CEMSERVICES

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Air Quality
County:
JAN 18 2012

FINAL REPORT

UGI DEVELOPMENT COMPANY HUNLOCK CREEK ENERGY CENTER
HUNLOCK CREEK, PA
COMPLIANCE EMISSIONS TEST PROGRAM
COMBUSTION TURBINE UNIT 5 FIRING GAS

DECEMBER, 2011

Source Designation:
Hunlock Creek Energy Center
390 Route 11 PO Box 224
Combustion Turbine 5
Hunlock Creek, Pa. 18621

Prepared for:
UGI Development Company
Hunlock Creek Energy Center
390 Route 11 PO Box 224
Hunlock Creek, Pa. 18621

Prepared by:
CEMServices Inc.
360 Old Colony Road, Suite 1
Norton, Massachusetts 02766

The information contained in this report is true and accurate to the best of my knowledge.

Sean MacKay
Technical Director, QSTI

1-16-2012
Date

2. SUMMARY OF RESULTS

TABLE 2-1
UNIT 5 – FIRING GAS NO DUCTS

Run		1	2	3	Average	Permit Limit	Resu
PM 2.5 Filterable	LB/MMBtu	0.0006	0.0007	0.0007	**0.0007**	-	-
	LB/HR	0.34	0.39	0.34	**0.36**	-	-
PM10 Filterable	LB/MMBtu	0.0005	0.0013	0.0007	**0.0008**	-	-
	LB/HR	0.29	0.69	0.39	**0.46**	-	-
PM 2.5/10 Total Filterable	LB/MMBtu	0.0011	0.0020	0.0014	**0.0015**	-	-
	LB/HR	0.63	1.08	0.73	**0.81**	-	-
Condensable PM (CPM)	LB/MMBtu	0.0024	0.0015	0.0027	**0.0022**	-	-
	LB/HR	1.28	0.80	1.45	**1.18**	-	-
PM 2.5/10/CPM Total	LB/MMBtu	0.0035	0.0035	0.0041	**0.0037**	**0.0141**	Pas
	LB/HR	1.91	1.88	2.18	**1.99**	-	-
H2SO4	LB/MMBtu	0.0000	0.0000	0.0000	**0.0000**	**0.0009**	Pass
SO2	LB/MMBtu	0.0015	0.0014	0.0013	**0.0014**	**0.0030**	Pass
Non Methane VOC	PPM @ 15% O2	0.00	0.26	0.00	**0.09**	**1.20**	Pass
NOx	PPM @ 15% O2	2.44	2.25	2.02	**2.24**	**2.50**	Pass
CO	PPM @ 15% O2	1.47	1.84	2.30	**1.87**	**4.00**	Pass
NH3	PPM @ 15% O2	3.8	3.9	3.8	**3.8**	-	-
	LB/HR	2.73	2.75	2.68	**2.72**	**27.7 tons/yr**	Pass

2. SUMMARY OF RESULTS (continued)

TABLE 2-2
UNIT 5 – FIRING GAS WITH DUCTS

Run		1	2	3	Average	Permit Limit	R
PM 2.5 Filterable	LB/MMBtu	0.0015	0.0006	0.0003	**0.0008**	-	
	LB/HR	0.83	0.34	0.14	**0.44**	-	
PM10 Filterable	LB/MMBtu	0.0022	0.0003	0.0011	**0.0012**	-	
	LB/HR	1.22	0.19	0.58	**0.66**	-	
PM 2.5/10 Total Filterable	LB/MMBtu	0.0037	0.0009	0.0014	**0.0020**	-	
	LB/HR	2.05	0.53	0.72	**1.10**	-	
Condensable PM (CPM)	LB/MMBtu	0.0036	0.0031	0.0017	**0.0028**	-	
	LB/HR	1.97	1.74	0.96	**1.56**	-	
PM 2.5/10/CPM Total	LB/MMBtu	0.0073	0.0040	0.0031	**0.0048**	**0.0141**	
	LB/HR	4.02	2.27	1.68	**2.66**	-	
H2SO4	LB/MMBtu	0.0000	0.0000	0.0000	**0.0000**	**0.0009**	
SO2	LB/MMBtu	0.0023	0.0024	0.0013	**0.0020**	**0.0030**	
Non Methane VOC	PPM @ 15% O2	0.00	1.66	0.98	**0.88**	**1.20**	
NOx	PPM @ 15% O2	2.00	1.99	1.93	**1.97**	**2.90**	
CO	PPM @ 15% O2	2.22	2.27	2.08	**2.19**	**4.00**	
NH3	PPM @ 15% O2	3.1	3.8	3.6	**3.5**	-	
	LB/HR	2.29	2.81	2.64	**2.58**	**27.7 tons/yr**	