HARRIS BEACH PLLC
ATTORNEYS AT LAW

677 BROADWAY, SUITE 1101
ALBANY, NEW YORK 12207
518.427.9700

JAVID AFZALI
MEMBER
DIRECT: 518.701.2775
FAX: 518.427.0235
JAFZALI@HARRISBEACH.COM

August 15, 2023

VIA US AND ELECTRONIC MAIL

Mr. Daniel Whitehead
Division Director
Department of Environmental Conservation
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, NY 12233-1750
(daniel.whitehead@dec.ny.gov)

RE: CPV Valley, LLC – CPV Valley Energy Center Title V and Title IV Permit Applications DEC ID 3-3356-00136/000010 & 00009— Supplemental Response to August 24, 2022 Second Request for Additional Information ("Second RFI")

Dear Director Whitehead,

As you know, Harris Beach PLLC represents CPV Valley, LLC ("Valley" or "Applicant") with respect to its applications for a Title V and IV (Phase II Acid Rain) permit (collectively, the "Application") under the Clean Air Act and Article 19 of the New York Environmental Conservation Law ("ECL") for its state-of-the-art 630-megawatt ("MW") natural gas-fired combined cycle generating station located in Wawayanda, Orange County, New York (the "Facility"). This letter serves as a second supplement Valley's January 9, 2023 response to the New York State Department of Environmental Conservation's ("NYSDEC" or "Department") August 24, 2022 Second Request for Additional Information.

By letter dated March 13, 2023, Valley submitted an updated long form environmental assessment form ("EAF") Part 1 (dated March 6, 2023) for its applications under Title IV and Title V (the "March EAF"). On August 1, 2023 Valley held a public meeting in accordance with CP-29 and received comments on its Title V application, including the EAF. Based on those comments, Valley reviewed the March EAF and believes responses to EAF Question D(2)(g) and D(2)(h) needs to be revised. As such, enclosed herewith is a revised EAF Part 1 dated August 10, 2023 with the following changes:

1. EAF Question D(2)(g)(ii)- *In addition to emissions as calculated in the application, the project will generate ___ Tons/year (short tons) of Carbon Dioxide (CO_2).* The March EAF indicated ~2.16M tons. The revised EAF indicates 2,175,220 tons per year. Reason for Change: The March 2023 inadvertently reported the CO2e (as set forth on the Facility Emissions Summary [Title V Application page 3, attached] rather than CO2 as set forth in Table B-14 of the Title V Application (attached).

2. EAF Question D(2)(g)(ii)- *In addition to emissions as calculated in the application, the project will generate ___ Tons/year (short tons) of Nitrous Oxide (N_2O).* The March EAF indicated 183.0 tons. The revised EAF indicates 4.10 tons per year. Reason for Change: The March EAF inadvertently reported the NO_x (as set forth on the Facility Emissions Summary [Title V Application page 3, attached] rather than N_2O. The N_2O value of 4.10 tons per year in the revised EAF is calculated using the CO_2 / CO_2e draft permit limits. The calculated 4.10 tons of N_2O does not take credit for the operation of the NOx controls (DLN and SCR), which substantially reduces (up to 10x) the actual N_2O emission.

3. EAF Question D(2)(g)(ii)- *In addition to emissions as calculated in the application, the project will generate ___ Tons/year (short tons) of Hazardous Air Pollutants (HAP).* The March EAF indicated 13.8 tons per year. The revised EAF indicates 13.94 tons per year. Reason for Change: The HAP value was revised to make it consistent with Table B-12 (page 5 of 6) in the Title V Application (attached).

4. EAF Question D(2)(h)- *Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants landfills, composting facilities)? If Yes, Estimate methane generation in tons/year (metric). Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring).* The March EAF indicated "no" to this question. The facility will not "generate" methane, however, the response requires revision to include assumed methane released due to the incomplete combustion of the methane constituent of natural gas. The revised EAF indicates 37.2 metric tons per year, which is based on the assumptions and calculation factor set forth in 40 CFR 98 Subpart C Table C-2.

Thank you for your time and attention to Valley's application.

Very truly yours,

HARRIS BEACH PLLC

Javid Afzali

c.
M. Sanza, Esq. (mark.sanza@dec.ny.gov)

CPV Valley LLC

Title V Application Excerpts

Facility Emissions Summary

Table B-14 (CO_2 Emissions)

Table B-12 (Non-Criteria Emissions)

New York State Department of Environmental Conservation
Air Permit Application

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEC ID
3-3356-00136

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	

Appendix B: Table B-14
CPV Valley Energy Center
Facility-Wide Potential CO_2 Emissions

Source(s)	Natural Gas Only							Natural Gas + Oil - With Duct Burning								MATS Rule
	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)	MMBtu/yr (2 units)	Portion of Total
2 CTGs	Gas	17,520	1,998	649	110	677	1,925,676	Gas	16,080	1,998	649	110	677	1,767,401	16,387,028	79.14%
2 CTGs	Oil	0	0	636	157	0	0	Oil	1,440	2,145	636	157	1,060	242,510	3,089,304	**14.92%**
2 DBs	Gas	5,256	500	649	117.6	181	154,526	Gas	5,256	500	649	117.6	181	154,526	1,230,000	5.94%
Total CCs	(/year)	17,520	37,640,283	5,687,684	**111**	**731**	2,080,202	(/year)	17,520	37,851,865	5,677,831	**114**	**762**	2,164,438	20,706,332	

Source(s)	Natural Gas + Oil - No Duct Burning							Maximum Annual CO_2 (tons)	MMBtu/yr (2 units)	Portion of Total
	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		17,546,110	85.03%
2 CTGs	Oil	1,440	2,145	636	157	1,060	242,510		3,089,304	**14.97%**
2 DBs	Gas	0	0	649	117.6	0	0		0	0.00%
Total CCs	(/year)	17,520	35,223,865	5,677,831	**114**	**708**	2,009,911	2,164,438	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

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	51	51	51	51	-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	1,551
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	9.60E-04	9.60E-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	1.09E+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)	9.80E-05	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	3.63E-05	9.80E-05	0.00E+00	0.00E+00	0.00E+00	9.80E-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(h,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)	1.59E-03	1.59E-03	1.59E-03	1.59E-03	1.35E-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
(Page 2 of 6)

Fuel			Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate	Distillate
Ambient Temp.		°F	90	90	90	90	51	51	51	-5	-5	-5
Turbine Load			BASE	BASE	85%	70%	BASE	85%	70%	100%	85%	70%
Inlet Air Cooling			On	Off	Off	Off	Off	Off	Off	Off	Off	Off
CTG Heat Input-HHV		mmBtu/hr	1,757	1,698	1,504	1,303	1,894	1,662	1,436	2,145	1,867	1,606
1,3-Butadiene	a	(lb/hr)	2.81E-02	2.72E-02	2.41E-02	2.15E-02	3.03E-02	2.66E-02	2.37E-02	3.43E-02	2.99E-02	2.65E-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	4.26E-02	0.00E+00	0.00E+00	4.77E-02
2-Methylnapthalene		(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	2.26E-02	1.95E-02	2.92E-02	2.54E-02	2.18E-02
Acenaphthylene	a,b	(lb/hr)	2.87E-04	2.77E-04	2.45E-04	2.13E-04	3.09E-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	4.35E-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	9.89E+00	8.96E+00	1.23E+01	1.08E+01	9.74E+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	1.43E-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)	9.66E-02	9.34E-02	8.27E-02	7.17E-02	1.04E-01	9.14E-02	7.90E-02	1.18E-01	1.03E-01	8.85E-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	1.43E-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)	2.56E-03	2.47E-03	2.19E-03	1.90E-03	2.76E-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	1.43E-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)	5.45E-04	5.26E-04	4.66E-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)	8.43E-03	8.15E-03	7.22E-03	6.25E-03	9.09E-03	7.98E-03	6.89E-03	1.03E-02	8.96E-03	7.71E-03
Carbon Tetrachloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	3.09E-02	0.00E+00	0.00E+00	4.39E-02	0.00E+00	0.00E+00	4.91E-02
Chlorobenzene	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	3.24E-02	0.00E+00	0.00E+00	3.58E-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	3.66E-02	0.00E+00	0.00E+00	4.10E-02
Chromium	a	(lb/hr)	1.93E-02	1.87E-02	1.65E-02	1.43E-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	2.00E-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
Dibenzo(a,h)anthracene	a,b	(lb/hr)	1.89E-03	1.83E-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)	5.48E-03	5.30E-03	4.69E-03	4.07E-03	5.91E-03	5.19E-03	4.48E-03	6.69E-03	5.82E-03	5.01E-03
Fluorene	a,b	(lb/hr)	5.06E-03	4.89E-03	4.33E-03	3.75E-03	5.46E-03	4.79E-03	4.14E-03	6.18E-03	5.38E-03	4.63E-03
Formaldehyde	a	(lb/hr)	4.92E-01	4.75E-01	4.21E-01	3.65E-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	2.07E-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)	1.39E+00	1.34E+00	1.19E+00	1.03E+00	1.50E+00	1.31E+00	1.13E+00	1.69E+00	1.47E+00	1.27E+00
Mercury	a	(lb/hr)	2.11E-03	2.04E-03	1.80E-03	1.56E-03	2.27E-03	1.99E-03	1.72E-03	2.57E-03	2.24E-03	1.93E-03
Methlyene Chloride	a	(lb/hr)	0.00E+00	0.00E+00	0.00E+00	2.78E-02	0.00E+00	0.00E+00	3.06E-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
Napthalene	a,c	(lb/hr)	6.15E-02	5.94E-02	5.26E-02	4.59E-02	6.63E-02	5.82E-02	5.05E-02	7.51E-02	6.53E-02	5.65E-02
Nickel	a	(lb/hr)	8.08E-03	7.81E-03	6.92E-03	2.11E-02	8.71E-03	7.65E-03	2.23E-02	9.87E-03	8.59E-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)	1.19E-02	1.15E-02	1.02E-02	8.82E-03	1.28E-02	1.12E-02	9.72E-03	1.45E-02	1.26E-02	1.09E-02
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
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	4.65E-03	4.12E-03	3.57E-03	5.19E-03	4.55E-03	3.93E-03	5.88E-03	5.11E-03	4.40E-03
Selenium	a	(lb/hr)	4.39E-02	4.25E-02	3.76E-02	3.75E-02	4.74E-02	4.16E-02	4.14E-02	5.36E-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	4.65E-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	3.58E-02	0.00E+00	0.00E+00	3.95E-02	0.00E+00	0.00E+00	4.42E-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
(Page 3 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	51	51	51	51	-5	-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	1861	1364	2234	2234	2083	1551
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	9.15E-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
1,2-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)	9.88E-07	0.00E+00	9.88E-07	0.00E+00	0.00E+00	0.00E+00	3.66E-07	9.88E-07	0.00E+00	0.00E+00	0.00E+00	9.88E-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)	9.35E-03	9.35E-03	9.35E-03	9.35E-03	8.51E-03	6.97E-03	1.01E-02	1.01E-02	1.01E-02	9.38E-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	3.51E-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(h,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)	3.01E-02	2.57E-02	3.01E-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	2.86E-02	2.13E-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)	9.88E-02	0.00E+00	9.88E-02	0.00E+00	0.00E+00	0.00E+00	3.66E-02	9.88E-02	0.00E+00	0.00E+00	0.00E+00	9.88E-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	51	51	51	-5	-5	-5
Turbine Load			BASE	BASE	85%	70%	BASE	85%	70%	1	85%	70%
Inlet Air Cooling			On	Off	Off	Off	Off	Off	Off	Off	Off	Off
CTG Heat Input-HHV		mmBtu/hr	1,757	1,698	1,504	1,303	1,894	1,662	1,436	2,145	1,867	1,606
1,3-Butadiene	a	(g/s)	3.54E-03	3.42E-03	3.03E-03	2.71E-03	3.82E-03	3.35E-03	2.99E-03	4.32E-03	3.76E-03	3.34E-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	4.88E-03	0.00E+00	0.00E+00	5.37E-03	0.00E+00	0.00E+00	6.01E-03
2-Methylnapthalene		(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	2.23E-03	3.25E-03	2.85E-03	2.46E-03	3.68E-03	3.20E-03	2.75E-03
Acenaphthylene	a,b	(g/s)	3.61E-05	3.49E-05	3.09E-05	2.68E-05	3.89E-05	3.42E-05	2.95E-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	1.02E+00	1.39E+00	1.25E+00	1.13E+00	1.55E+00	1.36E+00	1.23E+00
Anthracene	a,b	(g/s)	1.74E-04	1.68E-04	1.49E-04	1.29E-04	1.88E-04	1.65E-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	1.81E-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	4.24E-04	6.17E-04	5.41E-04	4.68E-04	6.99E-04	6.08E-04	5.23E-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)	3.23E-04	3.12E-04	2.76E-04	2.39E-04	3.48E-04	3.05E-04	2.64E-04	3.94E-04	3.43E-04	2.95E-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	6.49E-05	5.61E-05	8.38E-05	7.29E-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	4.09E-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	1.81E-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
Dibenzo(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	3.32E-03	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	4.09E-03
Fluoranthene	a,b	(g/s)	6.91E-04	6.67E-04	5.91E-04	5.12E-04	7.45E-04	6.53E-04	5.64E-04	8.43E-04	7.34E-04	6.31E-04
Fluorene	a,b	(g/s)	6.38E-04	6.16E-04	5.46E-04	4.71E-04	6.88E-04	6.03E-04	5.21E-04	7.79E-04	6.78E-04	5.83E-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
Methlyene Chloride	a	(g/s)	0.00E+00	0.00E+00	0.00E+00	3.50E-03	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00	4.31E-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
Napthalene	a,c	(g/s)	7.75E-03	7.49E-03	6.61E-03	5.78E-03	8.35E-03	7.31E-03	6.37E-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	2.93E-03	1.24E-03	1.08E-03	3.28E-03
PAH	a,b	(g/s)	8.86E-03	8.56E-03	7.58E-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
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
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)	6.06E-04	5.86E-04	5.19E-04	4.50E-04	6.54E-04	5.74E-04	4.96E-04	7.40E-04	6.44E-04	5.54E-04
Selenium	a	(g/s)	5.53E-03	5.35E-03	4.74E-03	4.73E-03	5.97E-03	5.24E-03	5.21E-03	6.76E-03	5.88E-03	5.83E-03
Sulfuric Acid		(g/s)	1.03E-01	9.99E-02	8.85E-02	7.67E-02	1.11E-01	9.77E-02	8.45E-02	1.26E-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	4.98E-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		2 x 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	3.24E-02	0.032432	**3.25E-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	0.017171	3.43E-02	0.034343	**3.43E-02**
2-Methylnapthalene		(tons/yr)	1.55E-05	1.55E-05	1.55E-05	0.000015	3.09E-05	0.000031	**3.29E-05**
3-Methylchloranthrene	a,b	(tons/yr)	1.16E-06	1.16E-06	1.16E-06	0.000001	2.32E-06	0.000002	**2.47E-06**
7,12-Dimethylbenz(a)anthracene	a,b	(tons/yr)	1.03E-05	1.03E-05	1.03E-05	0.000010	2.06E-05	0.000021	**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	0.000893	1.79E-03	0.001787	**1.80E-03**
Acetaldehyde	a	(tons/yr)	3.91E-01	3.77E-01	3.91E-01	0.391314	7.83E-01	0.782628	**7.83E-01**
Acrolein	a	(tons/yr)	6.26E-02	5.73E-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-03	1.63E-03	1.63E-03	0.001631	3.26E-03	0.003261	**3.27E-03**
Arsenic	a	(tons/yr)	1.29E-04	8.62E-03	8.62E-03	0.008623	1.72E-02	0.017246	**1.73E-02**
Barium		(tons/yr)	2.83E-03	2.83E-03	2.83E-03	0.002834	5.67E-03	0.005668	**6.04E-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(h,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	1.352647	2.71E+00	2.705294	**2.88E+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	0.017692	3.54E-02	0.035383	**3.54E-02**
Chlorobenzene	a	(tons/yr)	0.00E+00	1.44E-02	1.44E-02	0.014396	2.88E-02	0.028792	**2.88E-02**
Chloroform	a	(tons/yr)	0.00E+00	1.47E-02	1.47E-02	0.014743	2.95E-02	0.029486	**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	**1.17E-03**
Dibenzo(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	1.996765	3.99E+00	3.993529	**4.26E+00**
Ethylbenzene	a	(tons/yr)	3.13E-01	2.87E-01	3.13E-01	0.313051	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	3.69E-03	3.69E-03	0.003688	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	1.252190	2.50E+00	2.504380	**2.51E+00**
Hexane	a	(tons/yr)	1.16E+00	1.16E+00	1.16E+00	1.159412	2.32E+00	2.318824	**2.47E+00**
Indeno(1,2,3-cd)pyrene	a,b	(tons/yr)	8.36E-04	1.83E-03	1.83E-03	0.001833	3.67E-03	0.003665	**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)	2.45E-04	6.10E-01	6.10E-01	0.610283	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**
Methlyene 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	**1.51E-03**
Napthalene	a,c	(tons/yr)	1.31E-02	3.91E-02	3.91E-02	0.039092	7.82E-02	0.078185	**7.85E-02**
Nickel	a	(tons/yr)	1.35E-03	1.07E-02	1.07E-02	0.010719	2.14E-02	0.021438	**2.16E-02**
PAH	a,b	(tons/yr)	2.15E-02	5.06E-02	5.06E-02	0.050641	1.01E-01	0.101283	**1.01E-01**
Pentane		(tons/yr)	1.67E+00	1.67E+00	1.67E+00	1.674706	3.35E+00	3.349412	**3.37E+00**
Phenanathrene	a,b	(tons/yr)	7.90E-03	1.25E-02	1.25E-02	0.012475	2.49E-02	0.024949	**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	1.030588	2.06E+00	2.06176	**2.20E+00**
Propylene		(tons/yr)	0.00E+00	0.00E+00	0.00E+00	0.000000	0.00E+00	0.000000	**7.76E-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	0.004247	8.49E-03	0.008495	**8.51E-03**
Selenium	a	(tons/yr)	1.55E-05	1.93E-02	1.93E-02	0.019320	3.86E-02	0.038641	**3.86E-02**
Sulfuric Acid		(tons/yr)	6.53E+00	6.36E+00	6.53E+00	6.531507	1.31E+01	13.063013	**1.31E+01**
Tetrachloroethylene	a	(tons/yr)	0.00E+00	1.87E-02	1.87E-02	0.018732	3.75E-02	0.037465	**3.75E-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	0.015899	3.18E-02	0.031799	**3.18E-02**
Vanadium		(tons/yr)	1.48E-03	1.48E-03	1.48E-03	0.001481	2.96E-03	0.002963	**3.16E-03**
Vinyl Chloride	a	(tons/yr)	0.00E+00	3.05E-02	3.05E-02	0.030469	6.09E-02	0.060938	**6.09E-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	5.75E-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	0.018679	3.74E-02	0.037359	**3.98E-02**

	Facility	2xCTG/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
(Page 6 of 6)

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 CT Load (80%-100%)	Table 3.4-1 Gas Fired Turbines CT Load (<80%)	Table 3.1-4 and 3.1-5 Oil-Fired Turbines CT Load (80%-100%)	Table 3.4-2 Oil-Fired Turbines CT 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-Methylnapthalene					
3-Methylchloranthrene	a,b				
7,12-Dimethylbenz(a)anthracene	a,b				
Acenaphthene	a,b	8.53E-08		1.36E-05	
Acenaphthylene	a,b	8.53E-08		1.63E-07	
Acetaldehyde	a	4.00E-05	4.45E-05		3.03E-05
Acrolein	a	6.40E-06	8.31E-06		
Ammonia					
Anthracene	a,b	1.14E-07		7.86E-07	
Arsenic	a			< 1.10E-05	< 1.10E-05
Barium					
Benz(a)anthracene	a,b	8.53E-08		2.58E-06	
Benzene	a	1.20E-05	1.03E-04	5.50E-05	5.48E-05
Benzo(a)pyrene	a,b	5.69E-08			
Benzo(b)fluoranthene	a,b	8.53E-08		9.54E-07	
Benzo(b,k)fluoranthene					
Benzo(g,h,i)perylene	a,b	5.69E-08		1.46E-06	
Benzo(k)fluoranthene	a,b	8.53E-08		9.54E-07	
Beryllium	a			< 3.10E-07	< 3.07E-07
Butane					
Cadmium	a			4.80E-06	3.75E-06
Carbon Tetrachloride	a				< 3.06E-05
Chlorobenzene	a				< 2.49E-05
Chloroform	a				< 2.55E-05
Chromium	a			1.10E-05	8.43E-06
Chrysene	a,b	8.53E-08		1.53E-06	
Cobalt	a				
Copper					
Dibenzo(a,h)anthracene	a,b	5.69E-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		2.88E-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	7.89E-04
Mercury	a			1.20E-06	1.20E-06
Methlyene Chloride	a				< 2.13E-05
Molybdenum					
Napthalene	a,c	1.30E-06	1.37E-06	3.50E-05	3.52E-05
Nickel	a			< 4.60E-06	1.62E-05
PAH	a,b	< 2.20E-06	2.25E-06	< 4.00E-05	4.03E-05
Pentane					
Phenanathrene	a,b	8.06E-07		6.77E-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					

Notes 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	3.88%	34.00%
Acenaphthylene	< 1.80E-06	2.53E-07	3.88%	0.41%
Anthracene	< 2.40E-06	1.22E-06	5.17%	1.97%
Benz(a)Anthracene	< 1.80E-06	4.01E-06	3.88%	6.46%
Benzo(a)pyrene	< 1.20E-06		2.59%	0.00%
Benzo(b)fluoranthene	< 1.80E-06	1.48E-06	3.88%	2.39%
Benzo(g,h,I)perylene	< 1.20E-06	2.26E-06	2.59%	3.64%
Benzo(k)fluoranthene	< 1.80E-06	1.48E-06	3.88%	2.39%
Chrysene	< 1.80E-06	2.38E-06	3.88%	3.84%
Dibenzo(a,h)anthracene	< 1.20E-06	1.67E-06	2.59%	2.69%
Fluoranthene	3.00E-06	4.84E-06	6.47%	7.80%
Fluorene	2.80E-06	4.47E-06	6.03%	7.20%
Indeno(1,2,3-cd)pyrene	< 1.80E-06	2.14E-06	3.88%	3.45%
Phenanathrene	1.70E-05	1.05E-05	36.64%	16.92%
Pyrene	5.00E-06	4.25E-06	10.78%	6.85%
Totals	4.64E-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, filename - "catef.exe"

Sulfuric acid mist (H_2SO_4) emissions based on mass balance of sulfur in fuel and SO2->SO3 Conversion.

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

CPV Valley LLC

SEQRA EAF Part 1

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: CPV Valley Energy Center - Title IV / V Permit Application		
Project Location (describe, and attach a general location map): 3330 ROUTE 6, MIDDLETOWN, NY 10940 - Town of Wawayanda, Orange County Tax Parcels 4-1-38.32, 4-1-38.3, and 4-1-40.22.		
Brief Description of Proposed Action (include purpose or need): ----------[SEE ATTACHMENT 1]----------		
Name of Applicant/Sponsor: CPV VALLEY LLC	Telephone: (781) 848-2202 E-Mail: datwood@cpv.com	
Address: 8403 Colesville Rd Ste 915		
City/PO: Silver Spring	State: MD	Zip Code: 20910
Project Contact (if not same as sponsor; give name and title/role): Donald Atwood, Asset Manager	Telephone: (781) 848-2202 E-Mail: datwood@cpv.com	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☐Yes ☑No		
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Town of Wawayanda Planning Board (SEQRA Lead Agency) - no further review required	DEIS / FEIS complete; SEQRA Findings Statement adopted May 23, 2012
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☐Yes ☑No		
e. County agencies ☐Yes ☑No		
f. Regional agencies ☐Yes ☑No		
g. State agencies ☐Yes ☑No		
h. Federal agencies ☑Yes ☐No	US EPA	N/A

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Facility approved and operating under Town Manufacturing / Industrial Zoning District regulations

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? See DEIS 3-10 to 3-13

b. What police or other public protection forces serve the project site?
See DEIS 6.3.2.2

c. Which fire protection and emergency medical services serve the project site?
See DEIS 6.3.2.2

d. What parks serve the project site?
See DEIS p. 3-8

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? The proposed action is for the approval of an application for permits under Title V (Air) and Title IV (Acid Rain) of the Clean Air Act for an existing and operational electric generation facility operating under an ASF permit.

b. a. Total acreage of the site of the proposed action? 122 acres
b. Total acreage to be physically disturbed? 0 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 122 acres

c. Is the proposed action an expansion of an existing project or use? ☑ Yes ☐ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % 0 % physical expansion Units: permit for existing use

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
_____
ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☐Yes ☑No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐Yes ☑No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

i*v.* Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☐No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☑Yes ☐No

If Yes:

i. Total anticipated water usage/demand per day: See DEIS section 12.2 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☐No

If Yes:

- Name of district or service area: Greywater from City of Middletown Sewage Treatment Plant
- Does the existing public water supply have capacity to serve the proposal? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No
- Do existing lines serve the project site? ☑Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☑No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑Yes ☐No

If Yes:

i. Total anticipated liquid waste generation per day: DEIS section 12.3 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

Prcoess wastewater

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: City of Middletown Sewage Treatment Plant
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

  If Yes:
  - Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:
- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

n/a

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

See DEIS section 12.3

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

See DEIS section 2.7

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☑ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☑ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☑ Yes ☐ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

n/a Facility is already constructed and operational

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

n/a Facility is already constructed and operational

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

see Title V application and attachments

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☑ Yes ☐ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☑ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:
- 2,175,203 Tons/year (short tons) of Carbon Dioxide (CO_2)
- 4.10 Tons/year (short tons) of Nitrous Oxide (N_2O)
- 0 Tons/year (short tons) of Perfluorocarbons (PFCs)
- 0 Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- 0 Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- 13.94 Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☑ Yes ☐ No

If Yes:

i. Estimate methane generation in tons/year (metric): 37.2

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): Project design does not include methane capture, control, or elimination measures . Incomplete combustion of natural gas is assumed result in emissions of methane, which are estimated w/ factor = 0.001 kg/mmBtu (40 CFR 98 Subpart C Table C-2)

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐ Yes ☑ No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐ Yes ☑ No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐ Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): See DEIS section 8.0

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease 0

iv. Does the proposed action include any shared use parking? ☐ Yes ☐ No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐ Yes ☐ No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐ Yes ☐ No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐ Yes ☐ No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐ Yes ☑ No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐ Yes ☐ No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: n/a
- Saturday: n/a
- Sunday: n/a
- Holidays: n/a

ii. During Operations:

- Monday - Friday: 24/7/365
- Saturday: _____
- Sunday: _____
- Holidays: _____

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

Noise addressed in DEIS section 10.0

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: addressed in DEIS section 10.0

n. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

lighting addressed in DEIS section 2.4.3, 5.4.8, 5.5

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: lighting addressed in DEIS section 2.4.3, 5.4.8, 5.5

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☑ Yes ☐ No

If Yes:

i. Product(s) to be stored petroleum, ammonia, water

ii. Volume(s) 965k gal per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

See DEIS section 2.4.2.10

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: n/a tons per _____ (unit of time)
- Operation : See DEIS 12.8 tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction:
- Operation: See DEIS 12.8

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction:
- Operation: See DEIS 12.8

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☑ Industrial ☑ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☑ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

See DEIS section 3.3

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	21.5	21.5	0
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	100.75	100.75	0
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No

If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____

_____

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 50-82 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:
silty loams DEIS 11.3.2 %
sandy loams DEIS 11.3.2 %
gravelly loams DEIS 11.3.2 %

d. What is the average depth to the water table on the project site? Average: Table 11-1 feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☐ Moderately Well Drained: _____% of site
☐ Poorly Drained _____% of site
See DEIS Table 11-1

f. Approximate proportion of proposed action site with slopes:
☐ 0-10%: _____% of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site
See DEIS section 11.3.1

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features. **See DEIS section 13.3**

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 855.5-183 Classification B
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters, NYS Wetland, Federal Waters, Fe... Approximate Size NYS Wetland (in a...
- Wetland No. (if regulated by DEC) MD-23

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☑ Yes ☐ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____
Name - Pollutants - Uses:Monhagen Brook and tribs – Nutrients;Unknown Toxicity – Recreation;Aquatic Life

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☑ Yes ☐ No
If Yes:

i. Name of aquifer: Principal Aquifer

m. Identify the predominant wildlife species that occupy or use the project site:
See DEIS Table 14-1

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☑ Yes ☐ No

If Yes:
i. Species and listing (endangered or threatened):
Indiana Bat

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing:

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use:

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☑ Yes ☐ No
If Yes, provide county plus district name/number: ORAN002

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No
i. If Yes: acreage(s) on project site?
ii. Source(s) of soil rating(s):

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☑ Yes ☐ No
If Yes:
i. CEA name: Ridge Preservation Areas
ii. Basis for designation: Preserve ridgelines to reduce erosion
iii. Designating agency and date: Agency:Wawayanda, Town of, Date:12-2-93

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Donald Atwood Date August 10 , 2023

Signature _____ Title Asset Manager

PRINT FORM

EAF Mapper Summary Report

Friday, March 3, 2023 8:29 AM

Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	855.5-183
E.2.h.iv [Surface Water Features - Stream Classification]	B
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters, NYS Wetland
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):114.2
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	MD-23
E.2.h.v [Impaired Water Bodies]	Yes

E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]	Name - Pollutants - Uses:Monhagen Brook and tribs – Nutrients;Unknown Toxicity – Recreation;Aquatic Life
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Indiana Bat
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	Yes
E.3.a. [Agricultural District]	ORAN002
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	Yes
E.3.d [Critical Environmental Area - Name]	Ridge Preservation Areas
E.3.d.ii [Critical Environmental Area - Reason]	Preserve ridgelines to reduce erosion
E.3.d.iii [Critical Environmental Area – Date and Agency]	Agency:Wawayanda, Town of, Date:12-2-93
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

EAF Attachment 1

The proposed action is for the approval of an application for permits under Title V (Air) and Title IV (Acid Rain) of the Clean Air Act.

CPV Valley Energy LLC (Valley) currently operates the CPV Valley Energy Center (the Facility), a nominal net 680-megawatt (MW) combined-cycle gas turbine electric generating facility, on a site located in Wawayanda, Orange County, New York.

The Facility consists of two Siemens F-class combustion turbine generators (CTGs) operating in combined-cycle mode with supplemental firing of the heat recovery steam generators (HRSGs). The Facility includes a natural gas-fired auxiliary boiler and a ULSD-fired emergency fire pump engine. The auxiliary boiler and emergency fire pump engine have the same rating and emissions as those contained in the original ASF permit issued by NYS DEC. In addition to the air emitting equipment, the Facility has one steam turbine generators (STGs), an air-cooled condenser (ACC) and associated auxiliary equipment and systems. Each combined cycle generating unit consisting of the CTG, HRSG and STG is exhausted through its own stack.

The Facility was previously approved (ASF Permit ID: 3-3356-00136/00001) by the New York State Department of Environmental Conservation (NYS DEC). After a full environmental review, including the preparation of an environmental impact statement (EIS), the initial ASF permit for the Facility was issued on August 1, 2013 and required Valley to apply for a Title V permit within 1 year from start of operations. The Facility commenced operations January 2018. Valley submitted applications for Title V and Title IV Acid Rain air permits to NYS DEC under to 6 NYCRR Part 201 in August 2018 and continued operations under SAPA § 401. Valley's application was deemed complete by the Department on May 27, 2019 commencing an 18-month technical review period under Part 201. NYS DEC revoked its initial completeness determination on November 29, 2020, in part, due to new requirements under Section 7 of the Climate Leadership and Community Protection Act (Chapter 106 of the Laws of 2019, eff. Jan. 2020)(the "CLCPA").

Valley has since supplemented its initial application with additional information necessary to satisfy the CLCPA requirements.