					30%	
Annual DB Operation on Natural Gas, hr/yr				2,628	5256				2,628	5256
Annual Generation, MWhr/yr					2,668,470					2,686,812
Annual Emissions, Tons/yr		Per Unit Operation	Per Unit Start-Ups	Per Unit Total	2-Unit Total	lb/MWh	Per Unit Operation	Per Unit Start-Ups	Per Unit Total	2-Unit Total
NO_x		36.98	15.15	52.1	104.3	0.078	49.00	16.84	65.8	131.7
CO		45.11	92.47	137.6	275.2	0.206	44.54	94.27	138.8	277.6
VOC		10.00	16.19	26.2	52.4	0.039	9.43	19.57	29.0	58.0
SO_2		10.62	0	10.6	21.2	0.016	10.26	0.00	10.3	20.5
H_2SO_4		3.25	0	3.3	6.5	0.005	3.14	0.00	3.1	6.3
PM/PM-10/PM-2.5		28.46	3.35	31.8	63.6	0.048	44.31	4.52	48.8	97.7
Annual Operation With Cold & Hot Startups				Per Unit	2-Unit Total				Per Unit	2-Unit Total
Number of Start-Ups on Natural Gas	Cold			40	80				36	72
	Warm			0	0				0	0
	Hot			235	470				219	438
Number of Shut Downs on Natural Gas				275	550				255	510
Operating Time Attributed to Gas SUSD, hr/yr				686	1,373				636	1,271
Downtime Prior to Natural Gas Startups, hr/yr				2,390	4,780				2,166	4,332
Number of Start-Ups on Fuel Oil	Cold			0	0				4	8
	Warm			0	0				0	0
	Hot			0	0				16	32
Number of Shut Downs on Fuel Oil				0	0				20	40
Operating Time Attributed to Oil SUSD, hr/yr				0	0				54	108
Downtime Prior to Fuel Oil Startups, hr/yr				0	0				224	448
Annual Turbine Operation on Natural Gas, hr/yr				5,684	11,367				5,014	10,029
Annual Turbine Operation on Fuel Oil, hr/yr				0	0				666	1,332
DB Capacity Factor of Annual Turbine Operation				30%					30%	
Annual DB Operation on Natural Gas, hr/yr				2,628	5256				2,628	5256
Annual Generation, MWhr/yr					3,564,475					3,170,161
Annual Emissions, Tons/yr		Per Unit Operation	Per Unit Start-Ups	Per Unit Total	2-Unit Total	lb/MWh	Per Unit Operation	Per Unit Start-Ups	Per Unit Total	2-Unit Total
NO_x		48.00	13.55	61.6	123.1	0.069	60.09	15.12	75.2	150.4
CO		63.42	82.70	146.1	292.2	0.164	62.85	84.38	147.2	294.5
VOC		12.77	13.69	26.5	52.9	0.030	12.20	16.56	28.8	57.5
SO_2		13.81	0	13.8	27.6	0.016	13.44	0	13.4	26.9
H_2SO_4		4.23	0	4.2	8.5	0.005	4.12	0	4.1	8.2
PM/PM-10/PM-2.5		35.85	3.04	38.9	77.8	0.044	51.79	4.14	55.9	111.9
Annual Operation With All Warm Startups				Per Unit	2-Unit Total				Per Unit	2-Unit Total
Number of Start-Ups on Natural Gas	Cold			0	0				0	0
	Warm			275	550				255	510
	Hot			0	0				0	0
Number of Shut Downs on Natural Gas				275	550				255	510
Operating Time Attributed to Gas SUSD, hr/yr				720	1,439				667	1,335
Downtime Prior to Natural Gas Startups, hr/yr				2,200	4,400				2,040	4,080
Number of Start-Ups on Fuel Oil	Cold			0	0				4	8
	Warm			0	0				16	32
	Hot			0	0				0	0
Number of Shut Downs on Fuel Oil				0	0				20	40
Operating Time Attributed to Oil SUSD, hr/yr				0	0				58	116
Downtime Prior to Fuel Oil Startups, hr/yr				0	0				320	640
Annual Turbine Operation on Natural Gas, hr/yr				5,840	11,681				5,013	10,026
Annual Turbine Operation on Fuel Oil, hr/yr				0	0				662	1,324
DB Capacity Factor of Annual Turbine Operation				30%					30%	
Annual DB Operation on Natural Gas, hr/yr				2,628	5256				2,628	5256
Annual Generation, MWhr/yr					3,649,335					3,569,590
Annual Emissions, Tons/yr		Per Unit Operation	Per Unit Start-Ups	Per Unit Total	2-Unit Total	lb/MWh	Per Unit Operation	Per Unit Start-Ups	Per Unit Total	2-Unit Total
NO_x		49.18	14.95	64.1	128.2	0.070	59.98	16.65	76.6	153.3
CO		65.38	91.64	157.0	314.0	0.172	62.79	93.52	156.3	312.6
VOC		13.06	15.76	28.8	57.7	0.032	12.19	19.19	31.4	62.8
SO_2		14.15	0	14.2	28.3	0.016	13.43	0	13.4	26.9
H_2SO_4		4.33	0	4.3	8.7	0.005	4.11	0	4.1	8.2
PM/PM-10/PM-2.5		36.65	3.25	39.9	79.8	0.044	51.67	4.43	56.1	112.2
Annual Operation With All Hot Startups				Per Unit	2-Unit Total				Per Unit	2-Unit Total
Number of Start-Ups on Natural Gas	Cold			0	0				0	0
	Warm			0	0				0	0
	Hot			275	550				255	510
Number of Shut Downs on Natural Gas				275	550				255	510
Operating Time Attributed to Gas SUSD, hr/yr				655	1,311				608	1,216
Downtime Prior to Natural Gas Startups, hr/yr				550	1,100				510	1,020
Number of Start-Ups on Fuel Oil	Cold			0	0				4	8
	Warm			0	0				0	0
	Hot			0	0				16	32
Number of Shut Downs on Fuel Oil				0	0				20	40
Operating Time Attributed to Oil SUSD, hr/yr				0	0				54	108
Downtime Prior to Fuel Oil Startups, hr/yr				0	0				224	448
Annual Turbine Operation on Natural Gas, hr/yr				7,555	15109				6,698	13397
Annual Turbine Operation on Fuel Oil, hr/yr				0	0				666	1,332
DB Capacity Factor of Annual Turbine Operation				30%					30%	
Annual DB Operation on Natural Gas, hr/yr				2,628	5256				2,628	5256
Annual Generation, MWhr/yr					4,686,149					4,188,668
Annual Emissions, Tons/yr		Per Unit Operation	Per Unit Start-Ups	Per Unit Total	2-Unit Total	lb/MWh	Per Unit Operation	Per Unit Start-Ups	Per Unit Total	2-Unit Total
NO_x		62.07	13.08	75.1	150.3	0.064	72.75	14.69	87.4	174.9
CO		86.81	80.20	167.0	334.0	0.143	83.90	82.14	166.0	332.1
VOC		16.30	12.83	29.1	58.3	0.025	15.38	15.79	31.2	62.3
SO_2		17.89	0	17.9	35.8	0.015	17.11	0	17.1	34.2
H_2SO_4		5.48	0	5.5	11.0	0.005	5.24	0	5.2	10.5

Appendix B: Table B-7
CPV Valley Energy Center
Potential Emissions for the Auxiliary Boiler

Heat Input (MMBtu/hr, HHV)	48.1	Cleaver Brooks Data
Operating Schedule (hr/yr)	2,000	Permit Condition 65
Annual fuel use (MMBtu/yr)	96,200	Permit Condition 65

Pollutant	Emission Factor (lb/MMBtu)	Reference (State Facility Permit Condition No.)	Emissions (lb/hr)	Emissions (gram/sec)	Emissions (ton/yr)
NO_x	0.0450	67	2.16	0.273	2.16
CO	0.0721	71	3.47	0.437	3.47
VOC	0.0038	66	0.18	0.023	0.18
SO_2	0.0022	69	0.11	0.013	0.11
$PM_{10}/PM_{2.5}$	0.0063	68	0.30	0.038	0.30
H_2SO_4	0.0002	70	0.01	1.21E-03	9.62E-03

Appendix B: Table B-8
CPV Valley Energy Center
Potential Emissions for the Gas Heater

Heat Input (MMBtu/hr)	1.8	OvenPak 45 data
Number of Heaters	2	
Operating Schedule (hr/yr)	8,760	
Annual fuel use (MMBtu/yr)	78,840	

Pollutant	Emission Factor (lb/MMBtu)	Reference (State Facility Permit Condition No.)	Emissions (lb/hr)	Emissions (gram/sec)	Emissions (ton/yr)
NO_x	0.058	85	0.52	0.065	3.28
CO	0.084	88	0.76	0.095	3.69
VOC	0.011	86	0.10	0.012	0.43
SO_2	0.0022	90	0.020	0.0025	0.09
$PM_{10}/PM_{2.5}$	0.0076	89	0.068	0.0086	0.30
H_2SO_4	0.0002	87	1.79E-03	2.26E-04	7.85E-03

Appendix B: Table B-9
CPV Valley Energy Center
Potential Emissions for the Emergency Generator

Operating Hours	500	Stack Parameters[1]	
Fuel Type	ULSD	Stack ID (ft.)	1.50
Heating Value, BTU (Btu/gal)	139,000	Exhaust Flow (acfm)	7,850
Gallons per Hour	72.5		
Fuel Input (MMBtu/hr)	10.08	Stack Temperature (°F)	1,022
BHP Rating	1495		
Annual Fuel Usage (gal/year)	36,253		
Sulfur Content in Fuel	0.0015%		

Pollutant	Emission Factor (lbs/MMBtu)	Emission Factor (g/kW-hr)	Source	Short Term Emissions (lb/hr)	Long Term Emissions (ton/yr)
Criteria Air Pollutants					
NOx		6.42	1	13.32	3.330
CO		0.80	1	1.97	0.492
SOx	1.58E-03		2	1.54E-02	3.86E-03
VOC		0.230	1	5.65E-01	0.141
$PM_{10}/PM_{2.5}$		0.080	1	1.97E-01	0.049
PM		0.080	1	1.97E-01	0.049
Sulfuric Acid	3.10E-05		3,4	3.13E-04	7.82E-05

1. Kohler spec REOZDE1000, MTU 16V2000 G80 TB
2. Mass balance
3. Emissions based on Toxic Air Pollutant Emission Factors - A Compilation for Selected Air Toxics Compounds and Sources; October, 1990. EPA-450/2-90-011.
4. Emission factor for sulfuric acid is 8.9(%S) mg/J.

Appendix B: Table B-10
CPV Valley Energy Center
Potential Emissions for the Fire Water Pump Engine

Operating Hours	500	Stack Parameters[1]	
Fuel Type	ULSD	Stack ID (ft.)	0.50
Heating Value, HHV (Btu/gal)	139,000	Exhaust Flow (acfm)	1,814
Gallons per Hour	11.1		
Fuel Input (MMBtu/hr)	1.56	Stack Temperature (°F)	1,039
BHP Rating	282		
Annual Fuel Usage (gal/year)	5,550		
Sulfur Content in Fuel	0.0015%		

Pollutant	Emission Factor (lbs/MMBtu)	Emission Factor (g/hp-hr)	Source	Short Term Emissions (lb/hr)	Long Term Emissions (ton/yr)
Criteria Air Pollutants					
NOx		3.20	1	1.97	0.342
CO		1.42	1	0.88	0.220
SOx	1.53E-03		2	3.00E-03	7.51E-04
VOC		0.123	1	7.65E-02	0.019
$PM_{10}/PM_{2.5}$		0.118	1	7.34E-02	0.018
PM		0.118	1	7.34E-02	0.018
Sulfuric Acid	3.10E-05		3,4	6.08E-05	1.52E-05

1. Cummins spec CFP9E-F20
2. Mass balance
3. Emissions based on Toxic Air Pollutant Emission Factors - A Compilation for Selected Air Toxics Compounds and Sources; October, 1990. EPA-450/2-90-011.
4. Emission factor for sulfuric acid is 8.9(%S) lbs/MMgal.

Appendix B: Table B-11
CPV Valley Energy Center
Facility-Wide Potential to Emit

Pollutant	Combined Cycle Units (tons/yr)	Auxiliary Boiler (tons/yr)	Emergency Diesel Generator (tons/yr)	Fire Pump (tons/yr)	Dew Point Natural Gas Heaters (tons/yr)	Oil Storage Tank (tons/yr)	Facility (tons/yr)
NO_x	174.9	2.16	3.33	0.34	2.28	N/A	183.0
CO	334.0	3.47	0.49	0.22	3.30	N/A	341.5
VOC	62.8	0.18	0.00	0.00	0.43	0.17	64.0
SO_2	41.0	0.11	0.14	0.02	0.09	N/A	42.0
$PM/PM_{10}/PM_{2.5}$	94.2	0.30	0.05	0.02	0.30	N/A	95.0
H_2SO_4	12.6	0.01	0.00008	0.00002	0.01	N/A	13.0
NH_3	104.8	N/A	N/A	N/A	N/A	N/A	104.8

Appendix B: Table B-12
CPV Valley Energy Center
Combined Cycle Unit Non-Criteria Pollutant Emissions
(Page 1 of 6)

Fuel			Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane
Ambient Temp.		°F	90	90	90	90	90	90	51	51	9	51	9	-5	-5	-5	-5
Turbine Load			BASE	BASE	BASE	BASE	80%	60%	BASE	BASE	BASE	80%	60%	98%	98%	80%	60%
Inlet Air Cooling			On	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
CTG Heat Input-HHV		mmBtu/hr	1,855	1,855	1,855	1,855	1,689	1,243	1,998	1,998	1,998	1,861	1,364	2,234	2,234	2,083	1,59
Duct Burner Status			On	Off	On	Off	Off	Off	On	On	Off	Off	Off	On	Off	Off	Off
Duct Burner Firing Rate		mmBtu/hr	500		500				185	500				500			
1,3-Butadiene	a	(lb/hr)	7.98E-04	7.98E-04	7.98E-04	7.98E-04	7.26E-04	5.35E-04	8.59E-04	8.59E-04	8.59E-04	8.00E-04	5.87E-04	4.60E-04	4.60E-04	8.96E-04	6.67E-04
1,1,1-Trichloroethane		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dichlorobenzene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2-Methylnapthalene		(lb/hr)	1.18E-05	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	4.36E-06	1.18E-05	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00
3-Methylchloranthrene	a,b	(lb/hr)	8.82E-07	0.00E+00	8.82E-07	0.00E+00	0.00E+00	0.00E+00	3.27E-07	8.82E-07	0.00E+00	0.00E+00	0.00E+00	8.82E-07	0.00E+00	0.00E+00	0.00E+00
7,12-Dimethylbenz(a)anthracene	a,b	(lb/hr)	7.84E-06	0.00E+00	7.84E-06	0.00E+00	0.00E+00	0.00E+00	2.91E-06	7.84E-06	0.00E+00	0.00E+00	0.00E+00	7.84E-06	0.00E+00	0.00E+00	0.00E+00
Acenaphthene	a,b	(lb/hr)	1.59E-04	1.58E-04	1.59E-04	1.58E-04	1.44E-04	1.06E-04	1.71E-04	1.71E-04	1.71E-04	1.59E-04	1.16E-04	1.92E-04	1.91E-04	1.78E-04	1.32E-04
Acenaphthylene	a,b	(lb/hr)	1.59E-04	1.58E-04	1.59E-04	1.58E-04	1.44E-04	1.06E-04	1.71E-04	1.71E-04	1.71E-04	1.59E-04	1.16E-04	1.92E-04	1.91E-04	1.78E-04	1.32E-04
Acetaldehyde	a	(lb/hr)	7.42E-02	7.42E-02	7.42E-02	7.42E-02	6.76E-02	5.53E-02	7.99E-02	7.99E-02	7.99E-02	7.44E-02	6.07E-02	8.93E-02	8.93E-02	8.33E-02	6.90E-02
Acrolein	a	(lb/hr)	1.19E-02	1.19E-02	1.19E-02	1.19E-02	1.08E-02	1.03E-02	1.28E-02	1.28E-02	1.28E-02	1.19E-02	1.13E-02	1.43E-02	1.43E-02	1.33E-02	1.29E-02
Ammonia		(lb/hr)	9.90E+00	9.90E+00	9.69E+00	9.69E+00	8.46E+00	7.26E+00	1.09E+01	1.09E+01	1.04E+01	9.37E+00	8.02E+00	1.19E+01	1.19E+01	1.02E+01	8.69E+00
Anthracene	a,b	(lb/hr)	2.12E-04	2.11E-04	2.12E-04	2.11E-04	1.92E-04	1.41E-04	2.28E-04	2.29E-04	2.27E-04	2.12E-04	1.55E-04	2.55E-04	2.54E-04	2.37E-04	1.77E-04
Arsenic	a	(lb/hr)	4.80E-05	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	3.63E-05	4.80E-05	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00
Barium		(lb/hr)	2.16E-03	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	8.00E-04	2.16E-03	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00
Benz(a)anthracene	a,b	(lb/hr)	1.59E-04	1.58E-04	1.59E-04	1.58E-04	1.44E-04	1.06E-04	1.71E-04	1.71E-04	1.71E-04	1.59E-04	1.16E-04	1.92E-04	1.91E-04	1.78E-04	1.32E-04
Benzene	a	(lb/hr)	2.33E-02	2.23E-02	2.33E-02	2.23E-02	2.03E-02	1.28E-01	2.44E-02	2.50E-02	2.40E-02	2.23E-02	1.40E-01	2.78E-02	2.68E-02	2.50E-02	1.60E-01
Benzo(a)pyrene	a,b	(lb/hr)	1.06E-04	1.06E-04	1.06E-04	1.06E-04	9.61E-05	7.07E-05	1.14E-04	1.14E-04	1.14E-04	1.06E-04	7.76E-05	1.28E-04	1.27E-04	1.18E-04	8.83E-05
Benzo(b)fluoranthene	a,b	(lb/hr)	1.59E-04	1.58E-04	1.59E-04	1.58E-04	1.44E-04	1.06E-04	1.71E-04	1.71E-04	1.71E-04	1.59E-04	1.16E-04	1.92E-04	1.91E-04	1.78E-04	1.32E-04
Benzo(b,k)fluoranthene		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(g,h,i)perylene	a,b	(lb/hr)	1.06E-04	1.06E-04	1.06E-04	1.06E-04	9.61E-05	7.07E-05	1.14E-04	1.14E-04	1.14E-04	1.06E-04	7.76E-05	1.28E-04	1.27E-04	1.18E-04	8.83E-05
Benzo(k)fluoranthene	a,b	(lb/hr)	1.59E-04	1.58E-04	1.59E-04	1.58E-04	1.44E-04	1.06E-04	1.71E-04	1.71E-04	1.71E-04	1.59E-04	1.16E-04	1.92E-04	1.91E-04	1.78E-04	1.32E-04
Beryllium	a	(lb/hr)	5.88E-06	0.00E+00	5.88E-06	0.00E+00	0.00E+00	0.00E+00	2.18E-06	5.88E-06	0.00E+00	0.00E+00	0.00E+00	5.88E-06	0.00E+00	0.00E+00	0.00E+00
Butane		(lb/hr)	1.03E+00	0.00E+00	1.03E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-01	1.03E+00	0.00E+00	0.00E+00	0.00E+00	1.03E+00	0.00E+00	0.00E+00	0.00E+00
Cadmium	a	(lb/hr)	5.39E-04	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-04	5.39E-04	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00
Carbon Tetrachloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorobenzene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chromium	a	(lb/hr)	6.86E-04	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	2.54E-04	6.86E-04	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00
Chrysene	a,b	(lb/hr)	1.59E-04	1.58E-04	1.59E-04	1.58E-04	1.44E-04	1.06E-04	1.71E-04	1.71E-04	1.71E-04	1.59E-04	1.16E-04	1.92E-04	1.91E-04	1.78E-04	1.32E-04
Cobalt	a	(lb/hr)	4.12E-05	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	1.53E-05	4.12E-05	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00
Copper		(lb/hr)	4.17E-04	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	1.54E-04	4.17E-04	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00
Dibenzo(a,h)anthracene	a,b	(lb/hr)	1.06E-04	1.06E-04	1.06E-04	1.06E-04	9.61E-05	7.07E-05	1.14E-04	1.14E-04	1.14E-04	1.06E-04	7.76E-05	1.28E-04	1.27E-04	1.18E-04	8.83E-05
Dichlorobenzene	a	(lb/hr)	5.88E-04	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	2.18E-04	5.88E-04	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00
Ethane		(lb/hr)	1.52E+00	0.00E+00	1.52E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-01	1.52E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+00	0.00E+00	0.00E+00	0.00E+00
Ethylbenzene	a	(lb/hr)	5.94E-02	5.94E-02	5.94E-02	5.94E-02	5.40E-02	3.98E-02	6.39E-02	6.39E-02	6.39E-02	5.95E-02	4.37E-02	7.15E-02	7.15E-02	6.66E-02	4.96E-02
Ethylene Dichloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluoranthene	a,b	(lb/hr)	2.65E-04	2.64E-04	2.65E-04	2.64E-04	2.40E-04	1.77E-04	2.85E-04	2.86E-04	2.84E-04	2.65E-04	1.94E-04	3.19E-04	3.18E-04	2.96E-04	2.21E-04
Fluorene	a,b	(lb/hr)	2.48E-04	2.46E-04	2.48E-04	2.46E-04	2.24E-04	1.65E-04	2.66E-04	2.67E-04	2.65E-04	2.47E-04	1.81E-04	2.98E-04	2.97E-04	2.76E-04	2.06E-04
Formaldehyde	a	(lb/hr)	2.41E-01	2.04E-01	2.41E-01	2.04E-01	1.86E-01	1.37E-01	2.33E-01	2.57E-01	2.20E-01	2.05E-01	1.50E-01	2.82E-01	2.46E-01	2.29E-01	1.71E-01
Hexane	a	(lb/hr)	8.82E-01	0.00E+00	8.82E-01	0.00E+00	0.00E+00	0.00E+00	3.27E-01	8.82E-01	0.00E+00	0.00E+00	0.00E+00	8.82E-01	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	a,b	(lb/hr)	1.59E-04	1.58E-04	1.59E-04	1.58E-04	1.44E-04	1.06E-04	1.71E-04	1.71E-04	1.71E-04	1.59E-04	1.16E-04	1.92E-04	1.91E-04	1.78E-04	1.32E-04
Lead	a	(lb/hr)	2.45E-04	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	9.09E-05	2.45E-04	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00
Manganese	a	(lb/hr)	1.86E-04	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	6.91E-05	1.86E-04	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00
Mercury	a	(lb/hr)	1.27E-04	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	4.73E-05	1.27E-04	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00
Methlyene Chloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Molybdenum		(lb/hr)	5.39E-04	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-04	5.39E-04	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00
Napthalene	a,c	(lb/hr)	2.71E-03	2.41E-03	2.71E-03	2.41E-03	2.20E-03	1.70E-03	2.71E-03	2.90E-03	2.60E-03	2.42E-03	1.87E-03	3.20E-03	2.90E-03	2.71E-03	2.13E-03
Nickel	a	(lb/hr)	1.03E-03	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	3.82E-04	1.03E-03	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00
PAH	a,b	(lb/hr)	4.08E-03	4.08E-03	4.08E-03	4.08E-03	3.72E-03	2.80E-03	4.40E-03	4.40E-03	4.40E-03	4.09E-03	3.07E-03	4.91E-03	4.91E-03	4.58E-03	3.49E-03
Pentane		(lb/hr)	1.27E+00	0.00E+00	1.27E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-01	1.27E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+00	0.00E+00	0.00E+00	0.00E+00
Phenanathrene	a,b	(lb/hr)	1.50E-03	1.50E-03	1.50E-03	1.50E-03	1.36E-03	1.00E-03	1.61E-03	1.62E-03	1.61E-03	1.50E-03	1.10E-03	1.81E-03	1.80E-03	1.68E-03	1.25E-03
POM	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propane		(lb/hr)	7.84E-01	0.00E+00	7.84E-01	0.00E+00	0.00E+00	0.00E+00	2.91E-01	7.84E-01	0.00E+00	0.00E+00	0.00E+00	7.84E-01	0.00E+00	0.00E+00	0.00E+00
Propylene		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propylene Oxide	a	(lb/hr)	5.38E-02	5.38E-02	5.38E-02	5.38E-02	4.90E-02	3.61E-02	5.80E-02	5.80E-02	5.80E-02	5.40E-02	3.96E-02	6.48E-02	6.48E-02	6.04E-02	4.50E-02
Pyrene	a,b	(lb/hr)	4.42E-04	4.40E-04	4.42E-04	4.40E-04	4.00E-04	2.95E-04	4.75E-04	4.76E-04	4.74E-04	4.41E-04	3.23E-04	5.32E-04	5.29E-04	4.94E-04	3.68E-04
Selenium	a	(lb/hr)	1.18E-05	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	4.36E-06	1.18E-05	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00
Sulfuric Acid		(lb/hr)	1.24E+00	1.24E+00	1.24E+00	1.24E+00	1.13E+00	8.30E-01	1.33E+00	1.33E+00	1.33E+00	1.24E+00	9.11E-01	1.49E+00	1.49E+00	1.39E+00	1.04E+00
Tetrachloroethylene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	a	(lb/hr)	2.43E-01	2.41E-01	2.43E-01	2.41E-01	2.20E-01	1.62E-01	2.60E-01	2.61E-01	2.60E-01	2.42E-01	1.77E-01	2.92E-01	2.90E-01	2.71E-01	2.02E-01
Trichloroethylene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vanadium		(lb/hr)	1.13E-03	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	4.18E-04	1.13E-03	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00
Vinyl Chloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinylidene Chloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xylenes	a	(lb/hr)	1.19E-01	1.19E-01	1.19E-01	1.19E-01	1.08E-01	7.96E-02	1.28E-01	1.28E-01	1.28E-01	1.19E-01	8.73E-02	1.43E-01	1.43E-01	1.33E-01	9.93E-02
Zinc		(lb/hr)	1.42E-02	0.00E+00	1.42E-02	0.00E+00	0.00E+00	0.00E+00	5.27E-03	1.42E-02	0.00E+00	0.00E+00	0.00E+00	1.42E-02	0.00E+00	0.00E+00	0.00E+00

Appendix B: Table B-12
CPV Valley Energy Center
Combined Cycle Unit Non-Criteria Pollutant Emissions
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Fuel			Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate
Ambient Temp.		°F	40	40	40	40	9	51	51	-5	-5	-5
Turbine Load			BASE	BASE	84%	70%	BASE	84%	70%	100%	84%	70%
Inlet Air Cooling			On	Off	Off	Off	Off	Off	Off	Off	Off	Off
CF@Heat Input-HHV		mmBtu/hr	1,257	1,698	1,504	1,303	1,844	1,662	1,436	2,145	1,867	1,616
1,3-Butadiene	a	(lb/hr)	2.81E-02	2.72E-02	2.41E-02	2.15E-02	3.03E-02	2.68E-02	2.37E-02	3.43E-02	2.93E-02	2.55E-02
1,1,1-Trichloroethane		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dichlorobenzene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	3.87E-02	0.00E+00	0.00E+00	4.22E-02	0.00E+00	0.00E+00	4.77E-02
2-Methylnaphthalene		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3-Methylchloranthrene	a,b	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7,12-Dimethylbenz(a)anthracene	a,b	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acenaphthene	a,b	(lb/hr)	2.39E-02	2.31E-02	2.05E-02	1.77E-02	2.58E-02	2.28E-02	1.95E-02	2.92E-02	2.49E-02	2.18E-02
Acenaphthylene	a,b	(lb/hr)	2.87E-04	2.77E-04	2.46E-04	2.13E-04	3.04E-04	2.71E-04	2.34E-04	3.50E-04	3.04E-04	2.62E-04
Acetaldehyde	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	3.95E-02	0.00E+00	0.00E+00	4.33E-02	0.00E+00	0.00E+00	4.87E-02
Acrolein	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ammonia		(lb/hr)	1.01E+01	9.84E+00	8.92E+00	8.09E+00	1.11E+01	9.85E+00	8.51E+00	1.23E+01	1.08E+01	9.76E+00
Anthracene	a,b	(lb/hr)	1.38E-03	1.34E-03	1.18E-03	1.02E-03	1.49E-03	1.31E-03	1.13E-03	1.69E-03	1.47E-03	1.26E-03
Arsenic	a	(lb/hr)	1.93E-02	1.87E-02	1.65E-02	1.45E-02	2.08E-02	1.83E-02	1.58E-02	2.36E-02	2.05E-02	1.77E-02
Barium		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benz(a)anthracene	a,b	(lb/hr)	4.54E-03	4.39E-03	3.89E-03	3.37E-03	4.90E-03	4.30E-03	3.71E-03	5.54E-03	4.83E-03	4.15E-03
Benzene	a	(lb/hr)	9.56E-02	9.26E-02	8.23E-02	7.27E-02	1.04E-01	9.14E-02	7.90E-02	1.18E-01	1.01E-01	8.69E-02
Benzo(a)pyrene	a,b	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(b)fluoranthene	a,b	(lb/hr)	1.68E-03	1.62E-03	1.44E-03	1.24E-03	1.81E-03	1.59E-03	1.37E-03	2.05E-03	1.78E-03	1.53E-03
Benzo(b,k)fluoranthene		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(g,h,i)perylene	a,b	(lb/hr)	2.45E-03	2.39E-03	2.14E-03	1.92E-03	2.71E-03	2.42E-03	2.09E-03	3.12E-03	2.72E-03	2.34E-03
Benzo(k)fluoranthene	a,b	(lb/hr)	1.68E-03	1.62E-03	1.44E-03	1.24E-03	1.81E-03	1.59E-03	1.37E-03	2.05E-03	1.78E-03	1.53E-03
Beryllium	a	(lb/hr)	5.47E-04	5.26E-04	4.68E-04	4.04E-04	5.87E-04	5.15E-04	4.45E-04	6.65E-04	5.79E-04	4.98E-04
Butane		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cadmium	a	(lb/hr)	8.45E-03	8.15E-03	7.22E-03	6.35E-03	9.06E-03	7.95E-03	6.87E-03	1.03E-02	8.95E-03	7.71E-03
Carbon Tetrachloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	3.95E-02	0.00E+00	0.00E+00	4.33E-02	0.00E+00	0.00E+00	4.87E-02
Chlorobenzene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	3.24E-02	0.00E+00	0.00E+00	3.55E-02	0.00E+00	0.00E+00	4.00E-02
Chloroform	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	3.32E-02	0.00E+00	0.00E+00	3.65E-02	0.00E+00	0.00E+00	4.10E-02
Chromium	a	(lb/hr)	1.93E-02	1.87E-02	1.65E-02	1.45E-02	2.08E-02	1.83E-02	1.58E-02	2.36E-02	2.05E-02	1.77E-02
Chrysene	a,b	(lb/hr)	2.70E-03	2.61E-03	2.31E-03	2.03E-03	2.91E-03	2.55E-03	2.20E-03	3.29E-03	2.86E-03	2.46E-03
Cobalt	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Copper		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dibenz(a,h)anthracene	a,b	(lb/hr)	1.84E-03	1.81E-03	1.62E-03	1.40E-03	2.04E-03	1.79E-03	1.55E-03	2.31E-03	2.01E-03	1.73E-03
Dichlorobenzene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethane		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylbenzene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylene Dichloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	2.63E-02	0.00E+00	0.00E+00	2.90E-02	0.00E+00	0.00E+00	3.24E-02
Fluoranthene	a,b	(lb/hr)	5.42E-03	5.30E-03	4.64E-03	4.07E-03	5.91E-03	5.19E-03	4.45E-03	6.69E-03	5.82E-03	5.01E-03
Fluorene	a,b	(lb/hr)	5.05E-03	4.84E-03	4.33E-03	3.77E-03	5.46E-03	4.79E-03	4.14E-03	6.18E-03	5.38E-03	4.63E-03
Formaldehyde	a	(lb/hr)	4.42E-01	4.27E-01	4.21E-01	3.61E-01	5.30E-01	4.65E-01	4.02E-01	6.01E-01	5.23E-01	4.50E-01
Hexane	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	a,b	(lb/hr)	2.42E-03	2.34E-03	2.09E-03	1.80E-03	2.61E-03	2.29E-03	1.98E-03	2.96E-03	2.58E-03	2.22E-03
Lead	a	(lb/hr)	2.46E-02	2.38E-02	2.11E-02	1.82E-02	2.65E-02	2.33E-02	2.01E-02	3.00E-02	2.61E-02	2.25E-02
Manganese	a	(lb/hr)	1.93E+00	1.87E+00	1.67E+00	1.45E+00	2.08E+00	1.83E+00	1.58E+00	2.36E+00	2.05E+00	1.77E+00
Mercury	a	(lb/hr)	2.11E-03	2.04E-03	1.82E-03	1.58E-03	2.27E-03	1.99E-03	1.72E-03	2.57E-03	2.24E-03	1.93E-03
Methylene Chloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	2.76E-02	0.00E+00	0.00E+00	3.03E-02	0.00E+00	0.00E+00	3.42E-02
Molybdenum		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Naphthalene	a,c	(lb/hr)	8.11E-02	5.94E-02	5.26E-02	4.93E-02	8.51E-02	5.82E-02	5.05E-02	7.93E-02	6.92E-02	5.84E-02
Nickel	a	(lb/hr)	8.06E-03	7.81E-03	6.92E-03	2.11E-02	8.71E-03	7.62E-03	2.33E-02	4.87E-03	8.91E-03	2.60E-02
PAH	a,b	(lb/hr)	7.03E-02	6.79E-02	6.02E-02	5.25E-02	7.58E-02	6.65E-02	5.79E-02	8.58E-02	7.47E-02	6.47E-02
Pentane		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phenanathrene	a,b	(lb/hr)	1.11E-02	1.11E-02	1.02E-02	8.85E-03	1.28E-02	1.12E-02	9.72E-03	1.46E-02	1.28E-02	1.09E-02
PCM	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propane		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propylene		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propylene Oxide	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pyrene	a,b	(lb/hr)	4.81E-03	4.64E-03	4.12E-03	3.57E-03	5.14E-03	4.55E-03	3.93E-03	5.88E-03	5.11E-03	4.40E-03
Selenium	a	(lb/hr)	4.34E-02	4.29E-02	3.76E-02	3.25E-02	4.74E-02	4.16E-02	4.14E-02	5.38E-02	4.67E-02	4.63E-02
Sulfuric Acid		(lb/hr)	8.20E-01	7.93E-01	7.02E-01	6.08E-01	8.84E-01	7.76E-01	6.70E-01	1.00E+00	8.72E-01	7.50E-01
Tetrachloroethylene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	4.22E-02	0.00E+00	0.00E+00	4.64E-02	0.00E+00	0.00E+00	5.20E-02
Toluene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichloroethylene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	3.25E-02	0.00E+00	0.00E+00	3.49E-02	0.00E+00	0.00E+00	4.02E-02
Vanadium		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl Chloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	6.87E-02	0.00E+00	0.00E+00	7.57E-02	0.00E+00	0.00E+00	8.46E-02
Vinylidene Chloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	2.63E-02	0.00E+00	0.00E+00	2.90E-02	0.00E+00	0.00E+00	3.24E-02
Xylenes	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zinc		(lb/hr)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Appendix B: Table B -12
CPV Valley Energy Center
Combined Cycle Unit Non-Criteria Pollutant Emissions
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Fuel			Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane	Methane
Ambient Temp.		°F	90	90	90	90	90	90	51	51	9	51	9	-5	-5	-5	-5
Turbine Load			BASE	BASE	BASE	BASE	80%	60%	BASE	BASE	BASE	80%	60%	1	1	80%	60%
Inlet Air Cooling			On	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
CTG Heat Input-HHV		mmBtu/hr	1855	1855	1855	1855	1689	1243	1998	1998	1998	1661	1364	2234	2234	2083	159
Duct Burner Operation			On	Off	On	Off	Off	Off	On	On	Off	Off	Off	On	Off	Off	Off
Duct Burner Rate (HHV)	Note	mmBtu/hr	500	0	500	0	0	0	185	500	0	0	0	500	0	0	0
1,3-Butadiene	a	(g/s)	1.01E-04	1.01E-04	1.01E-04	1.01E-04	4.15E-05	6.74E-05	1.08E-04	1.08E-04	1.08E-04	1.01E-04	7.39E-05	1.21E-04	1.21E-04	1.13E-04	8.41E-05
1,1,1-Trichloroethane		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dichlorobenzene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2-Methylnapthalene		(g/s)	1.48E-06	0.00E+00	1.48E-06	0.00E+00	0.00E+00	0.00E+00	5.50E-07	1.48E-06	0.00E+00	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	0.00E+00
3-Methylchloranthrene	a b	(g/s)	1.11E-07	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	4.12E-08	1.11E-07	0.00E+00	0.00E+00	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00
7,12-Dimethylbenz(a)anthracene	a b	(g/s)	4.88E-07	0.00E+00	4.88E-07	0.00E+00	0.00E+00	0.00E+00	3.66E-07	4.88E-07	0.00E+00	0.00E+00	0.00E+00	4.88E-07	0.00E+00	0.00E+00	0.00E+00
Acenaphthene	a b	(g/s)	2.01E-05	2.00E-05	2.01E-05	2.00E-05	1.82E-05	1.34E-05	2.15E-05	2.16E-05	2.15E-05	2.00E-05	1.47E-05	2.41E-05	2.40E-05	2.24E-05	1.67E-05
Acenaphthylene	a b	(g/s)	2.01E-05	2.00E-05	2.01E-05	2.00E-05	1.82E-05	1.34E-05	2.15E-05	2.16E-05	2.15E-05	2.00E-05	1.47E-05	2.41E-05	2.40E-05	2.24E-05	1.67E-05
Acetaldehyde	a	(g/s)	4.35E-03	4.35E-03	4.35E-03	4.35E-03	8.51E-03	6.97E-03	1.01E-02	1.01E-02	1.01E-02	4.38E-03	7.65E-03	1.13E-02	1.13E-02	1.05E-02	8.70E-03
Acrolein	a	(g/s)	1.50E-03	1.50E-03	1.50E-03	1.50E-03	1.36E-03	1.30E-03	1.61E-03	1.61E-03	1.61E-03	1.50E-03	1.43E-03	1.80E-03	1.80E-03	1.68E-03	1.62E-03
Ammonia		(g/s)	1.25E+00	1.25E+00	1.22E+00	1.22E+00	1.07E+00	9.15E-01	1.37E+00	1.37E+00	1.37E+00	1.18E+00	1.01E+00	1.50E+00	1.50E+00	1.29E+00	1.10E+00
Anthracene	a b	(g/s)	2.67E-05	2.66E-05	2.67E-05	2.66E-05	2.42E-05	1.78E-05	2.87E-05	2.88E-05	2.87E-05	2.67E-05	1.96E-05	3.22E-05	3.20E-05	2.99E-05	2.22E-05
Arsenic	a	(g/s)	1.24E-05	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	4.58E-06	1.24E-05	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00
Barium		(g/s)	2.72E-04	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	1.01E-04	2.72E-04	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00
Benz(a)anthracene	a b	(g/s)	2.01E-05	2.00E-05	2.01E-05	2.00E-05	1.82E-05	1.34E-05	2.15E-05	2.16E-05	2.15E-05	2.00E-05	1.47E-05	2.41E-05	2.40E-05	2.24E-05	1.67E-05
Benzene	a	(g/s)	2.93E-03	2.81E-03	2.93E-03	2.81E-03	2.55E-03	1.61E-02	3.07E-03	3.15E-03	3.02E-03	2.81E-03	1.77E-02	3.91E-03	3.38E-03	3.15E-03	2.01E-02
Benzo(a)pyrene	a b	(g/s)	1.34E-05	1.33E-05	1.34E-05	1.33E-05	1.21E-05	8.91E-06	1.44E-05	1.44E-05	1.43E-05	1.33E-05	9.78E-06	1.61E-05	1.60E-05	1.49E-05	1.11E-05
Benzo(b)fluoranthene	a b	(g/s)	2.01E-05	2.00E-05	2.01E-05	2.00E-05	1.82E-05	1.34E-05	2.15E-05	2.16E-05	2.15E-05	2.00E-05	1.47E-05	2.41E-05	2.40E-05	2.24E-05	1.67E-05
Benzo(b,k)fluoranthene		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(g,h,i)perylene	a b	(g/s)	1.34E-05	1.33E-05	1.34E-05	1.33E-05	1.21E-05	8.91E-06	1.44E-05	1.44E-05	1.43E-05	1.33E-05	9.78E-06	1.61E-05	1.60E-05	1.49E-05	1.11E-05
Benzo(k)fluoranthene	a b	(g/s)	2.01E-05	2.00E-05	2.01E-05	2.00E-05	1.82E-05	1.34E-05	2.15E-05	2.16E-05	2.15E-05	2.00E-05	1.47E-05	2.41E-05	2.40E-05	2.24E-05	1.67E-05
Beryllium	a	(g/s)	7.41E-07	0.00E+00	7.41E-07	0.00E+00	0.00E+00	0.00E+00	2.75E-07	7.41E-07	0.00E+00	0.00E+00	0.00E+00	7.41E-07	0.00E+00	0.00E+00	0.00E+00
Butane		(g/s)	1.30E-01	0.00E+00	1.30E-01	0.00E+00	0.00E+00	0.00E+00	4.81E-02	1.30E-01	0.00E+00	0.00E+00	0.00E+00	1.30E-01	0.00E+00	0.00E+00	0.00E+00
Cadmium	a	(g/s)	6.79E-05	0.00E+00	6.79E-05	0.00E+00	0.00E+00	0.00E+00	2.52E-05	6.79E-05	0.00E+00	0.00E+00	0.00E+00	6.79E-05	0.00E+00	0.00E+00	0.00E+00
Carbon Tetrachloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorobenzene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chromium	a	(g/s)	8.65E-05	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	3.21E-05	8.65E-05	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00
Chrysene	a b	(g/s)	2.01E-05	2.00E-05	2.01E-05	2.00E-05	1.82E-05	1.34E-05	2.15E-05	2.16E-05	2.15E-05	2.00E-05	1.47E-05	2.41E-05	2.40E-05	2.24E-05	1.67E-05
Cobalt	a	(g/s)	5.19E-06	0.00E+00	5.19E-06	0.00E+00	0.00E+00	0.00E+00	1.92E-06	5.19E-06	0.00E+00	0.00E+00	0.00E+00	5.19E-06	0.00E+00	0.00E+00	0.00E+00
Copper		(g/s)	5.25E-05	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	1.95E-05	5.25E-05	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00
Dibenzo(a,h)anthracene	a b	(g/s)	1.34E-05	1.33E-05	1.34E-05	1.33E-05	1.21E-05	8.91E-06	1.44E-05	1.44E-05	1.43E-05	1.33E-05	9.78E-06	1.61E-05	1.60E-05	1.49E-05	1.11E-05
Dichlorobenzene	a	(g/s)	7.41E-05	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	2.75E-05	7.41E-05	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00
Ethane		(g/s)	1.91E-01	0.00E+00	1.91E-01	0.00E+00	0.00E+00	0.00E+00	7.10E-02	1.91E-01	0.00E+00	0.00E+00	0.00E+00	1.91E-01	0.00E+00	0.00E+00	0.00E+00
Ethylbenzene	a	(g/s)	7.48E-03	7.48E-03	7.48E-03	7.48E-03	6.81E-03	5.01E-03	8.06E-03	8.06E-03	8.06E-03	7.50E-03	5.50E-03	9.01E-03	9.01E-03	8.40E-03	6.26E-03
Ethylene Dichloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluoranthene	a b	(g/s)	3.34E-05	3.33E-05	3.34E-05	3.33E-05	3.03E-05	2.23E-05	3.59E-05	3.60E-05	3.58E-05	3.34E-05	2.44E-05	4.02E-05	4.00E-05	3.73E-05	2.78E-05
Fluorene	a b	(g/s)	3.12E-05	3.10E-05	3.12E-05	3.10E-05	2.83E-05	2.08E-05	3.35E-05	3.36E-05	3.34E-05	3.11E-05	2.28E-05	3.75E-05	3.74E-05	3.48E-05	2.60E-05
Formaldehyde	a	(g/s)	3.03E-02	2.57E-02	3.03E-02	2.57E-02	2.34E-02	1.72E-02	2.94E-02	3.23E-02	2.77E-02	2.58E-02	1.89E-02	3.56E-02	3.10E-02	2.89E-02	2.15E-02
Hexane	a	(g/s)	1.11E-01	0.00E+00	1.11E-01	0.00E+00	0.00E+00	0.00E+00	4.12E-02	1.11E-01	0.00E+00	0.00E+00	0.00E+00	1.11E-01	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	a b	(g/s)	2.01E-05	2.00E-05	2.01E-05	2.00E-05	1.82E-05	1.34E-05	2.15E-05	2.16E-05	2.15E-05	2.00E-05	1.47E-05	2.41E-05	2.40E-05	2.24E-05	1.67E-05
Lead	a	(g/s)	3.09E-05	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	1.14E-05	3.09E-05	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00
Manganese	a	(g/s)	2.35E-05	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	8.70E-06	2.35E-05	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00
Mercury	a	(g/s)	1.61E-05	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	5.95E-06	1.61E-05	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00
Methlyene Chloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Molybdenum		(g/s)	6.79E-05	0.00E+00	6.79E-05	0.00E+00	0.00E+00	0.00E+00	2.52E-05	6.79E-05	0.00E+00	0.00E+00	0.00E+00	6.79E-05	0.00E+00	0.00E+00	0.00E+00
Napthalene	a,c	(g/s)	3.42E-04	3.04E-04	3.42E-04	3.04E-04	2.77E-04	2.15E-04	3.41E-04	3.65E-04	3.27E-04	3.05E-04	2.35E-04	4.04E-04	3.66E-04	3.41E-04	2.68E-04
Nickel	a	(g/s)	1.30E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	4.81E-05	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00
PAH	a b	(g/s)	5.14E-04	5.14E-04	5.14E-04	5.14E-04	4.68E-04	3.52E-04	5.54E-04	5.54E-04	5.54E-04	5.16E-04	3.87E-04	6.19E-04	6.19E-04	5.77E-04	4.40E-04
Pentane		(g/s)	1.61E-01	0.00E+00	1.61E-01	0.00E+00	0.00E+00	0.00E+00	5.95E-02	1.61E-01	0.00E+00	0.00E+00	0.00E+00	1.61E-01	0.00E+00	0.00E+00	0.00E+00
Phenanathrene	a b	(g/s)	1.89E-04	1.88E-04	1.89E-04	1.88E-04	1.72E-04	1.26E-04	2.03E-04	2.04E-04	2.03E-04	1.89E-04	1.39E-04	2.28E-04	2.27E-04	2.12E-04	1.58E-04
POM	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propane		(g/s)	4.88E-02	0.00E+00	4.88E-02	0.00E+00	0.00E+00	0.00E+00	3.66E-02	4.88E-02	0.00E+00	0.00E+00	0.00E+00	4.88E-02	0.00E+00	0.00E+00	0.00E+00
Propylene		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propylene Oxide	a	(g/s)	6.78E-03	6.78E-03	6.78E-03	6.78E-03	6.17E-03	4.54E-03	7.30E-03	7.30E-03	7.30E-03	6.80E-03	4.98E-03	8.16E-03	8.16E-03	7.61E-03	5.67E-03
Pyrene	a b	(g/s)	5.57E-05	5.54E-05	5.57E-05	5.54E-05	5.05E-05	3.71E-05	5.98E-05	6.00E-05	5.97E-05	5.56E-05	4.07E-05	6.70E-05	6.67E-05	6.22E-05	4.63E-05
Selenium	a	(g/s)	1.48E-06	0.00E+00	1.48E-06	0.00E+00	0.00E+00	0.00E+00	5.50E-07	1.48E-06	0.00E+00	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	0.00E+00
Sulfuric Acid		(g/s)	1.56E-01	1.56E-01	1.56E-01	1.56E-01	1.42E-01	1.05E-01	1.68E-01	1.68E-01	1.68E-01	1.57E-01	1.15E-01	1.88E-01	1.88E-01	1.75E-01	1.31E-01
Tetrachloroethylene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	a	(g/s)	3.06E-02	3.04E-02	3.06E-02	3.04E-02	2.77E-02	2.04E-02	3.28E-02	3.29E-02	3.27E-02	3.05E-02	2.23E-02	3.68E-02	3.66E-02	3.41E-02	2.54E-02
Trichloroethylene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vanadium		(g/s)	1.42E-04	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	5.27E-05	1.42E-04	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00
Vinyl Chloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinylidene Chloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xylenes	a	(g/s)	1.50E-02	1.50E-02	1.50E-02	1.50E-02	1.36E-02	1.00E-02	1.61E-02	1.61E-02	1.61E-02	1.50E-02	1.10E-02	1.80E-02	1.80E-02	1.68E-02	1.25E-02
Zinc		(g/s)	1.79E-03	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	6.64E-04	1.79E-03	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00

Appendix B: Table B-12
CPV Valley Energy Center
Combined Cycle Unit Non-Criteria Pollutant Emissions
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Fuel			Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate
Ambient Temp.		°F	90	90	90	90	9	51	51	51	-5	-5
Turbine Load			BASE	BASE	80%	70%	BASE	80%	70%		80%	70%
Inlet Air Cooling			On	Off	Off	Off	Off	Off	Off	Off	Off	Off
CFG Heat Input-HHV		mmBtu/hr	1,757	1,698	1,504	1,303	1,894	1,662	1,456	2145	1,867	1,606
1,3-Butadiene	a	(g/s)	3.54E-03	3.43E-03	3.05E-03	2.71E-03	3.82E-03	3.35E-03	2.93E-03	4.32E-03	3.76E-03	3.24E-03
1,1,1-Trichloroethane		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dichlorobenzene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	5.37E-03	0.00E+00	0.00E+00	6.01E-03
2-Methylnaphthalene		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3-Methylchloranthrene	a,b	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7,12-Dimethylbenz(a)anthracene	a,b	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acenaphthene	a,b	(g/s)	3.01E-03	2.91E-03	2.58E-03	2.30E-03	3.25E-03	2.85E-03	2.48E-03	3.68E-03	3.20E-03	2.75E-03
Acenaphthylene	a,b	(g/s)	3.61E-05	3.49E-05	3.09E-05	2.75E-05	3.89E-05	3.42E-05	2.97E-05	4.41E-05	3.84E-05	3.30E-05
Acetaldehyde	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	5.48E-03	0.00E+00	0.00E+00	6.13E-03
Acrolein	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ammonia		(g/s)	1.27E+00	1.24E+00	1.12E+00	1.00E+00	1.38E+00	1.23E+00	1.11E+00	1.59E+00	1.38E+00	1.23E+00
Anthracene	a,b	(g/s)	1.74E-04	1.68E-04	1.44E-04	1.24E-04	1.88E-04	1.61E-04	1.42E-04	2.13E-04	1.85E-04	1.59E-04
Arsenic	a	(g/s)	2.44E-03	2.35E-03	2.08E-03	1.86E-03	2.63E-03	2.30E-03	1.99E-03	2.97E-03	2.59E-03	2.23E-03
Barium		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benz(a)anthracene	a,b	(g/s)	5.72E-04	5.53E-04	4.90E-04	4.34E-04	6.17E-04	5.41E-04	4.68E-04	6.99E-04	6.08E-04	5.21E-04
Benzene	a	(g/s)	1.22E-02	1.18E-02	1.04E-02	9.03E-03	1.31E-02	1.15E-02	9.95E-03	1.49E-02	1.29E-02	1.11E-02
Benzo(a)pyrene	a,b	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(b)fluoranthene	a,b	(g/s)	2.11E-04	2.04E-04	1.81E-04	1.57E-04	2.28E-04	2.00E-04	1.73E-04	2.58E-04	2.24E-04	1.93E-04
Benzo(b,k)fluoranthene		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(g,h,i)perylene	a,b	(g/s)	3.21E-04	3.12E-04	2.76E-04	2.46E-04	3.48E-04	3.05E-04	2.64E-04	3.94E-04	3.42E-04	2.94E-04
Benzo(k)fluoranthene	a,b	(g/s)	2.11E-04	2.04E-04	1.81E-04	1.57E-04	2.28E-04	2.00E-04	1.73E-04	2.58E-04	2.24E-04	1.93E-04
Beryllium	a	(g/s)	6.86E-05	6.63E-05	5.87E-05	5.09E-05	7.40E-05	6.44E-05	5.61E-05	8.38E-05	7.24E-05	6.27E-05
Butane		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cadmium	a	(g/s)	1.06E-03	1.03E-03	9.10E-04	7.88E-04	1.15E-03	1.01E-03	8.68E-04	1.30E-03	1.13E-03	9.71E-04
Carbon Tetrachloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	5.02E-03	0.00E+00	0.00E+00	5.54E-03	0.00E+00	0.00E+00	6.19E-03
Chlorobenzene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	4.51E-03	0.00E+00	0.00E+00	5.04E-03
Chloroform	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	4.19E-03	0.00E+00	0.00E+00	4.61E-03	0.00E+00	0.00E+00	5.16E-03
Chromium	a	(g/s)	2.44E-03	2.35E-03	2.08E-03	1.86E-03	2.63E-03	2.30E-03	1.99E-03	2.97E-03	2.59E-03	2.23E-03
Chrysene	a,b	(g/s)	3.40E-04	3.28E-04	2.91E-04	2.52E-04	3.66E-04	3.21E-04	2.78E-04	4.15E-04	3.61E-04	3.10E-04
Cobalt	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Copper		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dibenz(a,h)anthracene	a,b	(g/s)	2.38E-04	2.30E-04	2.04E-04	1.77E-04	2.57E-04	2.25E-04	1.95E-04	2.91E-04	2.53E-04	2.18E-04
Dichlorobenzene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethane		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylbenzene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylene Dichloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	3.92E-03	0.00E+00	0.00E+00	3.61E-03	0.00E+00	0.00E+00	4.04E-03
Fluoranthene	a,b	(g/s)	4.91E-04	4.74E-04	4.17E-04	3.64E-04	5.29E-04	4.63E-04	4.02E-04	5.99E-04	5.21E-04	4.47E-04
Fluorene	a,b	(g/s)	8.58E-04	8.28E-04	7.29E-04	6.37E-04	9.25E-04	8.09E-04	7.03E-04	1.05E-03	9.11E-04	7.82E-04
Formaldehyde	a	(g/s)	6.20E-02	5.99E-02	5.31E-02	4.60E-02	6.68E-02	5.86E-02	5.07E-02	7.57E-02	6.59E-02	5.67E-02
Hexane	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	a,b	(g/s)	3.05E-04	2.95E-04	2.61E-04	2.26E-04	3.29E-04	2.89E-04	2.50E-04	3.73E-04	3.25E-04	2.79E-04
Lead	a	(g/s)	3.10E-03	3.00E-03	2.65E-03	2.30E-03	3.34E-03	2.93E-03	2.53E-03	3.78E-03	3.29E-03	2.83E-03
Manganese	a	(g/s)	1.75E-01	1.69E-01	1.50E-01	1.30E-01	1.89E-01	1.65E-01	1.43E-01	2.14E-01	1.86E-01	1.60E-01
Mercury	a	(g/s)	2.66E-04	2.57E-04	2.27E-04	1.97E-04	2.86E-04	2.51E-04	2.17E-04	3.24E-04	2.82E-04	2.43E-04
Methylene Chloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	3.50E-03	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	4.51E-03
Molybdenum		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Naphthalene	a,c	(g/s)	7.75E-03	7.49E-03	6.59E-03	5.76E-03	8.35E-03	7.32E-03	6.32E-03	9.46E-03	8.23E-03	7.12E-03
Nickel	a	(g/s)	1.02E-03	9.84E-04	8.72E-04	2.66E-03	1.10E-03	9.63E-04	2.49E-03	1.24E-03	1.08E-03	5.28E-03
PAH	a,b	(g/s)	8.86E-03	8.56E-03	7.56E-03	6.62E-03	9.55E-03	8.38E-03	7.29E-03	1.08E-02	9.41E-03	8.15E-03
Pentane		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phenanathrene	a,b	(g/s)	1.50E-03	1.45E-03	1.28E-03	1.11E-03	1.62E-03	1.42E-03	1.22E-03	1.83E-03	1.59E-03	1.37E-03
PCNI	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propane		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propylene		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propylene Oxide	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pyrene	a,b	(g/s)	8.06E-04	7.84E-04	6.91E-04	6.03E-04	8.74E-04	7.74E-04	6.78E-04	9.92E-04	8.63E-04	7.41E-04
Selenium	a	(g/s)	5.53E-03	5.35E-03	4.74E-03	4.15E-03	5.97E-03	5.24E-03	4.52E-03	6.76E-03	5.88E-03	5.15E-03
Sulfuric Acid		(g/s)	1.01E-01	9.49E-02	8.45E-02	7.47E-02	1.11E-01	9.73E-02	8.45E-02	1.25E-01	1.10E-01	9.45E-02
Tetrachloroethylene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	0.00E+00	5.86E-03	0.00E+00	0.00E+00	6.56E-03
Toluene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichloroethylene	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	4.51E-03	0.00E+00	0.00E+00	4.96E-03	0.00E+00	0.00E+00	5.56E-03
Vanadium		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl Chloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	8.65E-03	0.00E+00	0.00E+00	9.54E-03	0.00E+00	0.00E+00	1.07E-02
Vinylidene Chloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	4.09E-03
Xylenes	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zinc		(g/s)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Appendix B: Table B-12
CPV Valley Energy Center
Combined Cycle Unit Non-Criteria Pollutant Emissions
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Combined Cycle Unit Potential HAP Emissions

Annual Operating Scenario			Gas Only	Gas/Oil	Single CTG/DB		2x CTG/DB		Facility-Wide 2CTG/DB and Aux. Equip.
Gas-Fired Operation		hr/yr	8,760	8,040	Worst Case Annual Emissions (scientific)	Worst Case Annual Emissions (decimal)	Worst Case Annual Emissions (scientific)	Worst Case Annual Emissions (decimal)	
Oil-Fired Operation (w/o duct burner)		hr/yr	0	720					
Gas-Fired Operation (w/ duct burner)		hr/yr	2,628	2,628					
Gas-Fired Operation (w/o duct burner)	Note	hr/yr	6,132	5,412					(Tons/yr)
1,3-Butadiene	a	(tons/yr)	4.21E-03	1.62E-02	1.62E-02	0.016216	5.24E-02	0.052432	5.25E-02
1,1,1-Trichloroethane		(tons/yr)	0.00E+00	0.00E+00	0.00E+00	0.000000	0.00E+00	0.000000	0.00E+00
1,4-Dichlorobenzene	a	(tons/yr)	0.00E+00	1.72E-02	1.72E-02	0.01721	5.43E-02	0.054348	5.43E-02
2-Methylnaphthalene		(tons/yr)	1.55E-05	1.55E-05	1.55E-05	0.000015	3.09E-05	0.000029	3.29E-05
3-Methylchloranthrene	a,b	(tons/yr)	1.18E-06	1.18E-06	1.18E-06	0.000001	2.35E-06	0.000002	2.49E-06
7,12-Dimethylbenz(a)anthracene	a,b	(tons/yr)	1.03E-05	1.03E-05	1.03E-05	0.000010	2.06E-05	0.000020	2.20E-05
Acenaphthene	a,b	(tons/yr)	8.36E-04	1.13E-02	1.13E-02	0.011270	2.25E-02	0.022541	2.25E-02
Acenaphthylene	a,b	(tons/yr)	8.36E-04	8.93E-04	8.93E-04	0.000895	1.79E-03	0.001787	1.80E-03
Acetaldehyde	a	(tons/yr)	3.91E-01	3.77E-01	3.91E-01	0.391314	7.81E-01	0.782628	7.85E-01
Acrolein	a	(tons/yr)	6.26E-02	5.75E-02	6.26E-02	0.062610	1.25E-01	0.125220	1.25E-01
Ammonia		(tons/yr)	5.23E+01	5.24E+01	5.24E+01	52.395440	1.05E+02	104.790880	1.05E+02
Anthracene	a,b	(tons/yr)	1.11E-05	1.63E-05	1.63E-05	0.000161	3.26E-05	0.000321	3.27E-05
Arsenic	a	(tons/yr)	1.24E-04	8.62E-05	8.62E-05	0.000862	1.73E-04	0.001724	1.73E-04
Barium		(tons/yr)	2.85E-03	2.85E-03	2.85E-03	0.002854	5.67E-03	0.005665	5.69E-03
Benz(a)anthracene	a,b	(tons/yr)	8.36E-04	2.76E-03	2.76E-03	0.002764	5.53E-03	0.005527	5.53E-03
Benzene	a	(tons/yr)	5.27E-01	5.11E-01	5.27E-01	0.526529	1.05E+00	1.053057	1.06E+00
Benzo(a)pyrene	a,b	(tons/yr)	5.57E-04	5.12E-04	5.57E-04	0.000557	1.11E-03	0.001115	1.12E-03
Benzo(b)fluoranthene	a,b	(tons/yr)	8.36E-04	1.50E-03	1.50E-03	0.001504	3.01E-03	0.003008	3.01E-03
Benzo(b,k)fluoranthene		(tons/yr)	0.00E+00	0.00E+00	0.00E+00	0.000000	0.00E+00	0.000000	0.00E+00
Benzo(g,h,i)perylene	a,b	(tons/yr)	5.57E-04	1.64E-03	1.64E-03	0.001637	3.27E-03	0.003273	3.27E-03
Benzo(k)fluoranthene	a,b	(tons/yr)	8.36E-04	1.50E-03	1.50E-03	0.001504	3.01E-03	0.003008	3.01E-03
Beryllium	a	(tons/yr)	7.73E-06	2.47E-04	2.47E-04	0.000247	4.94E-04	0.000494	4.95E-04
Butane		(tons/yr)	1.35E+00	1.35E+00	1.35E+00	1.352847	2.71E+00	2.705694	2.68E+00
Cadmium	a	(tons/yr)	7.09E-04	4.42E-03	4.42E-03	0.004415	8.83E-03	0.008830	8.92E-03
Carbon Tetrachloride	a	(tons/yr)	0.00E+00	1.77E-02	1.77E-02	0.017642	3.54E-02	0.035285	3.54E-02
Chlorobenzene	a	(tons/yr)	0.00E+00	1.44E-02	1.44E-02	0.014398	2.88E-02	0.028792	2.88E-02
Chloroform	a	(tons/yr)	0.00E+00	1.47E-02	1.47E-02	0.014746	2.95E-02	0.029492	2.95E-02
Chromium	a	(tons/yr)	9.02E-04	9.40E-03	9.40E-03	0.009396	1.88E-02	0.018792	1.89E-02
Chrysene	a,b	(tons/yr)	8.36E-04	1.95E-03	1.95E-03	0.001952	3.90E-03	0.003904	3.91E-03
Cobalt	a	(tons/yr)	5.41E-05	5.41E-05	5.41E-05	0.000054	1.08E-04	0.000108	1.15E-04
Copper		(tons/yr)	5.48E-04	5.48E-04	5.48E-04	0.000548	1.10E-03	0.001095	1.11E-03
Dibenz(a,h)anthracene	a,b	(tons/yr)	5.57E-04	1.34E-03	1.34E-03	0.001343	2.69E-03	0.002686	2.69E-03
Dichlorobenzene	a	(tons/yr)	7.73E-04	7.73E-04	7.73E-04	0.000773	1.55E-03	0.001546	1.65E-03
Ethane		(tons/yr)	2.00E+00	2.00E+00	2.00E+00	1.998765	3.99E+00	3.993529	4.26E+00
Ethylbenzene	a	(tons/yr)	3.13E-01	2.87E-01	3.13E-01	0.313501	6.26E-01	0.626102	6.26E-01
Ethylene Dichloride	a	(tons/yr)	0.00E+00	1.17E-02	1.17E-02	0.011679	2.34E-02	0.023358	2.34E-02
Fluoranthene	a,b	(tons/yr)	1.39E-03	3.86E-03	3.86E-03	0.003888	7.38E-03	0.007377	7.40E-03
Fluorene	a,b	(tons/yr)	1.30E-03	3.42E-03	3.42E-03	0.003419	6.84E-03	0.006838	6.93E-03
Formaldehyde	a	(tons/yr)	1.12E+00	1.25E+00	1.25E+00	1.252140	2.50E+00	2.504280	2.51E+00
Hexane	a	(tons/yr)	1.18E+00	1.18E+00	1.18E+00	1.15982	2.32E+00	2.31864	2.42E+00
Indeno(1,2,3-cd)pyrene	a,b	(tons/yr)	8.36E-04	1.85E-03	1.85E-03	0.001853	3.67E-03	0.003685	3.67E-03
Lead	a	(tons/yr)	3.22E-04	1.11E-02	1.11E-02	0.011133	2.23E-02	0.022266	2.23E-02
Manganese	a	(tons/yr)	2.46E-04	6.10E-01	6.10E-01	0.610285	1.22E+00	1.220566	1.22E+00
Mercury	a	(tons/yr)	1.67E-04	1.09E-03	1.09E-03	0.001094	2.19E-03	0.002188	2.21E-03
Methylene Chloride	a	(tons/yr)	0.00E+00	1.23E-02	1.23E-02	0.012315	2.46E-02	0.024630	2.46E-02
Molybdenum		(tons/yr)	7.09E-04	7.09E-04	7.09E-04	0.000709	1.42E-03	0.001417	1.41E-03
Naphthalene	a,c	(tons/yr)	1.31E-02	3.91E-02	3.91E-02	0.039042	7.82E-02	0.078185	7.85E-02
Nickel	a	(tons/yr)	1.35E-03	1.07E-02	1.07E-02	0.010789	2.14E-02	0.021495	2.17E-02
PAH	a,b	(tons/yr)	2.15E-02	5.06E-02	5.06E-02	0.050646	1.01E-01	0.101263	1.01E-01
Pentane		(tons/yr)	1.67E+00	1.67E+00	1.67E+00	1.672706	3.35E+00	3.349412	3.57E+00
Phenanthrene	a,b	(tons/yr)	7.40E-03	1.25E-02	1.25E-02	0.012475	2.49E-02	0.024944	2.50E-02
POM	a	(tons/yr)	0.00E+00	0.00E+00	0.00E+00	0.000000	0.00E+00	0.000000	0.00E+00
Propane		(tons/yr)	1.03E+00	1.03E+00	1.03E+00	1.030658	2.06E+00	2.061316	2.20E+00
Propylene		(tons/yr)	0.00E+00	0.00E+00	0.00E+00	0.000000	0.00E+00	0.000000	7.79E-03
Propylene Oxide	a	(tons/yr)	2.84E-01	2.60E-01	2.84E-01	0.283702	5.67E-01	0.567405	5.67E-01
Pyrene	a,b	(tons/yr)	2.32E-03	4.25E-03	4.25E-03	0.004249	8.49E-03	0.008495	8.51E-03
Selenium	a	(tons/yr)	1.95E-05	1.93E-02	1.93E-02	0.019320	3.86E-02	0.038641	3.86E-02
Sulfuric Acid		(tons/yr)	8.53E+00	8.36E+00	8.53E+00	8.531577	1.91E+01	19.063053	1.91E+01
Tetrachloroethylene	a	(tons/yr)	0.00E+00	1.87E-02	1.87E-02	0.018732	3.75E-02	0.037464	3.79E-02
Toluene	a	(tons/yr)	1.27E+00	1.17E+00	1.27E+00	1.273960	2.55E+00	2.547919	2.55E+00
Trichloroethylene	a	(tons/yr)	0.00E+00	1.59E-02	1.59E-02	0.015849	3.18E-02	0.031699	3.18E-02
Vanadium		(tons/yr)	1.48E-03	1.48E-03	1.48E-03	0.001484	2.96E-03	0.002969	3.16E-03
Vinyl Chloride	a	(tons/yr)	0.00E+00	3.01E-02	3.01E-02	0.030184	6.04E-02	0.060368	6.05E-02
Vinylidene Chloride	a	(tons/yr)	0.00E+00	1.17E-02	1.17E-02	0.011679	2.34E-02	0.023358	2.34E-02
Xylenes	a	(tons/yr)	6.26E-01	5.73E-01	6.26E-01	0.626102	1.25E+00	1.252204	1.25E+00
Zinc		(tons/yr)	1.87E-02	1.87E-02	1.87E-02	0.018674	3.74E-02	0.037359	3.98E-02

	Facility	2x CTG/DB
Max Single HAP	2.55	2.55
Total HAPs	13.94	13.77

Appendix B: Table B-12
CPV Valley Energy Center
Combined Cycle Unit Non-Criteria Pollutant Emissions
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Notes
Combustion Turbine emissions based on USEPA's AP-42 emission factors except as noted in other footnotes

		AP-42 5th Edition (4/2000)			
		Final Section	Background Document	Final Section	Background Document
		Table 3.1-3 Gas Fired Turbines CF Load (80%-100%)	Table 3.4-1 Gas Fired Turbines CF Load (<80%)	Table 3.1-4 and 3.1-5 Oil-Fired Turbines CF Load (80%-100%)	Table 3.4-2 Oil-Fired Turbines CF Load (<80%)
	Note	(lb/mmBtu)	(lb/mmBtu)	(lb/mmBtu)	(lb/mmBtu)
1,3-Butadiene	a	< 4.30E-07	< 4.29E-07	< 1.60E-05	< 1.65E-05
1,1,1-Trichloroethane					
1,4-Dichlorobenzene	a				< 2.97E-05
2-Methylnaphthalene					
3-Methylchloranthrene	a,b				
2,2-Dimethylbenz(a)anthracene	a,b				
Acenaphthene	a,b	8.53E-08		1.38E-05	
Acenaphthylene	a,b	8.53E-08		1.63E-07	
Acetaldehyde	a	4.00E-05	4.45E-05		5.05E-05
Acrolein	a	6.40E-06	8.31E-06		
Ammonia					
Anthracene	a,b	1.14E-07		2.86E-07	
Arsenic	a			< 1.10E-05	< 1.10E-05
Barium					
Benz(a)anthracene	a,b	8.53E-08		2.68E-06	
Benzene	a	1.20E-05	1.05E-04	5.50E-05	5.48E-05
Benzo(a)pyrene	a,b	5.64E-08			
Benzo(b)fluoranthene	a,b	8.53E-08		9.94E-07	
Benzo(b,k)fluoranthene					
Benzo(g,h,i)perylene	a,b	5.64E-08		1.48E-06	
Benzo(k)fluoranthene	a,b	8.53E-08		9.94E-07	
Beryllium	a			< 3.10E-07	< 3.07E-07
Butane					
Cadmium	a			4.80E-06	3.77E-06
Carbon Tetrachloride	a				< 3.06E-05
Chlorobenzene	a				< 2.49E-05
Chloroform	a				< 2.55E-05
Chromium	a			1.10E-05	8.44E-06
Chrysene	a,b	8.53E-08		1.52E-06	
Cobalt	a				
Copper					
Dibenz(a,h)anthracene	a,b	5.64E-08		1.08E-06	
Dichlorobenzene	a				
Ethane					
Ethylbenzene	a	3.20E-05	2.58E-05		
Ethylene Dichloride	a				2.02E-05
Fluoranthene	a,b	1.42E-07		3.12E-06	
Fluorene	a,b	1.33E-07		2.86E-06	
Formaldehyde	a	1.10E-04	1.10E-04	2.80E-04	2.80E-04
Hexane	a				
Indeno(1,2,3-cd)pyrene	a,b	8.53E-08		1.38E-06	
Lead	a			1.40E-05	1.34E-05
Manganese	a			7.90E-04	7.85E-04
Mercury	a			1.20E-06	1.20E-06
Methylene Chloride	a				< 2.13E-05
Molybdenum					
Napthalene	a,c	1.30E-06	1.37E-06	5.50E-05	5.52E-05
Nickel	a			< 4.60E-06	1.82E-05
PAH	a,b	< 2.20E-06	2.29E-06	< 4.00E-05	4.02E-05
Pentane					
Phenanathrene	a,b	8.06E-07		8.77E-06	
POM	a				
Propane					
Propylene					
Propylene Oxide	a	< 2.90E-05	< 2.86E-05		
Pyrene	a,b	2.37E-07		2.74E-06	
Selenium	a			< 2.50E-05	< 2.88E-05
Sulfuric Acid					
Tetrachloroethylene	a				< 3.24E-05
Toluene	a	1.30E-04	9.37E-05		
Trichloroethylene	a				< 2.75E-05
Vanadium					
Vinyl Chloride	a				< 5.27E-05
Vinylidene Chloride	a				< 2.02E-05
Xylenes	a	6.40E-05	5.48E-05		
Zinc					

Note s Key

a	indicates compound is one of U.S. EPA's list of 188 HAPs
b	indicates compound is subset of POM or PAH (PAH is a subset of POM)
c	compound is listed on U.S. EPA's list of 188 HAPs and is a subset of POM or PAH

PAHs are broken out for turbines using the same split for boilers:
Turbine PAH Emission Rate (Nat Gas): 2.20E-06 lb/MMBtu from AP-42 Table 3.1-3
Turbine PAH Emission Rate (Fuel Oil): 4.00E-05 lb/MMBtu from AP-42 Table 3.1-4

Pollutant	AP-42 Emission Factor		Percent of Total	Percent of Total
	Natural Gas lb/mmCF	Fuel Oil lb/mgal	Natural Gas (%)	Fuel Oil (%)
Acenaphthene	< 1.80E-06	2.11E-05	5.88%	34.00%
Acenaphthylene	< 1.80E-06	2.93E-07	5.88%	0.47%
Anthracene	< 2.40E-06	1.22E-06	7.73%	1.97%
Benz(a)Anthracene	< 1.80E-06	4.01E-06	5.88%	6.46%
Benzo(a)pyrene	< 1.20E-06		3.53%	0.00%
Benzo(b)fluoranthene	< 1.80E-06	1.48E-06	5.88%	2.39%
Benzo(g,h,i)perylene	< 1.20E-06	2.26E-06	3.53%	3.64%
Benzo(k)fluoranthene	< 1.80E-06	1.48E-06	5.88%	2.39%
Chrysene	< 1.80E-06	2.38E-06	5.88%	3.84%
Dibenz(a,h)anthracene	< 1.20E-06	1.67E-06	3.53%	2.69%
Fluoranthene	3.00E-06	4.84E-06	8.47%	7.80%
Fluorene	2.80E-06	4.42E-06	8.07%	7.20%
Indeno(1,2,3-cd)pyrene	< 1.80E-06	2.14E-06	5.88%	3.46%
Phenanathrene	1.70E-05	1.05E-05	50.64%	16.92%
Pyrene	5.00E-06	4.25E-06	10.78%	6.85%
Totals	4.84E-05	6.21E-05	100%	100%

Emission factors came from AP-42 Table 1.3-9 and 1.4-3

Formaldehyde emission factor for gas firing (median value for > 80% load) obtained from California Air Resource Board (CARB) emission inventory, which can be downloaded from CARB website (www.arb.ca.gov), "software" section, file name = "calefcef"

Sulfuric acid mist (H_2SO_4) emissions based on mass balance of sulfur in fuel and SO_2-> SO_3 Conversion.

Ammonia slip (NH_3) emissions provided by vendor (ppm) and calculated (lb/hr).

Appendix B: Table B-13
CPV Valley Energy Center
Auxiliary Equipment Non-Criteria Pollutant Emissions

Equipment Parameters:

Equipment	Heat Input (mmBtu/hr)	Operation (hrs/year)
Duct Burner	500	2628
Auxiliary Boiler (gas firing)	48.1	2,000
Emergency Diesel Generator	10.1	500
Diesel Fire Pump	2.0	500
Gas Heater	9.0	8,760

Fuel Properties:

Natural Gas Heat Content	1,020	Btu/scf
Natural Gas Sulfur Content	0.80	gr/100scf
Distillate Oil Density	7.1	lb/gal
Distillate Oil Sulfur Content	0.0015%	weight %

Emission Factors & Emissions:

		Duct Burner [1]					Auxiliary Boiler [1,3]					Emergency Diesel Generator [2]				Diesel Fire Pump [2]				Gas Heater [1,3]				
		Gas Firing					Gas Firing					Oil Firing				Oil Firing				Gas Firing				
		Emission Factor		Emissions			Emission Factor		Emissions			EF	Emissions			EF	Emissions			Emission Factor		Emissions		
Non-Criteria Pollutants	Note	(lb/mmscf)	(lb/mmBtu)	(lb/hr)	(g/s)	(tons/yr)	(lb/mmscf)	(lb/mmBtu)	(lb/hr)	(g/s)	(tons/yr)	(lb/mmBtu)	(lb/hr)	(g/s)	(tons/yr)	(lb/mmBtu)	(lb/hr)	(g/s)	(tons/yr)	(lb/mmscf)	(lb/mmBtu)	(lb/hr)	(g/s)	(tons/yr)
1,3-Butadiene	a											3.91E-05	3.94E-04	4.97E-05	9.86E-05	3.91E-05	7.86E-05	9.96E-06	1.97E-05					
1,1,1-Trichloroethane																								
1,4 - Dichlorobenzene	a																							
2-Methylnapthalene		2.40E-05	2.35E-08	1.18E-05	1.48E-06	1.55E-05	2.40E-05	2.29E-08	1.10E-06	1.39E-07	1.10E-06									2.40E-05	2.35E-08	2.11E-07	2.66E-08	9.23E-07
3-Methylchloranthrene	a,b	< 1.80E-06	1.76E-09	8.82E-07	1.11E-07	1.16E-06	< 1.80E-06	1.72E-09	8.26E-08	1.04E-08	8.26E-08									< 1.80E-06	1.76E-09	1.58E-08	1.99E-09	6.93E-08
7,12-Dimethylbenz(a)anthracene	a,b	< 1.60E-05	1.57E-08	7.84E-06	9.88E-07	1.03E-05	< 1.60E-05	1.53E-08	7.34E-07	9.25E-08	7.34E-07									< 1.60E-05	1.57E-08	1.41E-07	1.77E-08	6.18E-07
Acenaphthene	a,b	< 1.80E-06	1.76E-09	8.82E-07	1.11E-07	1.16E-06	< 1.80E-06	1.72E-09	8.26E-08	1.04E-08	8.26E-08	1.42E-06	1.43E-05	1.80E-06	3.58E-06	1.42E-06	2.78E-06	3.51E-07	6.96E-07	< 1.80E-06	1.76E-09	1.58E-08	1.99E-09	6.93E-08
Acenaphthylene	a,b	< 1.80E-06	1.76E-09	8.82E-07	1.11E-07	1.16E-06	< 1.80E-06	1.72E-09	8.26E-08	1.04E-08	8.26E-08	5.06E-06	5.10E-05	6.43E-06	1.27E-05	5.06E-06	9.92E-06	1.25E-06	2.48E-06	< 1.80E-06	1.76E-09	1.58E-08	1.99E-09	6.93E-08
Acetaldehyde	a											7.67E-04	7.75E-03	9.76E-04	1.93E-03	7.67E-04	1.50E-03	1.89E-04	3.76E-04					
Acrolein	a											9.25E-05	9.32E-04	1.17E-04	2.33E-04	9.25E-05	1.81E-04	2.28E-05	4.53E-05					
Ammonia		included in vendor combined cycle emissions estimates																						
Anthracene	a,b	< 2.40E-06	2.35E-09	1.18E-06	1.48E-07	1.55E-06	< 2.40E-06	2.29E-09	1.10E-07	1.39E-08	1.10E-07	1.87E-06	1.88E-05	2.37E-06	4.71E-06	1.87E-06	3.67E-06	4.62E-07	9.16E-07	< 2.40E-06	2.35E-09	2.11E-08	2.66E-09	9.23E-08
Arsenic	a	2.00E-04	1.96E-07	9.80E-05	1.24E-05	1.29E-04	2.00E-04	1.91E-07	9.18E-06	1.16E-06	9.18E-06									2.00E-04	1.96E-07	1.76E-06	2.22E-07	7.70E-06
Barium		4.40E-03	4.31E-06	2.16E-03	2.72E-04	2.83E-03	4.40E-03	4.20E-06	2.02E-04	2.54E-05	2.02E-04									4.40E-03	4.31E-06	3.87E-05	4.87E-06	1.69E-04
Benz(a)anthracene	a,b	< 1.80E-06	1.76E-09	8.82E-07	1.11E-07	1.16E-06	< 1.80E-06	1.72E-09	8.26E-08	1.04E-08	8.26E-08	1.68E-06	1.69E-05	2.13E-06	4.23E-06	1.68E-06	3.29E-06	4.15E-07	8.23E-07	< 1.80E-06	1.76E-09	1.58E-08	1.99E-09	6.93E-08
Benzene	a	2.10E-03	2.06E-06	1.03E-03	1.30E-04	1.35E-03	2.10E-03	2.00E-06	9.64E-05	1.21E-05	9.64E-05	9.33E-04	9.40E-03	1.18E-03	2.35E-03	9.33E-04	1.83E-03	2.30E-04	4.57E-04	2.10E-03	2.06E-06	1.84E-05	2.32E-06	8.08E-05
Benzo(a)pyrene	a,b	< 1.20E-06	1.18E-09	5.88E-07	7.41E-08	7.73E-07	< 1.20E-06	1.15E-09	5.51E-08	6.94E-09	5.51E-08	1.88E-07	1.89E-06	2.39E-07	4.74E-07	1.88E-07	3.68E-07	4.64E-08	9.21E-08	< 1.20E-06	1.18E-09	1.05E-08	1.33E-09	4.62E-08
Benzo(b)fluoranthene	a,b	< 1.80E-06	1.76E-09	8.82E-07	1.11E-07	1.16E-06	< 1.80E-06	1.72E-09	8.26E-08	1.04E-08	8.26E-08	9.91E-08	9.99E-07	1.26E-07	2.50E-07	9.91E-08	1.94E-07	2.45E-08	4.86E-08	< 1.80E-06	1.76E-09	1.58E-08	1.99E-09	6.93E-08
Benzo(b,k)fluoranthene																								
Benzo(g,h,i)perylene	a,b	< 1.20E-06	1.18E-09	5.88E-07	7.41E-08	7.73E-07	< 1.20E-06	1.15E-09	5.51E-08	6.94E-09	5.51E-08	4.89E-07	4.93E-06	6.21E-07	1.23E-06	4.89E-07	9.58E-07	1.21E-07	2.40E-07	< 1.20E-06	1.18E-09	1.05E-08	1.33E-09	4.62E-08
Benzo(k)fluoranthene	a,b	< 1.80E-06	1.76E-09	8.82E-07	1.11E-07	1.16E-06	< 1.80E-06	1.72E-09	8.26E-08	1.04E-08	8.26E-08	1.55E-07	1.56E-06	1.97E-07	3.91E-07	1.55E-07	3.04E-07	3.83E-08	7.59E-08	< 1.80E-06	1.76E-09	1.58E-08	1.99E-09	6.93E-08
Beryllium	a	< 1.20E-05	1.18E-08	5.88E-06	7.41E-07	7.73E-06	< 1.20E-05	1.15E-08	5.51E-07	6.94E-08	5.51E-07									< 1.20E-05	1.18E-08	1.05E-07	1.33E-08	4.62E-07
Butane		2.10E+00	2.06E-03	1.03E+00	1.30E-01	1.35E+00	2.10E+00	2.00E-03	9.64E-02	1.21E-02	9.64E-02									2.10E+00	2.06E-03	1.84E-02	2.32E-03	8.08E-02
Cadmium	a	1.10E-03	1.08E-06	5.39E-04	6.79E-05	7.08E-04	1.10E-03	1.05E-06	5.05E-05	6.36E-06	5.05E-05									1.10E-03	1.08E-06	9.66E-06	1.22E-06	4.23E-05
Carbon Tetrachloride	a																							
Chlorobenzene	a																							
Chloroform	a																							
Chromium	a	1.40E-03	1.37E-06	6.86E-04	8.65E-05	9.02E-04	1.40E-03	1.34E-06	6.43E-05	8.10E-06	6.43E-05									1.40E-03	1.37E-06	1.23E-05	1.55E-06	5.39E-05
Chrysene	a,b	< 1.80E-06	1.76E-09	8.82E-07	1.11E-07	1.16E-06	< 1.80E-06	1.72E-09	8.26E-08	1.04E-08	8.26E-08	3.53E-07	3.56E-06	4.48E-07	8.89E-07	3.53E-07	6.92E-07	8.72E-08	1.73E-07	< 1.80E-06	1.76E-09	1.58E-08	1.99E-09	6.93E-08
Cobalt	a	8.40E-05	8.24E-08	4.12E-05	5.19E-06	5.41E-05	8.40E-05	8.02E-08	3.86E-06	4.86E-07	3.86E-06									8.40E-05	8.24E-08	7.38E-07	9.30E-08	3.23E-06
Copper		8.50E-04	8.33E-07	4.17E-04	5.25E-05	5.48E-04	8.50E-04	8.11E-07	3.90E-05	4.92E-06	3.90E-05									8.50E-04	8.33E-07	7.47E-06	9.41E-07	3.27E-05
Dibenzo(a,h)anthracene	a,b	< 1.20E-06	1.18E-09	5.88E-07	7.41E-08	7.73E-07	< 1.20E-06	1.15E-09	5.51E-08	6.94E-09	5.51E-08	5.83E-07	5.88E-06	7.40E-07	1.47E-06	5.83E-07	1.14E-06	1.44E-07	2.86E-07	< 1.20E-06	1.18E-09	1.05E-08	1.33E-09	4.62E-08
Dichlorobenzene	a	1.20E-03	1.18E-06	5.88E-04	7.41E-05	7.73E-04	1.20E-03	1.15E-06	5.51E-05	6.94E-06	5.51E-05									1.20E-03	1.18E-06	1.05E-05	1.33E-06	4.62E-05
Ethane		3.10E+00	3.04E-03	1.52E+00	1.91E-01	2.00E+00	3.10E+00	2.96E-03	1.42E-01	1.79E-02	1.42E-01									3.10E+00	3.04E-03	2.72E-02	3.43E-03	1.19E-01
Ethylbenzene	a																							
Ethylene Dichloride	a																							
Fluoranthene	a,b	3.00E-06	2.94E-09	1.47E-06	1.85E-07	1.93E-06	3.00E-06	2.86E-09	1.38E-07	1.73E-08	1.38E-07	7.61E-06	7.67E-05	9.66E-06	1.92E-05	7.61E-06	1.49E-05	1.88E-06	3.73E-06	3.00E-06	2.94E-09	2.64E-08	3.32E-09	1.15E-07
Fluorene	a,b	2.80E-06	2.75E-09	1.37E-06	1.73E-07	1.80E-06	2.80E-06	2.67E-09	1.29E-07	1.62E-08	1.29E-07	2.92E-05	2.94E-04	3.71E-05	7.36E-05	2.92E-05	5.72E-05	7.21E-06	1.43E-05	2.80E-06	2.75E-09	2.46E-08	3.10E-09	1.08E-07
Formaldehyde	a	7.50E-02	7.35E-05	3.68E-02	4.63E-03	4.83E-02	7.50E-02	7.16E-05	3.44E-03	4.34E-04	3.44E-03	1.18E-03	1.19E-02	1.50E-03	2.97E-03	1.18E-03	2.31E-03	2.91E-04	5.78E-04	7.50E-02	7.35E-05	6.59E-04	8.30E-05	2.89E-03
Hexane	a	1.80E+00	1.76E-03	8.82E-01	1.11E-01	1.16E+00	1.80E+00	1.72E-03	8.26E-02	1.04E-02	8.26E-02									1.80E+00	1.76E-03	1.58E-02	1.99E-03	6.93E-02
Indeno(1,2,3-cd)pyrene	a,b	< 1.80E-06	1.76E-09	8.82E-07	1.11E-07	1.16E-06	< 1.80E-06	1.72E-09	8.26E-08	1.04E-08	8.26E-08	3.75E-07	3.78E-06	4.76E-07	9.45E-07	3.75E-07	7.35E-07	9.26E-08	1.84E-07	< 1.80E-06	1.76E-09	1.58E-08	1.99E-09	6.93E-08
Lead	a	5.00E-04	4.90E-07	2.45E-04	3.09E-05	3.22E-04	5.00E-04	4.77E-07	2.29E-05	2.89E-06	2.29E-05									5.00E-04	4.90E-07	4.39E-06	5.53E-07	1.92E-05
Manganese	a	3.80E-04	3.73E-07	1.86E-04	2.35E-05	2.45E-04	3.80E-04	3.63E-07	1.74E-05	2.20E-06	1.74E-05									3.80E-04	3.73E-07	3.34E-06	4.21E-07	1.46E-05
Mercury	a	2.60E-04	2.55E-07	1.27E-04	1.61E-05	1.67E-04	2.60E-04	2.48E-07	1.19E-05	1.50E-06	1.19E-05									2.60E-04	2.55E-07	2.28E-06	2.88E-07	1.00E-05
Methylene Chloride	a																							
Molybdenum		1.10E-03	1.08E-06	5.39E-04	6.79E-05	7.08E-04	1.10E-03	1.05E-06	5.05E-05	6.36E-06	5.05E-05									1.10E-03	1.08E-06	9.66E-06	1.22E-06	4.23E-05
Naphthalene	a,c	6.10E-04	5.98E-07	2.99E-04	3.77E-05	3.93E-04	6.10E-04	5.82E-07	2.80E-05	3.53E-06	2.80E-05	8.48E-05	8.55E-04	1.08E-04	2.14E-04	8.48E-05	1.66E-04	2.09E-05	4.15E-05	6.10E-04	5.98E-07	5.36E-06	6.75E-07	2.35E-05
Nickel	a	2.10E-03	2.06E-06	1.03E-03	1.30E-04	1.35E-03	2.10E-03	2.00E-06	9.64E-05	1.21E-05	9.64E-05									2.10E-03	2.06E-06	1.84E-05	2.32E-06	8.08E-05
PAH	a,b																							
Pentane		2.60E+00	2.55E-03	1.27E+00	1.61E-01	1.67E+00	2.60E+00	2.48E-03	1.19E-01	1.50E-02	1.19E-01									2.60E+00	2.55E-03	2.28E-02	2.88E-03	1.00E-01
Phenanthrene	a,b	1.70E-05	1.67E-08	8.33E-06	1.05E-06	1.10E-05	1.70E-05	1.62E-08	7.80E-07	9.83E-08	7.80E-07	2.94E-05	2.96E-04	3.73E-05	7.41E-05	2.94E-05	5.76E-05	7.26E-06	1.44E-05	1.70E-05	1.67E-08	1.49E-07	1.88E-08	6.54E-07
POM	a																							
Propane		1.60E+00	1.57E-03	7.84E-01	9.88E-02	1.03E+00	1.60E+00	1.53E-03	7.34E-02	9.25E-03	7.34E-02									1.60E+00	1.57E-03	1.41E-02	1.77E-03	6.16E-02
Propylene												2.58E-03	2.60E-02	3.28E-03	6.50E-03	2.58E-03	5.06E-03	6.37E-04	1.26E-03					
Propylene Oxide	a																							
Pyrene	a,b	5.00E-06	4.90E-09	2.45E-06	3.09E-07	3.22E-06	5.00E-06	4.77E-09	2.29E-07	2.89E-08	2.29E-07	4.78E-06	4.82E-05	6.07E-06	1.20E-05	4.78E-06	9.37E-06	1.18E-06	2.34E-06	5.00E-06	4.90E-09	4.39E-08	5.53E-09	1.92E-07
Selenium	a	< 2.40E-05	2.35E-08	1.18E-05	1.48E-06	1.55E-05	< 2.40E-05	2.29E-08	1.10E-06	1.39E-07	1.10E-06									< 2.40E-05	2.35E-08	2.11E-07	2.66E-08	9.23E-07
Sulfuric Acid		included in vendor combined cycle emissions estimates						1.67E-04	8.03E-03	1.01E-03	8.03E-03	6.06E-04	6.11E-03	7.69E-04	1.53E-03	6.90E-04	1.37E-03	1.73E-04	3.43E-04		1.67E-04	1.50E-03	1.89E-04	6.57E-03
Tetrachloroethylene	a																							
Toluene	a	3.40E-03	3.33E-06	1.67E-03	2.10E-04	2.19E-03	3.40E-03	3.24E-06	1.56E-04	1.97E-05	1.56E-04	4.09E-04	4.12E-03	5.19E-04	1.03E-03	4.09E-04	8.02E-04	1.01E-04	2.00E-04	3.40E-03	3.33E-06	2.99E-05	3.76E-06	1.31E-04
Trichloroethylene	a																							
Vanadium		2.30E-03	2.25E-06	1.13E-03	1.42E-04	1.48E-03	2.30E-03	2.19E-06	1.06E-04	1.33E-05	1.06E-04									2.30E-03	2.25E-06	2.02E-05	2.55E-06	8.85E-05
Vinyl Chloride	a																							
Vinylidene Chloride	a																							
Xylene	a											2.85E-04	2.87E-03	3.62E-04	7.18E-04	2.85E-04	5.59E-04	7.04E-05	1.40E-04					
Zinc		2.90E-02	2.84E-05	1.42E-02	1.79E-03	1.87E-02	2.90E-02	2.77E-05	1.33E-03	1.68E-04	1.33E-03									2.90E-02	2.84E-05	2.55E-04	3.21E-05	1.12E-03

Notes:

a	indicates compound is one of U.S. EPA's list of 188 HAPs.
b	indicates compound is subset of POM or PAH (PAH is a subset of POM)
c	compound is listed on U.S. EPA's list of 188 HAPs and is subset of POM or PAH.

(1) Emissions based on AP-42 5th Edition, Tables 1.4-2, 1.4-3, and 1.4-4 (7/1998) Natural Gas Combustion and Tables 1.3-8, 1.3-9 and 1.3-10 (9/1998) Fuel Oil Combustion.

(2) Emissions based on AP-42 5th Edition, Table 3.3-2 (October 1996).

(3) Sulfuric acid emissions from the auxiliary boiler and gas heater based on a mass balance assuming 35% of sulfur converts to H_2SO_4

Appendix B: Table B-14
CPV Valley Energy Center
Facility-Wide Potential CO2 Emissions

Source(s)	Natural Gas Only							Natural Gas + Oil - With Duct Burning						
	Fuel	Hours/yr (2 units)	MMBtu/hr (1 unit)	MW-hr (2 units)	Factor (lb/MMBtu)	Factor (lb/MW-hr)	CO_2 (tons)	Fuel	Hours (2 units)	MMBtu/hr (1 unit)	MW-hr (2 units)	Factor (lb/MMBtu)	Factor (lb/MW-hr)	CO_2 (tons)
2 CTGs	Gas	17,520	1,998	649	110	677	1,925,676	Gas	16,080	1,998	649	110	677	1,767,401
2 CTGs	Oil	0	0	636	157	0	0	Oil	1,440	2,145	636	157	1,060	242,510
2 DBs	Gas	5256	500	649	117.6	181	154,526	Gas	5256	500	649	117.6	181	154,526
Total CCs	(/year)	17,520	37,649,283	5,687,684	**111**	**731**	2,080,202	(/year)	17,520	37,851,865	5,677,831	**114**	**702**	2,164,438

Source(s)	Natural Gas + Oil - No Duct Burning							Maximum Annual CO_2 (tons)
	Fuel	Hours (2 units)	MMBtu/hr (1 unit)	MW-hr (2 units)	Factor (lb/MMBtu)	Factor (lb/MW-hr)	CO_2 (tons)	
2 CTGs	Gas	16,080	1,998	649	110	677	1,767,401	
2 CTGs	Oil	1,440	2,145	636	157	1,060	242,510	
2 DBs	Gas	0	0	649	117.6	0	0	
Total CCs	(/year)	17,520	35,223,865	5,677,831	**114**	**708**	2,009,911	2,164,438

	MATS Rule
MMBtu/yr (2 units)	Portion of Total
16387,028	79.14%
3,089,304	**14.92%**
1,230,000	5.94%
20,706,332	

MMBtu/yr (2 units)	Portion of Total
17,546,110	85.08%
3,089,304	**14.97%**
0	0.00%
20,635,414	

Source	Fuel	Hours/yr	MMBtu/hr		Factor (lb/MMBtu)		CO_2 (tons)		
Aux Boiler	Gas	2,000	48.1		117.6		5657		5,657
2 Gas Heaters	Gas	8,760	9.0		117.6		4615		4,615

Source	Fuel	Hours/yr	MMBtu/hr		Factor (lb/MMBtu)		CO_2 (tons)		
EG	Oil	500	10.08		164		413		413
FWP	Oil	500	1.96		164		80		80

Total PTE	2,175,203

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 4

Current Air State Permit to Operate

(no changes to permit conditions as they are migrated to the Title V)

New York State Department of Environmental Conservation
Facility DEC ID: 3335600136

CPV Valley Energy Center
- Original Permit
- No changes requested with this submission for the Title V Application.

Permit Type: Air State Facility
Permit ID: 3-3356-00136/00001
Effective Date: 06/04/2013 Expiration Date: 05/31/2018

Permit Issued To: COMPETITIVE POWER VENTURES INC
50 BRAINTREE HILL OFFICE PARK
SUITE 300
BRAINTREE, MA 02184

Contact: STEVE REMILLARD
CPV VALLEY LLC
35 BRAINTREE HILL OFFICE PARK, STE 400
BRAINTREE, MA 02184
(781) 817-8970

Facility: CPV VALLEY ENERGY CENTER
US RTE 6 , RTE 17 AND INTERSTATE 84
MIDDLETOWN, NY

Description:
pre-construction permit

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: CHRISTOPHER M HOGAN
625 BROADWAY
ALBANY, NY 12233

Authorized Signature: _____ Date: ___ / ___ / _____

Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

Facility Inspection by the Department.
Facility Inspection by the Department.
Facility Inspection by the Department.
Relationship of this Permit to Other Department Orders and Determinations
Relationship of this Permit to Other Department Orders and Determinations
Relationship of this Permit to Other Department Orders and Determinations
Applications for permit renewals, modifications and transfers
Applications for permit renewals, modifications and transfers
Applications for permit renewals, modifications and transfers
Permit modifications, suspensions or revocations by the Department
Permit modifications, suspensions or revocations by the Department
Permit modifications, suspensions or revocations by the Department

Facility Level

Submission of application for permit modification or renewal REGION 3 HEADQUARTERS

DEC GENERAL CONDITIONS
**** General Provisions ****
GENERAL CONDITIONS - Apply to ALL Authorized Permits:

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:
The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:
The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:
A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of the permit.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:
The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:
The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:
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Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

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The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit

S.(P.A 401(3).

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The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:
A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of the permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:
Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:
Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:
Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:
The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:
The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:
Permits are transferrable with the approval of the department unless specifically prohibited by

submitted prior to actual transfer of ownership.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:
The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:
The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:
Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:
The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:
The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:
Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:
The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

a) material false or inaccurate statements in the permit application or supporting papers;
b) failure by the permittee to comply with any terms or conditions of the permit;
c) exceeding the scope of the project as described in the permit application;
d) newly discovered material information or a material change in environmental conditions,

e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:
The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

a) material false or inaccurate statements in the permit application or supporting papers;
b) failure by the permittee to comply with any terms or conditions of the permit;
c) exceeding the scope of the project as described in the permit application;
d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:
The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

a) material false or inaccurate statements in the permit application or supporting papers;
b) failure by the permittee to comply with any terms or conditions of the permit;
c) exceeding the scope of the project as described in the permit application;
d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal-REGION 5 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:
Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 3 Headquarters

Division of Environmental Permits
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3054

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: COMPETITIVE POWER VENTURES INC
50 BRAINTREE HILL OFFICE PARK
SUITE 300
BRAINTREE, MA 02184

Facility: CPV VALLEY ENERGY CENTER
US RTE 6 , RTE 17 AND INTERSTATE 84
MIDDLETOWN, NY

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES

Permit Effective Date: 08/01/2013 Permit Expiration Date: 07/31/2018

LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS
Facility Level

1 6 NYCRR 200.7: Maintenance of Equipment
2 6 NYCRR 202-1.1: Required Emissions Tests
3 6 NYCRR 200.7: Compliance Demonstration
4 6 NYCRR 200.7: Compliance Demonstration
5 6 NYCRR 201-1.4 (a): Compliance Demonstration
6 6 NYCRR 201-6.3 (a) (2): Title V Permit Requirement
7 6 NYCRR Subpart 201-7: Facility Permissible Emissions
*8 6 NYCRR Subpart 201-7: Capping Monitoring Condition
9 6 NYCRR 211.1: Air pollution prohibited
10 6 NYCRR 231-5.3: Facility PTE
11 6 NYCRR 231-5.4: Compliance Demonstration
12 6 NYCRR 231-5.4: Compliance Demonstration
13 6 NYCRR 231-5.4: Compliance Demonstration
14 6 NYCRR 231-5.4: Compliance Demonstration
15 6 NYCRR 231-5.5: Emission offset
16 6 NYCRR 231-5.5: Emission offsets
17 6 NYCRR 231-5.5: offsets
18 6 NYCRR 231-7.5: Facility potential to emit
19 6 NYCRR 231-7.6: Compliance Demonstration
20 6 NYCRR 231-7.6: Compliance Demonstration
21 6 NYCRR 231-7.6: Compliance Demonstration
22 6 NYCRR 231-7.6: Compliance Demonstration
23 6 NYCRR 231-7.6: Compliance Demonstration
24 6 NYCRR 231-7.6: Compliance Demonstration
25 6 NYCRR 231-7.6: Compliance Demonstration
26 6 NYCRR 231-7.6: Compliance Demonstration
27 6 NYCRR 231-7.6: Compliance Demonstration
28 6 NYCRR 231-7.6: Compliance Demonstration
29 6 NYCRR 231-7.6: Compliance Demonstration
30 6 NYCRR 231-7.6: Compliance Demonstration
31 6 NYCRR 243-1.6 (a): Permit Requirements
32 6 NYCRR 243-1.6 (b): Monitoring requirements
33 6 NYCRR 243-1.6 (c): NOx Ozone Season Emission Requirements
34 6 NYCRR 243-1.6 (d): Excess emission requirements
35 6 NYCRR 243-1.6 (e): Recordkeeping and reporting requirements
36 6 NYCRR 243-2.1: Authorization and responsibilities of CAIR designated representative
37 6 NYCRR 243-2.4: Certificate of representation
38 6 NYCRR 243-8.1: General requirements
39 6 NYCRR 243-8.1: Prohibitions
40 6 NYCRR 243-8.5 (d): Quarterly reports
41 6 NYCRR 243-8.5 (e): Compliance certification
42 6 NYCRR Subpart 244-1: CAIR NOx Annual Trading Program General Conditions
43 6 NYCRR Subpart 244-2: Designated CAIR Representative
44 6 NYCRR Subpart 244-8: Compliance Demonstration

45 6 NYCRR Subpart 245-1: CAIR SO2 Trading Program General Provisions
46 6 NYCRR Subpart 245-2: Designated CAIR Representative
47 6 NYCRR Subpart 245-8: Compliance Demonstration
48 40CFR 60.4, NSPS Subpart A: EPA Region 2 address
49 40CFR 60.7(a), NSPS Subpart A: Date of construction notification - If a COM is not used.
50 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements
51 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources
52 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline
53 40CFR 60.8(b), NSPS Subpart A: Performance test methods
54 40CFR 60.8(d), NSPS Subpart A: Prior notice
55 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities
56 40CFR 60.8(f), NSPS Subpart A: Number of required tests
57 40CFR 60 NSPS Subpart IIII: Applicability
58 40CFR 60.4335 NSPS Subpart KKKK: Compliance Demonstration
59 40CFR 60.4375(a) NSPS Subpart KKKK: Compliance Demonstration
60 40 CFR Part 72: Facility Subject to Title IV Acid Rain Regulations and Permitting

Emission Unit Level

61 6 NYCRR 227-1.3 (a): Compliance Demonstration
62 6 NYCRR 227-1.3 (a): Compliance Demonstration

EU=U-00003

63 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Demonstration
64 40CFR 60.46c(d), NSPS Subpart Dc: Compliance Demonstration

EU=U-00003,Proc=P3B

65 6 NYCRR 231-5.4: Compliance Demonstration
66 6 NYCRR 231-5.4: Compliance Demonstration
67 6 NYCRR 231-5.4: Compliance Demonstration
68 6 NYCRR 231-7.6: Compliance Demonstration
69 6 NYCRR 231-7.6: Compliance Demonstration
70 6 NYCRR 231-7.6: Compliance Demonstration
71 6 NYCRR 231-7.6: Compliance Demonstration

EU=U-00003,Proc=P3B,ES=AUX01

72 40CFR 60.46c(g)(2) NSPS Subpart Dc: Alternative recordkeeping

EU=U-00004,Proc=P04

73 6 NYCRR 231-5.4: Compliance Demonstration
74 6 NYCRR 231-5.4: Compliance Demonstration
75 6 NYCRR 231-7.6: Compliance Demonstration
76 6 NYCRR 231-7.6: Compliance Demonstration
77 6 NYCRR 231-7.6: Compliance Demonstration
78 6 NYCRR 231-7.6: Compliance Demonstration

EU=U-00005,Proc=P05

79 6 NYCRR 231-5.4: Compliance Demonstration
80 6 NYCRR 231-5.4: Compliance Demonstration
81 6 NYCRR 231-7.6: Compliance Demonstration
82 6 NYCRR 231-7.6: Compliance Demonstration
83 6 NYCRR 231-7.6: Compliance Demonstration

84 6 NYCRR 231-7.6: Compliance Demonstration

EU=U-00006,Proc=P06

85 6 NYCRR 231-5.4: Compliance Demonstration
86 6 NYCRR 231-5.4: Compliance Demonstration
87 6 NYCRR 231-7.6: Compliance Demonstration
88 6 NYCRR 231-7.6: Compliance Demonstration
89 6 NYCRR 231-7.6: Compliance Demonstration
90 6 NYCRR 231-7.6: Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

91 ECL 19-0301: Contaminant List
92 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
93 6 NYCRR Subpart 201-5: Emission Unit Definition
94 6 NYCRR 211.2: Visible Emissions Limited
95 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements
96 6 NYCRR 242-1.5: Compliance Demonstration
97 6 NYCRR 242-1.5: Compliance Demonstration

Emission Unit Level

98 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
99 6 NYCRR Subpart 201-5: Process Definition By Emission Unit
100 6 NYCRR 251-3.1(a): Compliance Demonstration

NOTE * preceding the condition number indicates capping.

FEDERALLY ENFORCEABLE CONDITIONS
**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,

required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6 NYCRR 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item F: **Recycling and Salvage - 6 NYCRR 201-1.7**

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: **Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8**

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item H: **Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)**

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: **Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)**

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item J: **Required Emission Tests - 6 NYCRR 202-1.1**

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item K: **Open Fires Prohibitions - 6 NYCRR 215.2**
Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item L: **Permit Exclusion - ECL 19-0305**
The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item M: **Federally Enforceable Requirements - 40 CFR 70.6 (b)**
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: **Maintenance of Equipment**

Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 200.7

Item 1.1:
Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

Condition 2: Required Emissions Tests
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 202-1.1

Item 2.1:
For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time

Condition 3: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 200.7

Item 3.1:
The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 3.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
Monitoring Description:
The facility will maintain records to verify concentration of ammonia stored on site is less than 19%.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: AMMONIA
Parameter Monitored: CONCENTRATION
Upper Permit Limit: 19 percent
Reference Test Method: EPA Approved
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.
Subsequent reports are due every 12 calendar month(s).

Condition 4: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 200.7

Item 4.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001 Emission Point: EP001

Emission Unit: U-00002 Emission Point: EP002

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 4.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
The facility shall install, calibrate, maintain and operate continuous emissions monitors for ammonia. The 5.0 ppmvd corrected to 15% Oxygen limit applies during all turbine loads, all fuels being fired and all duct burner operations.

Manufacturer Name/Model Number: Ammonia Analyzer
Parameter Monitored: AMMONIA
Upper Permit Limit: 5.0 parts per million by volume (dry, corrected to 15% O2)
Reference Test Method: 40 CFR 60 Appendices B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

Condition 5: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 201-1.4 (a)

Item 5.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 5.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owner or operator shall: within one year following the commencement of operation, submit a Title V permit application to the Department as per the requirements of paragraph 201-6.3(a)(2). This application must include start-up, shutdown, and fuel switching data to establish enforceable combustion turbine start-up, shutdown, and fuel switching emission rates for NOx, CO, and NH3, and confirm that such established rates would not result in a violation of applicable NAAQS.

In the event that a minimum of 15 start-ups and 15 shutdowns, while firing distillate oil, does not occur within the one year period defined above, the owner or operator will be required to submit start-up and shutdown data, with an application for permit modification, once the 15 start-ups and shutdowns while firing distillate oil occur.

Also, if a minimum of 15 fuel switches does not occur within the one year period defined above, the owner or operator will be required to submit fuel switching data with an application for permit modification once the 15 fuel switches occur.

Monitoring Frequency: CONTINUOUS
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 6: Title V Permit Requirement
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 201-6.3 (a) (2)

Item 6.1:
A Title V permit application must be submitted to the Department within one year of commencement of operation of this facility.

Condition 7: Facility Permissible Emissions
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 7.1:
The sum of emissions from the emission units specified in this permit shall not equal or exceed the following
Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY075-02-5 PTE: 190,000 pounds per year
Name: PM 2.5

Condition 8: **Capping Monitoring Condition**
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 8.1:
Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR 231-2.2

Item 8.2:
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 8.3:
The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 8.4:
On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 8.5:
The emission of pollutants that exceed the applicability thresholds for an applicable requirement for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 8.6:
The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY025-02-5 PM-2.5

Item 8.7:
Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
Monitoring Description:
Monthly facility-wide emissions of PM-2.5 will be

calculated as the sum of monthly PM-2.5 emissions from individual emission units or source groups. Emissions will be calculated based on heat input (or, equivalently, from fuel use) and emission factors as described below. Annual facility-wide emissions will then be determined at the end of each month on a rolling 12-month basis in order to demonstrate compliance with the 95 ton per year cap.

The source groups included in the emissions cap along with their associated source indices and PM-2.5 emission factors, as used in subsequent equations, are listed in the following. For each source group, the parameter that will be monitored and the monitoring frequency. Continuous monitoring of heat input to the combustion turbines, auxiliary boiler and gas heater(s) will be provided by a digital data acquisition system (DAS).

Unit	Op Load	Fuel	Grp	Emission Factor
CT only	> 80%	Gas	1	0.0056
CT only	< 80%	Gas	2	0.0073
CT + DB	> 80%	Gas	3	0.0064
CT only	> 85%	Oil	4	0.0247
CT only	< 85%	Oil	5	0.0366
Aux Boiler	All	Gas	6	0.0003
Gas Heater	All	Gas	7	0.0076
EDG	All	Oil	8	0.0691
EFP	All	Oil	9	0.0400

Where: CT = combustion turbines, DB = duct burners, Aux Boiler = auxiliary boiler, EDG = emergency diesel generator and EFP = emergency fire pump.

For the combustion turbines, the proposed emission factors represent the maximum PM-2.5 emission factor over the specified normal operating loads for the associated fuel and category. In lieu of using the maximum PM-2.5 emission factors, the owner or operator may elect to use representative PM-2.5 stack test data to determine compliance with the annual PM-2.5 emissions cap.

For each source group (i), the PM-2.5 emissions in tons (Qij) for month j will be calculated as follows:
Qij = EFi x Hij / 2000, where:

- EFi = PM-2.5 emission factor or representative PM-2.5 stack test data (lb/mmBtu) for source group i
- Hij = monthly heat input (mmBtu) for source group i in

month j

In cases where fuel use (gallons of oil or standard cubic feet of gas) for a source group is monitored directly rather than heat input, the equivalent heat input will be determined by multiplying the monthly fuel usage for the source group by the corresponding fuel heating value (mmBtu/gallon or mmBtu/scf), using the higher heating value (HHV) basis for the fuel.

The total facility PM-2.5 emissions in month j (Qj) will be calculated by summing over all source groups (i = 1 to 9) as follows: $Qj = \sum EFi \times Hij / 2000 = \sum Qij$.

The facility-wide PM-2.5 emissions over the past 12 months (Qmm) ending in month j will be determined by summing the facility-wide PM-2.5 emissions for the most recent 12 months (k = 0 to 11) as follows:

$Qmm = \sum Qj-k$

After each month, compliance will be demonstrated with the proposed 95 ton/year PM-2.5 emission limit by showing that Qmm < 95.

The facility shall conduct periodic testing to demonstrate that emissions from the combustion turbines comply with the lb/mmBtu emission factors for PM-2.5. The combustion turbines will be tested once per year for the first two years of operation with the first test to be conducted within 180 days of startup.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: FUEL
Parameter Monitored: HEAT INPUT
Upper Permit Limit: 95 tons per year
Monitoring Frequency: CONTINUOUS
Averaging Method: 12-month total, rolled monthly
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2014.
Subsequent reports are due every 12 calendar month(s).

Condition 9: Air pollution prohibited
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 211.1

Item 9.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 10: Facility PTE
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.3

Item 10.1:
CPV Valley Energy Center
Facility Wide Potential to Emit

VOC 65 tons/yr
NOx 186.8 tons/yr

Condition 11: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 11.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001 Emission Point: EP001
Process: P1A

Emission Unit: U-00001 Emission Point: EP001
Process: P2A

Emission Unit: U-00002 Emission Point: EP002
Process: P01

Emission Unit: U-00002 Emission Point: EP002
Process: P02

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 11.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
LAER is 2.0 ppmvd corrected to 15% Oxygen. Will be achieved through use of Dry Low NOx combustion technology

and SCR.

The facility shall install, calibrate, maintain and operate a continuous emission monitor.

The limit applies at all loads except during start up and shutdown

Manufacturer Name/Model Number: CEM
Upper Permit Limit: 2.0 parts per million by volume
(dry, corrected to 15% O2)
Reference Test Method: 40 CFR Part 60 Appendix and Method 7E
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

Condition 12: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 12.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001 Emission Point: EP001
Process: P2A

Emission Unit: U-00002 Emission Point: EP002
Process: P02

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 12.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 1.8 ppmvd corrected to 15% O2. Will be achieved using good combustion controls and an oxidation catalyst. Emission testing to be performed within 180 days of startup.

Manufacturer Name/Model Number: CEM
Parameter Monitored: CONCENTRATION
Upper Permit Limit: 1.8 parts per million by volume
(dry, corrected to 15% O2)
Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 13: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 13.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001 Emission Point: EP001
Process: P3A

Emission Unit: U-00002 Emission Point: EP002
Process: P03

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 13.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
LAER is 6.0 ppmvd corrected to 15% Oxygen. Will be achieved using water injection and SCR.

The facility shall install, calibrate, maintain and operate a continuous emission monitor.

The limit applies at all loads except during start up and shutdown.

Manufacturer Name/Model Number: CEM
Upper Permit Limit: 6.0 parts per million by volume (dry, corrected to 15% O2)
Reference Test Method: 40 CFR, Part 60 Appendix and Method 7E
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

Condition 14: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 14.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001 Emission Point: EP001
Process: P1A

Emission Unit: U-00001 Emission Point: EP001
Process: P3A

Emission Unit: U-00002 Emission Point: EP002
Process: P01

Emission Unit: U-00007 Emission Point: EP007
Process: P07

Regulated Contaminant(s)
CAS No: 0NY998-00-0 VOC

Item 14.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 0.7 ppmvd corrected to 15% O2. Will be achieved using good combustion controls and an oxidation catalyst. Emission testing to be performed within 180 days of startup.

Manufacturer Name/Model Number: CEM
Parameter Monitored: CONCENTRATION
Upper Permit Limit: 0.7 parts per million by volume (dry, corrected to 15% O2)
Reference Test Method: Method 25A
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1 HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 15: Emission offset
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.5

Item 15.1: The potential to emit Oxides of Nitrogen (NOX) from the facility has been limited to 187 tons per year. NOx emissions must be offset at a ratio of 1.15 to 1. A total of 216 tons of offsets will be required. The facility will identify the sources of offsets at a later time but prior to construction. There will be a separate noticing at that time.

Condition 16: Emission offsets
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-5.5

Item 16.1: The potential to emit Volatile Organic Compounds (VOC) from the facility has been limited to 65 tons per year. VOC emissions must be offset at a ratio of 1.15 to 1. A total of 75 tons of offsets will be required. The facility will identify the sources of offsets at a later time but prior to construction. There will be a separate modeling at that time.

Condition 17: offsets.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-5.5

INVALID FORMAT OF CONDITION IN LIBRARY

Condition 18: Facility potential to emit
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 18.1:
CPV Valley Energy Center
Facility Wide Potential to Emit

CO 344 tons/yr
SO2 42 Tons/yr
PM-2.5 95 tons/yr
H2SO4 15 tons/yr
CO2 2,164,456 tons/yr

Condition 19: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 19.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit U-00001

Emission Unit U-00002

Item 19.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
The combined cycle units shall have a heat rate of 7605 Btu/kW-hr

(HHV) or less at ISO conditions without duct burner firing to achieve
a design thermal efficiency of 57.4% (LHV).

Within 90 days of start up of the facility and on an annual basis
thereafter the owner or operator shall conduct a Department-approved
heat rate performance test on a combined cycle unit while it is
operating at maximum load to determine heat rate.

The owner or operator shall conduct this heat rate performance test
according to the requirements of the American Society of Mechanical
Engineers Performance Test Code on Overall Plant Performance, ASME PTC
46-1996.

Parameter Monitored: HEAT RATE
Upper Permit Limit: 7605 BTU per kilowatt-hour
Reference Test Method: ASME PTC 46-1996
Monitoring Frequency: ANNUALLY
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE
SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2014
Subsequent reports are due every 6 calendar month(s).

Condition 20: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 20.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

Emission Unit: U-00004

Emission Unit: U-00005

Emission Unit: U-00006

Item 20.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
The owner or operators of the facility shall calculate the annual emissions (based on a monthly rolling average) of Carbon Dioxide equivalent (CO2e) emitted from the facility.

The Emissions factors will be based on either performance tests (as required by the permit) or developed emission factors from authorized sources) i.e. - AP-42). Fuel usage shall be monitored by fuel flow meters. The information will be kept on-site and available for review for a minimum of five years.

The facility will maintain records on-site for a minimum of five years.

Reference Test Method: As Described in condition
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period
The annual report is due 1/30/2014
Subsequent reports are due every 6 calendar month(s).

Condition 21: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 21.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Item 21.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The facility shall install, calibrate, maintain, and operate a
continuous emission monitor for the total annual Carbon Dioxide
equivalent (CO2e) emissions from the two combined cycle units.
The facility shall maintain records on-site for a minimum of five
years.

Reference Test Method: 3A
Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2014.
Subsequent reports are due every 6 calendar month(s).

Condition 22: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 22.1:
The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 22.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
Monitoring Description:
BACT FUEL SULFUR LIMIT OF 0.0015% BY WEIGHT.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: FUEL OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Reference Test Method: ASTM D-2880-71
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

Condition 23: Compliance Demonstration

Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 23.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: P1A

Emission Unit: U-00001
Process: P2A

Emission Unit: U-00002
Process: P01

Emission Unit: U-00002
Process: P02

Regulated Contaminant(s)
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 23.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0022 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0022 pounds per million Btus
Reference Test Method: EPA Approved
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE - BATCH OF MONITORING OCCURRENCE

Condition 24: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 24.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: P1A

Emission Unit: U-00001

Process: P2A

Emission Unit: U-00002
Process: P01

Emission Unit: U-00002
Process: P02

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 24.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0007 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup

Upper Permit Limit: 0.0007 pounds per million Btu
Reference Test Method: EPA Approved
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 25: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 25.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: P3A

Emission Unit: U-00002
Process: P03

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 25.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0005 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within

180 days of startup.

Upper Permit Limit: 0.0005 pounds per million Btus
Reference Test Method: EPA Approved
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 26: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 26.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: P3a

Emission Unit: U-00002
Process: P3G

Regulated Contaminant(s)
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 26.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT = 0.0015 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0015 pounds per million Btus
Reference Test Method: EPA Approved
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 27: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 27.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: P3A

Emission Unit: U-00002
Process: P03

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 27.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0368 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup

Upper Permit Limit: 0.0368 pounds per million Btu
Reference Test Method: Methods 201/201A and 202
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 28: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 28.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: P2A

Emission Unit: U-00002
Process: P02

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 28.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
BACT is 3.4 ppmvd corrected to 15% Oxygen. Will be achieved through good combustion controls and an oxidation catalyst.

The facility shall install, calibrate, maintain and operate a continuous emission monitor.

The limit applies at all loads except during start up and shutdown.

Manufacturer Name/Model Number: CO analyzer
Parameter Monitored: CONCENTRATION
Upper Permit Limit: 3.4 parts per million by volume (dry, corrected to 15% O2)
Reference Test Method: Method 10
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

Condition 29: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 29.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: P1A

Emission Unit: U-00001
Process: P2A

Emission Unit: U-00003
Process: P01

Emission Unit: U-00002
Process: P02

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 29.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0073 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0073 pounds per million Btus
Reference Test Method: Methods 201/201A and 202
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE - BATCH OR MONITORING OCCURRENCE

Condition 30: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 30.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: P15

Emission Unit: U-00001
Process: P35

Emission Unit: U-00002
Process: B01

Emission Unit: U-00002
Process: P03

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 30.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
BACT is 2.0 ppmvd corrected to 15% Oxygen. Will be achieved through good combustion controls and an oxidation catalyst.

The facility shall install, calibrate, maintain, and operate a continuous emission monitor.

The limit applies at all loads except during start up and shutdown.

Manufacturer Name/Model Number: CO analyzer
Parameter Monitored: CONCENTRATION
Upper Permit Limit: 2.0 parts per million by volume
(dry, corrected to 15% O2)
Reference Test Method: Method 10

Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

Condition 31: Permit Requirements
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-1.6 (a)

Item 31.1:
The CAIR designated representative of each CAIR NOx Ozone Season source shall:
(i) submit to the department a complete CAIR permit application under section 243-3.3 in accordance with the deadlines specified in section 243-3.2; and
(ii) submit in a timely manner any supplemental information that the department determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

The owners and operators of each CAIR NOx Ozone Season source shall have a CAIR permit issued by the department under Subpart 243-3 for the source and operate the source and the unit in compliance with such CAIR permit.

Condition 32: Monitoring requirements
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-1.6 (b)

Item 32.1:
The emissions measurements recorded and reported in accordance with Subpart 243-8 shall be used to determine compliance by each CAIR NOx Ozone Season source with the CAIR NOx Ozone Season emissions limitation under subdivision (c) of this section.

Condition 33: NOx Ozone Season Emission Requirements
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-1.6 (c)

Item 33.1:
As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NOx Ozone Season allowances available for compliance deductions for the control period under section 243-6.5(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOx Ozone Season units at the source, as determined in accordance with Subpart 243-8. The CAIR NOx ozone season is the period beginning May 1 of a calendar year, except as provided in section 243-1.6(c)(2), and ending on September 30 of the same year, inclusive.

A CAIR NOx Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under sections 243-8.1(b)(1), (2), (3), or (7) and for

each control period thereafter.

A CAIR NOx Ozone Season allowance shall not be deducted for compliance with the requirements under paragraph (c)(1) of this section for a control period in a calendar year before the year for which the CAIR NOx Ozone Season allowance was allocated.

CAIR NOx Ozone Season allowances shall be held in, deducted from or transferred into or among CAIR NOx Ozone Season Allowance Tracking System accounts in accordance with Subparts 243-6, 243-7, and 243-9.

A CAIR NOx Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Ozone Season Trading Program. No provision of the CAIR NOx Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under section 243-1.5 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

A CAIR NOx Ozone Season allowance does not constitute a property right.

Upon recordation by the Administrator under Subpart 243-6, 243-7, or 243-9, every allocation, transfer, or deduction of a CAIR NOx Ozone Season allowance to or from a CAIR NOx Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

Condition 34: Excess emission requirements
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 243-1.6 (d)

Item 34.1:
If a CAIR NOx Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NOx Ozone Season emissions limitation, then:

(1) the owners and operators of the source and each CAIR NOx Ozone Season unit at the source shall surrender the CAIR NOx Ozone Season allowances required for deduction under section 243-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law; and

(2) each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart, the Act, and applicable State law.

Condition 35: Recordkeeping and reporting requirements
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 243-1.6 (e)

Item 35.1:
Unless otherwise provided, the owners and operators of the CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator.

(i) The certificate of representation under section 243-2.4 for the CAIR designated representative for the source and each CAIR NOx Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under section 243-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with Subpart 243-8, provided that to the extent that Subpart 243-8 provides for a three-year period for recordkeeping, the three-year period shall apply.

(iii) Copies of all reports, compliance certifications and other submissions and all records made or required under the CAIR NOx Ozone Season Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Ozone Season Trading Program.

Condition 36: Authorization and responsibilities of CAIR designated representative
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-2.1

Item 36.1:
Except as provided under section 243-2.2, each CAIR NOx Ozone Season source, including all CAIR NOx Ozone Season units at the source, shall have one and only one CAIR designated representative, with regard to all matters under the CAIR NOx Ozone Season Trading Program concerning the source or any CAIR NOx Ozone Season unit at the source.

The CAIR designated representative of the CAIR NOx Ozone Season source shall be selected by an agreement binding on the owners and operators of the source and all CAIR NOx Ozone Season units at the source and shall act in accordance with the certification statement in section 243-2.4(a)(4)(iv).

Upon receipt by the Administrator of a complete certificate of representation under section 243-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR NOx Ozone Season source represented and each CAIR NOx Ozone Season unit at the source in all matters pertaining to the CAIR NOx Ozone Season Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator or a court regarding the source or unit.

No CAIR permit will be issued, no emissions data reports will be accepted, and no CAIR NOx Ozone Season Allowance Tracking System account will be established for a CAIR NOx Ozone Season unit at a source, until the Administrator has received a complete certificate of representation under section 243-2.4 for a CAIR designated representative of the source and the CAIR NOx Ozone Season units at the source.

Each submission under the CAIR NOx Ozone Season Trading Program shall be submitted,

signed, and certified by the CAIR designated representative for each CAIR NOx Ozone Season source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. 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. Based on my inquiry of those individuals with primary responsibility for obtaining the 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."

Condition 37: Certificate of representation
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-2.4

Item 37.1:
Unless otherwise required by the department or the Administrator, documents of agreement referred to in the certificate of representation shall not be submitted to the department or the Administrator. Neither the department nor the Administrator shall be under any obligation to review or evaluate the sufficiency of such documents, if submitted.

Condition 38: General requirements
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-8.1

Item 38.1:
The owners and operators, and to the extent applicable, the CAIR designated representative, of a CAIR NOx Ozone Season unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this Subpart and in Subpart H of 40 CFR Part 75. For purposes of complying with such requirements, the definitions in section 243-1.2 and in 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR NOx Ozone Season unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 243-1.3. The owner or operator of a unit that is not a CAIR NOx Ozone Season unit but that is monitored under 40 CFR 75.72(b)(2)(ii) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR NOx Ozone Season unit.

'Requirements for installation, certification, and data accounting.' The owner or operator of each CAIR NOx Ozone Season unit shall:

(1) install all monitoring systems required under this Subpart for monitoring NOx mass emissions and individual unit heat input (including all systems required to monitor NOx emission rate, NOx concentration, stack gas moisture content, stack gas flow rate, CO2 or O2 concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.71 and 40 CFR 75.72);

(2) successfully complete all certification tests required under section 243-8.2 and meet all other requirements of this Subpart and 40 CFR Part 75 applicable to the monitoring systems under

paragraph (g)(1) of this section; and

(3) record, report, and quality assure the data from the monitoring systems under paragraph (e)(4) of this section.

Condition 39: Prohibitions
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-8.1

Item 39.1:
No owner or operator of a CAIR NOx Ozone Season unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this Subpart without having obtained prior written approval in accordance with section 243-8.6.

No owner or operator of a CAIR NOx Ozone Season unit shall operate the unit so as to discharge, or allow to be discharged, NOx emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of this Subpart and 40 CFR Part 75.

No owner or operator of a CAIR NOx Ozone Season unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NOx mass emissions discharged into the atmosphere or heat input, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this Subpart and 40 CFR Part 75.

No owner or operator of a CAIR NOx Ozone Season unit shall retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved monitoring system under this Subpart, except under any one of the following circumstances:
(1) during the period that the unit is covered by an exemption under section 243-1.5 that is in effect;
(2) the owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of this Subpart and 40 CFR Part 75, by the department for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or
(3) the CAIR designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with section 243-8.2(d)(3)(i).

Condition 40: Quarterly reports
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-8.5 (d)

Item 40.1:
The CAIR designated representative shall submit quarterly reports, as follows:

If the CAIR NOx Ozone Season unit is subject to an Acid Rain emissions limitation or a CAIR NOx emissions limitation or if the owner or operator of such unit chooses to report on an annual basis under this Subpart, the CAIR designated representative shall meet the requirements of

Subpart H of 40 CFR Part 75 (concerning monitoring of NOx mass emissions) for such unit for the entire year and shall report the NOx mass emissions data and heat input data for such unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with:

(a) for a unit that commences commercial operation before July 1, 2007, the calendar quarter covering May 1, 2008 through June 30, 2008;

(b) for a unit that commences commercial operation on or after July 1, 2007, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 245-8.1(b), unless that quarter is the third or fourth quarter of 2007 or the first quarter of 2008, in which case reporting shall commence in the quarter covering May 1, 2008 through June 30, 2008.

The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

For CAIR NOx Ozone Season units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the NOx mass emission data, heat input data, and other information required by this Subpart.

Condition 41: Compliance certification
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 243-8.5 (e)

Item 41.1:
The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(1) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications;

(2) for a unit with add-on NOx emission controls and for all hours where NOx data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NOx emissions; and

(3) for a unit that is reporting on a control period basis under subparagraph (d)(2)(ii) of this section, the NOx emission rate and NOx concentration values substituted for missing data under Subpart D of 40 CFR Part 75 are calculated using only values from a control period and do not systematically underestimate NOx emissions.

Condition 42: CAIR NOx Annual Trading Program General Conditions

Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR Subpart 244-1

Item 42.1:
1) As of midnight of March 1, or midnight of the first business day thereafter if March 1 is not a business day, the owners and operators shall hold, in their compliance account, Clean Air Interstate Rule (CAIR) NOx allowances available for compliance deductions for the previous control period (January 1 through December 31), in an amount not less than the total tons of nitrogen oxides emissions from all CAIR NOx units at the source during that control period. A CAIR NOx allowance shall not be deducted for a control period in a calendar year before the year for which the CAIR NOx allowance was allocated. [244-1.6(c)(1), 244-1.2(b)(5), 244-1.2(b)(36), 244-1.6(c)(3)]

2) The owners and operators shall hold in their compliance account, CAIR NOx allowances available for compliance deductions for the control period starting on the later of January 1, 2009 or the deadline for meeting a CAIR NOx unit's monitor certification requirements under section 244-8.1(b)(1), (2), or (5) and for each control period thereafter. [244-1.6(c)(2)]

3) If a CAIR NOx source emits nitrogen oxides during any control period in excess of the CAIR NOx emissions limitation, the owners and operators of the CAIR NOx source shall surrender the CAIR NOx allowances required for deduction under 6NYCRR Part 244-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this permit, the Act, and applicable State law. [(244-1.6(d)]

4) Unless otherwise provided, the owners and operators of the CAIR NOx source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator: [244-1.6(e)]
(i) The certificate of representation under 6NYCRR Part 244-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 244-2.4 changing the CAIR designated representative.
(ii) All emissions monitoring information, in accordance with 6NYCRR Part 244-8, provided that to the extent that 6NYCRR Part 244-8 provides for a three year period for recordkeeping, the three year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOx Annual Trading Program.
(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Annual Trading Program.

Condition 43: Designated CAIR Representative
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR Subpart 244-2

Item 43.1:

(1) Each Clean Air Interstate Rule (CAIR) NOx source shall have one CAIR designated representative and may have one alternate representative, as per 6NYCRR Part 244-2.2, with regard to all matters under the CAIR NOx Annual Trading Program. The CAIR designated representative shall be selected by an agreement binding on the owners and operators of the source and act in accordance with the certification statement in 6NYCRR Part 244-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part 244-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR NOx source represented in all matters pertaining to the CAIR NOx Annual Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source. [244-2.1(a), (b) & (e)]

(2) Each submission under the CAIR NOx Annual Trading Program shall be submitted, signed, and certified by the CAIR designated representative for each CAIR NOx source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. 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. Based on my inquiry of those individuals with primary responsibility for obtaining the 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." [244-2.1(e)]

Condition 44: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR Subpart 244-8

Item 44.1:
The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 44.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Monitoring and Reporting NOX emissions

(1) The owners and operators, and to the extent applicable, the CAIR designated representative shall comply with all recordkeeping and reporting requirements in this condition, the applicable recordkeeping and reporting requirements under 40 CFR 75, and the requirements of 6NYCRR Part 244-2.1(e)(1).

(2) The CAIR designated representative shall submit quarterly reports of the the NOx mass emissions data and heat input data for each CAIR NOx unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under 6NYCRR Part 244.8 (b), unless that quarter is the third or fourth quarter of 2007, in which case reporting shall commence in the quarter covering January 1, 2008 through March 31, 2008.

(3) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

(4) For CAIR NOx units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Ozone Season Trading Program, CAIR SO2 Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the NOx mass emission data, heat input data, and other information required by this Subpart.

(5) 'Compliance certification.' The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of 6NYCRR Part 244 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

(ii) for a unit with add-on NOx emission controls and for all hours where NOx data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NOx emissions.

(6) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR part 75, data shall be substituted using the applicable missing data procedures in Subpart D or Subpart H of, or appendix D or appendix E to 40 CFR part 75. [244-8.3(a)]

(7) Whenever the owner or operator makes a replacement, modification, or change to any certified continuous emission monitoring system under 6NYCRR Part 244-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record NOx mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flowmeter systems and any excepted NOx monitoring system under appendix E to 40 CFR part 75, under 6NYCRR Part 244-8.1(a)(1) are subject to the recertification requirements in 40 CFR 75.20(g)(6). [244-8.3(d)(2)]

Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL TOTAL
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

Condition 45: CAIR SO2 Trading Program General Provisions
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR Subpart 245-1

Item 45.1:
1) As of midnight of March 1, or midnight of the first business day thereafter (if March 1 is not a business day) for a control period, the owners and operators of each Clean Air Interstate Rule (CAIR) SO2 source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO2 allowances available for compliance deductions for the control period (January 1

through December 31) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO2 units at the source. A CAIR SO2 allowance shall not be deducted, for compliance with the requirements under paragraph (2) of this section, for a control period in a calendar year before the year for which the CAIR SO2 allowance was allocated. [(245-1.2(b)(5), 245-1.6(c)(1), 245-1.2(b)(36), 245-1.6(c)(3)]

2) The owners and operators shall hold in their compliance account, CAIR SO allowances available for compliance deductions for the control period starting on the later of January 1, 2010 or the deadline for meeting a CAIR SO2 unit's monitor certification requirements under section 245-8.1(b)(1), (2), or (5) and for each control period thereafter. [245-1.6(c)(2)]

3) If a CAIR SO2 source emits sulfur dioxide during any control period in excess of the CAIR SO2 emissions limitation, the owners and operators of the source shall surrender the CAIR SO2 allowances required for deduction under 6NYCRR Part 245-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart, the Act, and applicable State law. [(245-1.6(d)]

4) Unless otherwise provided, the owners and operators of the CAIR SO2 source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator: [245-1.6(e)]

(i) The certificate of representation under 6NYCRR Part 245-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 245-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 245-8, provided that to the extent that 6NYCRR Part 245-8 provides for a three-year period for recordkeeping, the three-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO2 Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR SO2 Trading Program or to demonstrate compliance with the requirements of the CAIR SO2 Trading Program.

Condition 46: Designated CAIR Representative
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR Subpart 245-2

Item 46.1:
1) Each CAIR SO2 source shall have one and only one CAIR designated representative and may have one alternate representative, as per 6NYCRR Part 245-2.2, with regard to all matters under the CAIR SO2 Trading Program. The CAIR designated representative of the CAIR SO2 source shall be selected by an agreement binding on the owners and operators of the source and all CAIR SO2 units at the source and shall act in accordance with the certification statement in 6NYCRR Part 245-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part 245-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind

each owner and operator of the CAIR SO2 source represented and each CAIR SO2 unit at the source in all matters pertaining to the CAIR SO2 Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source or unit. [245-2.1(a), (b) & (c)]

(c) Each submission under the CAIR SO2 Trading Program shall be submitted, signed, and certified by the CAIR designated representative for each CAIR SO2 source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. 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. Based on my inquiry of those individuals with primary responsibility for obtaining the 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. [245-2.1(c)]

Condition 47: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR Subpart 245-8

Item 47.1:
The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 47.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Monitoring and Reporting SO2 emissions.

1) The owners and operators, and to the extent applicable, the Clean Air Interstate Rule (CAIR) designated representative, of a CAIR SO2 unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 245-8 and in 40 CFR Part 75, Subparts F and G. For purposes of complying with such requirements, the definitions in section 245-1.2 and 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR SO2 unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 245-1.2. The owner or operator of a unit that is

not a CAIR SO2 unit but that is monitored under 40 CFR 75.16(b)(2) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR SO2 unit. [245-8.1]

2) The owner or operator of each CAIR SO2 unit shall [245-8.1(a)]

(i) install all monitoring systems required under this Subpart for monitoring SO2 mass emissions and individual unit heat input (including all systems required to monitor SO2 concentration, stack gas moisture content, stack gas flow rate, CO2 or O2 concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.11 and 40 CFR 75.16);

(ii) successfully complete all certification tests required under Part 245-8.2 and meet all other requirements of this section and 40 CFR Part 75 applicable to the monitoring systems under this section; and

(iii) record, report, and quality-assure the data from the monitoring systems under paragraph of this section.

3) The owner or operator shall meet the monitoring system certification and other requirements of section 245-8.1(a)(1) and (2) on or before the following dates. The owner or operator shall record, report, and quality-assure the data from the monitoring systems under section 245-8.1(a)(1) on and after the following dates [245-8.1(b)]

(i) For the CAIR SO2 unit that commences commercial operation before July 1, 2008, by January 1, 2009.

(ii) For the CAIR SO2 unit that commences commercial operation on or after July 1, 2008, by the later of the following dates: January 1, 2009; or 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which the unit commences commercial operation.

4) Whenever the owner or operator makes a replacement, modification, or change to any certified continuous emission monitoring system under section 245-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record SO2 mass emissions or heat input rate or to meet the quality-assurance and quality control requirements of 40 CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each

continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flowmeter system under section 245-8.1(a)(1) is subject to the recertification requirements in 40 CFR 75.20(g)(6). [245-8.2(d)(2)]

5) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable missing data procedures in Subpart D of or appendix D to 40 CFR Part 75. [245-8.3(a)]

6) The CAIR designated representative shall comply with all recordkeeping and reporting requirements in section 245-8.3, the applicable recordkeeping and reporting requirements in Subparts F and G of 40 CFR Part 75, and the requirements of section 245-2.1(e)(1). [245-8.5(a)]

7) The owner or operator of a CAIR SO2 unit shall comply with requirements of 40 CFR 75.62 for monitoring plans. [245-8.5(b)]

8) The CAIR designated representative shall submit an application to the department within 45 days after completing all initial certification or recertification tests required under section 245-8.2, including the information required under 40 CFR 75.63. [245-8.5(c)]

9) The CAIR designated representative shall submit quarterly reports of the SO2 mass emissions data and heat input data for each CAIR SO2 unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with: [245-8.5(d)(1)]

i) the calendar quarter covering January 1, 2009 through March 31, 2009 for a unit that commences commercial operation before July 1, 2008; or

ii) for a unit that commences commercial operation on or after July 1, 2008, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 245-8.1(b), unless that quarter is the third or fourth quarter of 2008, in which case reporting shall commence in the quarter covering January 1, 2009 through

March 31, 2009.

(10) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.64. [245-8.5(d)(2)]

(11) For CAIR SO2 units that are also subject to an Acid Rain emissions limitation or the CAIR NOX Annual Trading Program, CAIR NOX Ozone Season Trading Program or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the SO2 mass emission data, heat input data, and other information required by this Subpart. [245-8.5(d)(3)]

(12) The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that: [245-8.5(e)]

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications; and

(ii) for a unit with add-on SO2 emission controls and for all hours where SO2 data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate SO2 emissions.

Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL TOTAL
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

Condition 48: EPA Region 2 address.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A

Item 48.1:
All requests, reports, applications, submittals, and other communications to the Administrator

pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway 21st Floor
New York NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3259

Condition 49: Date of construction notification - If a COM is not used.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:40CFR 60.7(a), NSPS Subpart A

Item 49.1:
Any owner or operator subject to this part shall furnish the Administrator with the following information:

1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;

2) a notification of the actual date of initial start up, post marked within 15 days after such date;

3) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;

4) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date;

5) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date.

Condition 50: Recordkeeping requirements.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 50.1:
Affected owners or operators shall maintain records of occurrence and duration of any startup,

shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 51: Facility files for subject sources.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 51.1:
The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in permanent form suitable for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records

Condition 52: Performance testing timeline.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 52.1:
Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 53: Performance test methods.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 53.1:
Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR 60 or by alternative methods and procedures approved by the Administrator.

Condition 54: Prior notice.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 54.1:
The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 55: Performance testing facilities.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 55.1:
The following performance testing facilities shall be provided during all tests:

1) sampling ports adequate for tests methods applicable to such facility;

2) a safe sampling platform;

3) a safe access to the sampling platform; and

4) utilities for sampling and testing equipment.

Condition 56: Number of required tests.
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 40CFR 60.8(f), NSPS Subpart A

Item 56.1:
Each performance test shall consist of three separate runs, or the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 57: Applicability
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 40CFR 60, NSPS Subpart OOO

Item 57.1:
This Condition applies to:

Emission Unit: U00004
Process: P04 Emission Source: EG001

Emission Unit: U00005
Process: P05 Emission Source: EP001

Item 57.2:
Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart IIII.

Condition 58: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 40CFR 60.4335, NSPS Subpart KKKK

Item 58.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001 Emission Point: EP001

Emission Unit: U-00002 Emission Point: EP002

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 58.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
As an alternative to continuously monitoring the water or steam to fuel ratio, the facility shall install, certify, maintain, and operate a continuous emission monitoring system (CEMS) consisting of a NOx monitor and a diluent gas (oxygen or carbon dioxide) monitor, to determine hourly NOx emissions in parts per million (ppm).

Reference Test Method: EPA Approved
Monitoring Frequency: CONTINUOUS
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period
The initial report is due 1/30/2004
Subsequent reports are due every 6 calendar month(s).

Condition 59: Compliance Demonstration
Effective between the dates of 06/01/2013 and 07/31/2018

Applicable Federal Requirement: 40CFR 60.4375(a), NSPS Subpart KKKK

Item 59.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Item 59.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content, reports of excess emissions and monitor downtime shall be submitted in accordance with 40 CFR 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION:
Reporting Requirement: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2014.
Subsequent reports are due every 6 calendar month(s).

Condition 60: Facility Subject to Title IV Acid Rain Regulations and Permitting
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 40 CFR Part 72

Item 60.1: This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.

***** Emission Unit Level *****

Condition 61: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)

Item 61.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

Emission Unit: U-00004

Emission Unit: U-00005

Emission Unit: U-00006

Item 61.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: Method 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period
The initial report is due 1/30/2014
Subsequent reports are due every 6 calendar month(s)

Condition 62: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 227-1.3 (a)

Item 62.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001 Emission Point: EP001
Process: P35 Emission Source: ES001

Emission Unit: U-00002 Emission Point: EP002
Process: P03 Emission Source: ES002

Item 62.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency cited below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard

continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations for any follow-up method 9 tests, investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Method 9
Monitoring Frequency: When firing distillate fuel oil
Averaging Method: 6 MINUTE AVERAGE (METHOD 9)
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2014.
Subsequent reports are due every 12 calendar month(s).

Condition 63: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:40CFR 60.43c(c), NSPS Subpart Dc

Item 63.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Item 63.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. The facility shall perform a method 9 evaluation.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent
Reference Test Method: Method 9
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: ONCE - BATCH OR MONITORING OCCURRENCE

Condition 64: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 40CFR 60.48c(a), NSPS Subpart Dc

Item 64.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Item 64.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup,
as provided by 40 CFR 60.7 of this part. This notification shall include:
(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
(2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c, or 40 CFR 60.43c
(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 65: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.3

Item 65.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003
Process: P3B

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 65.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
Monitoring Description:
Operation of the Auxiliary boiler is restricted to 2000 hours per year. Facility will maintain usage records and fuel consumption.

Work Practice Type: HOURS PER YEAR OPERATION
Upper Permit Limit: 2000 hours
Monitoring Frequency: DAILY
Averaging Method: 12-month total, rolled monthly
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period
The initial report is due 1/30/2014
Subsequent reports are due every 12 calendar month(s).

Condition 66: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 66.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003
Process: P3B

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 66.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 0.0038 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0038 pounds per million Btus
Reference Test Method: Method 25A
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 67: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 67.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003
Process: P3B

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 67.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 0.0450 lb/mmBtu. Will be achieved using low NOx burners and flue gas re-circulation. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.045 pounds per million Btus
Reference Test Method: Method 7E
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1 HOUR AVERAGE
Reporting Requirements: ONCE - BATCH OR MONITORING OCCURRENCE

Condition 68: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 68.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003
Process: P3B

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 68.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0063 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed within 180

days of startup.

Upper Permit Limit: 0.0063 pounds per million Btus
Reference Test Method: Method 201/201A and 202
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE - BATCH OR MONITORING OCCURRENCE

Condition 69: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 69.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005
Process: P5B

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 69.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0022 lb/mmBtu. Will be achieved using low-sulfur fuel. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0022 pounds per million Btus
Reference Test Method: EPA approved methods
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE - BATCH OR MONITORING OCCURRENCE

Condition 70: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 70.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005
Process: P5B

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 70.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0002 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0002 pounds per million Btus
Reference Test Method: EPA approved methods
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1 HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 71: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirements: NYCRR 231-7.6

Item 71.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003
Process: P3B

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 71.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0721 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0721 pounds per million Btus
Reference Test Method: Method 10
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1 HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 72: Alternative recordkeeping
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 40CFR 60.48c(g)(2), NSPS Subpart Dc

Item 72.1:
This Condition applies to Emission Unit: U-00003
Process: P3B Emission Source: AUX01

Item 72.2: As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO_2 standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

Condition 73: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 73.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004
Process: P04

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 73.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 0.0331 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 0.0331 pounds per million Btus
Reference Test Method: Method 25A
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1 HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 74: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 74.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004
Process: P04

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 74.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 4.77 grams per brake horsepower-hour. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 4.77 grams per brake horsepower-hour
Reference Test Method: Method 7E
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 75: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 75.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004
Process: P01

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 75.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.03 g/hp-hr. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Upper Permit Limit: 0.03 grams per brake horsepower-hour
Reference Test Method: Method 201/201A and 202
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 76: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 76.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001
Process: P04

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 76.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0014 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.0014 pounds per million Btus
Reference Test Method: EPA approved methods
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE PER BATCH OR MONITORING OCCURRENCE

Condition 77: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 77.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004
Process: P04

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 77.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.00003 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.00003 pounds per million Btus

Reference Test Method: EPA approved method
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE - BATCH OR MONITORING OCCURRENCE

Condition 78: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: NYCRR 231-7.6

Item 78.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001
Process: P01

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 78.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.45 g/hp-hr. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department.

Upper Permit Limit: 0.45 grams per brake horsepower-hour
Reference Test Method: Method 10
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE - BATCH OR MONITORING OCCURRENCE

Condition 79: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: NYCRR 231-5.4

Item 79.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005
Process: P05

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 79.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 0.657 pounds per million Btus. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 0.857 pounds per million Btus
Reference Test Method: Method 7E
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 80: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 80.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005
Process: P05

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 80.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 0.2612 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 0.3612 pounds per million Btus
Reference Test Method: Method 15A
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 81: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 81.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005
Process: P05

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 81.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.75 lbs/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department.

Upper Permit Limit: 0.75 pounds per million Btus
Reference Test Method: Method 10
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 82: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 82.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005
Process: P05

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 82.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.043 lb/mmBtus. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.043 pounds per million Btus
Reference Test Method: Method 201/201A and 202
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 83: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 83.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005
Process: P05

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 83.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0014 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Upper Permit Limit: 0.0014 pounds per million Btus
Reference Test Method: EPA approved methods
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE BATCH OR MONITORING OCCURRENCE

Condition 84: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 84.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005
Process: P05

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 84.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.00003 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the

request of the Department..

Upper Permit Limit: 0.00003 pounds per million Btus
Reference Test Method: EPA approved methods
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 85: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 85.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00006
Process: P06

Regulated Contaminant(s)
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 85.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 0.058 pounds per million Btus for each individual gas heater. Will be achieved using forced draft low NOx Burner. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 0.058 pounds per million Btus
Reference Test Method: Method 7E
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 86: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 86.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00006
Process: P06

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 86.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
LAER is 0.011 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 0.011 pounds per million Btus
Reference Test Method: Method 25A
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 87: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 87.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00006
Process: P06

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 87.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0002 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Upper Permit Limit: 0.0002 pounds per million Btus
Reference Test Method: EPA approved methods
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 88: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 88.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00006
Process: P06

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 88.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.084 lb/mmBtus . Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.084 pounds per million Btus
Reference Test Method: Method 10
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1 HOUR AVERAGE
Reporting Requirements: ONCE PER BATCH OR MONITORING OCCURRENCE

Condition 89: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 89.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00006
Process: P06

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 89.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0076 lb/mmBtus.. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.0076 pounds per million Btus
Reference Test Method: Method 201/201A and 202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 90: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirements: NYCRR 251-7.6

Item 90.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001
Process: P06

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 90.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
BACT is 0.0022 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.

Upper Permit Limit: 0.0022 pounds per million Btus
Reference Test Method: EPA approved methods
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: **Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)**
Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4 and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

Item B: **General Provisions for State Enforceable Permit Terms and Conditions - 6 NYCRR Part 201-5**
Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

STATE ONLY APPLICABLE REQUIREMENTS
The following conditions are state only enforceable.

Condition 91: **Contaminant List**
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement:ECL 19-0301

Item 91.1:
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000124-38-9
Name: CARBON DIOXIDE

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 007446-09-5
Name: SULFUR DIOXIDE

CAS No: 007664-41-7
Name: AMMONIA

CAS No: 007664-93-9
Name: SULFURIC ACID

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY075-00-5
Name: PM-10

CAS No: 0NY075-02-5
Name: PM-2.5

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0
Name: VOC

Condition 92: Unavoidable noncompliance and violations
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement:6 NYCRR 201-1.4

Item 92.1:
At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a

condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of such air contaminant emitted and the effect of such emissions, depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 93: Emission Unit Definition
Effective between the dates of 08/03/2013 and 07/31/2018

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 93.1:
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: U-00001
Emission Unit Description:
ONE F CLASS COMBUSTION TURBINE RATED AT 1998 MMBTU/HR AT 51 DEGREES F (2234 MMBTU/HR AT -5 DEGREES F) ON NATURAL GAS AND 2145 MMBTU/HR AT -5 DEGREES F ON FUEL

OIL (.0005% SULFUR). THE TURBINE IS EQUIPPED WITH DRY LOW-NOX COMBUSTORS, STEAM INJECTION, SCR AND OXIDATION CATALYST EMISSION CONTROLS. THIS EMISSION UNIT ALSO CONTAINS A NATURAL GAS-FIRED DUCT BURNER RATED AT A MAXIMUM CAPACITY OF 500 MMBTU/HR.

Building(s): AGC01
GEN01
HRSG01

Item 93.2:
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: U-00002
Emission Unit Description:
ONE CLASS-F COMBUSTION TURBINE RATED AT 1998 MMBTU/HR AT 51 DEGREES F (2234 MMBTU/HR AT -5 DEGREES F) ON NATURAL GAS AND 2145 MMBTU/HR AT -5 DEGREES F ON FUEL OIL (.0005% SULFUR). THE TURBINE IS EQUIPPED WITH DRY LOW-NOX COMBUSTORS, STEAM INJECTION, SCR AND OXIDATION CATALYST EMISSION CONTROLS. THIS EMISSION UNIT ALSO CONTAINS A NATURAL GAS-FIRED DUCT BURNER RATED AT A MAXIMUM CAPACITY OF 500 MMBTU/HR.

Building(s): AGC02
GEN02
HRSG02

Item 93.3:
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: U-00003
Emission Unit Description:
ONE 73.5 MMBTU/HR AUXILIARY BOILER THAT WILL FIRE NATURAL GAS EXCLUSIVELY. THE BOILER HOURS WILL BE LIMITED TO 2000 HOURS PER YEAR. THE BOILER WILL OPERATE PRIMARILY TO ASSIST WITH STARTUPS AND SHUTDOWNS OF THE TURBINES.

Building(s): GEN01

Item 93.4:
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: U-00004
Emission Unit Description:
Emergency Diesel Generator operating less than 500 hours per year.

Item 93.5:
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: U-00005
Emission Unit Description:
Emergency Fire water Pump

Item 93.6:
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: U-00006
Emission Unit Description:
Two Fuel Gas Heaters

Condition 94: Visible Emissions Limited
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement: 6 NYCRR 211.2

Item 94.1:
Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, 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.

Condition 95: CO2 Budget Trading Program - Excess emission requirements
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement: 6 NYCRR 242-1.5

Item 95.1:
The owners and operators of a CO2 budget source that has excess emissions in any control period shall:
(1) forfeit the CO2 allowances required for deduction under 6 NYCRR Part 242-6.5(d)(1). provided CO2 offset allowances may not be used to cover any part of such excess emissions; and (2) pay any fine, penalty, or assessment or comply with any other remedy imposed under 6 NYCRR Part 242-6.5(d)(2).

Condition 96: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement: 6 NYCRR 242-1.5

Item 96.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 96.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
The owners and operators and, to the extent applicable, the CO2 authorized account representative of each CO2 budget source and each CO2 budget unit at the source shall

comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO2 requirements:

(1) The owners and operators of each CO2 budget source and each CO2 budget unit at the source shall hold CO2 allowances available for compliance deductions under Section 242-6.5, as of the CO2 allowance transfer deadline, in the source's compliance account in an amount not less than the total CO2 emissions for the control period from all CO2 budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.

(2) Each ton of CO2 emitted in excess of the CO2 budget emissions limitation shall constitute a separate violation of this Part and applicable state law.

(3) A CO2 budget unit shall be subject to the requirements specified in item 1 starting on the later, of January 1, 2009 or the date on which the unit commences operation.

(4) CO2 allowances shall be held in, deducted from, or transferred among CO2 Allowance Tracking System accounts in accordance with Subparts 242-5, 242-6, and 242-7, and Section 242-10.7.

(5) A CO2 allowance shall not be deducted, in order to comply with the requirements specified in item 1, for a control period that ends prior to the allocation year for which the CO2 allowance was allocated. A CO2 offset allowance shall not be deducted, in order to comply with the requirements under item 1, beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3).

(6) A CO2 allowance under the CO2 Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO2 in accordance with the CO2 Budget Trading Program. No provision of the CO2 Budget Trading Program, the CO2 budget permit application, or the CO2 budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization.

(7) A CO2 allowance under the CO2 Budget Trading Program does not constitute a property right.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2014.
Subsequent reports are due every 6 calendar month(s).

Condition 97: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement: 6 NYCRR 242-1.5

Item 97.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 97.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO2 authorized account representative for the source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4 provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

(ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO2 Budget Trading Program.

(iv) Copies of all documents used to complete a CO2 budget permit application and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program.

The CO2 authorized account representative of a CO2 budget source and each CO2 budget unit at the source shall submit

(he reports and compliance certifications required under
(he CO2 Budget Trading Program, including (hose under
Subpart 242-4

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period
The annual report is due 1/30/2014
Subsequent reports are due every 6 calendar month(s)

Emission Unit Level

Condition 98: Emission Point Definition By Emission Unit
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 98.1:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00001

Emission Point: EP001
Height (ft.): 275 Diameter (in.): 3.08
NYTMN (km): 4584.693 NYTME (km): 546.98

Item 98.2:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00002

Emission Point: EP002
Height (ft.): 275 Diameter (in.): 228
NYTMN (km): 4584.655 NYTME (km): 546.991

Item 98.3:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00003

Emission Point: EP003
Height (ft.): 275 Diameter (in.): 288
NYTMN (km): 4584.655 NYTME (km): 546.991

Item 98.4:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00004

Emission Point: EP004
Height (ft.): 50 Diameter (in.): 18
NYTMN (km.): 4564.651 NYTME (km.): 547.129

Item 98.5:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00005

Emission Point: EP005
Height (ft.): 50 Diameter (in.): 6
NYTMN (km.): 4564.669 NYTME (km.): 546.815

Item 98.6:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00006

Emission Point: EP006
Height (ft.): 125 Diameter (in.): 24
NYTMN (km.): 4564.58 NYTME (km.): 546.956

Condition 99: Process Definition By Emission Unit
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 99.1:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001
Process: PLA Source Classification Code: 2-01-002-01
Process Description:
REPRESENTS NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOX COMBUSTION TECHNOLOGY, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,234 MMBtu/hr AT -5 DEGREES F) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS THE TURBINE AT THE FIRING RATE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 51 DEGREES F (1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT.

Emission Source/Control: CT001 - Combustion
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN01 - Control
Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY01 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 99.2:
This permit authorizes the following regulated processes for the cited Emission Unit.

Emission Unit: U-00001
Process: P2A Source Classification Code: 2-01-002-01
Process Description:
REPRESENTS COMBINED NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO) AND NATURAL GAS FIRING IN THE DUCT BURNER, WHICH IS RATED AT 500 mmBTU/hr. DRY LOW-NOX COMBUSTION TECHNOLOGY, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,234 MMBtu/hr AT -5 DEGREES F) OF THE TURBINE PLUS THE DUCT BURNER AT RATED CAPACITY (500 mmBTU/hr) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS 8,760 HOURS OF NATURAL GAS FIRING IN THE TURBINE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 51 DEGREES F (1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT.

Emission Source/Control: CT001 - Combustion
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DB000 - Combustion
Design Capacity: 500 million Btu per hour

Emission Source/Control: DLN01 - Control
Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY01 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 99.3:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001
Process: P3A Source Classification Code: 2-01-001-01
Process Description:
REPRESENTS FUEL OIL FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,145 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOX COMBUSTION TECHNOLOGY, STEAM OR WATER INJECTION, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2.145 MMBtu/hr AT -5 DEGREES F) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS 720 HOURS OF FUEL OIL FIRING AT THE FIRING RATE AT -5 DEGREES F AMBIENT TEMPERATURE. FUEL OIL HIGHER HEATING VALUE IS ASSUMED TO BE 139,738 BTU/GALLON

Emission Source/Control: C1001 - Combustion
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN01 - Control
Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY01 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: ST101 - Control
Control Type: STEAM OR WATER INJECTION

Item 99.4:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002
Process: P04 Source Classification Code: 2-01-002-01
Process Description:
REPRESENTS NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOX COMBUSTION TECHNOLOGY, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT

LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,234 MMBtu/hr AT -5 DEGREES F) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS THE TURBINE AT THE FIRING RATE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 59 DEGREES F (1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT.

Emission Source/Control: CT002 - Combustion
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN02 - Control
Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY02 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR03 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 99.5:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002
Process: P02 Source Classification Code: 2-01-002-01
Process Description:
REPRESENTS COMBINED NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO) AND NATURAL GAS FIRING IN THE DUCT BURNER, WHICH IS RATED AT 500 mmBTU/hr. DRY LOW-NOX COMBUSTION TECHNOLOGY, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,234 MMBtu/hr AT -5 DEGREES F) OF THE TURBINE PLUS THE DUCT BURNER AT RATED CAPACITY (500 mmBTU/hr) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS 8,760 HOURS OF NATURAL GAS FIRING IN THE TURBINE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 59 DEGREES F (1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT.

Emission Source/Control: CT002 - Combustion
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DB002 - Combustion

Design Capacity: 500 million Btu per hour

Emission Source/Control: DLN01 - Control
Control Type: DRY LOW NOX BURNER

Emission Source/Control: OXY02 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR02 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 99.6:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002
Process: P03 Source Classification Code: 2-01-001-01
Process Description:
REPRESENTS FUEL OIL FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,145 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOX COMBUSTION TECHNOLOGY, STEAM OR WATER INJECTION, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,145 MMBtu/hr AT -5 DEGREES F) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS 720 HOURS OF FUEL OIL FIRING AT THE FIRING RATE AT -5 DEGREES F AMBIENT TEMPERATURE. FUEL OIL HIGHER HEATING VALUE IS ASSUMED TO BE 139,778 BTU/GALLON

Emission Source/Control: C1002 - Combustion
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN02 - Control
Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY02 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR03 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: ST102 - Control
Control Type: STEAM OR WATER INJECTION

Item 99.7:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00005
Process: P3B Source Classification Code: 1-03-006-02
Process Description:
REPRESENTS NATURAL GAS FIRING IN THE AUXILIARY BOILER. WHICH IS RATED AT 73.5 MMBTU/HR. TOTAL NATURAL GAS USAGE WILL NOT EXCEED 2,000 FULL LOAD BOILER HOURS PER YEAR. NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT

Emission Source/Control: AUX01 - Combustion
Design Capacity: 73.5 million Btu per hour

Emission Source/Control: FGR01 - Control
Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: LNB01 - Control
Control Type: LOW NOx BURNER

Item 99.8:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00004
Process: P04
Process Description: Emergency generator firing diesel fuel

Emission Source/Control: EG001 - Combustion
Design Capacity: 15.43 million BTUs per hour

Item 99.9:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00005
Process: P05
Process Description: Fire pump firing diesel fuel

Emission Source/Control: FP001 - Combustion
Design Capacity: 2.27 million Btu per hour

Item 99.10:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00006
Process: P06
Process Description: gas heater operating on natural gas

Emission Source/Control: FGH01 - Combustion
Design Capacity: 5.02 million Btu per hour

Emission Source/Control: FHG02 - Combustion
Design Capacity: 5.02 million Btu per hour

Condition 100: Compliance Demonstration
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable State Requirement: 6 NYCRR 251.3 (a)

Item 100.1:
The Compliance Demonstration activity will be performed for the facility.
The Compliance Demonstration applies to:

Emission Unit: U-00001 Emission Point: EP001

Emission Unit: U-00002 Emission Point: EP002

Regulated Contaminant(s):
CAS No: 000124-38-9 CARBON DIOXIDE

Item 100.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
Owners or operators of boilers that are permitted to fire greater than 70 percent fossil fuel, combined cycle combustion turbines, or stationary internal combustion engines that fire only gaseous fuel, except for those emission sources directly attached to a gasifier, are required to meet an emission rate of 925 pounds of CO2 per MW hour gross electrical output (output-based limit). These emission limits are measured on a 12-month rolling average basis, calculated by dividing the annual total of CO2 emissions over the relevant 12-month period by the annual total (gross) MW generated (output-based limit). The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

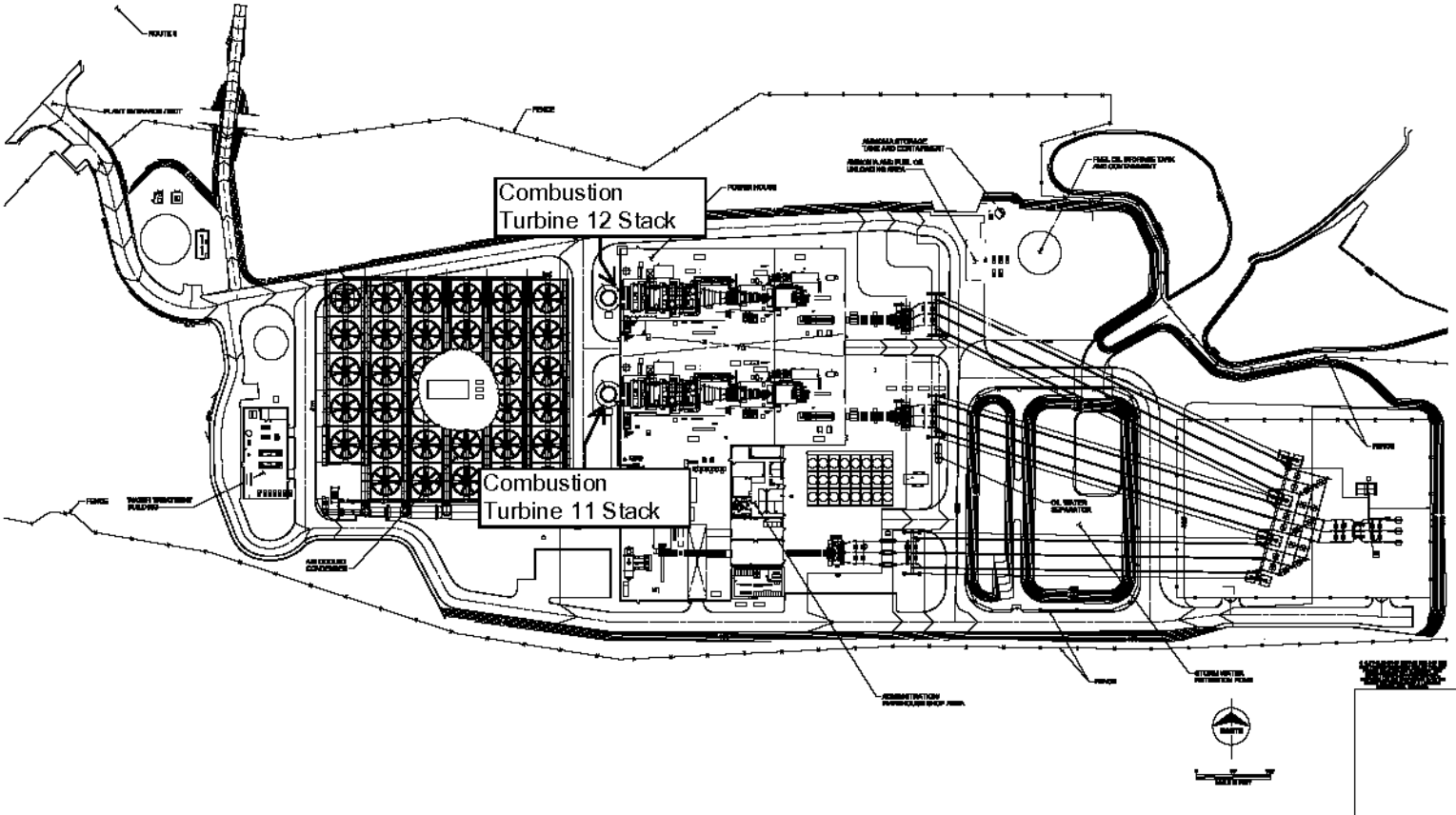
Manufacturer Name/Model Number: CO2 Continuous Monitor
Parameter Monitored: CARBON DIOXIDE
Upper Permit Limit: 925 pounds per megawatt hour
Monitoring Frequency: CONTINUOUS
Averaging Method: 12-MONTH AVERAGE - ROLLED MONTHLY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2013.
Subsequent reports are due every 3 calendar month(s).

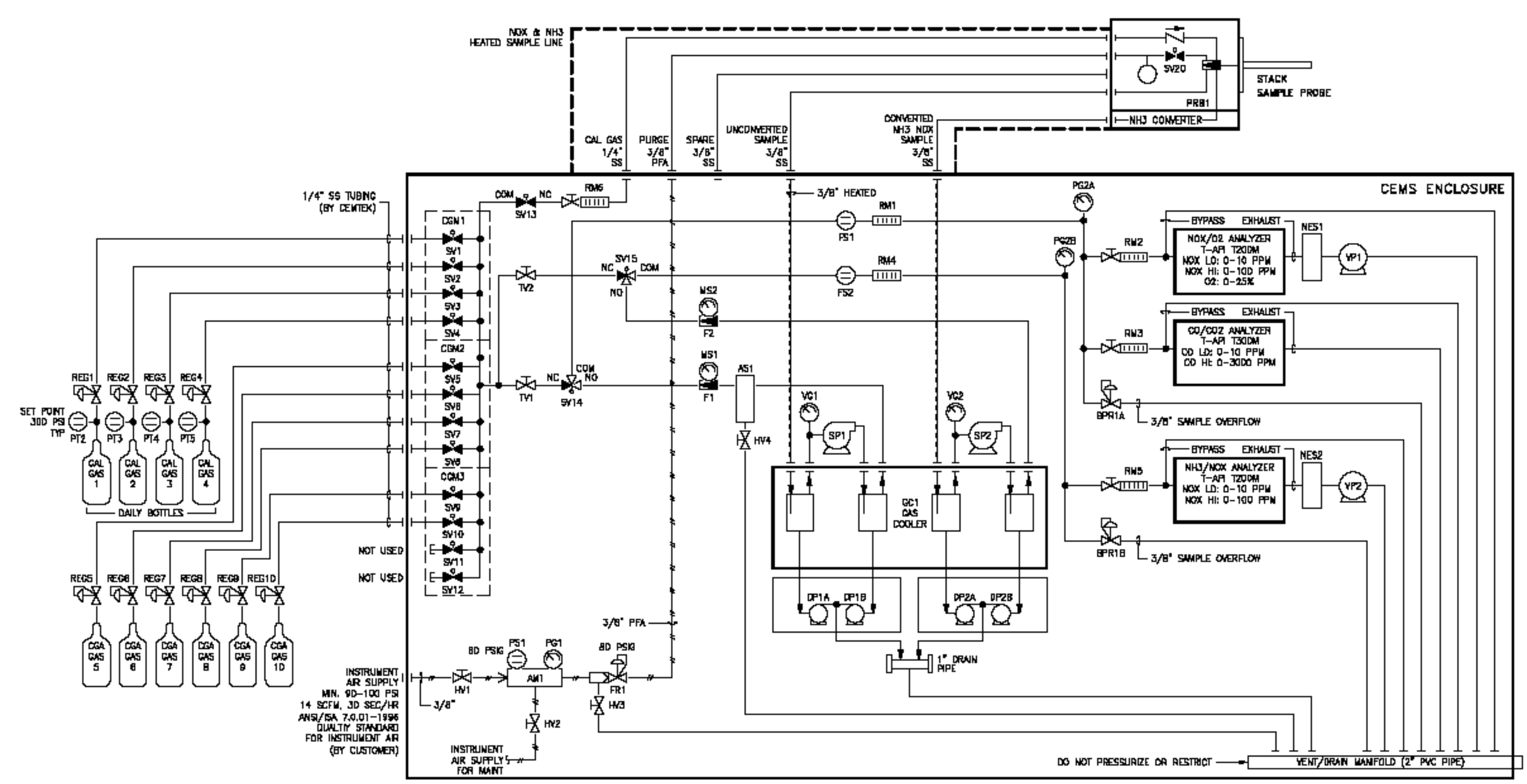
CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 5

Plot Plan,
Facility General Arrangement,
Process Diagram

Facility Plot Plan
CPV Valley Energy Center
Facility ID - 3-3356-00136
Permit ID - 3-3356-00136/00001





TYPICAL FOR UNITS 1 & 2

1. ALL TUBING SHALL BE 1/4" O.D. TEFLON.
NOTES: UNLESS OTHERWISE SPECIFIED.

HEATED LINE
INSTRUMENT AIR

NO.	REVISION	DATE	APPR.
A	CUSTOMER COMMENTS	09/15/15	FT
B	AS BUILT	12/13/16	FT

ELECTRICAL SPECIFICATION	INS	SIZE	LUGS	MISC
CONTROL WIRE	PVC	18 AWG MIN	NONE	–
SIGNAL WIRE	TEFLON	18 AWG MIN	NONE	–
POWER WIRE	THHN	14 AWG MIN	NONE	–

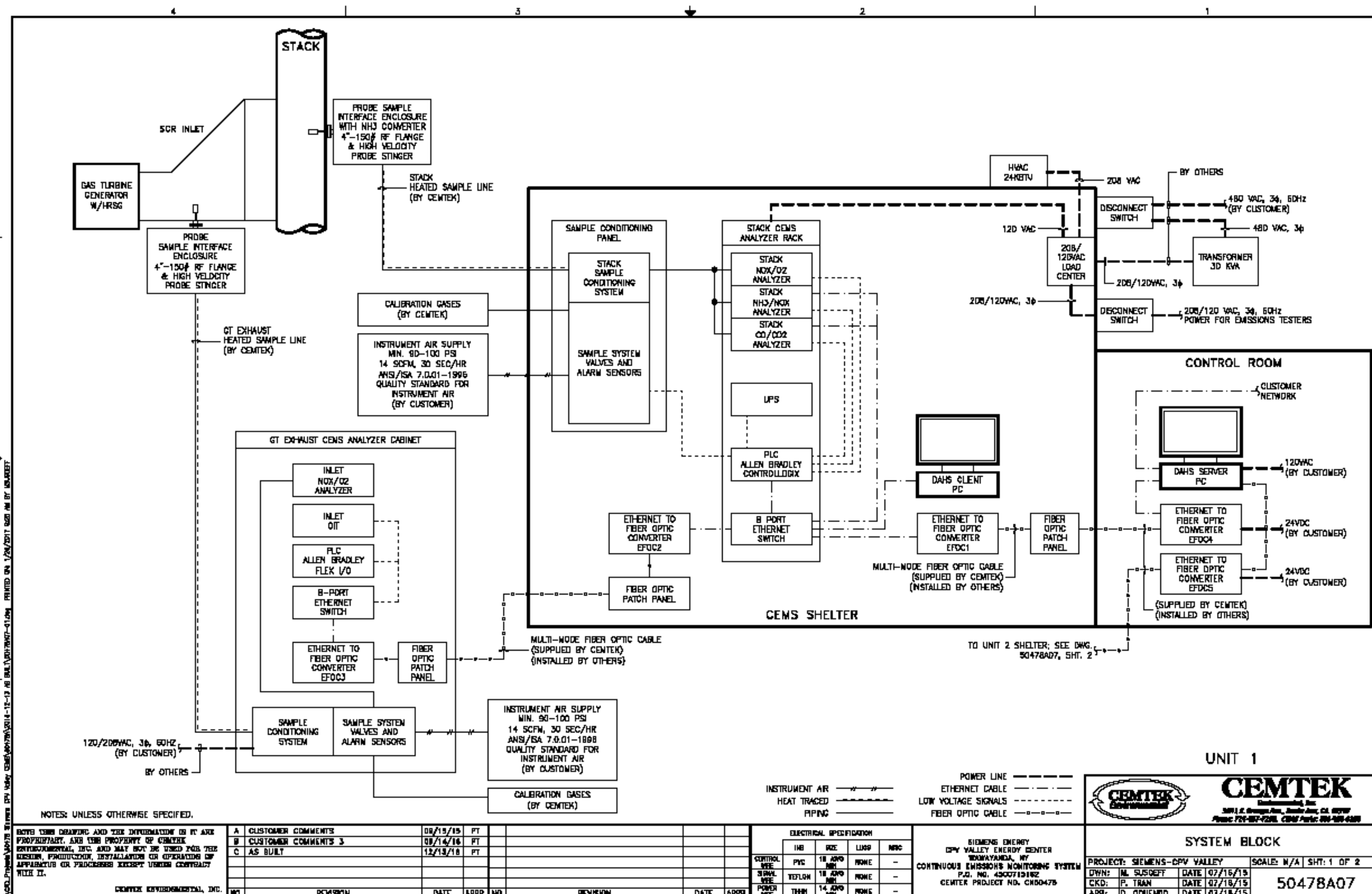
SIEMENS ENERGY
CPV VALLEY ENERGY CENTER
WAWAYANDA, NY
CONTINUOUS EMISSIONS MONITORING SYSTEM
P.O. NO. 4500715162
CEMTEK PROJECT NO. CN50478

CEMTEK Environmental, Inc.

STACK SAMPLE SYSTEM FLOW

PROJECT: SIEMENS-CPV VALLEY | SCALE: N/A | SHT: 1 OF 1
DWN: N. SUSOEFF | DATE 07/16/15
CKD: P. TRAN | DATE 07/16/15
APP: D. OQUENDO | DATE 07/16/15

50478A02


STACK
SCR INLET
GAS TURBINE GENERATOR W/HRSG
PROBE SAMPLE INTERFACE ENCLOSURE WITH NH3 CONVERTER 4"-150# RF FLANGE & HIGH VELOCITY PROBE STINGER
STACK HEATED SAMPLE LINE (BY CEMTEK)
PROBE SAMPLE INTERFACE ENCLOSURE 4"-150# RF FLANGE & HIGH VELOCITY PROBE STINGER
GT EXHAUST HEATED SAMPLE LINE (BY CEMTEK)
CALIBRATION GASES (BY CEMTEK)
INSTRUMENT AIR SUPPLY MIN. 90-100 PSI 14 SCFM, 30 SEC/HR ANSI/ISA 7.0.01-1996 QUALITY STANDARD FOR INSTRUMENT AIR (BY CUSTOMER)
SAMPLE CONDITIONING PANEL
STACK SAMPLE CONDITIONING SYSTEM
SAMPLE SYSTEM VALVES AND ALARM SENSORS
STACK CEMS ANALYZER RACK
STACK NOX/O2 ANALYZER
STACK NH3/NOX ANALYZER
STACK CO/CO2 ANALYZER
UPS
PLC ALLEN BRADLEY CONTROLLOGIX
8 PORT ETHERNET SWITCH
ETHERNET TO FIBER OPTIC CONVERTER EFOC2
FIBER OPTIC PATCH PANEL
DAHS CLIENT PC
ETHERNET TO FIBER OPTIC CONVERTER EFOC1
FIBER OPTIC PATCH PANEL
MULTI-MODE FIBER OPTIC CABLE (SUPPLIED BY CEMTEK) (INSTALLED BY OTHERS)
CEMS SHELTER
HVAC 24KBTU
208 VAC
BY OTHERS
DISCONNECT SWITCH
480 VAC, 3φ, 60Hz (BY CUSTOMER)
480 VAC, 3φ
120 VAC
208/120VAC LOAD CENTER
TRANSFORMER 30 KVA
208/120VAC, 3φ
208/120VAC, 3φ
DISCONNECT SWITCH
208/120 VAC, 3φ, 60Hz POWER FOR EMISSIONS TESTERS
CONTROL ROOM
CUSTOMER NETWORK
DAHS SERVER PC
120VAC (BY CUSTOMER)
ETHERNET TO FIBER OPTIC CONVERTER EFOC4
24VDC (BY CUSTOMER)
ETHERNET TO FIBER OPTIC CONVERTER EFOC5
24VDC (BY CUSTOMER)
(SUPPLIED BY CEMTEK) (INSTALLED BY OTHERS)
TO UNIT 2 SHELTER; SEE DWG. 50478A07, SHT. 2
GT EXHAUST CEMS ANALYZER CABINET
INLET NOX/O2 ANALYZER
INLET OIT
PLC ALLEN BRADLEY FLEX I/O
8-PORT ETHERNET SWITCH
ETHERNET TO FIBER OPTIC CONVERTER EFOC3
FIBER OPTIC PATCH PANEL
MULTI-MODE FIBER OPTIC CABLE (SUPPLIED BY CEMTEK) (INSTALLED BY OTHERS)
SAMPLE CONDITIONING SYSTEM
SAMPLE SYSTEM VALVES AND ALARM SENSORS
120/208VAC, 3φ, 60HZ (BY CUSTOMER)
BY OTHERS
INSTRUMENT AIR SUPPLY MIN. 90-100 PSI 14 SCFM, 30 SEC/HR ANSI/ISA 7.0.01-1996 QUALITY STANDARD FOR INSTRUMENT AIR (BY CUSTOMER)
CALIBRATION GASES (BY CEMTEK)
UNIT 1
INSTRUMENT AIR
HEAT TRACED
PIPING
POWER LINE
ETHERNET CABLE
LOW VOLTAGE SIGNALS
FIBER OPTIC CABLE
CEMTEK
NOTES: UNLESS OTHERWISE SPECIFIED.
BOTH THIS DRAWING AND THE INFORMATION IN IT ARE PROPRIETARY, AND THE PROPERTY OF CEMTEK ENVIRONMENTAL, INC. AND MAY NOT BE USED FOR THE DESIGN, PRODUCTION, INSTALLATION OR OPERATION OF APPARATUS OR PROCESSES EXCEPT UNDER CONTRACT WITH IT.
CEMTEK ENVIRONMENTAL, INC.
A CUSTOMER COMMENTS 08/15/15 PT
B CUSTOMER COMMENTS 3 09/14/16 PT
C AS BUILT 12/13/16 PT
NO. REVISION DATE APPR.
ELECTRICAL SPECIFICATION
CONTROL WIRE PVC 18 AWG MIN. NONE
SIGNAL WIRE TEFLON 18 AWG MIN. NONE
POWER WIRE THHN 14 AWG MIN. NONE
SIEMENS ENERGY
CPV VALLEY ENERGY CENTER
WAWAYANDA, NY
CONTINUOUS EMISSIONS MONITORING SYSTEM
P.O. NO. 4500713162
CEMTEK PROJECT NO. CN50478
SYSTEM BLOCK
PROJECT: SIEMENS-CPV VALLEY
SCALE: N/A SHT: 1 OF 2
DWN: M. SUSOEFF DATE 07/15/15
CKD: P. TRAN DATE 07/15/15
APP: D. ODUENBO DATE 07/15/15
50478A07

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 6

Method of Compliance Form and Table

New York State Department of Environmental Conservation
Air Permit Application

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEC ID
3 - 3 3 5 6 - 0 0 1 3 6

Methods Used to Determine Compliance

Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance	Compliance Date
Combustion Turbine - 1, 2		Short term emission limits are monitored by Continuous Emission Monitoring. Hourly data is submitted to the USEPA each quarter in the XML electronic data reports. In addition Excess Emission Reports are developed on CEM performance and characterize any excess emissions.	Upon Initial Certification of CEMS
Combustion Turbine - 1, 2		Annual emission limitations are monitored and reported in the Annual Emission Statement Report.	Each year by April 15
		A method of compliance determination analysis has been performed as part of the State Air Permit Conditions. A template of the Annual compliance certification is attached showing all methods of compliance for the facility.	Attached
			Attached

CPV Valley Energy Center
DEC ID No. 3-3356-00136

Methods Used to Determine Compliance

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
DEC 1 item 1.1 - 1.3	ECL 19-0305	The permitted site or facility,including relevant records,is subject to inspection at reasonable hours and intervals by an authorized representative ofthe Department ofEnvironmental Conservation.	Records will be made available.
DEC 2	ECL 3-0301.2(m)	Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.	No Previous issued orders for this facility.
DEC 3 item 3.1 - 3.3	6NYCRR 621.11	The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Required forms and supplemental information must be submitted; Any renewal, modification or transfer granted by the Department must be in writing; The renewal applications must be submitted at least 180 days before expiration, or at least 30 days before expiration of State Facility Permits. The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits. Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.	Permit renewal will be made prior to 180 days of permit expiration.
DEC 4 item 4.1 - 4.3	6 NYCRR 621.11	The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include: a) materially false or inaccurate statements in the permit application or supporting papers; b) failure by the permitee to comply with any terms or conditions of the permit; c) exceeding the scope of the project as described in the permit application; d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit; e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.	The Department reserves the right.
DEC 5	6NYCRR 621.13	Submission of applications for permit modification or renewal must be submitted to NYSDEC Region 3. NYSDEC Regional Permit Administrator Region 3 Headquarters Division of Environmental Permits 21 South Putt Corners Road New Paltz,NY 12561-1696 (845)256-3054	Submissions for modification or renewal will be submitted to the Regional and Albany offices.
Item A	6NYCRR 200.5	The commissioner may seal an air contamination source to prevent its operation if by compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equiptment associated with such source, and includes, but is not limited to, bolting chaining or wiring shut control panels, aperatures or conduits associated with such source. No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification. Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.	Facility will comply.
Item B	6NYCRR 200.6	Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.	Emissions are monitored and recorded by a certified CEMS following all applicable qa/qc requirements.
Item C	6NYCRR 200.7	Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufactuers specifications, required to operate such device effectively.	Devices are operated and maintained in accordance with specified instructions.
Item D	6NYCRR 201-1.2	If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply: (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201. (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.	The facility applied for all permits that were applicable to it at the time of construction.
Item E	6NYCRR 201-1.5	An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State. (a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency; (2) The equiptment at the permitted facility causing the emergency was at the time being properly operated; (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. (b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurence of an emergency has the burden of proof. (c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.	The affirmative defense provisions will be utilized when appropriate.
Item F	6NYCRR 201-1.7	Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.	Recycling of air contaminants practiced if applicable and when practical.
Item G	6NYCRR 201-1.8	No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.	Air cleaning devices salvaged or disposed of to prevent reintroduction to the atmosphere if applicable.
Item H	6NYCRR 201-3.2(a)	The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criterea described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must grant access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determing compliance with this and any other state and federal air pollution control requirements, regulations, or law.	Records will be maintained for 5 years.

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Methods Used to Determine Compliance

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
Item I	6NYCRR 201-3.3(a)	The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. On-site for a period of five years and make The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must grant access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determing compliance with this and any other state and federal air pollution control requirements, regulations, or law.	Records will be maintained for 5 years.
Item J	6NYCRR 202.1.1	An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall by sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1	Reports are submitted.
Item K	6NYCRR 215.2	Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.	No Open Fires allowed onsite.
Item L	ECL 19-0305	The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the ECL and Chapter III of the NYCRR. The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.	Issuance of permit does not affect enforcement actions.
Item M	40 CFR 70.6 (b)	All terms and conditions in this permit required by the act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the act. The Department has, in this permit, specifically designed any terms and conditions that are not required under the act or under any of its applicable requiremetns as being enforceable under only state regulations.	Permit conditions are enforceable.
1	NYCRR 200.7	Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufactuers specifications, required to operate such a device effectively.	Emission control devices shall be operated in accordance with ordinary and necessary practices.
2	6NYCRR 202-1.1	For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the Commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.	Reports will be submitted when required.
3	6NYCRR 200.7	The facility will maintain records to verify concentration of ammonia stored on-site is less than 19%	Ammonia information will be maintained.
4	6NYCRR 200.7	The facility shall install, calibrate, maintain and operate a continuous emissions monitors for ammonia. The 5.0 ppmvd corrected to 15% Oxygen limit applies during all turbine loads, all fuels being fired and all duct burner operations.	Continuous Emissions Monitoring (CEM). Any exceedances during the reporting period were reported in quarterly CEMS Performance and Excess Emissions Reports.
5	6NYCRR 201-1.4(a)	The owner or operator shall, within one year following the commencement of operation, submit a Title V permit application to the department (as per the requirements of paragraph 201-6.3(a)(3)). This application must include start-up, shutdown, and fuel switching data to establish enforceable combustion turbine start-up , shutdown and fuel switching emission rates for NOx, CO, and NH3, and confirm that such established rates would not result in a violation of applicable NAAQS. In the event that a minimum of 15 start-ups and 15 shutdowns, while firing distillate oil, does not occur within the one year period defined aboce, the owner or operator will be required to submit start-up and shutdown data, with an application for permit modification, once the 15 start-ups and shutdowns while firing distillate oil occur. Also, if a minimum of 15 fuel switches does not occur within the one year period defined above, the owner or operator will be required to submit fuel switching data with an application for permit modification once the 15 fuel switches occur.	The condition will be followed.
6	6NYCRR 201-6.3(a)(2)	The Title V permit application must be submitted to the Department within one year of commencement of operation of this facility.	The Title V will be submitted within one year of commencement of operation.
7	6NYCRR Subpart 201-7	The sum of emissions from the emission units specified in this permit shall not equal or exceed the following Potential To Emit (PTE) rate for each regulated contaminant: PM 2.5 = 190,000 punds per year	Emissions shall not exceed applicable limit.
8	6NYCRR Subpart 201-7	Under the authority of 6NYCRR Part 201-7,this condition contains an emission cap for the purpose of limiting emissions from the facility,emission unit or process to avoid being subject to the following applicable requirement(s) that the facility,emission unit or process would otherwise be subject to: 6NYCRR 231-2.2	Condition will be followed.
8 (continued)	6NYCRR 231-2.2	Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.	Operation will comply.
8 (continued)	6NYCRR 231-2.2	The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by the Subpart, during normal operating hours, for the purpose of determingin compliance with this and any other state and federal air pollution control requirements, regulations or law.	Recordkeeping requirements maintained at the facility for a period of 5 years.
8 (continued)	6NYCRR 231-2.2	On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.	Certification will be submitted.
8 (continued)	6NYCRR 231-2.2	The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.	Emission caps will be adhered to.
8 (continued)	6NYCRR 231-2.2	The Compliance Demonstration activity will be performed for the Facility. Regulated contaminants: CAS No: 0NY075-02-5 PM 2.5	Compliance demonstration shall be performed.
8 (continued)	6NYCRR 231-2.2	Monthly facility-wide emissions of PM-2.5 will be calculated as the sum of monthly PM-2.5 emissions from individual emission units or source groups. Emissions will be calculated based on heat input (or, equivalently, from fuel use) and emission factors as described below. Annual facility-wide emissions will then be determined at the end of each month on a rolling 12-month basis in order to demonstrate compliance with the 95 ton per year cap. The source groups included in the emissions cap along with their associated source indices and PM-2.5 emission factors, as used in subsequent equations, are listed in the following. For each source group, the parameter that will be monitored and the monitoring frequency. Continuous monitoring of heat input to the combustion turbines, auxiliary boiler and gas heaters will be provided by a digital data acquisition system.(DAS) 95 Tons Heat INput per year	Calculation shall be performed in accordance with the condition.

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Methods Used to Determine Compliance

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
9	6NYCRR 211.1	No person shall cause or allow emission of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any part	Condition shall be followed.
10	6NYCRR 231-5.3	Facility wide potential to emit VOC 65 tons/yr NOx 186.8 tons/yr	PTE Thresholds.
11	6NYCRR 231-5.4	Emission Unit:U-00001 Emission Point:EP001 Process:P1A; Emission Unit:U-00001 Emission Point:EP001Process:P2A; Emission Unit: U-00002 Emission Point: EP002 Regulated Contaminant(s): CASNo:0NY210-00-0 OXIDESOF NITROGENProcess:P01;Emission Unit: U-00002 Process:P02 EmissionPoint:EP002 LAER is 2.0 ppmvd corrected to 15%Oxygen. Will be achieved through use ofDry LowNOxcombustion technology and SCR. The facility shall install,calibrate,maintain,and operate a continuousemission monitor. The limit applies at all loads except during start up and shutdown.	Continuous Emissions Monitoring (CEM). Any exceedances during the reporting period were reported in quarterly CEMS Performance and Excess Emissions Reports.
12	6NYCRR 231-5.4	Emission Unit:U-00001 Process:P2A Emission Point:EP001; Emission Unit:U-00002 Process:P02 Emission Point:EP002; Regulated Contaminants): CASNo:ONY998-00-0 VOC LAER is 1.8 ppmvd corrected to 15% 02. Will be achieved using good combustion controls and an oxidation catalyst. Emission testing to be performed within 180 days of startup.	LAER Demonstration shall be performed.
13	6NYCRR 231-5.4	Emission Unit: U-00001 Emission Point:EP001 Process:P3A; Emission Unit: U-00002 Process:P03 Emission Point: EP002; Regulated Contaminant(s): CAS No:0NY210-00-0 OXIDES OF NITROGEN LAER is 6.0 ppmvd corrected to 15%Oxygen. Will be achieved using water injection and SCR. Thefacility shall install,calibrate,maintain,and operate a continuous emission monitor. The limit applies at all loads except during start up and shutdown.	Continuous Emissions Monitoring (CEM). Any exceedances during the reporting period were reported in quarterly CEMS Performance and Excess Emissions Reports.
14	6NYCRR 231-5.4	Emission Unit: U-00001 Process:P1A Emission Point:EP001;Emission Unit:U-00001 Process:P3A EmissionPoint:EP001;Emission Unit: U-00002 Process:P01 Emission Point:EP002;Emission Unit: U-00002 Process:P01 Emission Point:EP002 LAER is 0.7 ppmvd corrected to 15%02. Will be achieved using good combustion controls and anoxidation catalyst. Emission testing to be performed within 180 days of startup.	LAER Demonstration shall be performed.
15	6 NYCRR 231-5.5	The potential to emit Oxides of Nitrogen(NOx)from the facility has been limited to 187 tons per year.NOx emissions must be offset at a ratio of 1.15 to 1. A total of 216 tons of offsets will be required. The facility will identify the sources of offsets at a later time but prior to construction. There will be a separate noticing at that time.	Emission offset requirements shall be met.
16	6 NYCRR 231-5.5	The potential to emit Volatile Organic Compounds (VOC) from the facility has been limited to 65 tons per year. VOC emissions must be offset at a ratio of 1.15 to 1. A total of 75 tons ofoffsets will berequired. The facility will identify the sources ofoffsets at a later time but prior to construction. There will be a separate noticing at that time.	Emission offset requirements shall be met.
17	6 NYCRR 231-5.5	INVALID FORMAT OF CONDITION IN LIBRARY	NA
18	6NYCRR 231-7.5	Facility-Wide Potential to Emit: CO 344tons /yr S02 42 Tons/yr PM-2.5 95 tons/yr H2S04 13 tons/yr C02 2,164,438 tons/yr	Limits are in place.
19	6NYCRR 231-7.6	The combined cycle units shall have a heat rate of 7605 Btu/kW-hr (HHV)or less at ISO conditions without duct burner firing to achieve a design thermal efficiency of 57.4%(LHV). Within 90 days of start-up of the facility and on an annual basis thereafter,the owner or operator shall conduct a Department-approved heat rate performance test on a combined cycle unit while it is operating at maximum load to determine heat rate.	Intermittent Emissions Testing. Heat Rate testing was conducted on May 8th, 2018.
20	6NYCRR 231-7.5	The owner or operators of the facility shall calculate the annual emissions(based on a monthly rolling average)of Carbon Dioxide equivalent(C02e)emitted from the facility.The Emissions factors will be based on either performance tests (as required by the permit)or developed emission factors from authorized sources(i.e.-AP-42).Fuel usage shall be monitored by fuel flow meters.The information will be kept on-site and available for review for a minimum of five years. The facility will keep on-site records for up to five years.	Record Keeping/Maintenance Procedures. CO2 emissions are continuously calculated in the CEMS using 40 CFR 75 Appendixes D and G
21	6NYCRR231-7.6	This facility shall install, calibrate, maintain and operate a continuous emissions monitor for oxides of nitrogen. This limit shall apply only during periods of start-up (30 minutes per occurrence). Emissions in excess of this limit shall be reported quarterly through the facility's excess emissions report. All records shall be maintained by the applicant at their Poletti facility for a minimum of five years. Manufacturer Name/Model Number: NOx Analyzer Parameter Monitored: OXIDES OF NITROGEN Upper Permit Limit: 15.0 pounds	Record Keeping/Maintenance Procedures. CO2 emissions are continuously calculated in the CEMS using 40 CFR 75 Appendixes D and G
22	6NYCRR 231-7.6	BACT FUEL SULFUR LIMIT OF0.0015% BY WEIGHT.	Work Practice Involving Specific Operations. ULSD Certifications on files for deliveries received.
23	6NYCRR 231-7.6	BACT is 0.0022lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.	BACT demonstration shall be performed.
24	6NYCRR 231-7.6	BACT is 0.0007lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.	BACT demonstration shall be performed.
25	6NYCRR 231-7.6	BACT is 0.0005 lb/mmBtu. Will be achieved through use of low sulfur Emission testing to be performed within 180 daysof startup.	BACT demonstration shall be performed.
26	6NYCRR 231-7.6	BACT is0.0015 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.	BACT demonstration shall be performed.
27	6NYCRR231-7.6	BACT is 0.0368 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.	BACT demonstration shall be performed.
28	6NYCRR 231-7.6	BACT is 3.4 ppmvd corrected to 15% Oxygen. Will be achieved through good combustion controlsand anoxidation catalyst. The facility shall install,calibrate,maintain,and operate a continuous emission monitor. The limit applies at all loads except during start up and shutdown.	Continuous Emissions Monitoring (CEM). Any exceedances during the reporting period were reported in quarterly CEMS Performance and Excess Emissions Reports.
29	6NYCRR231-7.6	BACT is 0.0073 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.	BACT demonstration shall be performed.
30	6NYCRR231-7.6	BACT is 2.0 ppmvd corrected to 15% Oxygen. Will be achieved through good combustion controls and anoxidation catalyst. The facility shall install,calibrate,maintain,and operate a continuous emission monitor. The limit applies at all loads except during start up and shutdown.	Continuous Emissions Monitoring (CEM). Any exceedances during the reporting period were reported in quarterly CEMS Performance and Excess Emissions Reports.

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Methods Used to Determine Compliance

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
31	6NYCRR 243-1.6(a)	The CAIR designated representative of each CAIR NOx Ozone Season source shall: (i)submit to the department a complete CAIR permit application under section 243-3.3 in accordance with the deadlines specified insection 243-3.2;and (ii)submit in a timely manner any supplemental information that the department determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit. The owners and operators of each CAIR NOx Ozone Season source shall have a CAIR permit issued by the department under Subpart 243-3 for the source and operate the source and the unit in compliance with such CAIR permit.	The AAR of the NOx Budget permit submitted applicable applications for the facility in accordance with 243-1.6.
32	6NYCRR 243-1.6(b)	The emissions measurements recorded and reported in accordance with Subpart 243-8 shall be used to determine compliance by each CAIR NOx Ozone Season source with the CAIR Nox Ozone Season emissions limitation under subdivision(c)of this section.	The Continuous Emission Monitoring System operates in compliance with 40 CFR Part 75. Electronic Data Reports (EDR) are submitted electronically each quarter.
33	6NYCRR 243-1.6(c)	As of the allowance transfer deadline for a control period,the owners and operators of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall hold,in the source's compliance account,CAIR NOx Ozone Season allowances available for compliance deductions for the control period under section243-6.5(a)in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOx Ozone Season units at the source,as determined in accordance with Subpart243-8. The CAIR NOx ozone season is the period beginning May 1 of a calendar year,except as provided in section 243-1.6(c)(2),and ending on September 30 of the same year,inclusive.	The CAIR NOx Ozone Season compliance account shall meet the requirements of Subpart 243-1.6(c)2, 243-6.5(a), 243-8 .
34	6NYCRR 243-1.6(d)	If a CAIR NOx Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NOx Ozone Season emissions limitation,then: (1)the owners and operators of the source and each CAIR NOx Ozone Season unit at the source shall surrender the CAIR NOx Ozone Season allowances required for deduction under section 243-6.5(d)(l)and pay any fine,penalty,or assessment or comply with any other remedy imposed,for the same violations,under the Actor applicable State law;and (2)each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart,the Act,and applicable State law.	The CAIR NOx Ozone Season compliance account shall meet the requirements of Subpart 243-6.5(d).
35	6 NYCRR 243-1.6(e)	Unless otherwise provided,the owners and operators of the CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of five years from the date the document is created.This period may be extended for cause,at any time before the end of five years,in writing by the department or the Administrator.(i)The certificate of representation undersection 243-2.4for the CAIR designated representative for the source and each CAIR NOx Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because ofthe submission of a new certificate of representation under section 243-2.4 changing the CAIR designated representative.ii)All emissions monitoring information,in accordance with Subpart243 8,provided that to the extent that Subpart 243-8 provides for a three-year period for record keeping,the three-year period shall apply.(iii)Copies of all reports,compliance certifications,and other submissions and all records made or required under the CAIR NOx Ozone Season Trading Program. (iv)Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Ozone Season Trading Program or to demonstrate compliance with the requirements of theCAIR NOx Ozone SeasonTrading Program.	The documents will be kept onsite at the facility.
36	6NYCRR 243-2,1	Except as provided under section 243-2.2,each CAIR NOx Ozone Season source,including all CAIR NOx Ozone Season units at the source,shall have one and only one CAIR designated representative,with regard to all matters under the CAIR NOx Ozone Season Trading Program concerning thesource or any CAIR NOx Ozone Season unitat the source. The CAIR designated representative of theCAIR NOx Ozone Season source shall be selected by an agreement binding on the owners and operators of the source and all CAIR NOx Ozone Season units at the source and shall act in accordance with the certification statement insection 243-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under section 243-2.4,the CAIR designated representative of the source shall represent and,by his or her representations,actions,in actions,or submissions,legally bind each owner and operator of the CAIR NOx Ozone Season source represented and each CAIR NOx Ozone Season unit at the source in all matters pertaining to the CAIR NOx OzoneSeason Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators.The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department,the Administrator,or a court regarding the source or unit. No CAIR permit will be issued,no emissions data reports will be accepted,and no CAIR NOx Ozone Season Allowance Tracking System account will be established for a CAIR NOx Ozone Season unit at a source,until the Administrator has received a complete certificate of representation under section 243-2.4 for a CAIR designated representative of the source and the CAIR NOx Ozone Season units at the source. Each submission under the CAIR NOx Ozone Season Trading Program shall be submitted signed,and certified by the CAIR designated representative for each CAIR NOx Ozone Season source on behalf of which the submission is made.Each such submission shall include the following certification statement by the CAIR designated representative:"I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made.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. Based on my inquiry of those individuals with primary responsibility for obtaining the 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 off one or imprisonment."	The CAIR NOx Ozone Season representative will comply with 243-2.1 and will submit the applicable documents as required.
37	6NYCRR 243-2.4	Unless otherwise required by the department or the Administrator,documents of agreement referred to in the certificate of representation shall not be submitted to the department or the Administrator.Neither the department nor the Administrator shall be under any obligation to review or evaluate the sufficiency of such documents,if submitted.	The department and Administrator are not obligated to review documents referred to in the certificate of representation.
38	6NYCRR 243-8.1	The owners and operators,and to the extent applicable,the CAIR designated representative,of a CAIR NOx Ozone Season unit,shall comply with the monitoring,recordkeeping,and reporting requirements as provided in this Subpart and in Subpart H of 40CFR Part75.For purposes of complying with such requirements,the definitions insection 243-1.2and in 40CFR 72.2 shall apply,and the terms "affected unit," "designated representative," and "continuous emission monitoring system"(or"CEMS")in 40CFR Part75 shall be deemed to refer to the terms"CAIR NOx Ozone Season unit,""CAIR designated representative," and "continuous emission monitoring system"(or"CEMS")respectively,as defined insection 243-1.2.The owner or operator of a unit that is not a CAIR NOx Ozone Season unit but that is monitored under 40CFR 75.72(b)(2)(ii)shall comply with the same monitoring,recordkeeping,and reporting requirements as a CAIR NOx Ozone Season unit. 'Requirements for installation,certification,and data accounting.'The owner or operator of each CAIR NOx Ozone Season unit shall: (1)install all monitoring systems required under this Subpartfor monitoring NOx mass emissions and individual unit heat input(including all systems required to monitor NOx emission rate,NOxconcentration,stack gas moisture content,stack gas flow rate,C02 or 02 concentration,and fuel flow rate,as applicable,in accordance with 40CFR75.71 and 40CFR 75.72); (2)successfully complete all certification tests required under section 243-8.2 and meet all other requirements of this Subpart and 40CFR Part75 applicable to the monitoring systems under paragraph(a)(1)of this section;and (3)record,report,and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section.	The owner and operators will install and certify the required monitoring systems. The emission data will be recorded, reported and quality assured.

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
39	6NYCRR 243-8.1	No owneror operator of a CAIR NOx Ozone Season unit shall use any alternative monitoring system,alternative reference method,or any other alternative to any requirement of this Subpart without having obtained prior written approval in accordance with section243-8.6. No owner or operator of a CAIR NOx Ozone Season unit shall operate the unit so as to discharge,or allow to be discharged,NOx emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of this Subpart and 40CFR Part75. No owner or operator of a CAIR NOx Ozone Season unit shall disrupt the continuous emission monitoring system,any portion there of,or any other approved emission monitoring method,and there by avoid monitoring and recording NOx mass emissions discharged into the atmosphere or heat input,except for periods of recertification or periods when calibration,quality assurance testing,or maintenance is performed in accordance with the applicable provisions of this Subpart and 40CFR Part75. No owner or operator of a CAIR NOx Ozone Season unit shall retire or permanently discontinue use of the continuous emission monitoring system,any component there of,or any other approved monitoring system under this Subpart,except under anyone of the following circumstances: (i)during the period that the unit is covered by an exemption under section 243-1.5 that is in effect; (ii)the owner or operator is monitoring emissions from the unit with another certified monitoring system approved,in accordance with the applicable provisions of this Subpart and 40CFR Part 75,by the department for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or (iii)the CAIR designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with section 243-8.2(d)(3)(i).	The facility utilizes a certified CEMS to monitor emission in accordance with 243-8.1 and 40 CFR Part 75. AAR submits information in accordance with applicable requirements.
40	NYCRR 243-8.5(d)	The CAIR designated representative shall submit quarterly reports,as follows: If the CAIR NOx Ozone Season unit is subject to an Acid Rain emissions limitation or a CAIR NOx emissions limitation or if the owner or operator of such unit chooses to report on an annual basis under this Subpart,the CAIR designated representative shall meet the requirements of Subpart H of 40CFR Part75(concerning monitoring of NOx mass emissions)for such unit for the entire year and shall report the NOx mass emissions data and heat input data for such unit,in an electronic quarterly report in a format prescribed by the Administrator,for each calendar quarter beginning with: (i)for a unit that commences commercial operation before July 1,2007,the calendar quarter covering May 1,2008 through June30,2008; (ii)for a unit that commences commercial operation on or after July 1,2007,the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 243-8.1(b),unless that quarter is thethird or fourth quarter of 2007 or the first quarter of 2008,in which case reporting shall commence in the quarter covering May 1,2008 through June 30,2008. The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end ofthe calendar quarter covered by the report. Quarterly reports shall be submitted in the manners pecified in 40CFR75.73(f). For CAIR NOx Ozone Season units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Annual Trading Program,CAIR SO2 Trading Program,or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units(6NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable,in addition to the NOx mass emission data,heat input data,and other information required by this Subpart.	Continuous Emissions Monitoring (CEM). Quarterly reports were submitted electronically to EPA by the reporting deadline.
41	NYCRR 243-8.5(e)	TheCAIR designated representative shall submit to the Administrator a compliance certification (inaformat prescribed by the Administrator)in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all ofthe unit's emissions are correctly and fully monitored.The certification shall state that: (1)the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40CFR Part75,including the quality assurance procedures and specifications; (2)for a unit with add-on NOx emission controls and for all hours where NOx data are substituted in accordance with 40CFR 75.34(a)(1),the add-on emission controls were operating with in the range of parameters listed in the quality assurance/quality control program under appendix B to 40CFR Part75 and the substitute data values do not systematically underestimate NOx emissions; and (3)for a unit that is reporting on a control period basis under subparagraph(d)(2)(ii)ofthis section,the NOx emission rate and NOx concentration values substituted for missing data under Subpart D of 40CFR Part75 are calculated using only values from a control period and do not systematically under estimate NOx emissions.	Reports are submitted in accordance with 40 CFR Part 75.
42	NYCRR Subpart244-1	1)As of midnight of March 1,or midnight of the first business day thereafter if March 1 is not a business day,the owners and operators shall hold,in their compliance account,Clean Air Interstate Rule(CAIR)NOx allowances available for compliance deductions for the previous control period(January 1 through December31),in an amount not less than the total tons of nitrogen oxides emissions from all CAIR NOx units at the source during that control period. A CAIR NOx allowance shall not be deducted for a control period in a calendar year before the yearfor which the CAIR NOx allowance was allocated. [244-1.6(c)(1),244-1.2(b)(5), 244-1.2(b)(36),244-1.6(c)(3)] 2) The owners and operators shall hold in their compliance account,CAIR NOx allowances available for compliance deductions for the control period starting on the later of January 1, 2009 orthe deadline for meeting a CAIR NOx unit's monitor certification requirements under section 244-8.1(b)(1),(2),or(5)and for each control period thereafter. [244-1.6(c)(2)] 3)If a CAIR NOx source emits nitrogen oxides during any control period in excess of the CAIR NOx emissions limitation,the owners and operators of the CAIR NOx source shall surrender the CAIR NOx allowances required for deduction under 6NYCRR Part 244-6.5(d)(l)and pay any fine,penalty,or assessment or comply with any other remedy imposed,for the same violations,under the Actor applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this permit,the Act,and applicable State law. [(244-1.6(d)] 4)Unless otherwise provided,the ownersand operators ofthe CAIR NO source shallkeep onsite each ofthe following documents for a period of five years from the date the document is created.This period may be extended for cause,at any time before the end of five years,in writing by the department or the Administrator. [244-1.6(e)] (i)The certificate of representation under 6NYCRR Part 244-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation;provided that the certificate and documents shall be retained onsite at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part244-2.4 changing the CAIR designated representative. (ii)All emissions monitoring information,in accordance with 6NYCRR Part 244-8,provided that to the extent that 6NYCRR Part244-8 provides for a three year period for record keeping, the three year period shall apply. (iii)Copies of all reports,compliance certifications,and other submissions and all records made or required under the CAIR NOx Annual Trading Program. (iv)Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Annual Trading Program.	The documents will be kept onsite at the facility.
43	NYCRR Subpart244-2	1) Each Clean AirInterstate Rule(CAIR) NOxsource shall have one CAIR designated representative and may have one alternate representative,as per 6NYCRRPart244-2.2,with regard to all matters under the CAIR NOx Annual Trading Program. The CAIR designated representative shall be selected by an agreement binding on the owners and operators of the source and act in accordance with the certification statement in 6NYCRR Part244-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part244-2.4,the CAIR designated representative of the source shall be present and,by his or her representations,actions, inactions,or submissions,legally bind each owner and operator ofthe CAIR NOx source represented in all matters pertaining to the CAIR NOx Annual Trading Program,notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department,the Administrator,or a court regarding the source. [244-2.1(a),(b)&(c)] (2)Each submission under the CAIR NOx Annual Trading Program shall besubmitted,signed, and certified by the CAIR designated representative for each CAIR NOx source on behalf of which the submission is made.Each such submission shall include the following certification statement by the CAIR designated representative:"I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made.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.Based on my inquiry of those individuals with primary responsibility for obtaining the 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 one or imprisonment."[244-2.1(e)]	Reports are submitted in accordance with 40 CFR Part 75.

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
44	6NYCRR Subpart244-8	Regulated Contaminants): CASNo:0NY210-00-0 OXIDES OF NITROGEN (1) The owners and operators,and to the extent applicable,the CAIR designated representative shall comply with all recordkeeping and reporting requirements in this condition,the applicable recordkeeping and reporting requirements under 40CFR75,and the requirements of 6NYCRR Part244-2.1(e)(1). (2)The CAIR designated representative shall submit quarterly reports of the the NOx mass emissions data and heat input data for each CAIR NOx unit,in an electronic quarterly report in a format prescribed by the Administrator,for each calendar quarter beginning with the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under 6NYCRR Part244-8.1(b),unless that quarter is the third or fourth quarter of 2007,in which case reporting shall commence in the quarter covering January 1,2008 through March31, 2008. (3)The CAIR designated representative shall submit each quarterly report to the Administrator within 30days following the end of the calendar quarter covered by the report.Quarterly reports shall be submitted in the manner specified in 40CFR 75.73(f). (4)For CAIR NOx units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Ozone Season Trading Program,CAIRS02 Trading Program,or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units(6NYCRR Part246),quarterly reports shall include the applicable data and information required by Subparts F through I of 40CFR Part75 as applicable,in addition to the NOx mass emission data,heat input data,and other information required by this Subpart. (5)'Compliance certification.'The CAIR designated representative shall submit to the Administrator a compliance certification(in a format prescribed by the Administrator)in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored.The certification shall state that: (i)the monitoring data submitted were recorded in accordance with the applicable requirements of 6NYCRR Part244 and 40 CFR Part75, including the quality assurance procedures and specifications; and (ii)for a unit with add-on NOx emission controls and for all hours where NOx data are substituted in accordance with40CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/qualitycontrol program under appendix B to 40 CFR Part75 and the substitute data values do not systematically underestimate NOx emissions. (6)Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR part75,data shall be substituted using the applicable missing data procedures in Subpart D or Subpart H of,or appendix D or appendix E to 40CFR part 75.[244-8.3(a)] (7) Whenever the owner or operator makes a replacement,modification, or change in any certified continuous emission monitoring system under 6NYCRR Part244-8.1(a)(1)that may significantly affect the ability of the system to accurately measure or record NOx mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40CFR 75.21 or appendix B to40CFR Part75,the owner or operator shall recertify the monitoring system in accordance with 40CFR75.20(b).Furthermore,whenever the owner or operator makes are placement,modification,or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile,the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change,in accordance with 40CFR 75.20(b).Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer,complete replacement of an existing continuous emission monitoring system,or change in location or orientation of the sampling probe or site. Any fuel flowmeter system,and any excepted NOx monitoring system under appendix E to 40CFR part75,under 6NYCRR Part244-8.1(a)(1)are subject to the recertification requirements in 40CFR75.20(g)(6). [224-8.2(d)(2)	Continuous Emissions Monitoring (CEM). Quarterly reports were submitted electronically to EPA by the reporting deadline.
45	NYCRR Subpart245-1	1) As of midnight of March 1,or midnight of the first business day thereafter(if March 1 is not a business day)for a control period,the owners and operators of each Clean Air Interstate Rule (CAIR)S02 source shall hold,in the source's compliance account,a tonnage equivalent in CAIR S02 allowances available for compliance deductions for the control period(January 1 through December31)not less than the tons of total sulfurdioxide emissions for the control period from all CAIR S02 units at the source. A CAIR S02 allowance shall not be deducted, for compliance with the requirements under paragraph(2)of this section,for a control period in a calendar year before the year for which the CAIR S02 allowance was allocated. [[245-1.2(b)(5),245-1.6(c)(1),245-1.2(b)(36),245-1.6(c)(3)] 2) The owners and operators shall hold in their compliance account,CAIR SO allowances available for compliance deductions for the control period starting on the later of January 1, 2010 or the deadline for meeting a CAIR S02 unit's monitor certification requirements under section 245-8.1(b)(1),(2),or(5)and for each control period thereafter.[245-1.6(c)(2)] 3) If a CAIR S02 source emits sulfur dioxide during any control period in excess ofthe CAIR S02 emissions limitation,the owners and operators of the source shall surrender the CAIR S02 allowances required for deduction under 6NYCRR Part245-6.5(d)(l)and pay any fine,penalty, or assessment or comply with any other remedy imposed,for the same violations,under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart,the Act,and applicable State law. [[245-1.6(d)] 4) Unless otherwise provided,the owners and operators ofthe CAIR S02 source shall keep on site at the source each of the following documents for a period of five years from the date the document is created.This period maybe extended for cause,at any time before the end of five years,in writing by the department or the Administrator: [245-1.6(e)] (i)The certificate of representation under 6NYCRR Part245-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth ofthe statements in the certificate of representation;provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part245-2.4 changing the CAIR designated representative. (ii)All emissions monitoring information,in accordance with 6NYCRR Part245-8,provided that to the extent that 6NYCRR Part245-8 provides for a three-year period for recordkeeping, the three-year period shall apply. (iii)Copies of all reports,compliance certifications,and other submissions and all records made or required under the CAIR S02 Trading Program. (iv)Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR S02 Trading Program or to demonstrate compliance with the requirements of the CAIR S02 Trading Program.	March 1st is the deadline for CAIR SO2 allowances to be held for the control period.
46	6NYCRR Subpart245-2	1) Each CAIR S02 source shall have one and only one CAIR designated representative and may have one alternate representative,as per 6NYCRRPart245-2.2,with regard to all matters under the CAIR S02 Trading Program. The CAIR designated representative of the CAIR S02 source shall be selected by an agreement binding on the owners and operators of the source and all CAIR S02 units at the source and shall act in accordance with the certification statement in 6NYCRR Part245-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part245-2.4,the CAIR designated representative of the source shall represent and,by his or her representations,actions,in actions,or submissions,legally bind each owner and operator of the CAIR S02 source represented and each CAIR S02 unit at the source in all matters pertaining to the CAIR S02 Trading Program,notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department,the Administrator,or a court regarding the source or unit. [245-2.1(a),(b)&(c)] (2)Each submission under the CAIR S02 Trading Program shall be submitted,signed,and certified by the CAIR designated representative for each CAIR S02 source on behalf of which the submission is made.Each such submission shall include the following certification statement by the CAIR designated representative:"I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made.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.Based on my inquiry of those individual switch primary responsibility for obtaining the 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." [245-2.1(e)]	The CAIR SO2 designated representative will comply with 245-2 and will submit the applicable documents as required.

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
47	NYCRR Subpart 245-8	Regulated Contaminant(s): CAS No:007446-09-5 SULFUR DIOXIDE 1) The owners and operators, the Clean Air Interstate Rule (CAIR) designated representative, of a CAIR SO2 unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6NYCRR Part 245-8 and in 40CFR Part 75, Subparts F and G. For purposes of complying with such requirements, the definitions shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40CFR Part 75 shall be deemed to refer to the terms "CAIR SO2 unit," "CAIR designated representative," and "continuous emission monitoring ystem" (or "CEMS") respectively, as defined in section 245-1.2. The owner or operator of a unit that is not a CAIR SO2 unit but that is monitored under 40CFR 75.16(b)(2) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR SO2 unit. [245-8.1] 2) The owner or operator of each CAIR SO2 unit shall: [245-8.1(a)] (i) install all monitoring systems required under this Subpart for monitoring SO2 mass emissions and individual unit heat input (including all systems required to monitor SO2 concentration, stack gas moisture content, stack gas flow rate, CO2 or O2 concentration, and fuel flow rate, as applicable, in accordance with 40CFR 75.11 and 40CFR 75.16); (ii) successfully complete all certification tests required under Part 245-8.2 and meet all other requirements of this section and 40 CFR Part 75 applicable to the monitoring systems under this section; (iii) record, report, and quality-assure the data from the monitoring systems under paragraph of this section. 3) The owner or operator shall meet the monitoring system certification and other requirements of section 245-8.1(a)(1) and (2) on or before the following dates. The owner or operator shall record, report, and quality-assure the data from the monitoring systems under section 245-8.1(a)(1) on and after the following dates. [245-8.1(b)] (i) For the CAIR SO2 unit that commences commercial operation before July 1, 2008, by January 1, 2009. (ii) For the CAIR SO2 unit that commences commercial operation on or after July 1, 2008, by the later of the following dates: January 1, 2009; or 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which the unit commences commercial operation. 4) Whenever the owner or operator makes a replacement, modification, or change in any certified continuous emission monitoring system under section 245-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record SO2 mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes are placement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flow meter system under section 245-8.1(a)(1) is subject to the recertification requirements in 40CFR 75.20(g)(6). [245-8.2(d)(2)] 5) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable missing data procedures in Subpart D of or appendix D to 40CFR Part 75. [245-8.3(a)] 6) The CAIR designated representative shall comply with all recordkeeping and reporting requirements in section 245-8.3, the applicable record keeping and reporting requirements in Subparts F and G of 40CFR Part 75, and the requirements of section 245-2.1(e)(1). [245-8.5(a)] 7) The owner or operator of a CAIR SO2 unit shall comply with requirements of 40CFR 75.62 for monitoring plans. [245-8.5(b)]	Continuous Emissions Monitoring (CEM). Quarterly reports were submitted electronically to EPA by the reporting deadline.
48	40CFR 60.4, NSPS Subpart A	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address: Director, Division of Enforcement and Compliance Assistance USEPA Region 2 290 Broadway, 21st Floor New York, NY 10007-1866 Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address: NYSDEC Bureau of Quality Assurance 625 Broadway Albany, NY 12233-3258	Applicable notifications and reports have been and will be made in the future in accordance with this condition.
49	40CFR 60.7(a), NSPS Subpart A	Any owner or operator subject to this part shall furnish the Administrator with the following information: 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date; 3) a notification of the actual date of initial start up, post marked within 15 days after such date; 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. Administrator may request additional information regarding the change; 5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date; 6) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date.	Construction date notifications will be furnished to the Administrator as required in Part 40 CFR 60.7(a) and NSPS Subpart A
50	40CFR 60.7(b), NSPS Subpart A	Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is in operative.	Emissions are monitored and recorded by a certified CEMS following all applicable qa/qc requirements. Reports are filed in accordance with 201-1.4 time frames during periods of noncompliance as a result of startup, shutdown, and equipment malfunction.
51	40CFR 60.7(f), NSPS Subpart A	The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.	The Facility files will maintained on site for two years following the date.
52	40CFR 60.8(a), NSPS Subpart A	Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.	Performance testing will begin within 60 days of reaching maximum production rate, but not later than 180 days after initial startup.
53	40CFR 60.8(b), NSPS Subpart A	Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40CFR60 or by alternative methods and procedures approved by the Administrator.	Performance testing will be conducted as per 40 CFR 60
54	40CFR 60.8(d), NSPS Subpart A	The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.	30 days prior notice will be given for performance testing.
55	40CFR 60.8(e), NSPS Subpart A	The following performance testing facilities shall be provided during all tests: 1) sampling ports adequate for tests methods applicable to such facility; 2) a safe sampling platform; 3) a safe access to the sampling platform; and 4) utilities for sampling and testing equipment.	Safe Conditions and adequate ports and utilities will be present during performance testing.
56	40CFR 60.8(F), NSPS Subpart A	Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.	Performance test will have three runs at the specified duration.
57	40CFR 60, NSPS Subpart IIII	Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40CFR60 Subpart IIII.	Facility will comply.
58	40CFR 60.4335, NSPS Subpart KKKK	As an alternative to continuously monitoring the water or steam to fuel ratio, the facility shall install, certify, maintain, and operate a continuous emission monitoring system (CEMS) consisting of a NOx monitor and a diluents gas (oxygen or carbon dioxide) monitor, to determine hourly NOx emissions in parts per million (ppm).	Record Keeping /Maintenance Procedures. NOX emissions are continuously monitor in the CEMS .
59	40CFR 60.4375(a), NSPS Subpart KKKK	For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content, reports of excess emissions and monitor downtime shall be submitted in accordance with 40CFR60.7 (c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.	Record Keeping / Maintenance Procedures. The fuel sulfur content is monitored periodically in accordance with 40 CFR 75, Appendix D. Excess emissions were submitted by the reporting deadline.
60	40CFR Part 72	This facility is subject to the Title IV Acid Rain Regulations found in 40CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.	The facility will abide by the Acid Rain Permit.
61	6NYCRR 227-1.3(a)	No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40CFR60.	Monitoring of Process or Control Device Parameter as Surrogate. Observations for visible emissions were performed while operating and recorded.

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Methods Used to Determine Compliance

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
62	6NYCRR 227-1.3(a)	No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity(six minute average),except for one-six-minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation. The permittee will conduct observations of visible emissions from the emission unit,process, etc.to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate,in a timely manner,any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard. The permittee shall investigate the cause,make any necessary corrections,and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue,the permittee will conduct a Method 9 assessment with in the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC ifthe method 9 test indicates that the opacity standard is not met. Records of visible emissions observations(or any follow-up method 9 tests),investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition,it shall provide written notice to the permittee stating the inadequacies,and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.	Method 9 visual observations are conducted during testing on the unit..
63	40CFR60.43c(a), NSPS Subpart DC	On and after the date on which the initial performance test is completed or required to be completed under §60.8,whichever date comes first,no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity(6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. The facility shall perfom a method 9 evaluation.	Method 9 visual observations are conducted during testing on the unit..
64	40CFR60.48c(a), NSPS Subpart DC	The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup,and actual startup, as provided by 40CFR60.7 of this part.This notification shall include: (1)The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility. (2)If applicable,a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40CFR60.42c., or 40CFR60.43c. (3)The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.	Anticipated: Date of construction, anticipated startup, design heat, annual fuel usage has been submitted as required 40CFR60.48c(a), NSPS Subpart DC
65	6NYCRR231-5.4	Emission Unit:U-00003 Process:P3B Regulated Contaminant(s): CAS No:0NY998-00-0 CAS No:0NY210-00-0 VOC OXIDES OF NITROGEN Operation of the Auxiliary boiler is restricted to 2000 hours per year. Facility will maintain usage records and fuel consumption.	Aux Boiler is restricted to <2,000 hours per year, usage records maintained at the facility.
66	6NYCRR 231-5.4	Emission Unit: U-00003 Process:P3B Regulated Contaminants): CAS No:0NY998-00-0 VOC LAER is 0.0088lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed within 180 days of startup.	Emissions testing to be performed within 180 days of startup.
67	6NYCRR 231-5.4	Emission Unit: U-00003 Process:P3B Regulated Contaminant(s): CAS No:0NY210-00-0 OXIDES OF NITROGEN LAER is 0.0450 lb/mmBtu. Will be achieved using low NOx burners and flue gas recirculation. Emission testing to be performed within 180 days of startup.	Emissions testing to be performed within 180 days of startup.
68	6NYCRR231-7.6	Emission Unit: U-00003 Process:P3B Regulated Contaminants): CAS No:0NY075-00-0 PARTICULATES CAS No:0NY075-00-5 PM-10 BACT is 0.0063 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed within 180 days of startup.	Emissions testing to be performed within 180 days of startup.
69	6NYCRR 231-7.6	Emission Unit: U-00003 Process:P3B Regulated Contaminants): CAS No:007446-09-5 SULFUR DIOXIDE BACT is 0.0022 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed within 180 days of startup.	Emissions testing to be performed within 180 days of startup.
70	6NYCRR 231-7.6	Emission Unit:U-00003 Process:P3B Regulated Contaminant(s): CAS No:007664-93-9 SULFURIC ACID BACT is 0.0002lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed within 180 days of startup.	Emissions testing to be performed within 180 days of startup.
71	6NYCRR 231-7.6	Emission Unit:U-00003 Process:P3B Regulated Contaminant(s): CAS No:000630-08-0 CARBON MONOXIDE BACT is 0.0721 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed within 180 days of startup.	Emissions testing to be performed within 180 days of startup.
72	40CFR60.48c(g)(2), NSPS Subpart DC	Emission Unit: U-00003 Process:P3B Emission Source: AUX01 As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1),the owner or operator of an affected facility that combusts only natural gas,wood,fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO2 Standard,fuels not subject to an emissions standard(excluding opacity),or a mixture of these fuels may elect to record and maintain records of the amountof each fuel combusted during each calendar month.	Fuel shall be tracked.
73	6NYCRR 231-5.4	Emission Unit:U-00004 Process:P04 Regulated Contaminants): CAS No:0NY998-00-0 VOC LAER is 0.0331 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.	Emissions testing to be performed upon request of the Department.
74	6NYCRR 231-5.4	Emission Unit: U-00004 Process:P04 Regulated Contaminant(s): CAS No:0NY210-00-0 OXIDES OF NITROGEN LAER is 4.77 grams per brake horsepower-hour. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.	Emissions testing to be performed upon request of the Department.
75	6NYCRR 231-7.6	Emission Unit: U-00004 Process:P04 Regulated Contaminant(s): CAS No:0NY075-00-0 PARTICULATES CAS No:0NY075-00-5 PM-10 BACT is 0.03 g/hp-hr. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.	Emissions testing to be performed upon request of the Department.
76	6NYCRR 231-7.6	Emission Unit: U-00004 Process:P04 Regulated Contaminant(s): CAS No:007446-09-5 SULFUR DIOXIDE BACT is 0.0014lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.	Emissions testing to be performed upon request of the Department.
77	6NYCRR 231-7.6	Emission Unit:U-00004 Process:P04 Regulated Contaminant(s): CAS No:007664-93-9 SULFURIC ACID BACT is 0.00003 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.	Emissions testing to be performed upon request of the Department.
78	6NYCRR 231-7.6	Emission Unit: U-00004 Process:P04 Regulated Contaminants): CASNo:000630-08-0 CARBON MONOXIDE BACT is 0.45 g/hp-hr. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department.	Emissions testing to be performed upon request of the Department.
79	6NYCRR 231-5.4	Emission Unit: U-00005 Process:P05 Regulated Contaminant(s): CAS No:0NY210-00-0 OXIDES OF NITROGEN LAER is 0.857 pounds per million Btus. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.	Emissions testing to be performed upon request of the Department.
80	6NYCRR231-5.4	Emission Unit: U-00005 Process:P05 Regulated Contaminant(s): CAS No:0NY998-00-0 VOC LAER is 0.3612lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.	Emissions testing to be performed upon request of the Department.
81	6NYCRR 231-7.6	Emission Unit: U-00005 Process:P05 Regulated Contaminant(s): CAS No:000630-08-0 CARBON MONOXIDE BACT is 0.75 lbs/mmBtus.. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department.	Emissions testing to be performed upon request of the Department.
82	6NYCRR231-7.6	Emission Unit:U-00005 Process:P05 Regulated Contaminant(s): CAS No:0NY075-00-0 PARTICULATES CAS No:0NY075-00-5 PM-10 BACT is 0.043 lb/mmBtus.. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department.	Emissions testing to be performed upon request of the Department.
83	6NYCRR 231-7.6	Emission Unit: U-00005 Process:P05 Regulated Contaminants): CAS No:007446-09-5 SULFURDIOXIDE BACT is 0.0014 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department..	Emissions testing to be performed upon request of the Department.
84	6NYCRR 231-7.6	Emission Unit:U-00005 Process:P05 Regulated Contaminant(s): CAS No:007664-93-9 SULFURIC ACID BACT is 0.00003 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department..	Emissions testing to be performed upon request of the Department.
85	6NYCRR 231-5.4	Emission Unit: U-00006 Process:P06 Regulated Contaminant(s): CAS No:0NY210-00-0 OXIDES OF NITROGEN LAER is 0.058 pounds per million Btus for each individual gas heater. Will be achieved using forced draft low NOx Burner. Emission testing to be performed upon request of the Department.	Emissions testing to be performed upon request of the Department.
86	6NYCRR 231-5.4	Emission Unit: U-00006 Process:P06 Regulated Contaminants): CAS No:0NY998-00-0 VOC LAER is 0.011 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.	Emissions testing to be performed upon request of the Department.
87	6NYCRR 231-7.6	Emission Unit:U-00006 Process:P06 Regulated Contaminant(s): CAS No:007664-93-9 SULFURIC ACID BACT is 0.0002lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department..	Emissions testing to be performed upon request of the Department.

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
88	6NYCRR 231-7.6	Emission Unit: U-00006 Process:P06 Regulated Contaminant(s): CAS No:000630-08-0 CARBON MONOXIDE BACT is 0.084 lbs/mmBtus.. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department..	Emissions testing to be performed upon request of the Department.
89	6NYCRR 231-7.6	Emission Unit:U-00006 Process:P06 Regulated Contaminant(s): CAS No:0NY075-00-0 PARTICULATES CAS No:ONY075-00-5 PM-10 BACT is 0.0076lb/mmBtus.. Will be achieved using low sulfur fuel. Emission testing to be performed at the request ofthe Department-	Emissions testing to be performed upon request of the Department.
90	6NYCRR 231-7.6	Emission Unit: U-00006 Process:P06 Regulated Contaminant(s): CAS No:007446-09-5 SULFUR DIOXIDE BACT is 0.0022lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed at the request of the Department-	Emissions testing to be performed upon request of the Department.
91	ECL 19-0301	Emissions of the following contaminants are subject to contaminant specific requirements in this permit. CAS No:000124-38-9 Name:CARBON DIOXIDE CAS No:000630-08-0 Name:CARBON MONOXIDE CAS No:007446-09-5 Name:SULFUR DIOXIDE CAS No:007664-41-7 Name:AMMONIA CAS No:007664-93-9 Name:SULFURIC ACID CAS No:0NY075-00-0 Name:PARTICULATES CASNo:0NY075-00-5 Name:PM-10 CAS No:ONY075-02-5 Name:PM 2.5 CAS No:0NY210-00-0 Name:OXIDES OF NITROGEN CAS No:0NY998-00-0 Name:VOC	Emissions are subject to contaminant specific requirements.
92	6NYCRR 201-1.4	The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard,and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement,in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time,frequency and duration ofthe maintenance and/or start-up/shutdown activities and the identification of air (b) In the event that emissions of air contaminants in excess of any emission standard in 6NYCRR Chapter III Subchapter A occur due to a malfunction,the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours,but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter,when requested in writing by the commissioner's representative,the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction,the corrective action taken,identification of air contaminants,and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.(c) The Department may also require the owner and/or operator to include in reports described under(a)and(b)above an estimate ofthe maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted. In the event of maintenance,start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard,the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology,as determined by the commissioner,shall be applied during any maintenance,start-up/shutdown or malfunction condition subject to this paragraph. (d) (e) In order to have a violation of a federal regulation(such as a new source performance standard or national emissions standard for hazardous air pollutants)excused,the specific federal regulation must provide for an affirmative defense during start-up,shutdowns, malfunctions or upsets.	Facility shall maintain records of operation and report any deviations.
93	6NYCRR Subpart 201-5	The facility is authorized to perform regulated processes under this permit for: ONE F CLASS COMBUSTION TURBINE RATED AT 1998 MMBTU/HR AT 51 DEGREESF(2234 MMBTU/HR AT-5 DEGREESF)ON NATURAL GAS AND 2145 MMBTU/HR AT-5 DEGREES F ON FUEL OIL(,0.0015%SULFUR). THE TURBINE IS EQUIPPED WITH DRY LOW-NOX COMBUSTORS,STEAM INJECTION,SCR AND OXIDATION CATALYST EMISSION CONTROLS. THIS EMISSION UNIT ALSO CONTAINS A NATURAL GAS-FIRED DUCT BURNER RATED AT A MAXIMUM CAPACITYOF 500 MMBTU/HR. ACC01 GEN01 HRSG01	This is an accurate description of the emission unit.
93 (continued)	6NYCRR Subpart 201-5	The facility is authorized to perform regulated processes under this permit for: ONE CLASS-F COMBUSTION TURBINE RATED AT 1998 MMBTU/HR AT 51 DEGREES F(2234 MMBTU/HR AT-5 DEGREESF)ON NATURAL GAS AND 2145 MMBTU/HR AT -5 DEGREES F ON FUEL OIL(,0.0015%SULFUR). THE TURBINE IS EQUIPPED WITH DRY LOW-NOX COMBUSTORS,STEAM INJECTION,SCR AND OXIDATION CATALYST EMISSION CONTROLS. THIS EMISSION UNIT ALSO CONTAINS A NATURALGAS-FIRED DUCTBURNER RATED AT A MAXIMUM CAPACITY OF 500 MMBTU/HR. Building(s): ACC02 GEN02 HRSG02	This is an accurate description of the emission unit.
93 (continued)	6NYCRR Subpart 201-5	The facility is authorized to perform regulated processes under this permit for: Emission Unit: U-00003 Emission Unit Description: ONE 73.5 MMBTU/HR AUXILIARY BOILER THAT WILL FIRE NATURAL GAS EXCLUSIVELY. THE BOILER HOURS WILL BE LIMITED TO 2000 HOURS PER YEAR. THE BOILER WILL OPERATE PRIMARILY TO ASSIST WITH STARTUPS AND SHUTDOWNS OF THE TURBINES. Building(s): GEN01	This is an accurate description of the emission unit.
93 (continued)	6NYCRR Subpart 201-5	The facility is authorized to perform regulated processes under this permit for: Emission Unit: U-00004 Emission Unit Description: Emergency Diesel Generator operating less than 500 hours per year.	This is an accurate description of the emission unit.
93 (continued)	6NYCRR Subpart 201-5	The facility is authorized to perform regulated processes under this permit for: Emission Unit:U-00005 Emission Unit Description: Emergency Fire water Pump	This is an accurate description of the emission unit.
93 (continued)	6NYCRR Subpart 201-5	The facility is authorized to perform regulated processes under this permit for: Emission Unit:U-00006 Emission Unit Description: Two Fuel Gas Heaters	This is an accurate description of the emission unit.
94	6NYCRR 211.2	Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued,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 minuteaverage) except for one continuous six-minute period per hour of not more than 57 percent opacity.	Method 9 visual observations are conducted.
95	6NYCRR 242-1.5	The owners and operators of a C02 budget source that has excess emissions in any control period shall: (1)forfeit the C02 allowances required for deduction under 6 NYCRR Part242-6.5(d)(l), provided C02 offset allowances may not be used to cover any part of such excess emissions;and (2)pay any fine,penalty,or assessment or comply with any other remedy imposed under 6 NYCRR Part242-6.5(d)(2).	The facility shall comply.
96	6NYCRR 242-1.5	The owners and operators and,to the extent applicable,the C02 authorized account representative of each C02 budget source and each C02 budget unit at the source shall comply with the monitoring requirements of Subpart242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following C02 requirements: (1)The owners and operators of each C02 budget source and each C02 budget unit at the source shall hold C02 allowances available for compliance deductions under Section 242-6.5,as of the C02 allowance transfer deadline,in the source's compliance account in an amount not less than the total C02 emissions for the control period from all C02 budget units at the source,as determined in accordance with Subparts 242-6 and 242-8.(2)Each ton of C02 emitted in excess ofthe C02 budget emissions limitation shall constitute a separate violation of this Part and applicable state law. (3)A C02 budget unit shall be subject to the requirements specified in item 1 starting on the later,of January 1,2009 or the date on which the unit commences operation. (4)C02 allowances shall be held in,deducted from,or transferred among C02 Allowance Tracking System accounts in accordance with Subparts242-5,242-6,and 242-7,and Section 242-10.7. (5)A C02 allowance shall not be deducted,in order to comply with the requirements specified in item 1,for a control period that ends prior to the allocationyear for which the C02 allowance was allocated.A C02 offset allowance shall not be deducted,in order to comply with the requirements under item 1,beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3). (6)A C02 allowance under the C02 Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of C02 in accordance with the C02 BudgetTrading Program.No provision of the C02 Budget Trading Program,the C02 budget permit application,or the C02 budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization. (7)A C02 allowance under the C02 Budget Trading Program does not constitute a property right.	Record Keeping/Maintenance Procedures. C02 emissions are continuously calculated in the CEMS using 40 CFR 75 Appendixes D and G

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Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
97	6NYCRR 242-1.5	The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created.This period may be extended for cause,at any time prior to the end of 10 years,in writing by the department. (i)The account certificate of representation for the CO2 authorized account representative for the source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation,in accordance with 6NYCRR Part 242-2.4,provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation. (ii)All emissions monitoring information,in accordance with Subpart 242-8 and 40CFR 75.57. (iii)Copies of all reports,compliance certifications,and other submissions and all records made or required under the CO2 Budget Trading Program. (iv)Copies of all documents used to complete a CO2 budget permit application and any other submission under the CO2 BudgetTrading Program or to demonstrate compliance with the requirements of the CO2 BudgetTrading Program. The CO2 authorized account representative of a CO2 budget source and each CO2 budget unit at the source shall submit the reports and compliance certifications required under the CO2 BudgetTrading Program,including those under Subpart242-4.	Record Keeping/Maintenance Procedures. CO2 emissions are continuously calculated in the CEMS using 40 CFR 75 Appendixes D and G
98	6NYCRR Subpart 201-5	The following emissions points are included in this permit for the cited Emission Unit: Emission Unit: U-00001 Emission Point: EP001 Height(ft.):275 Diameter(in.):228 NYTMN(km.):4584.693 NYTME(km.):546.98 Emission Unit: U-00002 Emission Point: EP002 Height(ft.):275 NYTMN(km.):4584.655 NYTME(km.):546.991 Diameter(in.):228 Emission Unit: U-00003 Emission Point: EP003 Height(ft.): 275 NYTMN(km.):4584.655 NYTME(km.):546.991 Diameter(in.):228 Emission Unit: U-00004 Emission Point: EP004 Height(ft.):50 NYTMN(km.):4584.651 NYTME(km.):547.129 Diameter(in.): 18 Emission Unit: U-00005 Emission Point: EP006 Height(ft.):50 NYTMN(km.):4584.669 NYTME(km.):546.815 Diameter(in.):6 Emission Unit: U-00006 Emission Point: EP005 Height(ft.): 125 NYTMN(km.):4584.58 NYTME(km.):546.958 Diameter(in.):24	This is an accurate description of the emission unit.
99	6NYCRR Subpart 201-5	Emissions Unit: U-00001 Process: P1A REPRESENTS NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE,WHICH IS RATED AT2,234 mmBTU/hr AT -5 DEGREESF(MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOXCOMBUSTION TECHNOLOGY,SELECTIVE CATALYTIC REDUCTION(SCR)AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX,CO,AND VOC. THE QUANTITY PER HOUR THROUGH PUT LISTED BELOW REPRESENTS THE Source Classification Code:2-01-002-01 MAXIMUM FIRING RATE(2,234 MMBtu/hr AT-5 DEGREESF)AND THE QUANTITY PER YEAR THROUGH PUT REPRESENTS THE TURBINE AT THE FIRING RATE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 51 DEGREESF(1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT. Emission Source/Control: CT001 -Combustion Design Capacity:2,234 million Btu per hour Emission Source/Control: DLN01 -Control Control Type:DRY LOW NOx BURNER Emission Source/Control: OXY01 -Control Control Type:CATALYTIC OXIDATION Emission Source/Control: SCR01 -Control Control Type:SELECTIVE CATALYTIC REDUCTION(SCR)	This is an accurate description of the emission unit.
99 (continued)	6NYCRR Subpart 201-5	Emissions Unit: U-00001 Process: P2A REPRESENTS COMBINED NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE,WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F(MAXIMUM HEAT INPUT SCENARIO)AND NATURAL GAS FIRING IN THE DUCT BURNER,WHICH IS RATED AT 500 mmBTU/hr. DRY LOW-NOX COMBUSTION TECHNOLOGY,SELECTIVE CATALYTIC REDUCTION(SCR)AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX,CO,AND VOC. THE QUANTITY PER HOUR THROUGH PUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE(2,234 MMBtu/hr AT-5 DEGREES F)OF THE TURBINE PLUS THE DUCT BURNER AT RATED CAPACITY(500 mmBTU/hr)AND THE QUANTITY PER YEAR THROUGH PUT REPRESENTS 8,760 HOURS OF NATURAL GAS FIRING IN THE TURBINE AT THE ANNUAL AVERAGE AMBIENTTEMPERATURE OF 51 DEGREESF(1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT. Emission Source/Control: CT001 -Combustion Design Capacity:2,234 million Btu per hour Emission Source/Control: DB001 -Combustion Design Capacity:500 million Btu per hour Emission Source/Control: DLN01 -Control Control Type:DRY LOW NOx BURNER Emission Source/Control: OXY01 -Control Control Type:CATALYTIC OXIDATION Emission Source/Control: SCR01 -Control Control Type:SELECTIVE CATALYTIC REDUCTION(SCR)	This is an accurate description of the emission unit.
99 (continued)	6NYCRR Subpart 201-5	Emissions Unit: U-00001 Process: P3A REPRESENTS FUEL OIL FIRING IN THE CLASS-F COMBUSTION TURBINE,WHICH IS RATED AT 2,145 mmBTU/hr AT-5 DEGREES F(MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOX COMBUSTION TECHNOLOGY,STEAM OR WATER INJECTION, SELECTIVE CATALYTIC REDUCTION(SCR)AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX,CO, AND VOC. THE QUANTITY PER HOUR THROUGH PUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE(2,145 MMBtu/hr AT -5 DEGREES F)AND THE QUANTITY PER YEAR THROUGH PUT REPRESENTS 720 HOURS OF FUEL OIL FIRING AT THE FIRING RATE AT -5 DEGREES F AMBIENT TEMPERATURE. FUEL OIL HIGHER HEATING VALUE IS ASSUMED TO BE 139,728 BTU/GALLON. Source Classification Code:2-01-001-01 Emission Source/Control: CT001 -Combustion Design Capacity:2,234 million Btu per hour Emission Source/Control: DLN01 -Control Control Type:DRY LOW NOx BURNER Emission Source/Control: OXY01 -Control Control Type:CATALYTIC OXIDATION Emission Source/Control: SCR01 -Control Control Type:SELECTIVE CATALYTIC REDUCTION(SCR) Emission Source Control: ST101 -Control Control Type:STEAM OR WATER INJECTION	This is an accurate description of the emission unit.
99 (continued)	6NYCRR Subpart 201-5	Emissions Unit: U-00002 Process: P01 REPRESENTS NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE,WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F(MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOX COMBUSTION TECHNOLOGY,SELECTIVE CATALYTIC REDUCTION(SCR)AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX,CO,AND VOC. THE QUANTITY PER HOUR THROUGH PUT LISTED BELOW REPRESENTS THE Source Classification Code:2-01-002-01 MAXIMUM FIRING RATE(2,234 MMBtu/hr AT-5 DEGREESF)AND THE QUANTITY PER YEAR THROUGH PUT REPRESENTS THE TURBINE AT THE FIRING RATE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 51 DEGREESF(1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT. Emission Source/Control: CT002-Combustion Design Capacity:2,234 million Btu per hour Emission Source/Control: DLN02-Control Control Type:DRY LOW NOx BURNER Emission Source/Control: OXY02-Control Control Type:CATALYTIC OXIDATION Emission Source/Control: SCR02-Control Control Type:SELECTIVE CATALYTIC REDUCTION(SCR)	This is an accurate description of the emission unit.
99 (continued)	6NYCRR Subpart 201-5	Emissions Unit: U-00002 Process: P02 Emission Unit: U-00002 Process:P02 Process Description: REPRESENTS COMBINED NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE,WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F(MAXIMUM HEAT INPUT SCENARIO)AND NATURAL GAS FIRING IN THE DUCTBURNER,WHICH IS RATED AT 500 mmBTU/hr. DRY LOW-NOX COMBUSTION TECHNOLOGY,SELECTIVE CATALYTIC REDUCTION(SCR)AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX,CO,AND VOC. THE QUANTITY PER HOUR THROUGH PUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE(2,234 MMBtu/hr AT-5 DEGREES F)OF THE TURBINE PLUS THE DUCT BURNER AT RATED CAPACITY(500mmBTU/hr)AND THE QUANTITY PER YEAR THROUGH PUT REPRESENTS 8,760 HOURS OF NATURALGAS FIRING IN THE TURBINE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 51 DEGREESF(1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT. Emission Source/Control: CT002-Combustion Design Capacity:2,234 million Btu per hour Emission Source/Control: DB002-Combustion Design Capacity:500 million Btu per hour Emission Source/Control: DLN02-Control Control Type:DRY LOW NOx BURNER Emission Source/Control: OXY02-Control Control Type:CATALYTIC OXIDATION Emission Source/Control: SCR02 -Control Control Type:SELECTIVE CATALYTIC REDUCTION(SCR)	This is an accurate description of the emission unit.

Condition Number	Applicable Requirement	Description of Requirement	Methods Used to Determine Compliance
[illegible] (continued)	40 CFR 60 Subpart [illegible]	Emission Unit: U-0000[illegible] Process: P0[illegible] REPRESENTS FUEL OIL FIRING IN THE CLASS F COMBUSTION TURBINE WHICH IS RATED [illegible] STEAM OR WATER INJECTION	[illegible]
[illegible] (continued)	40 CFR 60 Subpart [illegible]	Emission Unit: U-0000[illegible] Process: P3B [illegible] FULL LOAD BOILER HOURS [illegible] NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE [illegible] BTU/CUBIC FOOT [illegible]	[illegible]
[illegible] (continued)	40 CFR 60 Subpart [illegible]	Emission Unit: U-0000[illegible] Process: [illegible] Process Description: [illegible] diesel fuel. Emission Source/Control: [illegible] - Combustion Design Capacity: [illegible] million BTUs per hour	[illegible]
[illegible] (continued)	40 CFR 60 Subpart [illegible]	Emission Unit: U-00006 Process: [illegible] Process Description: Fire pump firing diesel fuel. Emission Source/Control: [illegible] - Combustion Design Capacity: [illegible] million Btu per hour	[illegible]
[illegible] (continued)	40 CFR 60 Subpart [illegible]	Emission Unit: U-0000[illegible] Process: [illegible] Process Description: [illegible] natural gas. Emission Source/Control: [illegible] - Combustion Design Capacity: [illegible] million Btu per hour	[illegible]
[illegible]	[illegible]	Emission Unit: U-0000[illegible] [illegible]	Continuous Emissions Monitoring (CEM) [illegible]

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 7

Exempt Activities

New York State Department of Environmental Conservation
Air Permit Application

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEC ID
3-3356-00136

List of Exempt Activities

Instructions

Applicants for Title V facility permits must provide a listing of each exempt activity, as described in 6 NYCRR Part 201-3.2(c), that is currently operated at the facility. This form provides a means to fulfill this requirement.

In order to complete this form, enter the number and building location of each exempt activity. Building IDs used on this form should match those used in the Title V permit application. If a listed activity is not operated at the facility, leave the corresponding information blank.

Combustion

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(1)	Stationary or portable combustion installations where the furnace has a maximum heat input capacity less than 10 mmBtu/hr burning fuels other than coal or wood; or a maximum heat input capacity of less than 1 mmBtu/hr burning coal or wood. This activity does not include combustion installations burning any material classified as solid waste, as defined in 6 NYCRR Part 360, or waste oil, as defined in 6 NYCRR Subpart 225-2.	7	Turbine Bldg, Outdoors
(2)	Space heaters burning waste oil at automotive service facilities, as defined in 6 NYCRR Subpart 225-2, generated on-site or at a facility under common control, alone or in conjunction with used oil generated by a do-it-yourself oil changer as defined in 6 NYCRR Subpart 374-2.		
(3)(i)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located within the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 200 brake horsepower.		
(3)(ii)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 400 brake horsepower.	1	FPB01
(3)(iii)	Stationary or portable internal combustion engines that are gasoline powered and have a maximum mechanical power rating of less than 50 brake horsepower.		
(4)	Reserved.		
(5)	Gas turbines with a heat input at peak load less then 10 mmBtu/hour		

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(6)	Emergency power generating stationary internal combustion engines, as defined in 6 NYCRR Part 200.1(cq), and engine test cells at engine manufacturing facilities that are utilized for research and development, reliability performance testing, or quality assurance performance testing. Stationary internal combustion engines used for peak shaving and/or demand response programs are not exempt.	1	GB
	Combustion Related		
(7)	Non-contact water cooling towers and water treatment systems for process cooling water and other water containers designed to cool, store or otherwise handle water that has not been in direct contact with gaseous or liquid process streams.		
	Agricultural		
(8)	Feed and grain milling, cleaning, conveying, drying and storage operations including grain storage silos, where such silos exhaust to an appropriate emissions control device, excluding grain terminal elevators with permanent storage capacities over 2.5 million U.S. bushels, and grain storage elevators with capacities above one million bushels.		
(9)	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.		
	Commercial - Food Service Industries		
(10)	Flour silos at bakeries, provided all such silos are exhausted through an appropriate emission control device.		
(11)	Emissions from flavorings added to a food product where such flavors are manually added to the product.		
	Commercial - Graphic Arts		
(12)	Screen printing inks/coatings or adhesives which are applied by a hand-held squeegee. A hand-held squeegee is one that is not propelled though the use of mechanical conveyance and is not an integral part of the screen printing process.		
(13)	Graphic arts processes at facilities located outside the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury whose facility-wide total emissions of volatile organic compounds from inks, coatings, adhesives, fountain solutions and cleaning solutions are less than three tons during any 12-month period.		

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(14)	Graphic label and/or box labeling operations where the inks are applied by stamping or rolling.		
(15)	Graphic arts processes which are specifically exempted from regulation under 6 NYCRR Part 234, with respect to emissions of volatile organic compounds which are not given an A rating as described in 6 NYCRR Part 212.		
	Commercial - Other		
(16)	Gasoline dispensing sites registered with the department pursuant to 6 NYCRR Part 612.		
(17)	Surface coating and related activities at facilities which use less than 25 gallons per month of total coating materials, or with actual volatile organic compound emissions of 1,000 pounds or less from coating materials in any 12-month period. Coating materials include all paints and paint components, other materials mixed with paints prior to application, and cleaning solvents, combined. This exemption is subject to the following: (i) The facility is located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury; and (ii) All abrasive cleaning and surface coating operations are performed in an enclosed building where such operations are exhausted into appropriate emission control devices.		
(18)	Abrasive cleaning operations which exhaust to an appropriate emission control device.		
(19)	Ultraviolet curing operations.		
	Municipal/Public Health Related		
(20)	Landfill gas ventilating systems at landfills with design capacities less than 2.5 million megagrams (3.3 million tons) and 2.5 million cubic meters (2.75 million cubic yards), where the systems are vented directly to the atmosphere, and the ventilating system has been required by, and is operating under, the conditions of a valid 6 NYCRR Part 360 permit, or order on consent.		
	Storage Vessels		
(21)	Distillate fuel oil, residual fuel oil, and liquid asphalt storage tanks with storage capacities below 300,000 barrels.	3	Outside

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(22)	Pressurized fixed roof tanks which are capable of maintaining a working pressure at all times to prevent emissions of volatile organic compounds to the outdoor atmosphere.		
(23)	External floating roof tanks which are of welded construction and are equipped with a metallic-type shoe primary seal and a secondary seal from the top of the shoe seal to the tank wall.		
(24)	External floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressure less than 4.0 psi (27.6 kPa), are of welded construction and are equipped with one of the following: (i) a metallic-type shoe seal; (ii) a liquid-mounted foam seal; (iii) a liquid-mounted liquid-filled type seal; or (iv) equivalent control equipment or device.		
(25)	Storage tanks, including petroleum liquid storage tanks as defined in 6 NYCRR Part 229, with capacities less than 10,000 gallons, except those subject to 6 NYCRR Part 229 or Part 233.		
(26)	Horizontal petroleum or volatile organic liquid storage tanks.		
(27)	Storage silos storing solid materials, provided all such silos are exhausted through an appropriate emission control device. This exemption does not include raw material, clinker, or finished product storage silos at Portland cement plants.		
	Industrial		
(28)	Processing equipment at existing sand and gravel and stone crushing plants which were installed or constructed before August 31, 1983, where water is used for operations such as wet conveying, separating, and washing. This exemption does not include processing equipment at existing sand and gravel and stone crushing plants where water is used for dust suppression.		
(29)(i)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are a permanent or fixed installation with a maximum rated processing capacity of 25 tons of minerals per hour or less.		

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(29)(ii)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are a portable emission source with a maximum rated processing capacity of 150 tons of minerals per hour or less.		
(29)(iii)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are used exclusively to screen minerals at a facility where no crushing or grinding takes place.		
(30)	Reserved.		
(31)	Surface coating operations which are specifically exempted from regulation under 6 NYCRR Part 228, with respect to emissions of volatile organic compounds which are not given an A rating pursuant to 6 NYCRR Part 212.		
(32)	Pharmaceutical tablet branding operations.		
(33)	Thermal packaging operations, including, but not limited to, therimage labeling, blister packing, shrink wrapping, shrink banding, and carton gluing.		
(34)	Powder coating operations.		
(35)	All tumblers used for the cleaning and/or deburring of metal products without abrasive blasting.		
(36)	Presses used exclusively for molding or extruding plastics except where halogenated carbon compounds or hydrocarbon solvents are used as foaming agents.		
(37)	Concrete batch plants where the cement weigh hopper and all bulk storage silos are exhausted through fabric filters, and the batch drop point is controlled by a shroud or other emission control device.		
(38)	Cement storage operations not located at Portland cement plants where materials are transported by screw or bucket conveyors.		
(39)(i)	Cold cleaning degreasers with an open surface area of 11 square feet or less and an internal volume of 93 gallons or less or, having an organic solvent loss of 3 gallons per day or less.		
39(ii)	Cold cleaning degreasers that use a solvent with a VOC content or five percent or less by weight, unless subject to the requirements of 40 CFR 63 Subpart T.		

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(39)(iii)	Conveyorized degreasers with an air/vapor interface smaller than 22 square feet (2 square meters), unless subject to the requirements of 40 CFR 63 Subpart T.		
(39)(iv)	Open-top vapor degreasers with an open-top area smaller than 11 square feet (1 square meter), unless subject to the requirements of 40 CFR 63 Subpart T.		
	Miscellaneous		
(40)	Ventilating and exhaust systems for laboratory operations. Laboratory operations do not include processes having a primary purpose to produce commercial quantities of materials.		
(41)	Exhaust or ventilating systems for the melting of gold, silver, platinum and other precious metals.		
(42)	Exhaust systems for paint mixing, transfer, filling or sampling and/or paint storage rooms or cabinets, provided the paints stored within these locations are stored in closed containers when not in use.		
(43)	Exhaust systems for solvent transfer, filling or sampling, and/or solvent storage rooms provided the solvent stored within these locations are stored in containers when not in use.		
(44)	Research and development activities, including both stand-alone and activities within a major facility, until such time as the administrator completes a rule making to determine how the permitting program should be structured for these activities.		
(45)	The application of odor counteractants and/or neutralizers.		
(46)	Hydrogen fuel cells.		
(47)	Dry cleaning equipment that uses only water-based cleaning processes or those using liquid carbon dioxide.		
(48)	Manure spreading, handling and storage at farms and agricultural facilities.		

CPV Valley Energy Center
Exempt Sources

CPV - Valley Energy Center Exempt Sources	Make	Model	Capacity
Fire Pump	Cummins	CFP19E-F20	NA
Emergency Diesel Generator	Bobby Power System	16V2000G85 R163-8837	NA
Two (2) Dew Point Heaters	Maxon	QUENPA1-LE-45 Gas Burners	NA
Five (5) Space Heaters	Engo	DGFE-500	NA
Mobile Generator	Aggreko	MMC20	NA
Fuel Oil Tank	NA	NA	930,000 Gallons
Emergency Diesel Generator Tank	NA	NA	660 Gallons
Emergency Diesel Fire Pump Tank	NA	NA	500 Gallons

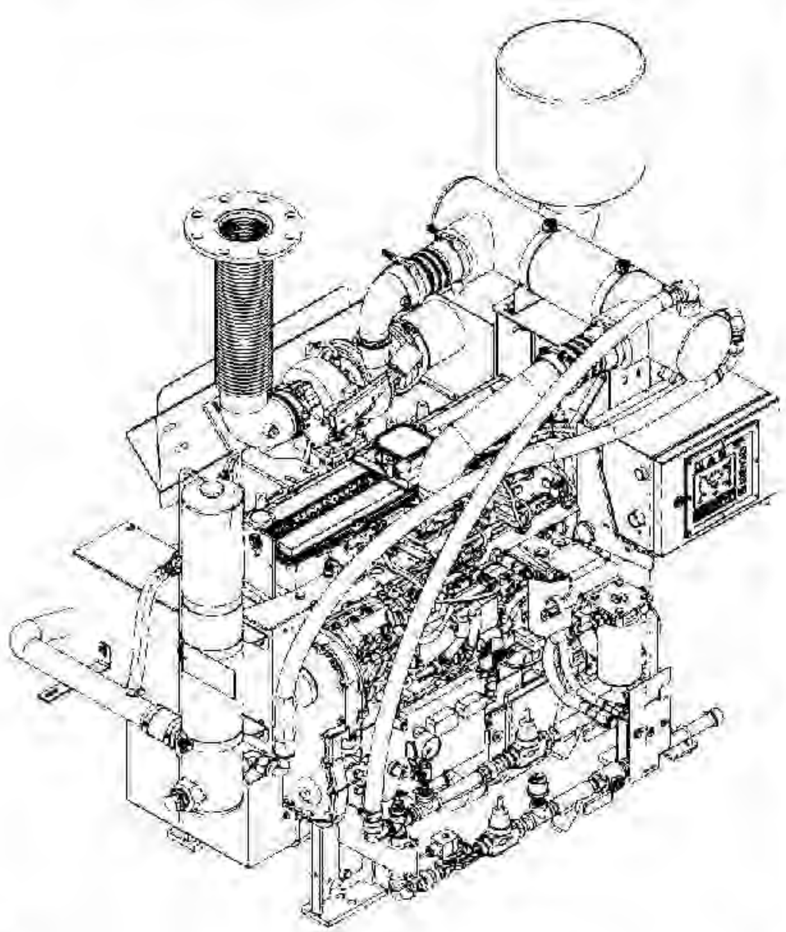
CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 8

Fire Pump
Manufacturer's Information

CPV Valley Energy Center
Contract 84595.5.2150 Fire Water Pumps

Fire Power	**Engine Specification Sheet** **Cummins Fire Power** De Pere, WI 54115 http://www.cumminsfirepower.com	**Basic Engine Model** **CFP9E-F10, F20, F30, F40, F50, F60** Curve Number: **FR - 91518 / 91996** Revision Date: **June 2014**



Operating Speed (RPM)										
Model	1470		1760		1900		2100		2300	
CFP9E-F60	304	(227)	359	(268)	365	(272)	355	(265)	304	(227)
CFP9E-F50	289	(216)	350	(261)	360	(268)	332	(248)	285	(213)
CFP9E-F40	271	(202)	327	(244)	347	(259)	311	(232)	267	(199)
CFP9E-F30	248	(185)	305	(227)	323	(241)	289	(216)	248	(185)
CFP9E-F20	230	(172)	282	(210)	299	(223)	268	(200)	230	(172)
CFP9E-F10	215	(160)	260	(194)	275	(205)	246	(183)	212	(158)

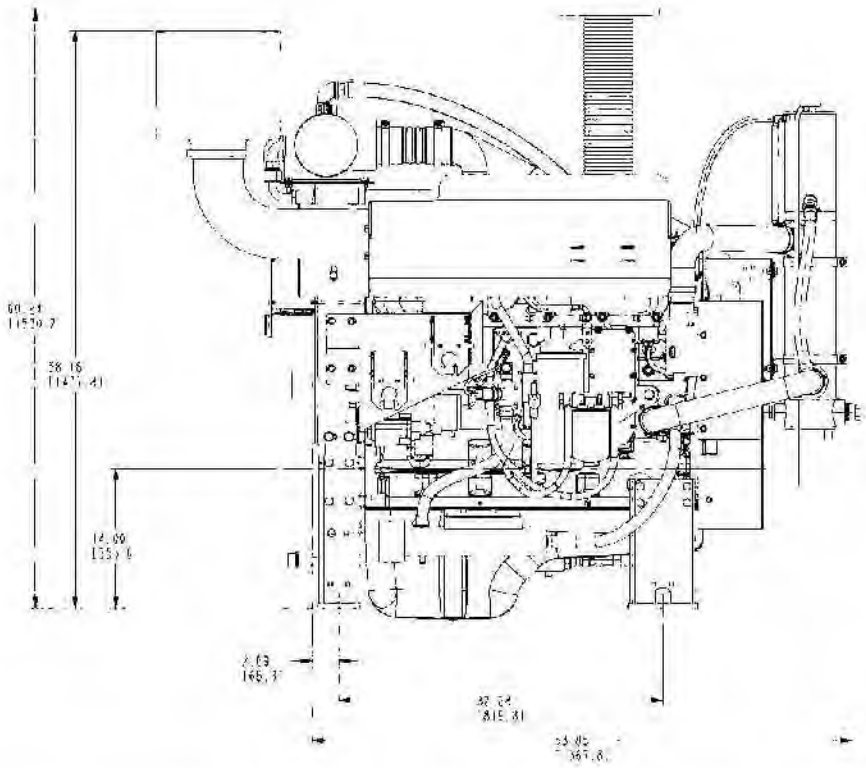
Ratings are: HP (kW)

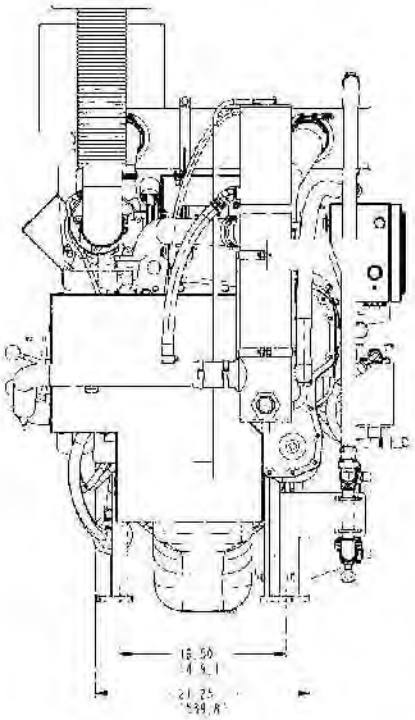
Specifications

Aspiration............Turbocharged and Charge Air Cooled
Rotation............Counterclockwise from flywheel end
Weight - lb (kg) Est............1900 (855)
Displacement - in^3 (liter)............543 (8.9)
Engine Type............4 Cycle; In-Line, 6 Cylinder
Engine Series............Cummins QSL9 Series
Exhaust Emissions............EPA/CARB Tier 3

Equipment	Standard	Optional
Air Cleaner	Disposable, Treated for High Humidity, Indoor Service	~~Heavy Duty, 2 stage w/ replaceable elements~~
Alternator	12V-DC, 95 AMPS; With Belt Guard	~~24V-DC, 45 AMPS; With Belt Guard~~
Cooling Loop (Maximum Pressure of 350 PSI)	3/4" diameter for Fresh Water. With alarm sensors and FM Approval.	~~Cu Ni Construction available for sea water applications~~
Exhaust Protection	Metal Guards on Manifolds and Turbo	~~N/A~~
Exhaust Flex Connection	SS Flex, NPT	~~SS Flex, 150# Flange~~
Flywheel Power Take-Off	~~Flywheel~~	~~• Drive Shaft System • Stub Shaft~~
Fuel Connections	Fire Resistant Flexible Supply and Return Lines	~~N/A~~
Fuel Injection System	Electronic, Direct Injection High Pressure Common Rail	~~N/A~~
Fuel Filter	Primary and Secondary	~~N/A~~
Engine Heater	120V-AC, 2250 Watts	~~240V-AC, 2250 Watts~~
Governor, Speed	Constant Speed	~~N/A~~
Heat Exchanger	Tube & Shell Type, 60 PSI with NPTF Connections	~~N/A~~
Instrument Panel	Digital, NEMA 4X, English and Metric, Tachometer, Hourmeter, Water Temperature, Oil Pressure & Two (2) Voltmeters	~~Optional 316SS Construction, Custom gauges with explanation [illegible]~~
Junction Box	Integral with Instrument Panel; For DC Wiring to Engine Controller	~~N/A~~
Lube Oil Cooler	Engine Water Cooled, Plate Type	~~N/A~~
Lube Oil Filter	Full Flow with By-Pass Valve	~~N/A~~
Lube Oil Pump	Gear Driven	~~N/A~~
Manual Start	On Instrument Panel	~~N/A~~
Overspeed Controls	Electronic with Reset & Test on Instrument Panel	~~N/A~~
Raw Water Solenoid Operation	Automatic from Engine Controller & from Emergency Local Control	~~N/A~~
Run-Stop Control	On Instrument Panel	~~N/A~~
Run Solenoid	12V-DC	~~24V-DC~~
Starters	12V-DC	~~24V-DC~~
Throttle Control	Adjustable Speed Control	~~N/A~~
Water Pump	Belt Drive with Guard	~~N/A~~

FM APPROVED





Engine Ratings Baselines

- Engines are rated at standard SAE conditions of 29.61 in. (7521 mm) Hg barometer and 77°F (25°C) inlet air temperature (approximates 300ft. (91.4 m) above sea level) by the testing laboratory (see SAE Standard J1349).
- A deduction of 3 percent from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1000 ft. (305 m) altitude above 300 ft. (91.4 m).
- A deduction of 1 percent from engine horsepower rating as corrected to standard SAE conditions shall be made for diesel engines for every 10°F above 77°F (24°C) ambient temperature.

Certified Power

This Cummins Fire Power fire pump driver is built to comply with NFPA-20, and is UL listed and FM approved.

* Subject to change without notification

For additional information, click the hyperlinks below.

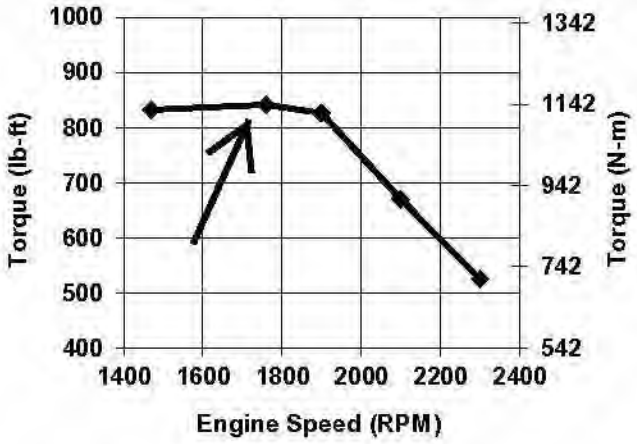
www.cumminsfirepower.com

Fire Power	Engine Performance Curve **Cummins Fire Power** De Pere, WI 54115 http://www.cumminsfirepower.com	**Basic Engine Model** **CFP9E-F20** Curve Number: **FR - 91518** Revision Date: **June 2014**

Engine Family:	**Industrial**	CPL Code:	**8641**
Displacement - in.3 (litre):	**543 (8.9)**	Emission Certification:	**EPA/CARB Tier 3**
Compression Ratio:	**17.8:1**	Aspiration:	**Turbocharged, Chrg Air Cooled**
No. of Cylinders:	**6**	Engine Configuration:	**D563004CX03**
Fuel System:	**CCR**	Minimum rating:	**230 HP @ 2300 RPM**
		Maximum rating:	**299 HP @ 1900 RPM**

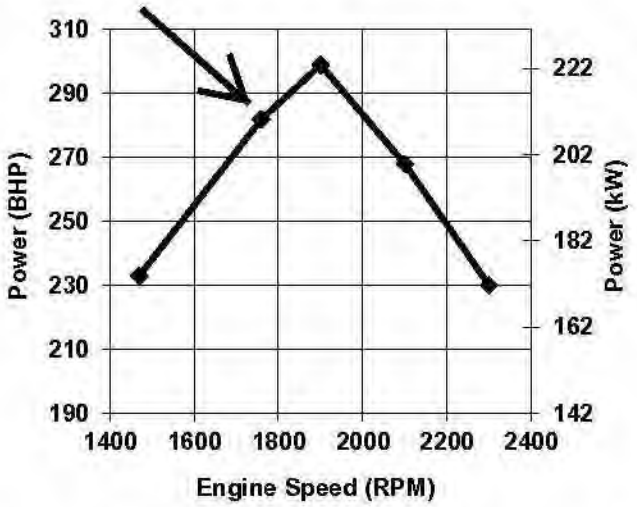
Torque Output

RPM	lb-ft	N-m
1470	832	1129
1760	842	1141
1900	826	1121
2100	670	909
2300	525	712



Horsepower Output

RPM	BHP	kW
1470	233	174
1760	282	210
1900	299	223
2100	268	200
2300	230	172



1. Curves shown above represent mature gross engine performance capabilities obtained and corrected in accordance with SAE J1349 conditions of 29.61 in Hg (100 kPa) barometric pressure [300 ft. (91.4 m) altitude], 77 °F (25 °C) inlet air temperature, and 0.30 in. Hg (1 kPa) water vapor pressure with No. 2 diesel fuel.

2. The engine may be operated without changing the fuel setting up to 300 ft. (91.4 m) altitude and up to 77 °F (25 °C) ambient temperature. For sustained operation at high altitudes, the fuel rate of the engine should be adjusted to limit performance by 3% per 1,000 ft. (305 m) above 300 ft. (91.4 m) altitude. For sustained operation at high ambient temperatures, the fuel rate of the engine should be adjusted to limit performance by 1% per 10 °F above 77 °F (2% per 11 °C above 25 °C).

Mike Dawson
Engineering Manager

Certified Within 5%

Fire Power	**Engine Data Sheet** **Cummins Fire Power** De Pere, WI 54115 http://www.cumminsfirepower.com	Basic Engine Model **CFP9E-F10,F20,F30,F40,F50,F60**
		Curve Number: **FR - 91518** CPL Code: **8641**
Configuration Number: **D563004CX03** Installation Drawing: **26112**		Engine Family: **Industrial** Revision Date: **March 2015**

General Engine Data

Type	4 Cycle; In-Line; 6 Cylinder	
Aspiration	Turbocharged, Chrg Air Cooled	
Bore & Stroke - in. (mm)	4.49 x 5.69	(114 x 145)
Displacement - in.^{3} (litre)	543	(8.9)
Compression Ratio	17.8:1	
Valves per Cylinder - Intake	2	
- Exhaust	2	
Maximum Allowable Bending Moment @ Rear Face of Block - lb.-ft. (N-m)	1000	(1356)

Air Induction System

Max. Temperature Rise Between Ambient Air and Engine Air Inlet - delta °F (delta °C)	30	(16.7)
Maximum Inlet Restriction with Dirty Filter - in. H_2O (mm H_2O)	25	(635)
Recommended Air Cleaner Element - (Standard) FLG Industrial	AH19220	
- (Optional) Heavy Duty Element	Primary	AF1828
	Secondary	AF1894M

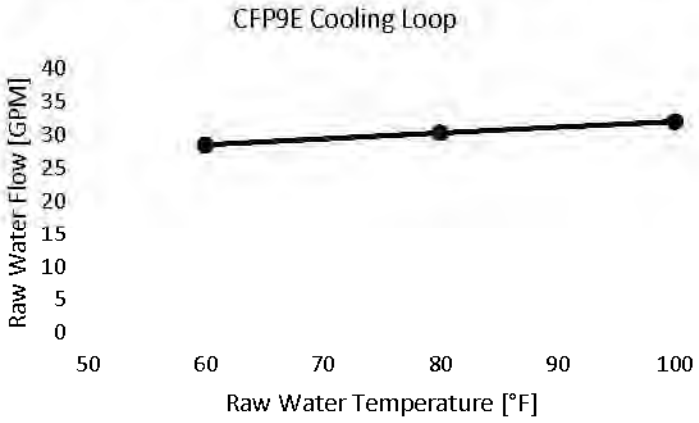
Lubrication System

Oil Pressure Range at Rated - PSI (kPa)	40-60	(276-414)
Oil Capacity of Pan (High - Low) - U.S. quarts (litre)	24-20	
Total System Capacity - U.S. Gal. (litre)	6.5	(24.6)
Recommended Lube Oil Filter ..... Fleetguard (Cummins)	LF9009	(3401544)

Cooling System

Raw Water Working Pressure Range at Heat Exchanger - PSI (kPa)	60	(413)	MAX
Recommended Min. Water Supply Pipe Size to Heat Exchanger - in. (mm)	0.75	(19.05)	
Recommended Min. Water Disch. Pipe Size From Heat Exchanger - in. (mm)	1.00	(25.40)	
Coolant Water Capacity (Engine Side) - U.S. gal. (litre)	2.9	(11.0)	
Standard Thermostat - Type	Modulating		
- Range - deg F (deg C)	180-199	(82-93)	
Minimum Raw Water Flow			
with Water Temperatures to 60 °F (16 °C) - U.S. GPM (litre/s)	28.5	(1.80)	
with Water Temperatures to 80 °F (27 °C) - U.S. GPM (litre/s)	30.3	(1.91)	
with Water Temperatures to 100 °F (38 °C) - U.S. GPM (litre/s)	32	(2.02)	
Recommended Cooling Water Filter ..... Fleetguard (Cummins)	WF2074	(3100307)	

A jacket water heater is mandatory on this engine. The recommended heater wattage is 2250 down to 40 °F (4 °C).



Exhaust System

Max. Back Pressure Imposed by Complete Exhaust System inches H_2O (kPa)	40.8	(10.2)
Exhaust Pipe Size Normally Acceptable - in. (mm)	5.0	(127)

Noise Emissions

Top	97.2 dBa
Right Side	97.2 dBa
Left Side	97.2 dBa
Front	97.2 dBa
Exhaust	119.5 dBa

The noise emission values are estimated sound pressure levels at 3.3 ft. (1 m.).

Fuel Supply / Drain System

Fuel Consumption	1470	1760	1900	2100	2300
CFP9E-F60 Gal/hr (L/hr)	15.7 (59.5)	18.6 (70.2)	18.9 (71.6)	18.6 (70.4)	16.3 (61.6)
CFP9E-F50 Gal/hr (L/hr)	14.9 (56.5)	18.1 (68.5)	18.7 (70.6)	17.4 (65.8)	15.3 (57.7)
CFP9E-F40 Gal/hr (L/hr)	14.0 (53.0)	16.9 (64.0)	18.0 (68.1)	16.3 (61.7)	14.3 (54.1)
CFP9E-F30 Gal/hr (L/hr)	13.0 (49.3)	15.8 (59.7)	16.7 (63.4)	15.1 (50.2)	13.3 (50.2)
CFP9E-F20 Gal/hr (L/hr)	12.0 (45.6)	14.6 (55.2)	15.5 (58.7)	14.0 (53.2)	12.3 (46.6)
CFP9E-F10 Gal/hr (L/hr)	11.1 (42.1)	13.4 (50.9)	11.3 (54.0)	12.9 (48.8)	11.3 (43.0)

Fuel Type	Number 2 Diesel Only	
Minimum Supply Line Size - in. (mm)	0.5	(12.70)
Minimum Drain Line Size - in. (mm)	0.375	(9.53)
Maximum Fuel Height above C/L Fuel Pump in. (m)	227	(5.7)
Recommended Fuel Filter - Primary ... Fleetguard (Cummins)	FF5580	(3976312)
- Secondary	FS1212	
Maximum Restriction @ Lift Pump-Inlet - With Clean Filter - in. Hg (mm Hg)	6.0	(152)
Maximum Restriction @ Lift Pump-Inlet - With Dirty Filter - in. Hg (mm Hg)	10.0	(254)
Maximum Return Line Restriction - Without Check Valves - in. Hg (mm Hg)	20.4	(518)
Minimum Fuel Tank Vent Capability - ft^3/hr (m^3/hr)	7	(0.21)
Maximum Fuel Temperature @ Lift Pump Inlet - °F (°C)	160	(71)

Starting and Electrical System

	12V	24V
Min. Recommended Batt. Capacity - Cold Soak at 0°F (-18°C) or Above		
Engine Only - Cold Cranking Amperes - (CCA)	1400	900
Engine Only - Reserve Capacity - Minutes	430	430
Battery Cable Size (Maximum Cable Length Not to Exceed 5 ft. [1.5 m] AWG)	00	00
Maximum Resistance of Starting Circuit - Ohms	0.002	0.002
Typical Cranking Speed - RPM	130	130
Alternator (Standard), Internally Regulated - Ampere	95	45
Wiring for Automatic Starting (Negative Ground)	Standard	
Reference Wiring Diagram	16260	

Performance Data

All data is based on the engine operating with fuel system, water pump, lubricating oil pump, air cleaner, and alternator; not included are compressor, fan, optional equipment, and driven components. Data is based on operation at SAE standard J1394 conditions of 300 ft. (91.4 m) altitude, 29.61 in. (752 mm) Hg dry barometer, and 77 °F (25 °C) intake air temperature, using No.2 diesel or a fuel corresponding to ASTM-D2.

Altitude Above Which Output Should be Limited - ft. (m)	300	(91.4)
Correction Factor per 1000 ft. (305 m) above Altitude Limit	3%	
Temperature Above Which Output Should be Limited - °F (°C)	77	(25)
Correction Factor per 10 °F (11 °C) Above Temperature Limit	1%	(2%)

Exhaust Emissions (EPA Tier T3)

See emissions data available for this rating on the Cummins Fire Power website www.cumminsfirepower.com.

FM Approved and UL Listed Ratings for CFP9E-F10, F20, F30, F40, F50, F60

Engine Speed - RPM	1470	1760	1900	2100	2300
CFP9E-F60 Output - BHP (kW)	**304 (227)**	**359 (268)**	**365 (272)**	**355 (265)**	**304 (227)**
Ventilation Air CFM (litre/sec)	580 (274)	723 (341)	738 (348)	788 (372)	827 (391)
Exhaust Flow - CFM (litre/sec)	1615 (762)	2041 (963)	2077 (980)	2133 (1,007)	2090 (986)
Exhaust Temp.- °F (°C)	1074 (579)	1049 (565)	1106 (597)	1077 (581)	991 (533)
Heat Rejection					
To Coolant BTU/min. (kW)	4810 (85)	6517 (115)	6705 (118)	6690 (118)	6155 (108)
To Ambient BTU/min (kW)	1223 (21)	1302 (23)	1350 (24)	1305 (23)	1279 (22)
CFP9E-F50 Output - BHP (kW)	**289 (216)**	**350 (261)**	**360 (268)**	**332 (248)**	**285 (213)**
Ventilation Air CFM (litre/sec)	584 (276)	686 (324)	736 (347)	785 (371)	824 (389)
Exhaust Flow - CFM (litre/sec)	1621 (765)	1918 (905)	2053 (969)	2107 (995)	2065 (975)
Exhaust Temp.- °F (°C)	1076 (580)	1083 (584)	1097 (592)	1064 (573)	979 (526)
Heat Rejection					
To Coolant BTU/min. (kW)	4849 (85)	6157 (108)	6815 (120)	6530 (115)	6008 (106)
To Ambient BTU/min (kW)	1186 (21)	1263 (22)	1310 (23)	1266 (22)	1241 (22)
CFP9E-F40 Output - BHP (kW)	**271 (202)**	**327 (244)**	**347 (259)**	**311 (232)**	**267 (199)**
Ventilation Air CFM (litre/sec)	557 (263)	685 (323)	735 (347)	783 (370)	822 (388)
Exhaust Flow - CFM (litre/sec)	1584 (748)	1899 (896)	2036 (961)	2084 (984)	2042 (964)
Exhaust Temp.- °F (°C)	1083 (584)	1076 (580)	1088 (587)	1052 (567)	1030 (554)
Heat Rejection					
To Coolant BTU/min. (kW)	4885 (86)	5988 (105)	6386 (112)	6417 (113)	5904 (104)
To Ambient BTU/min (kW)	1151 (20)	1225 (22)	1270 (22)	1228 (22)	1203 (21)
CFP9E-F30 Output - BHP (kW)	**252 (188)**	**305 (227)**	**323 (241)**	**289 (216)**	**248 (185)**
Ventilation Air CFM (litre/sec)	558 (263)	681 (321)	727 (343)	781 (369)	820 (387)
Exhaust Flow - CFM (litre/sec)	1574 (743)	1863 (879)	1973 (931)	2056 (970)	2015 (951)
Exhaust Temp.- °F (°C)	1075 (579)	1057 (569)	1058 (570)	1037 (558)	954 (512)
Heat Rejection					
To Coolant BTU/min. (kW)	4809 (85)	5807 (102)	6049 (106)	6328 (111)	5822 (102)
To Ambient BTU/min (kW)	1116 (20)	1188 (21)	1232 (22)	1191 (21)	1167 (21)
CFP9E-F20 Output - BHP (kW)	**233 (174)**	**282 (210)**	**299 (223)**	**268 (200)**	**230 (172)**
Ventilation Air CFM (litre/sec)	555 (262)	674 (318)	720 (340)	776 (366)	815 (385)
Exhaust Flow - CFM (litre/sec)	1527 (721)	1813 (856)	1927 (910)	2019 (953)	1979 (934)
Exhaust Temp.- °F (°C)	1033 (556)	1030 (554)	1036 (558)	1018 (548)	937 (503)
Heat Rejection					
To Coolant BTU/min. (kW)	4486 (79)	5591 (98)	5880 (103)	6189 (109)	5694 (100)
To Ambient BTU/min (kW)	1083 (19)	1153 (20)	1195 (21)	1155 (20)	1132 (20)
CFP9E-F10 Output - BHP (kW)	**215 (160)**	**260 (194)**	**275 (205)**	**246 (183)**	**212 (158)**
Ventilation Air CFM (litre/sec)	544 (257)	665 (314)	712 (336)	763 (360)	801 (378)
Exhaust Flow - CFM (litre/sec)	1432 (676)	1751 (826)	1872 (884)	1922 (907)	1884 (889)
Exhaust Temp.- °F (°C)	971 (522)	997 (536)	1008 (542)	968 (520)	891 (477)
Heat Rejection					
To Coolant BTU/min. (kW)	4259 (75)	5340 (94)	5679 (100)	5781 (102)	5319 (93)
To Ambient BTU/min (kW)	1050 (18)	1118 (20)	1159 (20)	1121 (20)	1098 (19)

All Data is Subject to Change Without Notice.

Engineering Manager: ***Mike Dawson***
Cummins Fire Power, De Pere, WI 54115 U.S.A.

Fire Power

EPA Tier 3 Emission Data
Fire Pump NSPS Compliant

CFP9E-F20 Fire Pump Driver

Type: 4 Cycle; In-Line; 6 Cylinder
Aspiration: Turbocharged, Charge Air Cooled

15 PPM Diesel Fuel

		Fuel Consumption		D2 Cycle Exhaust Emissions										Exhaust			
				Grams per BHP - HR					Grams per kW - HR					Temperature		Gas Flow	
RPM	BHP	Gal/Hr	L/hr	NMHC	NOx	NMHC+NOx	CO	PM	NMHC	NOx	NMHC+NOx	CO	PM	°F	°C	CFM	L/sec
1470	230	11.3	42.8											1033	556	1527	721
1760	282	14.1	53.4											1030	554	1813	856
1900	299	15.0	56.8	0.123	2.200	2.323	1.417	0.118	0.165	2.950	3.116	1.900	0.158	1036	558	1927	910
2100	268	14.2	53.8											1018	548	2019	953
2300	230	12.6	47.7											937	503	1979	934

The emissions values above are based on CARB approved calculations for converting EPA (500 ppm) fuel to CARB (15 ppm) fuel.

300-4000 PPM Diesel Fuel

		Fuel Consumption		D2 Cycle Exhaust Emissions										Exhaust			
				Grams per BHP - HR					Grams per kW - HR					Temperature		Gas Flow	
RPM	BHP	Gal/Hr	L/hr	NMHC	NOx	NMHC+NOx	CO	PM	NMHC	NOx	NMHC+NOx	CO	PM	°F	°C	CFM	L/sec
1470	230	11.3	42.8											1033	556	1527	721
1760	282	14.1	53.4											1030	554	1813	856
1900	299	15	56.8	0.149	2.386	2.535	1.417	0.134	0.2	3.200	3.400	1.900	0.180	1036	558	1927	910
2100	268	14.2	53.8											1018	548	2019	953
2300	230	12.6	47.7											937	503	1979	934

QSL9 Base Model Manufactured by Cummins Inc.
- Using fuel rating 91518

Reference EPA Standard Engine Family: ECEXL0540AAB

No special options needed to meet current regulation emissions for all 50 states

Test Methods:

EPA/CARB Nonroad emissions recorded per 40CFR89 (ref. ISO8178-1) and weighted at load points prescribed in Subpart E, Appendix A, for Constant Speed Engines (ref. ISO8178-4, D2).

Diesel Fuel Specifications:

Cetane Number: 40-48
Reference: ASTM D975 No. 2-D

Reference Conditions:

Air Inlet Temperature: 25°C (77°F)
Fuel Inlet Temperature: 40°C (104°F)
Barometric Pressure: 100 kPa (29.53 in Hg)
Humidity: 10.7 g/kg (75 grains H_2O/lb) of dry air; required for NOx correction

Restrictions: Intake Restriction set to a maximum allowable limit for clean filter; Exhaust Back Pressure set to maximum allowable limit.

Tests conducted using alternate test methods, instrumentation, fuel or reference conditions can yield different results.

Revision:
June 2014: Document Review & Approved

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 9

Auxiliary Boiler

Manufacturers' Data

BOILER PREDICTED PERFORMANCE*

Version: NB-Size-2014.0.1 **Customer:** CPV Valley Energy Cent **CP-4448** HA **03/08/16**
Proposal: CP-4448 - Design **Fuel:** Natural Gas
Model: NB-200D-4C **Design Pressure:** 250 PSIG

CleaverBrooks

March 8, 2016

Boiler load - %	100%	75%	50%	25%							
Steam Flow - Gross Production	39,050	29,288	19,525	9,763							Lb/Hr
Net Steam Flow - Gross less Pegging Steam	32,550	24,413	16,275	8,138							Lb/Hr
Pegging Steam	6,500	4,875	3,250	1,625							Lb/Hr
Steam Pressure - Operating	115	115	115	115							PSIG
Steam Temperature	347	347	347	347							°F
Fuel Input (HHV)	46.7	34.9	23.3	11.8							MMBTU/Hr
Ambient Air Temperature	80	80	80	80							°F
Relative Humidity	60	60	60	60							%
Excess Air	15	15	15	25							%
Flue Gas Recirculation	9	9	9	9							%
Steam Output Duty	39.0	29.3	19.5	9.8							MMBTU/hr
Heat Release Rate - Volumetric	64,233	47,988	31,972	16,214							BTU/FT3-H
Heat Release Rate - Area	96,884	72,382	48,224	24,456							BTU/FT2-H
Heat Flux	29,983										BTU/FT2-H
Feed Water Temperature	228	228	228	228							°F
Water Temperature Leaving Economizer	303	291	278	267							±10°F
Blow Down	3.0	3.0	3.0	3.0							%
Boiler Gas Exit Temperature	583	518	450	386							±10°F
Economizer Gas Exit Temperature	300	278	259	245							±10°F
Air Flow	39,285	29,350	19,554	10,779							Lb/Hr
Flue Gas to Stack	41,259	30,824	20,537	11,277							Lb/Hr
Flue Gas Including FGR	44,972	33,599	22,385	12,292							Lb/Hr
Fuel Flow	1,973	1,474	982	498							Lb/Hr
Flue Gas Analysis, Losses, Efficiency - %											
Dry Gas Loss	4.1	3.7	3.4	3.4							%
Air Moisture Loss	0.1	0.1	0.1	0.1							%
Fuel Moisture Loss	10.7	10.6	10.5	10.5							%
Casing Loss	0.6	0.8	1.2	2.4							%
Margin	1.0	1.0	1.0	1.0							%
Efficiency - LHV	92.5	92.9	92.9	91.6							%
Efficiency - HHV	83.5	83.8	83.8	82.6							%
Total Pressure Drop Including Economizer	3.52	1.96	0.87	0.24							IN WC
Products of Combustion - CO2	8.26	8.26	8.26	7.65							% vol.
- H2O	18.21	18.21	18.21	17.02							% vol.
-N2	71.06	71.06	71.06	71.53							% vol.
-O2	2.46	2.46	2.46	3.80							% vol.
-SO2	0.00	0.00	0.00	0.00							% vol.

Fuel Composition - Gas		
methane	97.186	% vol.
ethane	2.423	% vol.
propane	0.098	% vol.
butane	0.006	% vol.
hexane	0.01	% vol.
carbon dioxide	0.021	% vol.
nitrogen	0.254	% vol.
hydrogen sulfide	0.00018	% vol.
oxygen	0.002	% vol.
LHV-Btu/lb	21,360	
HHV-Btu/lb	23,684	

BOILER SURFACE AREAS-ft2		
Furnace Volume:	727	ft3
Furnace Projected Area:	482	ft2
Evaporator:	2,018	ft2
Total Area:	2,501	ft2
Economizer:	By Supplier	ft2
Superheater:	-	ft2

Above data is predicted only, see proposal for guaranteed numbers.

BOILER PREDICTED PERFORMANCE*

Version: NB-Size-2014.0.1 **Customer:** CPV Valley Energy Cen **CP-4448** HA
Proposal: CP-4448 - w/ APH **Fuel:** Natural Gas
Model: NB-200D-4(**Design Pressure:** 250

CleaverBrooks

Boiler load - %	**100%**	**75%**	**50%**	**25%**							
Steam Flow - Gross Production	39,800	29,850	19,900	9,950							Lb/Hr
Net Steam Flow - Gross less Pegging Steam	32,550	24,413	16,275	8,138							Lb/Hr
Pegging Steam	7,250	5,438	3,625	1,813							Lb/Hr
Steam Pressure - Operating	115	115	115	115							PSIG
Steam Temperature	347	347	347	347							°F
Fuel Input (HHV)	48.1	35.9	23.9	12.1							MMBTU/Hr
Ambient Air Temperature	50	50	50	50							°F
Relative Humidity	7	7	7	7							%
Excess Air	15	15	15	25							%
Flue Gas Recirculation	9	9	9	9							%
Steam Output Duty	39.8	29.8	19.9	9.9							MMBTU/hr
Heat Release Rate - Volumetric	66,055	49,351	32,883	16,690							BTU/FT3-H
Heat Release Rate - Area	99,632	74,438	49,598	25,175							BTU/FT2-H
Heat Flux	31,118										BTU/FT2-H
Feed Water Temperature	228	228	228	228							°F
Water Temperature Leaving Economizer	302	290	277	269							±10°F
Blow Down	3.0	3.0	3.0	3.0							%
Boiler Gas Exit Temperature	587	521	452	394							±10°F
Economizer Gas Exit Temperature	301	278	259	246							±10°F
Air Flow	39,894	29,806	19,859	10,957							Lb/Hr
Flue Gas to Stack	41,924	31,322	20,870	11,469							Lb/Hr
Flue Gas Including FGR	45,697	34,141	22,748	12,502							Lb/Hr
Fuel Flow	2,029	1,516	1,010	512							Lb/Hr
Flue Gas Analysis, Losses, Efficiency - %											
Dry Gas Loss	4.7	4.3	3.9	4.0							%
Air Moisture Loss	0.0	0.0	0.0	0.0							%
Fuel Moisture Loss	11.0	10.9	10.8	10.8							%
Casing Loss	0.6	0.8	1.2	2.4							%
Margin	1.0	1.0	1.0	1.0							%
Efficiency - LHV	91.7	92.1	92.1	90.7							%
Efficiency - HHV	82.7	83.0	83.1	81.8							%
Total Pressure Drop Including Economizer	3.59	2.00	0.89	0.27							IN WC
Products of Combustion - CO2	8.42	8.42	8.42	7.80							% vol.
- H2O	16.68	16.68	16.68	15.46							% vol.
-N2	72.39	72.39	72.39	72.88							% vol.
-O2	2.51	2.51	2.51	3.87							% vol.
-SO2	0.00	0.00	0.00	0.00							% vol.

Fuel Composition - Gas		
methane	97.186	% vol.
ethane	2.423	% vol.
propane	0.098	% vol.
butane	0.006	% vol.
hexane	0.01	% vol.
carbon dioxide	0.021	% vol.
nitrogen	0.254	% vol.
hydrogen sulfide	0.00018	% vol.
oxygen	0.002	% vol.
LHV-Btu/lb	21,360	
HHV-Btu/lb	23,684	

BOILER SURFACE AREAS-ft2

Furnace Volume:	727	ft3
Furnace Projected Area:	482	ft2
Evaporator:	2,018	ft2
Total Area:	2,501	ft2
Economizer:	By Supplie	ft2
Superheater:	-	ft2

**Above data is predicted only, see proposal for guaranteed numbers.*

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 10

NYSDEC Acceptance Memo
Air Modeling

New York State Department of Environmental Conservation
Division of Air Resources
Bureau of Stationary Sources
625 Broadway, Albany, New York 12233-3254
Phone: (518) 402-8403 • **FAX:** (518) 402-9035
Website: www.dec.ny.gov

Joe Martens
Commissioner

June 28, 2012

MEMORANDUM

TO: George Swelkert (Region 3)

FROM: Bob Gaza

SUBJECT: **CPV Valley Energy Center**

We have completed the review of the June 2012 Supplement to the modeling portion of the PSD and Part 201 Air Permit Application and find the modeling analysis acceptable. The applicant has properly followed the procedures outlined in the approved May 2012 "Modeling Protocol Supplement 3" to address the 1-hour impacts of NO2. Specifically, the applicant has demonstrated that the maximum impacts from CPV Valley do not exceed EPA's interim Significant Impact Level (7.5 ugm-3) at the receptors where a violation of the National Ambient Air Quality Standards (NAAQS) was indicated via cumulative modeling of surrounding sources for 1-hr NO2. The NAAQS for 1-h NO2 is 188 ugm-3. Violations were identified near or on the properties of the Al Turi and Revere facilities in course grid runs for all sources, with maximum impacts, including background, of 419 ugm-3, and 274 ugm-3, respectively. The applicant applied a finer grid mesh of 100 m around the receptors where violations were detected in additional AERMOD runs. In this instance, a maximum impact of 442 ugm-3 was identified. Again, the updated modeling substantiated that CPV Valley did not contribute significantly to any of these violations. The 3 tables depicting the results of these model runs are attached for your information.

cc: M. Valis
C. Hogan
A. Coulter (EPA, Region 2)
M. Anderson (TRC)

Table 5:21: Additional Cumulative 1-Hour Average NO_2 Modeling Results for the Initial (Coarse) Receptor Grid

	Source Contributions to the Highest 8th High Predicted NO_2 Concentrations ($\mu g/m^3$) *			
Closest Facility	Project	Other Sources	Background	Total
CPV Energy	121	0.0708	61.7	183
Al Turi	2.62E-03	346	73.0	419
Revere	2.91E-03	214	59.6	274
SIL *	7.50	---	---	---
NAAQS *	---	---	---	188

* 5-Year Average

Table 5:22: Additional Cumulative 1-Hour Average NO_2 Modeling Results for the Three Refined Receptor Grids

	Source Contributions to the Highest 8th High Predicted NO_2 Concentration ($\mu g/m^3$) *			
	Project	Other Sources	Background	Total
Maximum Total Impact (Warm Startup)	4.16E-03	378	63.9	442
Maximum Project Contribution (Warm Startup)	6.31	148	56.8	211
SIL *	7.50	--	--	---
NAAQS *	---	---	---	188

* 5-Year Average

Table 5:23: Additional Cumulative 1-Hour Average NO_2 Modeling Results for the Receptors Located within Facility Fence Lines

	Source Contributions to the Highest 8th High Predicted NO_2 Concentration ($\mu g/m^3$) *			
	Project	Other Sources	Background	Total
Inside Revere Fence Line	8.17E-03	92.1	67.1	159
Inside Al Turi Fence Line	6.12	5.93	92.7	105
SIL *	7.50	---	---	---
NAAQS *	---	---	---	188

* 5-Year Average

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

ATTACHMENT 11

Emission Offsets

Arbill
Safer Every Day

April 25, 2018

Mr. Ajay Shroff
New York State Department of Environmental Conservation
Division of Air Resource
625 Broadway
Albany, NY 12233-3254
Via Overnight Mail

RE: VOC ERC Transfer Package

Dear Mr. Shroff:

Please accept this request to transfer the intended use of 17.0 tons per year (tpy) of VOC emission reduction credits (ERCs) currently held by Arbill Incorporated (Arbill) to CPV Valley LLC (CPV). These VOC ERCs were created at Arbill's Philadelphia, Pennsylvania facility and are intended to be used toward CPV's Orange County, New York facility. Please allocate 17.0 tpy for use in this capacity and coordinate with Virendra Trivedi (or any person replacing him) at Pennsylvania Department of Environmental Protection for the transfer of use to CPV's draft permit.

Please note that BGC Environmental Brokerage Services (BGC) is hereby authorized to act on behalf of Arbill in the processing of the VOC ERC transfer. Please provide BGC (and us) a receipt upon acceptance of this transfer package. In addition, please provide BGC (and us) with the documentation related to the transfer. The mailing address for BGC is:

199 Water Street, 19th Floor
New York, NY 10038

We would appreciate if the request to transfer could be processed as expeditiously as possible. Thank you for your assistance in the processing of this ERC transfer request. If any questions arise, please feel free to call Lauren Kisling at (646) 346-6899 or Steve Ritter at (800) 523-5367.

Sincerely,

Thomas G. Strauss
Chief Financial Officer

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

April 19, 2013

Mr. Ajay Shroff
New York State Department of Environmental Conservation
Division of Air Resource
625 Broadway
Albany, NY 12233-3259

Re: VOC ERC Transfer Package

Dear Mr. Shroff:

Please accept this request to transfer the intended use of 17.0 tons per year (tpy) of VOC emission reduction credits (ERCs) currently held by Arbill Incorporated (Arbill) to CPV Valley LLC (CPV). These VOC ERCs were created at Arbill's Philadelphia, Pennsylvania facility and are intended to be used toward CPV's Orange County, New York facility. Please allocate 17.0 tpy for use in this capacity and coordinate with Virendra Trivedi at Pennsylvania Department of Environmental Protection for the transfer of use to CPV's draft permit.

Please note that BGC Environmental Brokerage Services (BGC) is hereby authorized to act on behalf of CPV in the processing of the VOC ERC transfer. Please provide BGC a receipt upon acceptance of this transfer package. In addition, please provide BGC with the documentation related to the transfer. The mailing address for BGC is:

199 Water Street, 19th Floor
New York, NY 10038

We would appreciate if this request to transfer could be processed as expeditiously as possible. Thank you for your assistance in the processing of this ERC transfer request. If any questions arise, please feel free to call Lauren Kisling at (646) 346-6899 or me at (781) 817-3970.

Best regards,

Steven P. Remillard
Vice President, Development

USE OF EMISSION REDUCTION CREDITS (ERC) FORM

☐FACILITY ☐BROKER / ■USING ☐PURCHASING ERC (Check Appropriate Boxes)

(Facility) / (Broker) Name: CPV Valley Energy Center DEC ID#: 3335600136

Address: OS RTE 6 (Section 3, Lots 36.22, 36.23, 40.221 Wawayanda, NY

Proposed Project Description: A combined cycle natural gas powered generating facility

Contact Name: Steve Remillard Phone #: (781) 817-8970

Name of Authorized Representative: Peter Poulgisl Title: Senior Vice President

Signature of Authorized Representative: [signature] Date: 4/19/2013

☐FACILITY ☐BROKER / ☐CREATING ■TRANSFERRING ERC (Check Appropriate Boxes)

(Facility) / (Broker) Name: Arbill Industries, Inc. DEC ID#: N/A

Address: 2207 West Glenwood Avenue, Philadelphia, PA

ERC Emission Source ID#(s) / ERC tpy: -17.0 / _____; _____ / _____;

_____ / _____; _____ / _____; OR

ERC Emission Unit ID#(s) / ERC tpy: _____ / _____; _____ / _____;

_____ / _____; _____ / _____;

Reduction Mechanism: Facility Shutdown

Name of Authorized Representative: THOMAS G. STRAUSS Title: CFO

Signature of Authorized Representative: [signature] Date: 4/24/2013

AMOUNT OF EMISSION REDUCTION CREDIT BEING ■ USED / ☐ TRANSFERRED

(complete all that apply)

NO_x		PM-10	
offsets _____ tpy	netting _____ tpy	offsets _____ tpy	netting _____ tpy
VOC		PM-2.5	
offsets 17.0 tpy	netting _____ tpy	offsets _____ tpy	netting _____ tpy
SO_2			
offsets _____ tpy	netting _____ tpy		

***NOTE**: Any previous Use of ERC Forms associated with the ERCs being used or transferred with this transaction must be attached.

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

April 26, 2013

Mr. Ajay Shroff
New York State Department of Environmental Conservation
Division of Air Resource
625 Broadway
Albany, NY 12233-3254

Re: VOC Transfer – Use of Emission Reduction Credits Form

Dear Mr. Shroff,

Please accept this request to transfer the intended use of 58.0 tons per year (tpy) of VOC emission reduction credits (ERCs) currently held by S. Walter Packaging Corp. (f/k/a Uniflex Holdings, Inc.) to CPV Valley, LLC (CPV). These VOC ERCs were created at Uniflex's Westbury, New York facility and are intended to be used toward CPV's Orange County, New York facility. Please allocate 58.0tpy for use in this capacity, and transfer use to CPV's draft permit. The Use of Emission Reduction Credits Form, signed by both parties, is enclosed herein to facilitate this transfer.

We would appreciate if the request to transfer could be processed as expeditiously as possible. Thank you for your assistance in the processing of this ERC transfer request. If any questions arise, please feel free to contact me at (781) 817-8972.

Best regards,

Michael Bruno

Michael T. Bruno
Manager, Development

Enclosures
CC: BGC Environmental Brokerage Services, L.P.
Attention: Lauren Kisling

Competitive Power Ventures, Inc
Attention: Steve Remillard

USE OF EMISSION REDUCTION CREDITS (ERC) FORM *

☐FACILITY ☐BROKER / ■USING ☐PURCHASING ERC (Check Appropriate Boxes)

(Facility) / (Broker) Name: CPV Valley Energy Center DEC ID#: 3335600136

Address: US RTE 6 (Section 4, Lots 38.32, 38.33, 40.22) Wawayanda, NY

Proposed Project Description: A combined cycle natural gas powered generating facility

Contact Name: Steve Remillard Phone #: (781) 817-8970

Name of Authorized Representative: Peter Podurgiel Title: Senior Vice President

Signature of Authorized Representative: [signature] Date: 4/19/2013

☐FACILITY ☐BROKER / ☐CREATING ■TRANSFERRING ERC (Check Appropriate Boxes)

S. Walter Packaging Corp.(f/k/a Uniflex Holdings, Inc.)
(Facility) / (Broker) Name. DEC ID#: 1-2822-00367

Address: 474 GRAND BLVD, WESTBURY, NY 11590

ERC Emission Source ID#(s) / ERC tpy: 58.0 / _____; _____ / _____;

_____ / _____; _____ / _____; **OR**

ERC Emission Unit ID#(s) / ERC tpy: _____ / _____; _____ / _____;

_____ / _____; _____ / _____;

Reduction Mechanism: Facility Shutdown

Name of Authorized Representative: [signature] Title: CHIEF FINANCIAL OFFICER

Signature of Authorized Representative: RICHARD GETTEN Date: 4/24/2013

AMOUNT OF EMISSION REDUCTION CREDIT BEING ■ USED / ☐ TRANSFERRED

(complete all that apply)

NO_x offsets _____ tpy	NO_x netting _____ tpy	PM-10 offsets _____ tpy	PM-10 netting _____ tpy
VOC offsets 58.0 tpy	VOC netting _____ tpy	PM-2.5 offsets _____ tpy	PM-2.5 netting _____ tpy
SO_2 offsets _____ tpy	SO_2 netting _____ tpy		

***NOTE**: Any previous Use of ERC Forms associated with the ERCs being used or transferred with this transaction must be attached.

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

April 19, 2013

Mr. Ajay Shroff
New York State Department of Environmental Conservation
Division of Air Resource
625 Broadway
Albany, NY 12233-3254

Re: NOx ERC Transfer Package

Dear Mr. Shroff:

Please accept this request to transfer 216.0 tons per year (tpy) of NOx emission reduction credits (ERCs) currently held by Sony Electronics, Inc. to CPV Valley LLC (CPV). These NOx ERCs were created at Sony's 777 Technology Drive, Mt. Pleasant, Pennsylvania facility and will be used toward CPV's Orange County, New York facility. Please allocate 216.0 tpy for use in this capacity and coordinate with Virendra Trivedi at Pennsylvania Department of Environmental Protection for the transfer to CPV's draft permit.

Please note that BGC Environmental Brokerage Services (BGC) is hereby authorized to act on behalf of CPV in the processing of the VOC ERC transfer. Please provide BGC a receipt upon acceptance of this transfer package. In addition, please provide BGC with the documentation related to the transfer. The mailing address for BGC is:

199 Water Street, 19th Floor
New York, NY 10038

We would appreciate if the request to transfer could be processed as expeditiously as possible. Thank you for your assistance in the processing of this ERC transfer request. If any questions arise, please feel free to call Lauren Kisling at (646) 346-6899 or me at (781) 817-8970.

Best regards,

Steven P. Remillard
Vice President, Development

USE OF EMISSION REDUCTION CREDITS (ERC) FORM *

☐FACILITY ☐BROKER / ■USING ☐PURCHASING ERC (Check Appropriate Boxes)

(Facility) / (Broker) Name: CPV Valley Energy Center DEC ID#: 3335600136

Address: US RTE 6 (Section 4, Lots 38.32, 38.33, 40.22) Wawayanda, NY

Proposed Project Description: A combined cycle natural gas powered generating facility

Contact Name: Steve Remillard Phone #: (781) 817-8970

Name of Authorized Representative: Peter Podurgiel Title: Senior Vice President

Signature of Authorized Representative: Date: 4/19/2013

☐FACILITY ☐BROKER / ☐CREATING ■TRANSFERRING ERC (Check Appropriate Boxes)

(Facility) / (Broker) Name: Sony Electronics, Inc. DEC ID#:

Address: 777 Technology Dr, Mt. Pleasant located in Pennsylvania

ERC Emission Source ID#(s) / ERC tpy: 216.0 / _____; _____ / _____;

_____ / _____; _____ / _____; **OR**

ERC Emission Unit ID#(s) / ERC tpy: _____ / _____; _____ / _____;

_____ / _____; _____ / _____;

Reduction Mechanism: Shutdown

Name of Authorized Representative: Chris Goodman Title: Vice President Finance & Accounting

Signature of Authorized Representative: Date: 4/26/13

AMOUNT OF EMISSION REDUCTION CREDIT BEING ■ USED / ☐ TRANSFERRED

(complete all that apply)

NO_x		PM-10	
offsets 216.0 tpy	netting _____ tpy	offsets _____ tpy	netting _____ tpy
VOC		PM-2.5	
offsets _____ tpy	netting _____ tpy	offsets _____ tpy	netting _____ tpy
SO_2			
offsets _____ tpy	netting _____ tpy		

***NOTE**: Any previous Use of ERC Forms associated with the ERCs being used or transferred with this transaction must be attached.

SONY

Sony Electronics Inc.
16530 Via Esprillo, San Diego, California 92127

April 26, 2013

New York State Department of Environmental Conservation
Division of Air Resource
Attn: Mr. Ajay Shroff
625 Broadway
Albany, NY 12233-3254
Via Overnight Mail

RE: NOx ERC Transfer Package

Dear Mr. Shroff:

Please accept this request to transfer 216.0 tons per year (tpy) of NOx emission reduction credits (ERCs) currently held by American Video Glass LLC (Sony Electronics Inc.) to CPV Valley LLC (CPV). These NOx ERCs were created at777 Technology Dr, Mt. Pleasant Pennsylvania facility and will be used toward CPV's Orange County, New York facility. Please allocate 216.0 tpy for use in this capacity and coordinate with Virendra Trivedi at Pennsylvania Department of Environmental Protection for the transfer to CPV's draft permit.

Please note that BGC Environmental Brokerage Services (BGC) is hereby authorized to act on behalf of Arbill in the processing of the NOx ERC transfer. Please provide BGC (and us) a receipt upon acceptance of this transfer package. In addition, please provide BGC (and us) with the documentation related to the transfer. The mailing address for BGC is:

199 Water Street, 19th Floor
New York, NY 10038

We would appreciate if the request to transfer could be processed as expeditiously as possible. Thank you for your assistance in the processing of this ERC transfer request. If any questions arise, please feel free to call Lauren Kisling at (646) 346-6899 or Christopher Goodman at (858) 942-2005.

Sincerely,

Chris Goodman
Vice President
Finance & Accounting

Arbill
Safer Every Day

April 25, 2013

Mr. Virendra Trivedi
Chief
Pennsylvania Department of Environmental Protection
NSR Section, Division of Permits, Bureau of Air Quality
Rachel Carson State Office Building
400 Market Street
Harrisburg, PA 17101
Via Overnight Mail

RE: VOC ERC Transfer Package

Dear Mr. Trivedi:

Please accept this request to transfer 17.0 tons per year (tpy) of VOC emission reduction credits (ERCs) currently held by Arbill Industries, Inc. (Arbill) for use by CPV Valley LLC (CPV) at its Orange County, New York facility. These VOC ERCs were created at Arbill's Philadelphia, Pennsylvania facility. Please allocate 17.0 tpy for use in this capacity and coordinate with Mr. Ajay Shroff (or any person replacing him) at New York State Department of Environmental Conservation for the use as part of CPV's draft permit.

Please note that BGC Environmental Brokerage Services (BGC) is hereby authorized to act on behalf of CPV in the processing of the VOC ERC transfer, including this request. Please provide BGC a receipt upon acceptance of this transfer package. In addition, please provide BGC with the documentation relating to this transfer. The mailing address for BGC is:

199 Water Street, 19th Floor
New York, NY 10038

We would appreciate if the request to transfer could be processed as expeditiously as possible. Thank you for your assistance in the processing of this ERC transfer request. If any questions arise, please feel free to call Lauren Kisling at (646) 346-6899 or Steve Remillard at (781) 817-9970.

Sincerely,

Thomas G. Strauss
Chief Financial Officer

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

April 19, 2018

Mr. Virendra Trivedi
Chief
Pennsylvania Department of Environmental Protection
NSR Section, Division of Permits, Bureau of Air Quality
Rachel Carson State Office Building
400 Market Street | Harrisburg, PA

Re: VOC ERC Transfer Package

Dear Mr. Trivedi:

Please accept this request to transfer 17.0 tons per year (tpy) of VOC emission reduction credits (ERCs) currently held by Arbill Industries, Inc. (Arbill) for the intended use of CPV Valley LLC (CPV) at its Orange County, New York facility. These VOC ERCs were created at Arbill's Philadelphia, Pennsylvania facility. Please allocate 17.0 tpy for use in this capacity and coordinate with Mr. Ajay Shroff at New York State's Department of Environmental Conservation for the transfer to CPV's draft permit.

Please note that BGC Environmental Brokerage Services (BGC) is hereby authorized to act on behalf of CPV in the processing of the VOC ERC transfer. Please provide BGC a receipt upon acceptance of this transfer package. In addition, please provide BGC with the documentation related to the transfer. The mailing address for BGC is:

199 Water Street, 19th Floor
New York, NY 10038

We would appreciate if the request to transfer could be processed as expeditiously as possible. Thank you for your assistance in the processing of this ERC transfer request. If any questions arise, please feel free to call Lauren Kisling at (646) 346-5899 or me at (781) 817-8970.

Best regards,

Steven P. Rendillard
Vice President, Development

CPV Valley Energy Center
50 Braintree Hill Office Park
Suite 300
Braintree, MA 02184

April 19, 2013

Mr. Virendra Trivedi
Chief
Pennsylvania Department of Environmental Protection
NSR Section, Division of Permits, Bureau of Air Quality
Rachel Carson State Office Building
400 Market Street I Harrisburg, PA

Re: NOx ERC Transfer Package

Dear Mr. Trivedi:

Please accept this request to transfer 216.0 tons per year (tpy) of NOx emission reduction credits (ERCs) currently held by Sony Electronics, Inc. to CPV Valley LLC (CPV). These NOx ERCs were created at Sony's 777 Technology Drive, Mt. Pleasant, Pennsylvania facility and will be used toward CPV's Orange County, New York facility. Please allocate 216.0 tpy for use in this capacity and coordinate with Mr. Ajay Shroff at New York State's Department of Environmental Conservation for the transfer to CPV's draft permit.

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New York, NY 10038

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Best regards,

Steven P. Remillard
Vice President, Development

SONY

Sony Electronics Inc.
16530 Via Esprillo, San Diego, California 92127

April 26, 2013

Pennsylvania Department of Environmental Protection
Attn: Virendra Trivedi
400 Market Street
12th Floor
Harrisburg, PA 17101
Via Overnight Mail

RE: NOx ERC Transfer Package

Dear Mr. Trivedi:

Please accept this request to transfer 216.0 tons per year (tpy) of NOx emission reduction credits (ERCs) currently held by American Video Glass LLC (Sony Electronics Inc.) to CPV Valley LLC (CPV). These NOx ERCs were created at 777 Technology Dr, Mt. Pleasant Pennsylvania facility and will be used toward CPV's Orange County, New York facility. Please allocate 216.0 tpy for use in this capacity and coordinate with Mr. Ajay Shroff [or any person replacing him] at New York State's Department of Environmental Conservation for the transfer to CPV's draft permit.

Please note that BGC Environmental Brokerage Services (BGC) is hereby authorized to act on behalf of CPV in the processing of the NOx ERC transfer. Please provide BGC a receipt upon acceptance of this transfer package. In addition, please provide BGC with the documentation relating to this transfer. The mailing address for BGC is:

199 Water Street, 19th Floor
New York, NY 10038

We would appreciate if the request to transfer could be processed as expeditiously as possible. Thank you for your assistance in the processing of this ERC transfer request. If any questions arise, please feel free to call Lauren Kisling at (646) 346-6899 or Christopher Goodman at (858) 942-2005.

Sincerely,

Chris Goodman
Vice President
Finance & Accounting