

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

University of Kentucky (UK) - Main Campus University Of Kentucky 355 Cooper Dr Lexington, KY 40506	Plant Location 402 Administrative Dr Lexington, KY 40506
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Attn: Andrea Smith **Phone:** 859-218-6265 **Fax:**
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Record Date **Principal Product** **Number of Employees** **Area in Acres**
2021/01 UNIVERSITY 850 0.00

State Plant Classification

8; TitleV Major/SynthMnr

SIC Code	SIC Description	NAIC Code	NAIC Description
8221	Colleges and Universities	61131	Colleges, Universities, and Professional Schools
8211	Elementary and Secondary Schools	23332	Commercial and Institutional Building Construction
1794	Excavation Work	23593	Excavation Contractors
1542	Nonresidential Construction, Nec		
1522	Residential Construction, Nec		

Program Code	Subpart	Operating Status	Compliance Status
9-NSPS	9-DB-Indus-Com-Institin Steam Generator	O-Operating	4-In Compliance - Certification
0-SIP Source	Not Applicable	O-Operating	4-In Compliance - Certification
9-NSPS	9-DC-Small Indus-Com-InstitinSteamGenratr	O-Operating	4-In Compliance - Certification
9-NSPS	9-IIII-Compression Ignition Int. Comb Eng	O-Operating	4-In Compliance - Certification
9-NSPS	9-JJJJ-StationarySparkIgnitionIntCombEng	O-Operating	4-In Compliance - Certification
G-Area Source MACT	G-ZZZZ-Recipro. Int. Comb Engine (RICE)	O-Operating	
G-Area Source MACT	G-6J-Ind/Com/Inst Boilers	O-Operating	
Title V Permit	Not Applicable	O-Operating	4-In Compliance - Certification

Plant Emission Totals in Tons Per Year

Pollutant ID/CAS	Pollutant Description	Actual	Uncontrolled	Title V PTE	Max Potential
75-07-0	Acetaldehyde	0.0000011	0.0000011	0.0003153	0.0003153
71-43-2	Benzene	0.0010518	0.0010518	0.0464083	0.0464083
124-38-9	Carbon Dioxide	80454.5177855	80454.5177855	889271.2215036	889271.2215036
16887-00-6	Chloride	0.1021605	0.1021605	1.9723082	1.9723082
630-08-0	CO (Carbon Monoxide)	39.9963344	39.9963344	538.7618605	538.7618605
50-00-0	Formaldehyde	0.0008984	0.0008984	0.0363228	0.0363228
110-54-3	Hexane; N-Hexane	1.0756331	1.0756331	7.7762347	7.7762347
7647-01-0	Hydrochloric Acid	1.8860400	1.8860400	60.6388102	60.6388102
7664-39-3	Hydrofluoric Acid	0.1964625	0.1964625	8.5309216	8.5309216
7439-92-1	Lead, Total (as Pb)	0.0013118	0.0013118	0.0514537	0.0514537
7439-97-6	Mercury, Total (as Hg)	0.0000327	0.0000327	0.0074296	0.0074296
74-82-8	Methane	1.6185648	1.6185648	17.2705046	17.2705046
10024-97-2	Nitrous Oxide	1.3709944	1.3709944	11.8320582	11.8320582
10102-44-0	NO2 (Nitrogen Dioxide)	81.9561152	81.9561152	1275.5284652	1275.5284652
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	10.9812693	10.9895853	309.8069202	309.8069202
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	10.2660477	10.2743637	305.2248674	305.2248674
PM-FIL	PT (Particulate Matter)	11.0052786	11.0135946	310.5326837	310.5326837
7446-09-5	SO2 (Sulfur Dioxide)	40.2387401	40.2387401	1738.1778277	1738.1778277
108-88-3	Toluene	0.0003713	0.0003713	0.0156293	0.0156293
VOC	VOC (Volatile Organic Compounds)	3.6628164	3.6628164	60.9234081	60.9234081
1330-20-7	Xylenes (Total)	0.0002666	0.0002666	0.0110492	0.0110492

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Plant Notes from MasterFile:

COMMENTS:

92.267 ALL CORRESPONDENCE RELATING TO THE MEDICAL WASTE INCINERATOR SHOULD BE SENT TO MR ED MCCLURE, 800 ROSE

DATA PROCESSING NOTES ST. LEXINGTON KY 40536-0084.

PLANT BACKGROUND NOTES:

86.038 EP 03 CENTRAL PLANT #3 GAS BOILER WAS REMOVED NOVEMBER OF 1983 IT HAD NOT BEEN OPERATED FOR 15 YEARS

PERMIT EVAL & REVIEW NOTES:

79.036 C-77-35A TWO COAL BOILERS

80.340 3670 INCINERATOR AT A HOSPITAL. 4166 TWO COAL FIRED BOILERS AT A UNIVERSITY.

92.150 B502/MEDICAL WASTE INCINERATOR

97.008 KYD007400724

Operating restrictions from Permit #V-03-023R2:

**To preclude the application of 40 CFR 63-DDDDD, source wide usage of coal @ all coal-fired units shall not exceed 47,250 tpy.

**For EUs 60-68, to preclude PSD, each unit may not operate more than 500 hours per year each, and the total operating hours for these units may not exceed 1800 hours.

Other operating limitations can be found within the permit language. Emissions limitations are based on a sliding scale. Limitations can be found in the permit at each emissions unit, and all are outlined in Section D (pg 31 of 45) of Permit V-03-023R2. lcs 05/15/2007

Per 2007 survey, EU22-48 (COMB9) ID 2 fuel oil removed. The units do not have the capability to burn fuel oil. dap 3/6/2008

Updated EU 7,8,&13 PT and HCl emission factors based on stack tests. 9/24/13 bdh

Operating Restrictions from V-13-024 R1:

*To preclude PSD and 40 CFR 63, Subpart DDDDD and to satisfy 40 CFR 63, Subpart JJJJJJ, source wide usage of coal shall not exceed 23,200 tpy and HCl must not exceed 9.0 tpy.

*To preclude PSD, the combined emissions from Comb 010 (EU51) and Comb 011 (EU53) shall not exceed 30 tpy NO₂; 26 tpy SO₂; and 32 tpy CO. Additionally, Comb 011 (EU53) operating hours shall not exceed 200 hr/yr and 27,000 gal/yr of #2 Fuel Oil.

*To preclude PSD, the combined operating hours from Comb 019 (EU60-62, 67-69) shall not exceed 500 hr/yr.

*To preclude PSD, the sulfur percentage of #2 Fuel Oil from Comb 018 (EU15), Comb 019 (EU60-62, 67-69), Comb 020 (EU16), Comb 021 (EU63-66) shall not exceed 0.3%.

*To preclude PSD, the combined operating hours from Comb 021 (EU63-66) shall not exceed 500 hr/yr.

*To preclude PSD, the combined emissions from Comb 018 (EU15), Comb 019 (EU60-62, 67-69), Comb 020 (EU16), Comb 021 (EU63-66), Comb 022 (EU75), Comb 023 (EU76), Comb 024 (EU77) and EU79 (not in EIS as of 3/11/16) shall not exceed 36 tpy NO₂; 36 tpy SO₂; and 90 tpy CO.

*To preclude PSD, the combined operating hours from Comb 018 (EU15), Comb 019 (EU60-62, 67-69), Comb 020 (EU16), Comb 021 (EU63-66), Comb 022 (EU22), Comb 023 (EU76), Comb 024 (EU77) and EU 79 (not in EIS as of 3/11/16) shall not exceed 1800 hr/yr.

*To preclude 40 CFR 63, Subpart JJJJJJ, emission units Comb 001 (EU01), Comb 002 (EU02), Comb 005 (EU09), Comb 006 (EU10), Comb 010 (EU51), and Comb 020 (EU16) shall not operate more than 48 hr/yr each while burning #2 Fuel Oil.

Due to the structure of the emissions inventory, the potential of these emissions in the EIS are over estimated and do not reflect the emission limitations of the permit V-13-024 R1. 08/02/2016 jfl.

Per 2015 survey, emission unit Comb 25 (IA1) was permanently shut down and removed from the database. Unit was removed with the demolition of the Hamilton House in 2014. 08/02/2016 jfl.

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Per 2015 survey and V-13-024 R1, emission factors of CO, NO2, PM, and VOC for Natural Gas and #2 Fuel Oil from Comb 018 (EU15) are manufacturer's guarantee. Emission factors of CO and NO2 for Natural Gas and #2 Fuel Oil from Comb 020 (EU16) are manufacturer's guarantee. 08/02/2016 jfl.

During 2015 survey, per CMN20120001, HCl and PT EFs updated at Comb 03 (EU07), Comb 04 (EU08), Comb 07 ID 2 (EU13). Per CMN20130001, CO, HCl, Hg, NO2, PT EFs updated at Comb 07 ID 1 (EU13); NO2, PT EFs updated at Comb 18 ID 2 (EU15) and Comb 20 ID 2 (EU16). Per vendor guarantee, CO, NO2 EFs updated at Comb 10 (EU51); CO, NO2, PT, VOC EFs updated at Comb 20 ID1 (EU16); CO, VOC EFs updated at Comb 20 ID 2 (EU16). 08/15/2016 jfl.

Per CMN20130001 and CMN20120001, during 2015 survey the hourly rate at Comb 07 (EU13) was updated to 3.61 tons/hr to reflect heating values associated with the stack tests. 08/15/2016 jfl.

Per V-13-024 R1: Comb 26 ID2 removed from permit and database. 09/06/2017 jfl.

Per V-13-024 R2: Comb 01, Comb 02 removed from permit and database. 09/06/2017 jfl.

Per V-18-052: COMB30 and EQPT1 ID2-ID18 removed from permit and database. 1/11/2021. NSP

Per 2020 Emissions Survey, emission factors were updated based on information provided by facility and recent stack testing. 6/9/2021 NSP

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EMISSIONS SUMMARY BY Equipment ID (SI):

<u>Equipment ID (SI):</u>	<u>Equipment Description</u>	<u>Record Date</u>			
COMB0000000003 07	Indirect Heat Exchanger (EU07)	2020/04			
<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	7920.6250000	7920.6250000	78965.9250000	78965.9250000
16887-00-6	Chloride	0.0988494	0.0988494	0.9854947	0.9854947
630-08-0	CO (Carbon Monoxide)	4.4482467	4.4482467	44.3475000	44.3475000
110-54-3	Hexane; N-Hexane	0.0000849	0.0000849	0.0008465	0.0008465
7647-01-0	Hydrochloric Acid	1.8249120	1.8249120	18.1937491	18.1937491
7664-39-3	Hydrofluoric Acid	0.1900950	0.1900950	1.8951822	1.8951822
7439-92-1	Lead, Total (as Pb)	0.0008973	0.0008973	0.0089453	0.0089453
7439-97-6	Mercury, Total (as Hg)	0.0000317	0.0000317	0.0003159	0.0003159
74-82-8	Methane	0.0760380	0.0760380	0.7580729	0.7580729
10024-97-2	Nitrous Oxide	0.0506920	0.0506920	0.5053819	0.5053819
10102-44-0	NO2 (Nitrogen Dioxide)	13.9403000	13.9403000	138.9800280	138.9800280
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	6.5810889	6.5810889	65.6112078	65.6112078
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	6.5810889	6.5810889	65.6112078	65.6112078
PM-FIL	PT (Particulate Matter)	6.5810889	6.5810889	65.6112078	65.6112078
7446-09-5	SO2 (Sulfur Dioxide)	38.5259200	38.5259200	384.0902592	384.0902592
VOC	VOC (Volatile Organic Compounds)	0.6336500	0.6336500	6.3172740	6.3172740

<u>Equipment ID (SI):</u>	<u>Equipment Description</u>	<u>Record Date</u>			
COMB0000000004 08	Indirect Heat Exchanger (EU08)	2020/04			
<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	265.3125000	265.3125000	79071.5925000	79071.5925000
16887-00-6	Chloride	0.0033111	0.0033111	0.9868135	0.9868135
630-08-0	CO (Carbon Monoxide)	0.2152218	0.2152218	64.1429649	64.1429649
110-54-3	Hexane; N-Hexane	0.0000028	0.0000028	0.0008477	0.0008477
7647-01-0	Hydrochloric Acid	0.0611280	0.0611280	18.2180949	18.2180949
7664-39-3	Hydrofluoric Acid	0.0063675	0.0063675	1.8977182	1.8977182
7439-92-1	Lead, Total (as Pb)	0.0000361	0.0000361	0.0107537	0.0107537
7439-97-6	Mercury, Total (as Hg)	0.0000011	0.0000011	0.0003163	0.0003163
74-82-8	Methane	0.0025470	0.0025470	0.7590873	0.7590873
10024-97-2	Nitrous Oxide	0.0016980	0.0016980	0.5060582	0.5060582
10102-44-0	NO2 (Nitrogen Dioxide)	0.4669500	0.4669500	139.1660028	139.1660028
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.2204429	0.2204429	65.6990048	65.6990048
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.2204429	0.2204429	65.6990048	65.6990048
PM-FIL	PT (Particulate Matter)	0.2204429	0.2204429	65.6990048	65.6990048
7446-09-5	SO2 (Sulfur Dioxide)	1.2904800	1.2904800	384.6042259	384.6042259
VOC	VOC (Volatile Organic Compounds)	0.0212250	0.0212250	6.3257274	6.3257274

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Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): **Equipment Description** **Record Date**
COMB0000000005 Indirect Heat Exchanger (EU09) 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
		<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
		<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9	Carbon Dioxide	6378.0000000	6378.0000000	73808.0640000	73808.0640000
630-08-0	CO (Carbon Monoxide)	4.4646000	4.4646000	51.6656448	51.6656448
110-54-3	Hexane; N-Hexane	0.0956700	0.0956700	1.1071210	1.1071210
7439-92-1	Lead, Total (as Pb)	0	0	0	0
74-82-8	Methane	0.1222450	0.1222450	1.4146546	1.4146546
10024-97-2	Nitrous Oxide	0.1169300	0.1169300	1.3531478	1.3531478
10102-44-0	NO2 (Nitrogen Dioxide)	14.8820000	14.8820000	172.2188160	172.2188160
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.4039400	0.4039400	4.6745107	4.6745107
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.4039400	0.4039400	4.6745107	4.6745107
PM-FIL	PT (Particulate Matter)	0.4039400	0.4039400	4.6745107	4.6745107
7446-09-5	SO2 (Sulfur Dioxide)	0.0318900	0.0318900	0.3690403	0.3690403
VOC	VOC (Volatile Organic Compounds)	0.2923250	0.2923250	3.3828696	3.3828696

Equipment ID (SI): **Equipment Description** **Record Date**
COMB0000000006 Indirect Heat Exchanger (EU10) 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
		<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
		<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9	Carbon Dioxide	13796.8375000	13796.8375000	73808.0640000	73808.0640000
630-08-0	CO (Carbon Monoxide)	9.6193250	9.6193250	51.6656448	51.6656448
110-54-3	Hexane; N-Hexane	0.2057400	0.2057400	1.1071210	1.1071210
7439-92-1	Lead, Total (as Pb)	0.0000045	0.0000045	0	0
74-82-8	Methane	0.2636730	0.2636730	1.4146546	1.4146546
10024-97-2	Nitrous Oxide	0.2524025	0.2524025	1.3531478	1.3531478
10102-44-0	NO2 (Nitrogen Dioxide)	32.0910000	32.0910000	172.2188160	172.2188160
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.8806425	0.8806425	4.6745107	4.6745107
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.2291325	0.2291325	1.1686277	1.1686277
PM-FIL	PT (Particulate Matter)	0.8806425	0.8806425	4.6745107	4.6745107
7446-09-5	SO2 (Sulfur Dioxide)	0.0693413	0.0693413	0.3690403	0.3690403
VOC	VOC (Volatile Organic Compounds)	0.6306800	0.6306800	3.3828696	3.3828696

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Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000007 **Equipment Description:** Indirect Heat Exchanger (EU13-1) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9 Carbon Dioxide	0	0	98708.7750000	98708.7750000
630-08-0 CO (Carbon Monoxide)	0	0	9.4444556	9.4444556
110-54-3 Hexane; N-Hexane	0	0	0.0010582	0.0010582
7647-01-0 Hydrochloric Acid	0	0	10.6763411	10.6763411
7664-39-3 Hydrofluoric Acid	0	0	2.3690106	2.3690106
7439-92-1 Lead, Total (as Pb)	0	0	0.0104237	0.0104237
7439-97-6 Mercury, Total (as Hg)	0	0	0.0063174	0.0063174
74-82-8 Methane	0	0	0.9476042	0.9476042
10024-97-2 Nitrous Oxide	0	0	0.6317362	0.6317362
10102-44-0 NO2 (Nitrogen Dioxide)	0	0	126.0629507	126.0629507
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0	0	58.3092476	58.3092476
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0	0	58.3092476	58.3092476
PM-FIL PT (Particulate Matter)	0	0	58.3092476	58.3092476
7446-09-5 SO2 (Sulfur Dioxide)	0	0	480.1194816	480.1194816
VOC VOC (Volatile Organic Compounds)	0	0	0.7896702	0.7896702

Equipment ID (SI): COMB0000000008 **Equipment Description:** Indirect Heat Exchangers (EU20-21) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9 Carbon Dioxide	210.0000000	210.0000000	2585.9520000	2585.9520000
630-08-0 CO (Carbon Monoxide)	0.1470000	0.1470000	1.8101664	1.8101664
110-54-3 Hexane; N-Hexane	0.0031500	0.0031500	0.0387893	0.0387893
7439-92-1 Lead, Total (as Pb)	0.0000009	0.0000009	0.0000108	0.0000108
74-82-8 Methane	0.0040250	0.0040250	0.0495641	0.0495641
10024-97-2 Nitrous Oxide	0.0038500	0.0038500	0.0474091	0.0474091
10102-44-0 NO2 (Nitrogen Dioxide)	0.1750000	0.1750000	2.1549600	2.1549600
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0133000	0.0133000	0.1637770	0.1637770
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0033250	0.0033250	0.0409442	0.0409442
PM-FIL PT (Particulate Matter)	0.0133000	0.0133000	0.1637770	0.1637770
7446-09-5 SO2 (Sulfur Dioxide)	0.0010500	0.0010500	0.0129298	0.0129298
VOC VOC (Volatile Organic Compounds)	0.0096250	0.0096250	0.1185228	0.1185228

Equipment ID (SI): COMB0000000009 **Equipment Description:** Indirect Heat Exchangers (EU22-48) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9 Carbon Dioxide	510.0000000	510.0000000	7726.3200000	7726.3200000
630-08-0 CO (Carbon Monoxide)	0.3570000	0.3570000	5.4084240	5.4084240
110-54-3 Hexane; N-Hexane	0.0076500	0.0076500	0.1158948	0.1158948
74-82-8 Methane	0.0097750	0.0097750	0.1480878	0.1480878
10024-97-2 Nitrous Oxide	0.0093500	0.0093500	0.1416492	0.1416492
10102-44-0 NO2 (Nitrogen Dioxide)	0.4250000	0.4250000	6.4386000	6.4386000
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0323000	0.0323000	0.4893336	0.4893336
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0080750	0.0080750	0.1223334	0.1223334
PM-FIL PT (Particulate Matter)	0.0323000	0.0323000	0.4893336	0.4893336
7446-09-5 SO2 (Sulfur Dioxide)	0.0025500	0.0025500	0.0386316	0.0386316
VOC VOC (Volatile Organic Compounds)	0.0233750	0.0233750	0.3541230	0.3541230

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Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB000000010 **Equipment Description:** Indirect Heat Exchanger (EU-51) **Record Date:** 2020/04
51-52

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	2940.0000000	2940.0000000	37217.6640000	37217.6640000
630-08-0	CO (Carbon Monoxide)	1.8742500	1.8742500	23.7262608	23.7262608
110-54-3	Hexane; N-Hexane	0.0441000	0.0441000	0.5582650	0.5582650
7439-92-1	Lead, Total (as Pb)	0.0000123	0.0000123	0.0001551	0.0001551
74-82-8	Methane	0.0563500	0.0563500	0.7133386	0.7133386
10024-97-2	Nitrous Oxide	0.0539000	0.0539000	0.6823238	0.6823238
10102-44-0	NO2 (Nitrogen Dioxide)	0.8379000	0.8379000	10.6070342	10.6070342
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.1862000	0.1862000	2.3571187	2.3571187
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.1862000	0.1862000	2.3571187	2.3571187
PM-FIL	PT (Particulate Matter)	0.1862000	0.1862000	2.3571187	2.3571187
7446-09-5	SO2 (Sulfur Dioxide)	0.0147000	0.0147000	0.1860883	0.1860883
VOC	VOC (Volatile Organic Compounds)	0.1347500	0.1347500	1.7058096	1.7058096

Equipment ID (SI): COMB000000011 **Equipment Description:** Diesel Generator (EU53) **Record Date:** 2020/04
53

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	4.0697910	4.0697910	332.3662650	332.3662650
630-08-0	CO (Carbon Monoxide)	0.0209655	0.0209655	1.7121825	1.7121825
110-54-3	Hexane; N-Hexane	0	0	0.0000010	0.0000010
7439-92-1	Lead, Total (as Pb)	0.0000015	0.0000015	0.0001220	0.0001220
10102-44-0	NO2 (Nitrogen Dioxide)	0.0789293	0.0789293	6.4458912	6.4458912
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0014133	0.0014133	0.1154217	0.1154217
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0013714	0.0013714	0.1119974	0.1119974
PM-FIL	PT (Particulate Matter)	0.0017192	0.0017192	0.1403996	0.1403996
7446-09-5	SO2 (Sulfur Dioxide)	0.0000375	0.0000375	0.0030618	0.0030618
VOC	VOC (Volatile Organic Compounds)	0.0020196	0.0020196	0.1649340	0.1649340

Equipment ID (SI): COMB000000012 **Equipment Description:** Seven (7) Diesel Generators (EU54) **Record Date:** 2020/04
54

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	87.0242500	87.0242500	2333.3592500	2333.3592500
630-08-0	CO (Carbon Monoxide)	0.4504861	0.4504861	12.1288679	12.1288679
7439-92-1	Lead, Total (as Pb)	0.0000320	0.0000320	0.0008570	0.0008570
10102-44-0	NO2 (Nitrogen Dioxide)	1.7130806	1.7130806	46.5182593	46.5182593
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0354236	0.0354236	1.0704065	1.0704065
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0345617	0.0345617	1.0481014	1.0481014
PM-FIL	PT (Particulate Matter)	0.0417106	0.0417106	1.2331021	1.2331021
7446-09-5	SO2 (Sulfur Dioxide)	0.0067315	0.0067315	0.3179836	0.3179836
VOC	VOC (Volatile Organic Compounds)	0.0489238	0.0489238	1.4445600	1.4445600

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB000000013 **Equipment Description:** Nine (9) Diesel Generators (EU55) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	16.9376048	16.9376048	2337.3565875	2337.3565875
630-08-0	CO (Carbon Monoxide)	0.0893436	0.0893436	12.3327000	12.3327000
7439-92-1	Lead, Total (as Pb)	0.0000062	0.0000062	0.0008591	0.0008591
10102-44-0	NO2 (Nitrogen Dioxide)	0.3529139	0.3529139	48.7419136	48.7419136
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0109099	0.0109099	1.5138698	1.5138698
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0107689	0.0107689	1.4944766	1.4944766
PM-FIL	PT (Particulate Matter)	0.0119379	0.0119379	1.6553258	1.6553258
7446-09-5	SO2 (Sulfur Dioxide)	0.0058881	0.0058881	0.8220485	0.8220485
VOC	VOC (Volatile Organic Compounds)	0.0139427	0.0139427	1.9332432	1.9332432

Equipment ID (SI): COMB000000014 **Equipment Description:** Six (6) Diesel Generators (EU56) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	12.3601500	12.3601500	258.4395000	258.4395000
630-08-0	CO (Carbon Monoxide)	0.0715982	0.0715982	1.4970528	1.4970528
7439-92-1	Lead, Total (as Pb)	0.0000046	0.0000046	0.0000955	0.0000955
10102-44-0	NO2 (Nitrogen Dioxide)	0.3323663	0.3323663	6.9494765	6.9494765
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0233636	0.0233636	0.4885120	0.4885120
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0233636	0.0233636	0.4885120	0.4885120
PM-FIL	PT (Particulate Matter)	0.0233636	0.0233636	0.4885120	0.4885120
7446-09-5	SO2 (Sulfur Dioxide)	0.0218563	0.0218563	0.4569951	0.4569951
VOC	VOC (Volatile Organic Compounds)	0.0271319	0.0271319	0.5673042	0.5673042

Equipment ID (SI): COMB000000015 **Equipment Description:** Eleven Indirect Heat Exchangers (EU57) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	552.0000000	552.0000000	10249.2000000	10249.2000000
630-08-0	CO (Carbon Monoxide)	0.3864000	0.3864000	7.1744400	7.1744400
110-54-3	Hexane; N-Hexane	0.0082800	0.0082800	0.1537380	0.1537380
7439-92-1	Lead, Total (as Pb)	0.0000023	0.0000023	0.0000427	0.0000427
74-82-8	Methane	0.0105800	0.0105800	0.1964430	0.1964430
10024-97-2	Nitrous Oxide	0.0101200	0.0101200	0.1879020	0.1879020
10102-44-0	NO2 (Nitrogen Dioxide)	0.4600000	0.4600000	8.5410000	8.5410000
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0349600	0.0349600	0.6491160	0.6491160
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0087400	0.0087400	0.1622790	0.1622790
PM-FIL	PT (Particulate Matter)	0.0349600	0.0349600	0.6491160	0.6491160
7446-09-5	SO2 (Sulfur Dioxide)	0.0027600	0.0027600	0.0512460	0.0512460
VOC	VOC (Volatile Organic Compounds)	0.0253000	0.0253000	0.4697550	0.4697550

**KENTUCKY DIVISION FOR AIR QUALITY
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DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000016 **Equipment Description:** Thirteen Indirect Heat Exchangers (EU58) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9 Carbon Dioxide	234.0000000	234.0000000	5676.4800000	5676.4800000
630-08-0 CO (Carbon Monoxide)	0.1638000	0.1638000	3.9735360	3.9735360
110-54-3 Hexane; N-Hexane	0.0035100	0.0035100	0.0851472	0.0851472
7439-92-1 Lead, Total (as Pb)	0.0000010	0.0000010	0.0000237	0.0000237
74-82-8 Methane	0.0044850	0.0044850	0.1087992	0.1087992
10024-97-2 Nitrous Oxide	0.0042900	0.0042900	0.1040688	0.1040688
10102-44-0 NO2 (Nitrogen Dioxide)	0.1950000	0.1950000	4.7304000	4.7304000
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0148200	0.0148200	0.3595104	0.3595104
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0148200	0.0148200	0.3595104	0.3595104
PM-FIL PT (Particulate Matter)	0.0148200	0.0148200	0.3595104	0.3595104
7446-09-5 SO2 (Sulfur Dioxide)	0.0011700	0.0011700	0.0283824	0.0283824
VOC VOC (Volatile Organic Compounds)	0.0107250	0.0107250	0.2601720	0.2601720

Equipment ID (SI): COMB0000000017 **Equipment Description:** 42 Diesel Generators (EU59) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
71-43-2 Benzene	0.0000556	0.0000556	0.0120436	0.0120436
124-38-9 Carbon Dioxide	9.7757550	9.7757550	2118.0802500	2118.0802500
630-08-0 CO (Carbon Monoxide)	0.0566277	0.0566277	12.2693236	12.2693236
50-00-0 Formaldehyde	0.0000703	0.0000703	0.0152398	0.0152398
7439-92-1 Lead, Total (as Pb)	0.0000036	0.0000036	0.0007823	0.0007823
10102-44-0 NO2 (Nitrogen Dioxide)	0.2628715	0.2628715	56.9554918	56.9554918
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0184785	0.0184785	4.0036740	4.0036740
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0184785	0.0184785	4.0036740	4.0036740
PM-FIL PT (Particulate Matter)	0.0184785	0.0184785	4.0036740	4.0036740
7446-09-5 SO2 (Sulfur Dioxide)	0.0172863	0.0172863	3.7453725	3.7453725
108-88-3 Toluene	0.0000247	0.0000247	0.0053459	0.0053459
VOC VOC (Volatile Organic Compounds)	0.0214589	0.0214589	4.6494279	4.6494279
1330-20-7 Xylenes (Total)	0.0000170	0.0000170	0.0036808	0.0036808

Equipment ID (SI): COMB0000000018 **Equipment Description:** Indirect Heat Exchanger (EU15) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9 Carbon Dioxide	17760.0000000	17760.0000000	76892.1120000	76892.1120000
630-08-0 CO (Carbon Monoxide)	5.5855200	5.5855200	24.1825692	24.1825692
110-54-3 Hexane; N-Hexane	0.2664000	0.2664000	1.1533817	1.1533817
7439-92-1 Lead, Total (as Pb)	0.0000740	0.0000740	0.0003204	0.0003204
74-82-8 Methane	0.3404000	0.3404000	1.4737655	1.4737655
10024-97-2 Nitrous Oxide	0.3256000	0.3256000	1.4096887	1.4096887
10102-44-0 NO2 (Nitrogen Dioxide)	1.5170000	1.5170000	6.5678679	6.5678679
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	1.0567200	1.0567200	4.5750807	4.5750807
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	1.0567200	1.0567200	4.5750807	4.5750807
PM-FIL PT (Particulate Matter)	1.0567200	1.0567200	4.5750807	4.5750807
7446-09-5 SO2 (Sulfur Dioxide)	0.0888000	0.0888000	0.3844606	0.3844606
VOC VOC (Volatile Organic Compounds)	0.6038400	0.6038400	2.6143318	2.6143318

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000019 **Equipment Description:** Five (5) Diesel Generators (EU60-62,67,69) **Record Date:** 2020/04
60-69

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
71-43-2 Benzene	0.0008985	0.0008985	0.0188798	0.0188798
124-38-9 Carbon Dioxide	191.0540775	191.0540775	4014.3966225	4014.3966225
630-08-0 CO (Carbon Monoxide)	0.9842138	0.9842138	20.6801363	20.6801363
7439-92-1 Lead, Total (as Pb)	0.0000701	0.0000701	0.0014737	0.0014737
74-82-8 Methane	0.1111587	0.1111587	2.3356489	2.3356489
10024-97-2 Nitrous Oxide	0.0014583	0.0014583	0.0306415	0.0306415
10102-44-0 NO2 (Nitrogen Dioxide)	3.7052912	3.7052912	77.8549648	77.8549648
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0663479	0.0663479	1.3940905	1.3940905
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0643794	0.0643794	1.3527300	1.3527300
PM-FIL PT (Particulate Matter)	0.0807059	0.0807059	1.6957785	1.6957785
7446-09-5 SO2 (Sulfur Dioxide)	0.0017600	0.0017600	0.0369811	0.0369811
108-88-3 Toluene	0.0003211	0.0003211	0.0067469	0.0067469
VOC VOC (Volatile Organic Compounds)	0.0948323	0.0948323	1.9926005	1.9926005
1330-20-7 Xylenes (Total)	0.0002316	0.0002316	0.0048659	0.0048659

Equipment ID (SI): COMB0000000020 **Equipment Description:** Indirect Heat Exchanger (EU16) **Record Date:** 2020/04
16

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9 Carbon Dioxide	4008.0000000	4008.0000000	76892.1120000	76892.1120000
630-08-0 CO (Carbon Monoxide)	1.2605160	1.2605160	24.1825692	24.1825692
110-54-3 Hexane; N-Hexane	0.0601200	0.0601200	1.1533817	1.1533817
7439-92-1 Lead, Total (as Pb)	0.0000167	0.0000167	0.0003204	0.0003204
74-82-8 Methane	0.0768200	0.0768200	1.4737655	1.4737655
10024-97-2 Nitrous Oxide	0.0734800	0.0734800	1.4096887	1.4096887
10102-44-0 NO2 (Nitrogen Dioxide)	0.3423500	0.3423500	6.5678679	6.5678679
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.2384760	0.2384760	4.5750807	4.5750807
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.2384760	0.2384760	4.5750807	4.5750807
PM-FIL PT (Particulate Matter)	0.2384760	0.2384760	4.5750807	4.5750807
7446-09-5 SO2 (Sulfur Dioxide)	0.0200400	0.0200400	0.3844606	0.3844606
VOC VOC (Volatile Organic Compounds)	0.1362720	0.1362720	2.6143318	2.6143318

Equipment ID (SI): COMB0000000021 **Equipment Description:** Four (4) Diesel Generators (EU63-66) **Record Date:** 2020/04
63-66

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9 Carbon Dioxide	1.0112850	1.0112850	348.3315000	348.3315000
630-08-0 CO (Carbon Monoxide)	0.0058580	0.0058580	2.0177668	2.0177668
7439-92-1 Lead, Total (as Pb)	0.0000004	0.0000004	0.0001287	0.0001287
10102-44-0 NO2 (Nitrogen Dioxide)	0.0271936	0.0271936	9.3666857	9.3666857
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0019116	0.0019116	0.6584292	0.6584292
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0019116	0.0019116	0.6584292	0.6584292
PM-FIL PT (Particulate Matter)	0.0019116	0.0019116	0.6584292	0.6584292
7446-09-5 SO2 (Sulfur Dioxide)	0.0017882	0.0017882	0.6159499	0.6159499
VOC VOC (Volatile Organic Compounds)	0.0022199	0.0022199	0.7646274	0.7646274

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB000000022 **Equipment Description:** Emergency Diesel Generator (EU75) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
75-07-0 Acetaldehyde	0.0000011	0.0000011	0.0003153	0.0003153
71-43-2 Benzene	0.0000013	0.0000013	0.0003836	0.0003836
124-38-9 Carbon Dioxide	0.2247300	0.2247300	67.4190000	67.4190000
630-08-0 CO (Carbon Monoxide)	0.0013018	0.0013018	0.3905355	0.3905355
50-00-0 Formaldehyde	0.0000016	0.0000016	0.0004851	0.0004851
7439-92-1 Lead, Total (as Pb)	0.0000001	0.0000001	0.0000249	0.0000249
74-82-8 Methane	0.0000090	0.0000090	0.0027120	0.0027120
10024-97-2 Nitrous Oxide	0.0000018	0.0000018	0.0005340	0.0005340
10102-44-0 NO2 (Nitrogen Dioxide)	0.0060430	0.0060430	1.8129069	1.8129069
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0004248	0.0004248	0.1274379	0.1274379
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0004248	0.0004248	0.1274379	0.1274379
PM-FIL PT (Particulate Matter)	0.0004248	0.0004248	0.1274379	0.1274379
7446-09-5 SO2 (Sulfur Dioxide)	0.0003974	0.0003974	0.1192161	0.1192161
108-88-3 Toluene	0.0000006	0.0000006	0.0001681	0.0001681
VOC VOC (Volatile Organic Compounds)	0.0004933	0.0004933	0.1479924	0.1479924
1330-20-7 Xylenes (Total)	0.0000004	0.0000004	0.0001172	0.0001172

Equipment ID (SI): COMB000000023 **Equipment Description:** Emergency Diesel Generator (EU76) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
71-43-2 Benzene	0.0000080	0.0000080	0.0008241	0.0008241
124-38-9 Carbon Dioxide	1.6957463	1.6957463	175.2271125	175.2271125
630-08-0 CO (Carbon Monoxide)	0.0087357	0.0087357	0.9026851	0.9026851
50-00-0 Formaldehyde	0.0000008	0.0000008	0.0000838	0.0000838
7439-92-1 Lead, Total (as Pb)	0.0000006	0.0000006	0.0000643	0.0000643
10102-44-0 NO2 (Nitrogen Dioxide)	0.0328872	0.0328872	3.3983440	3.3983440
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0005889	0.0005889	0.0608516	0.0608516
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0005714	0.0005714	0.0590462	0.0590462
PM-FIL PT (Particulate Matter)	0.0007163	0.0007163	0.0740202	0.0740202
7446-09-5 SO2 (Sulfur Dioxide)	0.0000156	0.0000156	0.0016142	0.0016142
108-88-3 Toluene	0.0000029	0.0000029	0.0002945	0.0002945
VOC VOC (Volatile Organic Compounds)	0.0008417	0.0008417	0.0869764	0.0869764
1330-20-7 Xylenes (Total)	0.0000021	0.0000021	0.0002124	0.0002124

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000024 **Equipment Description:** Emergency Diesel Generator (EU77) **Record Date:** 2020/04

77

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
71-43-2 Benzene	0.0000006	0.0000006	0.0002557	0.0002557
124-38-9 Carbon Dioxide	0.1123650	0.1123650	44.9460000	44.9460000
630-08-0 CO (Carbon Monoxide)	0.0006509	0.0006509	0.2603570	0.2603570
50-00-0 Formaldehyde	0.0000008	0.0000008	0.0003234	0.0003234
7439-92-1 Lead, Total (as Pb)	0	0	0.0000166	0.0000166
10102-44-0 NO2 (Nitrogen Dioxide)	0.0030215	0.0030215	1.2086046	1.2086046
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0002124	0.0002124	0.0849586	0.0849586
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0002124	0.0002124	0.0849586	0.0849586
PM-FIL PT (Particulate Matter)	0.0002124	0.0002124	0.0849586	0.0849586
7446-09-5 SO2 (Sulfur Dioxide)	0.0001987	0.0001987	0.0794774	0.0794774
108-88-3 Toluene	0.0000003	0.0000003	0.0001121	0.0001121
VOC VOC (Volatile Organic Compounds)	0.0002467	0.0002467	0.0986616	0.0986616
1330-20-7 Xylenes (Total)	0.0000002	0.0000002	0.0000781	0.0000781

Equipment ID (SI): COMB0000000026 **Equipment Description:** Eleven Emergency Generators (EU78) **Record Date:** 2020/04

78

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9 Carbon Dioxide	1.6830000	1.6830000	41.7945000	41.7945000
630-08-0 CO (Carbon Monoxide)	0.0048501	0.0048501	0.1204442	0.1204442
50-00-0 Formaldehyde	0.0008078	0.0008078	0.0200614	0.0200614
110-54-3 Hexane; N-Hexane	0.0000170	0.0000170	0.0004217	0.0004217
7439-92-1 Lead, Total (as Pb)	0.0000075	0.0000075	0.0001863	0.0001863
74-82-8 Methane	0.0191250	0.0191250	0.4749375	0.4749375
10102-44-0 NO2 (Nitrogen Dioxide)	0.0624240	0.0624240	1.5501960	1.5501960
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0001528	0.0001528	0.0037946	0.0037946
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0001528	0.0001528	0.0037946	0.0037946
PM-FIL PT (Particulate Matter)	0.0001528	0.0001528	0.0037946	0.0037946
7446-09-5 SO2 (Sulfur Dioxide)	0.0000090	0.0000090	0.0002234	0.0002234
VOC VOC (Volatile Organic Compounds)	0.0018054	0.0018054	0.0448341	0.0448341

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000027 **Equipment Description:** Emergency Fire Pump Engine (EU79) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
71-43-2 Benzene	0.0000134	0.0000134	0.0001023	0.0001023
124-38-9 Carbon Dioxide	2.3596650	2.3596650	17.9784000	17.9784000
630-08-0 CO (Carbon Monoxide)	0.0136687	0.0136687	0.1041428	0.1041428
50-00-0 Formaldehyde	0.0000170	0.0000170	0.0001294	0.0001294
7439-92-1 Lead, Total (as Pb)	0.0000009	0.0000009	0.0000066	0.0000066
74-82-8 Methane	0.0000906	0.0000906	0.0006903	0.0006903
10024-97-2 Nitrous Oxide	0.0000181	0.0000181	0.0001381	0.0001381
10102-44-0 NO2 (Nitrogen Dioxide)	0.0634517	0.0634517	0.4834418	0.4834418
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0044603	0.0044603	0.0339834	0.0339834
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0044603	0.0044603	0.0339834	0.0339834
PM-FIL PT (Particulate Matter)	0.0044603	0.0044603	0.0339834	0.0339834
7446-09-5 SO2 (Sulfur Dioxide)	0.0041726	0.0041726	0.0317910	0.0317910
108-88-3 Toluene	0.0000059	0.0000059	0.0000448	0.0000448
VOC VOC (Volatile Organic Compounds)	0.0051797	0.0051797	0.0394646	0.0394646
1330-20-7 Xylenes (Total)	0.0000041	0.0000041	0.0000312	0.0000312

Equipment ID (SI): COMB0000000028 **Equipment Description:** Indirect Heat Exchanger (EU01) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
71-43-2 Benzene	0.0000010	0.0000010	0	0
124-38-9 Carbon Dioxide	13758.5800000	13758.5800000	65083.8672000	65083.8672000
630-08-0 CO (Carbon Monoxide)	4.6108800	4.6108800	21.6946224	21.6946224
110-54-3 Hexane; N-Hexane	0.2048400	0.2048400	0.9762580	0.9762580
7439-92-1 Lead, Total (as Pb)	0.0000626	0.0000626	0.0002712	0.0002712
74-82-8 Methane	0.2627336	0.2627336	1.2474408	1.2474408
10024-97-2 Nitrous Oxide	0.2515560	0.2515560	1.1932042	1.1932042
10102-44-0 NO2 (Nitrogen Dioxide)	4.1668400	4.1668400	19.4709236	19.4709236
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.5883200	0.5883200	2.7118278	2.7118278
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.5883200	0.5883200	2.7118278	2.7118278
PM-FIL PT (Particulate Matter)	0.5883200	0.5883200	2.7118278	2.7118278
7446-09-5 SO2 (Sulfur Dioxide)	0.0686480	0.0686480	0.3254193	0.3254193
VOC VOC (Volatile Organic Compounds)	0.4584200	0.4584200	2.1694622	2.1694622

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000029 **Equipment Description:** Indirect Heat Exchanger (EU02) **Record Date:** 2020/04
EU02

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
71-43-2	Benzene	0	0	0	0
124-38-9	Carbon Dioxide	8772.0000000	8772.0000000	65083.8672000	65083.8672000
630-08-0	CO (Carbon Monoxide)	2.9240000	2.9240000	21.6946224	21.6946224
110-54-3	Hexane; N-Hexane	0.1315800	0.1315800	0.9762580	0.9762580
7439-92-1	Lead, Total (as Pb)	0.0000366	0.0000366	0.0002712	0.0002712
74-82-8	Methane	0.1681300	0.1681300	1.2474408	1.2474408
10024-97-2	Nitrous Oxide	0.1608200	0.1608200	1.1932042	1.1932042
10102-44-0	NO2 (Nitrogen Dioxide)	2.6242900	2.6242900	19.4709236	19.4709236
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.3655000	0.3655000	2.7118278	2.7118278
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.3655000	0.3655000	2.7118278	2.7118278
PM-FIL	PT (Particulate Matter)	0.3655000	0.3655000	2.7118278	2.7118278
7446-09-5	SO2 (Sulfur Dioxide)	0.0438600	0.0438600	0.3254193	0.3254193
VOC	VOC (Volatile Organic Compounds)	0.2924000	0.2924000	2.1694622	2.1694622

Equipment ID (SI): COMB0000000031 **Equipment Description:** Diesel Generator (EU68) **Record Date:** 2020/04
68

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
71-43-2	Benzene	0.0000292	0.0000292	0.0046123	0.0046123
124-38-9	Carbon Dioxide	6.2177363	6.2177363	980.7065813	980.7065813
630-08-0	CO (Carbon Monoxide)	0.0096498	0.0096498	1.5220288	1.5220288
7439-92-1	Lead, Total (as Pb)	0.0000023	0.0000023	0.0003600	0.0003600
74-82-8	Methane	0.0002667	0.0002667	0.0420607	0.0420607
10024-97-2	Nitrous Oxide	0.0000533	0.0000533	0.0084104	0.0084104
10102-44-0	NO2 (Nitrogen Dioxide)	0.0810150	0.0810150	12.7782750	12.7782750
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0006353	0.0006353	0.1001963	0.1001963
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0006353	0.0006353	0.1001963	0.1001963
PM-FIL	PT (Particulate Matter)	0.0006353	0.0006353	0.1001963	0.1001963
7446-09-5	SO2 (Sulfur Dioxide)	0.0000573	0.0000573	0.0090344	0.0090344
108-88-3	Toluene	0.0000105	0.0000105	0.0016483	0.0016483
VOC	VOC (Volatile Organic Compounds)	0.0030863	0.0030863	0.4867871	0.4867871
1330-20-7	Xylenes (Total)	0.0000075	0.0000075	0.0011887	0.0011887

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000032 **Equipment Description:** Samaritan Hospital Boiler #3 (EU 82) **Record Date:** 2020/04
EU82

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
		<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
		<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9	Carbon Dioxide	928.3485000	928.3485000	10715.7600000	10715.7600000
630-08-0	CO (Carbon Monoxide)	0.6477750	0.6477750	7.5010320	7.5010320
110-54-3	Hexane; N-Hexane	0.0138600	0.0138600	0.1607364	0.1607364
7439-92-1	Lead, Total (as Pb)	0.0000041	0.0000041	0.0000447	0.0000447
74-82-8	Methane	0.0177521	0.0177521	0.2053854	0.2053854
10024-97-2	Nitrous Oxide	0.0169907	0.0169907	0.1964556	0.1964556
10102-44-0	NO2 (Nitrogen Dioxide)	0.7739000	0.7739000	8.9298000	8.9298000
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0591635	0.0591635	0.6786648	0.6786648
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0591635	0.0591635	0.6786648	0.6786648
PM-FIL	PT (Particulate Matter)	0.0591635	0.0591635	0.6786648	0.6786648
7446-09-5	SO2 (Sulfur Dioxide)	0.0046610	0.0046610	0.0535788	0.0535788
VOC	VOC (Volatile Organic Compounds)	0.0424592	0.0424592	0.4911390	0.4911390

Equipment ID (SI): COMB0000000033 **Equipment Description:** Samaritan Hospital Boiler #1 **Record Date:** 2020/04
EU83

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
		<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
		<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9	Carbon Dioxide	1157.9095000	1157.9095000	6168.0960000	6168.0960000
630-08-0	CO (Carbon Monoxide)	0.8077250	0.8077250	4.3176672	4.3176672
110-54-3	Hexane; N-Hexane	0.0172800	0.0172800	0.0925214	0.0925214
7439-92-1	Lead, Total (as Pb)	0.0000051	0.0000051	0.0000257	0.0000257
74-82-8	Methane	0.0221372	0.0221372	0.1182218	0.1182218
10024-97-2	Nitrous Oxide	0.0211889	0.0211889	0.1130818	0.1130818
10102-44-0	NO2 (Nitrogen Dioxide)	0.9653000	0.9653000	5.1400800	5.1400800
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0738345	0.0738345	0.3906461	0.3906461
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0738345	0.0738345	0.3906461	0.3906461
PM-FIL	PT (Particulate Matter)	0.0738345	0.0738345	0.3906461	0.3906461
7446-09-5	SO2 (Sulfur Dioxide)	0.0058157	0.0058157	0.0308405	0.0308405
VOC	VOC (Volatile Organic Compounds)	0.0529484	0.0529484	0.2827044	0.2827044

Equipment ID (SI): COMB0000000034 **Equipment Description:** Samaritan Hospital Boiler #2 **Record Date:** 2020/04
EU84

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
		<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
		<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9	Carbon Dioxide	892.6830000	892.6830000	6168.0960000	6168.0960000
630-08-0	CO (Carbon Monoxide)	0.6226500	0.6226500	4.3176672	4.3176672
110-54-3	Hexane; N-Hexane	0.0133200	0.0133200	0.0925214	0.0925214
7439-92-1	Lead, Total (as Pb)	0.0000040	0.0000040	0.0000257	0.0000257
74-82-8	Methane	0.0170654	0.0170654	0.1182218	0.1182218
10024-97-2	Nitrous Oxide	0.0163346	0.0163346	0.1130818	0.1130818
10102-44-0	NO2 (Nitrogen Dioxide)	0.7442000	0.7442000	5.1400800	5.1400800
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0569330	0.0569330	0.3906461	0.3906461
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0569330	0.0569330	0.3906461	0.3906461
PM-FIL	PT (Particulate Matter)	0.0569330	0.0569330	0.3906461	0.3906461
7446-09-5	SO2 (Sulfur Dioxide)	0.0044841	0.0044841	0.0308405	0.0308405
VOC	VOC (Volatile Organic Compounds)	0.0408176	0.0408176	0.2827044	0.2827044

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000035 **Equipment Description:** Indirect Heat Exchanger (EU13-2) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9	Carbon Dioxide	0	0	98708.7750000	98708.7750000
630-08-0	CO (Carbon Monoxide)	0	0	94.7604240	94.7604240
110-54-3	Hexane; N-Hexane	0	0	0.0010582	0.0010582
7647-01-0	Hydrochloric Acid	0	0	13.5506250	13.5506250
7664-39-3	Hydrofluoric Acid	0	0	2.3690106	2.3690106
7439-92-1	Lead, Total (as Pb)	0	0	0.0135034	0.0135034
7439-97-6	Mercury, Total (as Hg)	0	0	0.0004801	0.0004801
74-82-8	Methane	0	0	0.9476042	0.9476042
10024-97-2	Nitrous Oxide	0	0	0.6317362	0.6317362
10102-44-0	NO2 (Nitrogen Dioxide)	0	0	118.4505300	118.4505300
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0	0	80.4825001	80.4825001
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0	0	80.4825001	80.4825001
PM-FIL	PT (Particulate Matter)	0	0	80.4825001	80.4825001
7446-09-5	SO2 (Sulfur Dioxide)	0	0	480.1194816	480.1194816
VOC	VOC (Volatile Organic Compounds)	0	0	7.8967020	7.8967020

Equipment ID (SI): EQPT0000000001 **Equipment Description:** Paint Spray Booths (EU49-50) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0000840	0.0084000	0.0336000	0.0336000
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0000840	0.0084000	0.0336000	0.0336000
PM-FIL	PT (Particulate Matter)	0.0000840	0.0084000	0.0336000	0.0336000
VOC	VOC (Volatile Organic Compounds)	0.0150000	0.0150000	6.0000000	6.0000000

Equipment ID (SI): EQPT0000000002 **Equipment Description:** Emergency Generators (EU70) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>		<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
71-43-2	Benzene	0.0000074	0.0000074	0.0020605	0.0020605
124-38-9	Carbon Dioxide	1.5826965	1.5826965	438.1299586	438.1299586
630-08-0	CO (Carbon Monoxide)	0.0081533	0.0081533	2.2570331	2.2570331
7439-92-1	Lead, Total (as Pb)	0.0000006	0.0000006	0.0001608	0.0001608
74-82-8	Methane	0.0000634	0.0000634	0.0175562	0.0175562
10024-97-2	Nitrous Oxide	0.0000127	0.0000127	0.0035074	0.0035074
10102-44-0	NO2 (Nitrogen Dioxide)	0.0306947	0.0306947	8.4970659	8.4970659
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	0.0005496	0.0005496	0.1521506	0.1521506
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0005333	0.0005333	0.1476365	0.1476365
PM-FIL	PT (Particulate Matter)	0.0006686	0.0006686	0.1850767	0.1850767
7446-09-5	SO2 (Sulfur Dioxide)	0.0000146	0.0000146	0.0040361	0.0040361
108-88-3	Toluene	0.0000027	0.0000027	0.0007364	0.0007364
VOC	VOC (Volatile Organic Compounds)	0.0007856	0.0007856	0.2174718	0.2174718
1330-20-7	Xylenes (Total)	0.0000018	0.0000018	0.0005038	0.0005038

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AL ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000003 **Equipment Description:** Two Diesel Emergency Generators **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
71-43-2 Benzene	0.0000064	0.0000064	0.0012145	0.0012145
124-38-9 Carbon Dioxide	1.1236500	1.1236500	213.4935000	213.4935000
630-08-0 CO (Carbon Monoxide)	0.0035785	0.0035785	0.6903300	0.6903300
7439-92-1 Lead, Total (as Pb)	0.0000004	0.0000004	0.0000789	0.0000789
74-82-8 Methane	0.0000186	0.0000186	0.0036240	0.0036240
10024-97-2 Nitrous Oxide	0.0000037	0.0000037	0.0007240	0.0007240
10102-44-0 NO2 (Nitrogen Dioxide)	0.0162318	0.0162318	3.1338042	3.1338042
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0009820	0.0009820	0.1906522	0.1906522
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0009820	0.0009820	0.1906522	0.1906522
PM-FIL PT (Particulate Matter)	0.0009820	0.0009820	0.1906522	0.1906522
7446-09-5 SO2 (Sulfur Dioxide)	0.0019868	0.0019868	0.3774829	0.3774829
108-88-3 Toluene	0.0000028	0.0000028	0.0005324	0.0005324
VOC VOC (Volatile Organic Compounds)	0.0010617	0.0010617	0.2067282	0.2067282
1330-20-7 Xylenes (Total)	0.0000020	0.0000020	0.0003710	0.0003710

Equipment ID (SI): EQPT0000000004 **Equipment Description:** Emergency Engine (EU72) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9 Carbon Dioxide	1.6830000	1.6830000	56.1000000	56.1000000
630-08-0 CO (Carbon Monoxide)	0.0048501	0.0048501	0.1616700	0.1616700
110-54-3 Hexane; N-Hexane	0.0000170	0.0000170	0.0005661	0.0005661
7439-92-1 Lead, Total (as Pb)	0.0000077	0.0000077	0.0002550	0.0002550
74-82-8 Methane	0.0191250	0.0191250	0.6375000	0.6375000
10024-97-2 Nitrous Oxide	0.0000034	0.0000034	0.0001125	0.0001125
10102-44-0 NO2 (Nitrogen Dioxide)	0.0624240	0.0624240	2.0808000	2.0808000
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0001528	0.0001528	0.0050934	0.0050934
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0001528	0.0001528	0.0050934	0.0050934
PM-FIL PT (Particulate Matter)	0.0001528	0.0001528	0.0050934	0.0050934
7446-09-5 SO2 (Sulfur Dioxide)	0.0000090	0.0000090	0.0002999	0.0002999
VOC VOC (Volatile Organic Compounds)	0.0018054	0.0018054	0.0601800	0.0601800

Equipment ID (SI): EQPT0000000005 **Equipment Description:** Emergency Engines (EU80) **Record Date:** 2020/04

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL</u>	<u>ACTUAL</u>	<u>TITLE V</u>	<u>MAX</u>
	<u>EMISSIONS</u>	<u>UNCONTROLLED</u>	<u>PTE</u>	<u>POTENTIAL</u>
	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>	<u>(TONS/YEAR)</u>
124-38-9 Carbon Dioxide	1.1220000	1.1220000	29.7891000	29.7891000
630-08-0 CO (Carbon Monoxide)	0.0032334	0.0032334	0.0858468	0.0858468
110-54-3 Hexane; N-Hexane	0.0000113	0.0000113	0.0003006	0.0003006
7439-92-1 Lead, Total (as Pb)	0.0000051	0.0000051	0.0001354	0.0001354
74-82-8 Methane	0.0127500	0.0127500	0.3385125	0.3385125
10024-97-2 Nitrous Oxide	0.0000023	0.0000023	0.0000597	0.0000597
10102-44-0 NO2 (Nitrogen Dioxide)	0.0416160	0.0416160	1.1049048	1.1049048
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0001019	0.0001019	0.0027046	0.0027046
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0001019	0.0001019	0.0027046	0.0027046
PM-FIL PT (Particulate Matter)	0.0001019	0.0001019	0.0027046	0.0027046
7446-09-5 SO2 (Sulfur Dioxide)	0.0000060	0.0000060	0.0001592	0.0001592
VOC VOC (Volatile Organic Compounds)	0.0012036	0.0012036	0.0319556	0.0319556

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000006 **Equipment Description:** Emergency Engine (EU81-1) **Record Date:** 2020/04
81-01

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
71-43-2 Benzene	0.0000074	0.0000074	0.0014302	0.0014302
124-38-9 Carbon Dioxide	1.5826965	1.5826965	304.1038275	304.1038275
630-08-0 CO (Carbon Monoxide)	0.0004361	0.0004361	0.0837935	0.0837935
7439-92-1 Lead, Total (as Pb)	0.0000006	0.0000006	0.0001116	0.0001116
74-82-8 Methane	0.0000604	0.0000604	0.0116060	0.0116060
10024-97-2 Nitrous Oxide	0.0000121	0.0000121	0.0023212	0.0023212
10102-44-0 NO2 (Nitrogen Dioxide)	0.0085981	0.0085981	1.6520635	1.6520635
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0000658	0.0000658	0.0126430	0.0126430
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0000658	0.0000658	0.0126430	0.0126430
PM-FIL PT (Particulate Matter)	0.0000658	0.0000658	0.0126430	0.0126430
7446-09-5 SO2 (Sulfur Dioxide)	0.0001323	0.0001323	0.0254205	0.0254205
VOC VOC (Volatile Organic Compounds)	0.0001323	0.0001323	0.0254205	0.0254205

Equipment ID (SI): EQPT0000000007 **Equipment Description:** Emergency Engine (EU81-2) **Record Date:** 2020/04
81-02

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
71-43-2 Benzene	0.0000229	0.0000229	0.0046017	0.0046017
124-38-9 Carbon Dioxide	4.8611393	4.8611393	978.4455863	978.4455863
630-08-0 CO (Carbon Monoxide)	0.0009245	0.0009245	0.1860825	0.1860825
7439-92-1 Lead, Total (as Pb)	0.0000018	0.0000018	0.0003592	0.0003592
74-82-8 Methane	0.0001855	0.0001855	0.0373419	0.0373419
10024-97-2 Nitrous Oxide	0.0000371	0.0000371	0.0074684	0.0074684
10102-44-0 NO2 (Nitrogen Dioxide)	0.0076110	0.0076110	1.5319350	1.5319350
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0001247	0.0001247	0.0250995	0.0250995
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0001247	0.0001247	0.0250995	0.0250995
PM-FIL PT (Particulate Matter)	0.0001247	0.0001247	0.0250995	0.0250995
7446-09-5 SO2 (Sulfur Dioxide)	0.0000043	0.0000043	0.0008655	0.0008655
VOC VOC (Volatile Organic Compounds)	0.0000495	0.0000495	0.0099533	0.0099533

Equipment ID (SI): EQPT0000000008 **Equipment Description:** Two Diesel Emergency Generator **Record Date:** 2020/04
85

<u>POLLUTANT ID/CAS and DESCRIPTION</u>	<u>ACTUAL EMISSIONS (TONS/YEAR)</u>	<u>ACTUAL UNCONTROLLED (TONS/YEAR)</u>	<u>TITLE V PTE (TONS/YEAR)</u>	<u>MAX POTENTIAL (TONS/YEAR)</u>
124-38-9 Carbon Dioxide	23.7404475	23.7404475	650.0360625	650.0360625
630-08-0 CO (Carbon Monoxide)	0.1222993	0.1222993	3.3486706	3.3486706
7439-92-1 Lead, Total (as Pb)	0.0000087	0.0000087	0.0002386	0.0002386
74-82-8 Methane	0.0009555	0.0009555	0.0261625	0.0261625
10024-97-2 Nitrous Oxide	0.0001890	0.0001890	0.0051750	0.0051750
10102-44-0 NO2 (Nitrogen Dioxide)	0.4604208	0.4604208	12.6067600	12.6067600
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.0082444	0.0082444	0.2257398	0.2257398
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.0079998	0.0079998	0.2190425	0.2190425
PM-FIL PT (Particulate Matter)	0.0100285	0.0100285	0.2745910	0.2745910
7446-09-5 SO2 (Sulfur Dioxide)	0.0002187	0.0002187	0.0059882	0.0059882
VOC VOC (Volatile Organic Compounds)	0.0117839	0.0117839	0.3226543	0.3226543

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Compliance by Equipment ID (SI):

<u>Equipment ID (SI)</u>	<u>Equipment ID (SI) Description</u>	<u>Program Compliance Status</u>	<u>Operating Status</u>	<u>Compliance Status</u>
COMB000000003	07 Indirect Heat Exchanger (EU07)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000003	Indirect Heat Exchanger (EU07)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000004	08 Indirect Heat Exchanger (EU08)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000004	Indirect Heat Exchanger (EU08)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000005	09 Indirect Heat Exchanger (EU09)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000006	10 Indirect Heat Exchanger (EU10)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000007	13 Indirect Heat Exchanger (EU13-1)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000007	Indirect Heat Exchanger (EU13-1)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000008	20-21 Indirect Heat Exchangers (EU20-21)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000009	22-48 Indirect Heat Exchangers (EU22-48)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000010	51-52 Indirect Heat Exchanger (EU-51)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000010	Indirect Heat Exchanger (EU-51)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000011	53 Diesel Generator (EU53)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000012	54 Seven (7) Diesel Generators (EU54)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000013	55 Nine (9) Diesel Generators (EU55)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000014	56 Six (6) Diesel Generators (EU56)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000015	57 Eleven Indirect Heat Exchangers (EU57)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000016	58 Thirteen Indirect Heat Exchangers (EU58)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000017	59 42 Diesel Generators (EU59)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000018	15 Indirect Heat Exchanger (EU15)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000018	Indirect Heat Exchanger (EU15)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000019	60-69 Five (5) Diesel Generators (EU60-62,67,69)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000019	Five (5) Diesel Generators (EU60-62,67,69)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000019	Five (5) Diesel Generators (EU60-62,67,69)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000020	16 Indirect Heat Exchanger (EU16)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000020	Indirect Heat Exchanger (EU16)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000021	63-66 Four (4) Diesel Generators (EU63-66)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000022	75 Emergency Diesel Generator (EU75)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000022	Emergency Diesel Generator (EU75)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000022	Emergency Diesel Generator (EU75)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000023	76 Emergency Diesel Generator (EU76)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000023	Emergency Diesel Generator (EU76)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000023	Emergency Diesel Generator (EU76)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000024	77 Emergency Diesel Generator (EU77)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000024	Emergency Diesel Generator (EU77)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000024	Emergency Diesel Generator (EU77)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000026	78 Eleven Emergency Generators (EU78)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000026	Eleven Emergency Generators (EU78)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000027	79 Emergency Fire Pump Engine (EU79)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000027	Emergency Fire Pump Engine (EU79)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000027	Emergency Fire Pump Engine (EU79)	G-Area Source MACT	O-Operating	4-In Compliance - Certification
COMB000000028	EU01 Indirect Heat Exchanger (EU01)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000028	Indirect Heat Exchanger (EU01)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000029	EU02 Indirect Heat Exchanger (EU02)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000029	Indirect Heat Exchanger (EU02)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000031	68 Diesel Generator (EU68)	0-SIP Source	O-Operating	4-In Compliance - Certification
COMB000000031	Diesel Generator (EU68)	9-NSPS	O-Operating	4-In Compliance - Certification
COMB000000031	Diesel Generator (EU68)	G-Area Source MACT	O-Operating	4-In Compliance - Certification

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

<u>Facility ID:</u>		<u>AI ID:</u>		<u>YEAR OF INVENTORY:</u>		
2106700003		1104		2020		Fayette County
COMB0000000032	EU82	Samaritan Hospital Boiler #3 (EU 82)		0-SIP Source	O-Operating	4-In Compliance - Certification
COMB0000000033	EU83	Samaritan Hospital Boiler #1		0-SIP Source	O-Operating	4-In Compliance - Certification
COMB0000000033		Samaritan Hospital Boiler #1		9-NSPS	O-Operating	4-In Compliance - Certification
COMB0000000034	EU84	Samaritan Hospital Boiler #2		0-SIP Source	O-Operating	4-In Compliance - Certification
COMB0000000034		Samaritan Hospital Boiler #2		9-NSPS	O-Operating	4-In Compliance - Certification
COMB0000000035	13-2	Indirect Heat Exchanger (EU13-2)		0-SIP Source	C-Under Construction	C-In Compliance With Procedural Reqr
COMB0000000035		Indirect Heat Exchanger (EU13-2)		G-Area Source MACT	C-Under Construction	C-In Compliance With Procedural Reqr
<u>Equipment ID (SI)</u>		<u>Equipment ID (SI) Description</u>		<u>Program Compliance Status</u>	<u>Operating Status</u>	<u>Compliance Status</u>
EQPT0000000001	49-50	Paint Spray Booths (EU49-50)		0-SIP Source	O-Operating	3-In Compliance - Inspection
EQPT0000000002	70	Emergency Generators (EU70)		0-SIP Source	O-Operating	4-In Compliance - Certification
EQPT0000000002		Emergency Generators (EU70)		9-NSPS	O-Operating	4-In Compliance - Certification
EQPT0000000002		Emergency Generators (EU70)		G-Area Source MACT	O-Operating	4-In Compliance - Certification
EQPT0000000003	71	Two Diesel Emergency Generators		0-SIP Source	O-Operating	4-In Compliance - Certification
EQPT0000000003		Two Diesel Emergency Generators		9-NSPS	O-Operating	4-In Compliance - Certification
EQPT0000000003		Two Diesel Emergency Generators		G-Area Source MACT	O-Operating	4-In Compliance - Certification
EQPT0000000004	72	Emergency Engine (EU72)		0-SIP Source	O-Operating	4-In Compliance - Certification
EQPT0000000004		Emergency Engine (EU72)		9-NSPS	O-Operating	4-In Compliance - Certification
EQPT0000000004		Emergency Engine (EU72)		G-Area Source MACT	O-Operating	4-In Compliance - Certification
EQPT0000000005	80	Emergency Engines (EU80)		0-SIP Source	O-Operating	4-In Compliance - Certification
EQPT0000000005		Emergency Engines (EU80)		9-NSPS	O-Operating	4-In Compliance - Certification
EQPT0000000005		Emergency Engines (EU80)		G-Area Source MACT	O-Operating	4-In Compliance - Certification
EQPT0000000006	81-01	Emergency Engine (EU81-1)		0-SIP Source	O-Operating	4-In Compliance - Certification
EQPT0000000006		Emergency Engine (EU81-1)		9-NSPS	O-Operating	4-In Compliance - Certification
EQPT0000000006		Emergency Engine (EU81-1)		G-Area Source MACT	O-Operating	4-In Compliance - Certification
EQPT0000000007	81-02	Emergency Engine (EU81-2)		0-SIP Source	O-Operating	4-In Compliance - Certification
EQPT0000000007		Emergency Engine (EU81-2)		9-NSPS	O-Operating	4-In Compliance - Certification
EQPT0000000007		Emergency Engine (EU81-2)		G-Area Source MACT	O-Operating	4-In Compliance - Certification
EQPT0000000008	85	Two Diesel Emergency Generator		0-SIP Source	C-Under Construction	C-In Compliance With Procedural Reqr
EQPT0000000008		Two Diesel Emergency Generator		9-NSPS	C-Under Construction	C-In Compliance With Procedural Reqr
EQPT0000000008		Two Diesel Emergency Generator		G-Area Source MACT	C-Under Construction	C-In Compliance With Procedural Reqr

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

<u>Equipment ID (SI):</u>	<u>Equipment Description:</u>	<u>Operating Schedule</u>			<u>% Annual Throughput</u>			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
COMB000000003 07	Indirect Heat Exchanger (EU07) Medical Center Boiler #1 Capacity: 75 mmBtu/hr Fuel: Coal	24	7	52	67	25	8	0

<u>Stack Information:</u>	<u>Stack Height (ft)</u>	<u>Stack Diameter (ft)</u>	<u>Height of Release (ft)</u>	<u>Stack Flow Rate (acfm)</u>	<u>Stack Velocity (ft/sec)</u>	<u>Exit Temperature (F)</u>
	118.00	6.00		83600.00	49.28	500.00

<u>Equipment ID (SI) Detail Information:</u>	<u>Equipment ID (SI):</u>	<u>Process ID:</u>	<u>Process Description:</u>	<u>SCC Code and Description:</u>
	07	1	Med Center Boiler #1 - Coal	10300209 External Combustion Boilers, Commercial/Institutional (1-03), Bituminous/Subbituminous Coal (1-03-002), Spreader Stoker (Bituminous Coal) (1-03-002-09)

<u>Number of Boilers:</u>	<u>SCC Units:</u>	<u>Applicable Regulation</u>
1	Tons Bituminous Coal Burned	401 KAR 61:015; 40 CFR 63, Subpart JJJJJ

<u>Boiler Number and Capacity (mmBTU/hr):</u>	<u>Fugitive Emissions</u>	<u>Count Emission For PTE</u>	<u>Confidential Information</u>	<u>Sulfur Content % Sulfur</u>	<u>Use % Sulfur in emission calc</u>	<u>Ash Content % Ash</u>	<u>Use % Ash in emission calc</u>
ID#: 75	N	Y	F	0.78	N	6.00	N

Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/vr)</u>	<u>Maximum Operating Limitation (hrs/vr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>
2.884600	2534.600000	8760.00	25269.10	Tons/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
124-38-9 Carbon Dioxide	6250.0000000				7920.62500000	7920.62500000	78965.92500000
16887-00-6 Chloride	0.0780000				0.09884940	0.09884940	0.98549474
630-08-0 CO (Carbon Monoxide)	3.5100187				4.44824672	4.44824672	44.34750000
110-54-3 Hexane; N-Hexane	0.0000670				0.00008491	0.00008491	0.00084651
7647-01-0 Hydrochloric Acid	1.4400000				1.82491200	1.82491200	18.19374912
7664-39-3 Hydrofluoric Acid	0.1500000				0.19009500	0.19009500	1.89518220
7439-92-1 Lead, Total (as Pb)	0.0007080		0		0.00089725	0.00089725	0.00894526
7439-97-6 Mercury, Total (as Hg)	0.0000250				0.00003168	0.00003168	0.00031586
74-82-8 Methane	0.0600000				0.07603800	0.07603800	0.75807288
10024-97-2 Nitrous Oxide	0.0400000				0.05069200	0.05069200	0.50538192
10102-44-0 NO2 (Nitrogen Dioxide)	11.0000000				13.94030000	13.94030000	138.98002800
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	5.1930000	Cyclone / Centrifugal Collector	0	0	6.58108890	6.58108890	65.61120776
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	5.1930000	Cyclone / Centrifugal Collector	0	0	6.58108890	6.58108890	65.61120776
PM-FIL PT (Particulate Matter)	5.1930000	Cyclone / Centrifugal Collector	0	0	6.58108890	6.58108890	65.61120776
7446-09-5 SO2 (Sulfur Dioxide)	30.4000000				38.52592000	38.52592000	384.09025920
VOC VOC (Volatile Organic Compounds)	0.5000000				0.63365000	0.63365000	6.31727400

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000004	Equipment Description: Indirect Heat Exchanger (EU08) Medical Center Boiler #2 Capacity: 75 mmBtu/hr Fuel: Coal	Operating Schedule			% Annual Throughput			
08		Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
		24	7	52	0	0	100	0

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	118.00	6.00		83600.00	49.28	500.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 08

Process ID: 1	Process Description: Med Center Boiler #2 - Coal	SCC Code and Description: 10300209 External Combustion Boilers, Commercial/Institutional (1-03), Bituminous/Subbituminous Coal (1-03-002), Spreader Stoker (Bituminous Coal) (1-03-002-09)
Number of Boilers: 1	SCC Units: Tons Bituminous Coal Burned	Applicable Regulation: 401 KAR 61:015; 40 CFR 63, Subpart JJJJJJ
Boiler Number and Capacity (mmBTU/hr): ID#1: 75		

Construction Date: 07/01/1958	Fugitive Emissions: N	Count Emission For PTE: Y	Confidential Information: F	Sulfur Content % Sulfur: 0.78	Use % Sulfur in emission calc: N	Ash Content % Ash: 6.00	Use % Ash in emission calc: N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
2.888460	84.900000	8760.00	25269.10	Tons/Yr					
Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)		
124-38-9 Carbon Dioxide	6250.0000000				265.31250000	265.31250000	79071.59250000		
16887-00-6 Chloride	0.0780000				0.00331110	0.00331110	0.98681347		
630-08-0 CO (Carbon Monoxide)	5.0700070				0.21522180	0.21522180	64.14296490		
110-54-3 Hexane; N-Hexane	0.0000670				0.00000284	0.00000284	0.00084765		
7647-01-0 Hydrochloric Acid	1.4400000				0.06112800	0.06112800	18.21809491		
7664-39-3 Hydrofluoric Acid	0.1500000				0.00636750	0.00636750	1.89771822		
7439-92-1 Lead, Total (as Pb)	0.0008500		0		0.00003608	0.00003608	0.01075374		
7439-97-6 Mercury, Total (as Hg)	0.0000250				0.00000106	0.00000106	0.00031629		
74-82-8 Methane	0.0600000				0.00254700	0.00254700	0.75908729		
10024-97-2 Nitrous Oxide	0.0400000				0.00169800	0.00169800	0.50605819		
10102-44-0 NO2 (Nitrogen Dioxide)	11.0000000				0.46695000	0.46695000	139.16600280		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	5.1930000	Cyclone / Centrifugal Collector	0		0.22044285	0.22044285	65.69900478		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	5.1930000	Cyclone / Centrifugal Collector	0		0.22044285	0.22044285	65.69900478		
PM-FIL PT (Particulate Matter)	5.1930000	Cyclone / Centrifugal Collector	0		0.22044285	0.22044285	65.69900478		
7446-09-5 SO2 (Sulfur Dioxide)	30.4000000				1.29048000	1.29048000	384.60422592		
VOC VOC (Volatile Organic Compounds)	0.5000000				0.02122500	0.02122500	6.32572740		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000005 09	Equipment Description: Indirect Heat Exchanger (EU09) Medical Center Boiler #3 Capacity: 144 mmBtu/hr Primary Fuel: NG Secondary Fuel: #2 Fuel Oil	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24	7	52	34	41	1	24

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	<u>(ft)</u>	<u>Diameter (ft)</u>	<u>(ft)</u>	<u>Rate (acfm)</u>	<u>(ft/sec)</u>	<u>Temperature (F)</u>
	82.00	5.60		34996.00	23.68	300.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 09

Process ID:	Process Description:	SCC Code and Description:
1	Med Center Boiler #3 - NG	10300601 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), > 100 Million Btu/hr (1-03-006-01)
Number of Boilers:	1	SCC Units:
Boiler Number and Capacity (mmBTU/hr):		Million Cubic Feet Natural Gas Burned
ID#1: 144		Applicable Regulation: 401 KAR 61:015

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
07/01/1970	N	Y	F	0	N	0	N

Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/vr)</u>	<u>Maximum Operating Limitation (hrs/vr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>
0.141200	106.300000	8712.00	1230.13	MMscf/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
124-38-9 Carbon Dioxide	120000.0000000				6378.00000000	6378.00000000	73808.06400000
630-08-0 CO (Carbon Monoxide)	84.0000000				4.46460000	4.46460000	51.66564480
110-54-3 Hexane; N-Hexane	1.8000000				0.09567000	0.09567000	1.10712096
74-82-8 Methane	2.3000000				0.12224500	0.12224500	1.41465456
10024-97-2 Nitrous Oxide	2.2000000				0.11693000	0.11693000	1.35314784
10102-44-0 NO2 (Nitrogen Dioxide)	280.0000000				14.88200000	14.88200000	172.21881600
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.40394000	0.40394000	4.67451072
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6000000				0.40394000	0.40394000	4.67451072
PM-FIL PT (Particulate Matter)	7.6000000				0.40394000	0.40394000	4.67451072
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.03189000	0.03189000	0.36904032
VOC VOC (Volatile Organic Compounds)	5.5000000				0.29232500	0.29232500	3.38286960

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: 2 **Process Description:** Med Center Boiler #3 - FuelOil

Equipment ID (SI): 09

SCC Code and Description:
10300501 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), Grades 1 and 2 Oil (1-03-005-01)

Number of Boilers: 1

Boiler Number and Capacity (mmBTU/hr):

ID#1: 144

SCC Units:
1000 Gallons Distillate Oil (No. 1 & 2) Burned

Applicable Regulation
401 KAR 61:015

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
07/01/1970	N	N	F	0	N	0	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
1.051100	0	48.00	50.45	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9 Carbon Dioxide	22300.0000000				0	0	562.54872000
630-08-0 CO (Carbon Monoxide)	5.0000000				0	0	0.12613200
7439-92-1 Lead, Total (as Pb)	0.0012300				0	0	0.00003103
74-82-8 Methane	0.2160000				0	0	0.00544890
10024-97-2 Nitrous Oxide	0.2600000				0	0	0.00655886
10102-44-0 NO2 (Nitrogen Dioxide)	24.0000000				0	0	0.60543360
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	3.3000000				0	0	0.08324712
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	3.3000000				0	0	0.08324712
PM-FIL PT (Particulate Matter)	3.3000000				0	0	0.08324712
7446-09-5 SO2 (Sulfur Dioxide)	0.2100000				0	0	0.00529754
VOC VOC (Volatile Organic Compounds)	0.5600000				0	0	0.01412678

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000006 10	Equipment Description: Indirect Heat Exchanger (EU10) Medical Center Boiler #4 Capacity: 144 mmBtu/hr Primary Fuel: NG Secondary Fuel: #2 Fuel Oil	Operating Schedule			% Annual Throughput			
		Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
		24	7	52	28	27	29	16

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	82.00	5.60		34996.00	23.68	300.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 10

Process ID: 1	Process Description: Med Center Boiler #4 - NG	SCC Code and Description: 10300601 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), > 100 Million Btu/hr (1-03-006-01)
Number of Boilers: 1		SCC Units: Million Cubic Feet Natural Gas Burned
Boiler Number and Capacity (mmBTU/hr): ID#1: 144		Applicable Regulation: 401 KAR 61:015

Construction Date: 07/01/1970	Fugitive Emissions: N	Count Emission For PTE: Y	Confidential Information: F	Sulfur Content % Sulfur: 0	Use % Sulfur in emission calc: N	Ash Content % Ash: 0	Use % Ash in emission calc: N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.141200	228.600000	8712.00	1230.13	MMscf/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/vr)	PTE Emissions (tons/vr)
124-38-9 Carbon Dioxide	120000.0000000				13716.00000000	13716.00000000	73808.06400000
630-08-0 CO (Carbon Monoxide)	84.0000000				9.60120000	9.60120000	51.66564480
110-54-3 Hexane; N-Hexane	1.8000000				0.20574000	0.20574000	1.10712096
74-82-8 Methane	2.3000000				0.26289000	0.26289000	1.41465456
10024-97-2 Nitrous Oxide	2.2000000				0.25146000	0.25146000	1.35314784
10102-44-0 NO2 (Nitrogen Dioxide)	280.0000000				32.00400000	32.00400000	172.21881600
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.86868000	0.86868000	4.67451072
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	1.9000000				0.21717000	0.21717000	1.16862768
PM-FIL PT (Particulate Matter)	7.6000000				0.86868000	0.86868000	4.67451072
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.06858000	0.06858000	0.36904032
VOC VOC (Volatile Organic Compounds)	5.5000000				0.62865000	0.62865000	3.38286960

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Equipment ID (SI): 10

Process ID: 2 **Process Description:** Med Center Boiler #4 - FuelOil

SCC Code and Description:
10300501 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), Grades 1 and 2 Oil (1-03-005-01)

Number of Boilers: 1

SCC Units:
1000 Gallons Distillate Oil (No. 1 & 2) Burned

Applicable Regulation:
401 KAR 61:015

Boiler Number and Capacity (mmBTU/hr):
ID#1: 144

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
07/01/1970	N	N	F	0.05	N	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
1.051095	7.250000	48.00	50.45	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9 Carbon Dioxide	22300.0000000				80.83750000	80.83750000	562.54604400
630-08-0 CO (Carbon Monoxide)	5.0000000				0.01812500	0.01812500	0.12613140
7439-92-1 Lead, Total (as Pb)	0.0012300				0.00000446	0.00000446	0.00003103
74-82-8 Methane	0.2160000				0.00078300	0.00078300	0.00544888
10024-97-2 Nitrous Oxide	0.2600000				0.00094250	0.00094250	0.00655883
10102-44-0 NO2 (Nitrogen Dioxide)	24.0000000				0.08700000	0.08700000	0.60543072
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	3.3000000				0.01196250	0.01196250	0.08324672
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	3.3000000				0.01196250	0.01196250	0.08324672
PM-FIL PT (Particulate Matter)	3.3000000				0.01196250	0.01196250	0.08324672
7446-09-5 SO2 (Sulfur Dioxide)	0.2100000				0.00076125	0.00076125	0.00529752
VOC VOC (Volatile Organic Compounds)	0.5600000				0.00203000	0.00203000	0.01412672

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000007	Equipment Description: Indirect Heat Exchanger (EU13-1) Central Boilers #3 Capacity: 93.75 mmBtu/hr Fuel: Coal	Operating Schedule <u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u> 24 7 52	% Annual Throughput <u>Dec-Feb</u> <u>Mar-May</u> <u>Jun-Aug</u> <u>Sep-Nov</u> 0 0 0 0
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Stack Information:	Stack Height <u>(ft)</u>	Stack Diameter <u>(ft)</u>	Height of Release <u>(ft)</u>	Stack Flow Rate <u>(acfm)</u>	Stack Velocity <u>(ft/sec)</u>	Exit Temperature <u>(F)</u>
	69.00	6.00		122000.00	71.91	350.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 13

Process ID: 1	Process Description: Central Boiler #3 - Coal	SCC Code and Description: 10300207 External Combustion Boilers, Commercial/Institutional (1-03), Bituminous/Subbituminous Coal (1-03-002), Overfeed Stoker (Bituminous Coal) (1-03-002-07)	SCC Units: Tons Bituminous Coal Burned	Applicable Regulation 401 KAR 59:015; 40 CFR 63, Subpart JJJJJJ
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Number of Boilers: 2 **Boiler Number and Capacity (mmBTU/hr):**
ID#1: 93.8; ID#2: 93.8

Construction Date: 03/01/1977	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information F	Sulfur Content % Sulfur 0.78	Use % Sulfur in emission calc N	Ash Content % Ash 6.00	Use % Ash in emission calc N
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Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
3.605800	0	8760.00	31586.81	Tons/Yr					
<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>		
124-38-9 Carbon Dioxide	6250.00000000				0	0	98708.77500000		
630-08-0 CO (Carbon Monoxide)	0.59800000				0	0	9.44445559		
110-54-3 Hexane; N-Hexane	0.0000670				0	0	0.00105816		
7647-01-0 Hydrochloric Acid	0.67600000				0	0	10.67634110		
7664-39-3 Hydrofluoric Acid	0.15000000				0	0	2.36901060		
7439-92-1 Lead, Total (as Pb)	0.00066000		0		0	0	0.01042365		
7439-97-6 Mercury, Total (as Hg)	0.00040000				0	0	0.00631736		
74-82-8 Methane	0.06000000				0	0	0.94760424		
10024-97-2 Nitrous Oxide	0.04000000				0	0	0.63173616		
10102-44-0 NO2 (Nitrogen Dioxide)	7.98200000				0	0	126.06295073		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	3.69200000	Cyclone / Centrifugal Collector	0		0	0	58.30924757		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	3.69200000	Cyclone / Centrifugal Collector	0		0	0	58.30924757		
PM-FIL PT (Particulate Matter)	3.69200000	Cyclone / Centrifugal Collector	0		0	0	58.30924757		
7446-09-5 SO2 (Sulfur Dioxide)	30.40000000				0	0	480.11948160		
VOC VOC (Volatile Organic Compounds)	0.05000000				0	0	0.78967020		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000008 20-21	Equipment Description: Indirect Heat Exchangers (EU20-21) Bruce Poundstone Boilers Ag. Reg. Services, Bldg #275 Capacity: 2.5 mmBtu/hr each Fuel: NG	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24	7	52	46	26	13	15

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	<u>(ft)</u>	<u>Diameter (ft)</u>	<u>(ft)</u>	<u>Rate (acfm)</u>	<u>(ft/sec)</u>	<u>Temperature (F)</u>
	10.00	6.60		70628.00	34.41	70.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 20-21

Process ID:	Process Description:	SCC Code and Description:
1	Ag Reg Services Boilers - NG	10300603 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), < 10 Million Btu/hr (1-03-006-03)
Number of Boilers: 2		SCC Units: Million Cubic Feet Natural Gas Burned
Boiler Number and Capacity (mmBTU/hr):		Applicable Regulation: 401 KAR 59:015
ID#1: 2.5; ID#2: 2.5		

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
03/01/1987	N	Y	F	0	N	0	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.004920	3.500000	8760.00	43.10	MMscf/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
124-38-9 Carbon Dioxide	120000.0000000				210.00000000	210.00000000	2585.95200000
630-08-0 CO (Carbon Monoxide)	84.0000000				0.14700000	0.14700000	1.81016640
110-54-3 Hexane; N-Hexane	1.8000000				0.00315000	0.00315000	0.03878928
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00000088	0.00000088	0.00001077
74-82-8 Methane	2.3000000				0.00402500	0.00402500	0.04956408
10024-97-2 Nitrous Oxide	2.2000000				0.00385000	0.00385000	0.04740912
10102-44-0 NO2 (Nitrogen Dioxide)	100.0000000				0.17500000	0.17500000	2.15496000
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.01330000	0.01330000	0.16377696
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	1.9000000				0.00332500	0.00332500	0.04094424
PM-FIL PT (Particulate Matter)	7.6000000				0.01330000	0.01330000	0.16377696
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.00105000	0.00105000	0.01292976
VOC VOC (Volatile Organic Compounds)	5.5000000				0.00962500	0.00962500	0.11852280

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000009	Equipment Description: Indirect Heat Exchangers (EU22-48) Shawneetown (Bldg. A-F) Capacity: 1.25 mmBtu/hr each Fuel: NG	Operating Schedule	% Annual Throughput			
22-48		<u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24 7 52	53	34	5	8

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	(ft)	Diameter (ft)	(ft)	Rate (acfm)	(ft/sec)	Temperature (F)
	10.00	6.00		70628.00	41.63	70.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 22-48

Process ID:	Process Description:	SCC Code and Description:
1	Shawneetown Boilers (12) - NG	10300602 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), 10-100 Million Btu/hr (1-03-006-02)
Number of Boilers:	12	SCC Units:
Boiler Number and Capacity (mmBTU/hr):		Million Cubic Feet Natural Gas Burned
ID#1: 1.3; ID#2: 1.3; ID#3: 1.3; ID#4: 1.3; ID#5: 1.3; ID#6: 1.3; ID#7: 1.3; ID#8: 1.3; ID#9: 1.3; ID#10: 1.3; ID#11: 1.3; ID#12: 1.3		Applicable Regulation
		401 KAR 61:015

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/1956	N	Y	F	0	N	0	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.014700	8.500000	8760.00	128.77	MMscf/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual	PTE	Actual	Unctrl Act Emissions	PTE Emissions
			Ctrl.	Ctrl. Eff.	Emissions	(tons/vr)	(tons/vr)
124-38-9 Carbon Dioxide	120000.0000000				510.00000000	510.00000000	7726.32000000
630-08-0 CO (Carbon Monoxide)	84.0000000				0.35700000	0.35700000	5.40842400
110-54-3 Hexane; N-Hexane	1.8000000				0.00765000	0.00765000	0.11589480
74-82-8 Methane	2.3000000				0.00977500	0.00977500	0.14808780
10024-97-2 Nitrous Oxide	2.2000000				0.00935000	0.00935000	0.14164920
10102-44-0 NO2 (Nitrogen Dioxide)	100.0000000				0.42500000	0.42500000	6.43860000
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.03230000	0.03230000	0.48933360
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	1.9000000				0.00807500	0.00807500	0.12233340
PM-FIL PT (Particulate Matter)	7.6000000				0.03230000	0.03230000	0.48933360
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.00255000	0.00255000	0.03863160
VOC VOC (Volatile Organic Compounds)	5.5000000				0.02337500	0.02337500	0.35412300

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000010 51-52	Equipment Description: Indirect Heat Exchanger (EU-51) Central Utility Plant Boiler #1 Capacity: 72.3 mmBtu/hr Primary Fuel: NG Secondary Fuel: #2 Fuel Oil	Operating Schedule <u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u> 24 7 52	% Annual Throughput <u>Dec-Feb</u> <u>Mar-May</u> <u>Jun-Aug</u> <u>Sep-Nov</u> 26 20 2 52
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Stack Information:	Stack Height <u>(ft)</u> 41.00	Stack Diameter <u>(ft)</u> 3.33	Height of Release <u>(ft)</u>	Stack Flow Rate <u>(acfm)</u> 12955.00	Stack Velocity <u>(ft/sec)</u> 24.79	Exit Temperature <u>(F)</u> 304.00
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Equipment ID (SI) Detail Information: **Equipment ID (SI):** 51-52

Process ID: 1	Process Description: CUP Boiler #1 - NG	SCC Code and Description: 10300602 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), 10-100 Million Btu/hr (1-03-006-02)	Applicable Regulation 401 KAR 59:015; 40 CFR 60, Subpart Dc
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Number of Boilers: 1 **SCC Units:** Million Cubic Feet Natural Gas Burned

Boiler Number and Capacity (mmBTU/hr): ID#1: 72.3

Construction Date: 04/01/2004	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information F	Sulfur Content % Sulfur 0	Use % Sulfur in emission calc N	Ash Content % Ash 0	Use % Ash in emission calc N
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Operating Information:

<u>Maximum Hourly Operating Rate</u> <u>(SCC Units/hr)</u>	<u>Annual Throughput</u> <u>(SCC Units/vr)</u>	<u>Maximum Operating Limitation</u> <u>(hrs/vr)</u>	<u>Maximum Operating Limitation</u> <u>(MMscf/Yr)</u>	<u>Maximum Operating Description</u>
0.071200	49.000000	8712.00	620.29	MMscf/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
124-38-9 Carbon Dioxide	120000.0000000				2940.00000000	2940.00000000	37217.66400000
630-08-0 CO (Carbon Monoxide)	76.5000000				1.87425000	1.87425000	23.72626080
110-54-3 Hexane; N-Hexane	1.8000000				0.04410000	0.04410000	0.55826496
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00001225	0.00001225	0.00015507
74-82-8 Methane	2.3000000				0.05635000	0.05635000	0.71333856
10024-97-2 Nitrous Oxide	2.2000000				0.05390000	0.05390000	0.68232384
10102-44-0 NO2 (Nitrogen Dioxide)	34.2000000				0.83790000	0.83790000	10.60703424
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.18620000	0.18620000	2.35711872
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6000000				0.18620000	0.18620000	2.35711872
PM-FIL PT (Particulate Matter)	7.6000000				0.18620000	0.18620000	2.35711872
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.01470000	0.01470000	0.18608832
VOC VOC (Volatile Organic Compounds)	5.5000000				0.13475000	0.13475000	1.70580960

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Equipment ID (SI): 51-52

Process ID: 2 **Process Description:** CUP Boiler #1 - Fuel Oil

SCC Code and Description:
10300501 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), Grades 1 and 2 Oil (1-03-005-01)

Number of Boilers: 1

SCC Units:
1000 Gallons Distillate Oil (No. 1 & 2) Burned

Applicable Regulation
401 KAR 59:015; 40 CFR 60, Subpart Dc

Boiler Number and Capacity (mmBTU/hr):
ID#1: 72.3

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
04/01/2004	N	N	F	0.05	Y	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.527700	0	48.00	25.33	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9 Carbon Dioxide	22300.0000000				0	0	282.42504000
630-08-0 CO (Carbon Monoxide)	10.5000000				0	0	0.13298040
7439-92-1 Lead, Total (as Pb)	0.0012300				0	0	0.00001558
74-82-8 Methane	0.2160000				0	0	0.00273560
10024-97-2 Nitrous Oxide	0.2600000				0	0	0.00329285
10102-44-0 NO2 (Nitrogen Dioxide)	18.0000000				0	0	0.22796640
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	3.3000000				0	0	0.04179384
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	3.3000000				0	0	0.04179384
PM-FIL PT (Particulate Matter)	3.3000000				0	0	0.04179384
7446-09-5 SO2 (Sulfur Dioxide)	142.0000000				0	0	0.08992008
VOC VOC (Volatile Organic Compounds)	0.5600000				0	0	0.00709229

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): **Equipment Description:** **Operating Schedule** **% Annual Throughput**
 COMB0000000011 Diesel Generator (EU53) **Hours/Day Days/Week Weeks/Year** **Dec-Feb Mar-May Jun-Aug Sep-Nov**
 53 Central Utility Plant 24 7 52 36 26 19 19
 Capacity: 2885 HP
 Fuel: Diesel
 **To preclude PSD, this unit shall not operate
 more than 200 hours/yr and shall not burn more
 than 27000 gallons of diesel fuel.

Stack Information: **Stack Height** **Stack** **Height of Release** **Stack Flow** **Stack Velocity** **Exit**
 (ft) Diameter (ft) (ft) Rate (acfm) (ft/sec) Temperature (F)
 16.00 1.00 15206.00 322.68 841.80

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 53

Process ID: **Process Description:** **SCC Code and Description:**
 1 BBSRB Diesel Generator >600Hp 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel)
 (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** **Applicable Regulation**
 1000 Gallons Distillate Oil (Diesel) Burned

Boiler Number and Capacity (mmBTU/hr):

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
10/01/2004	N	Y	N	0.05	N	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.147000	0.360000	200.00	29.40	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9 Carbon Dioxide	22609.9500000				4.06979100	4.06979100	332.36626500
630-08-0 CO (Carbon Monoxide)	116.4750000				0.02096550	0.02096550	1.71218250
110-54-3 Hexane; N-Hexane	0.0000670				0.00000001	0.00000001	0.00000098
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000149	0.00000149	0.00012201
10102-44-0 NO2 (Nitrogen Dioxide)	438.4960000				0.07892928	0.07892928	6.44589120
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.8518190				0.00141333	0.00141333	0.11542174
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6188680				0.00137140	0.00137140	0.11199736
PM-FIL PT (Particulate Matter)	9.5509910				0.00171918	0.00171918	0.14039957
7446-09-5 SO2 (Sulfur Dioxide)	0.2082856				0.00003749	0.00003749	0.00306180
VOC VOC (Volatile Organic Compounds)	11.2200000				0.00201960	0.00201960	0.16493400

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000012 **Equipment Description:** Seven (7) Diesel Generators (EU54) **Operating Schedule** **% Annual Throughput**

54	Medical Central Heating and Cooling, Ben Roach Facility, Combs Bldg, Wright Medical Plaza, KY Clinic, UK Hospital-Chandler and Sander Brown Bldg Capacity: 587-2385 HP Fuel: Diesel	<u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u>	<u>Dec-Feb</u> <u>Mar-May</u> <u>Jun-Aug</u> <u>Sep-Nov</u>
		24 7 52	25 22 30 23

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	16.00	1.00		15206.00	322.68	840.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 54

Process ID: 1 **Process Description:** (7) Diesel Generators >600Hp **SCC Code and Description:** 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** 1000 Gallons Distillate Oil (Diesel) Burned **Applicable Regulation**

Boiler Number and Capacity (mmBTU/hr):

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/1973	N	Y	N	0.05	N	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.383000	7.400000	500.00	191.50	1000 Gal/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
124-38-9 Carbon Dioxide	22609.0000000				83.65330000	83.65330000	2164.81175000
630-08-0 CO (Carbon Monoxide)	116.4755000				0.43095935	0.43095935	11.15252913
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00003071	0.00003071	0.00079473
10102-44-0 NO2 (Nitrogen Dioxide)	438.4960000				1.62243520	1.62243520	41.98599200
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.8518194				0.02905173	0.02905173	0.75181171
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6188680				0.02818981	0.02818981	0.72950661
PM-FIL PT (Particulate Matter)	9.5509910				0.03533867	0.03533867	0.91450739
7446-09-5 SO2 (Sulfur Dioxide)	0.2082856				0.00077066	0.00077066	0.01994335
VOC VOC (Volatile Organic Compounds)	11.2227570				0.04152420	0.04152420	1.07457898

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: 2 **Process Description:** (7) Diesel Generators <600Hp

Equipment ID (SI): 54

SCC Code and Description:

20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers:

SCC Units:

Applicable Regulation

Boiler Number and Capacity (mmBTU/hr):

1000 Gallons Distillate Oil (Diesel) Burned

Construction Date:

01/01/1973

Fugitive Emissions

N

Count Emission For PTE

Y

Confidential Information

N

Sulfur Content % Sulfur

0.05

Use % Sulfur in emission calc

N

Ash Content % Ash

1.00

Use % Ash in emission calc

N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)

0.030000

Annual Throughput (SCC Units/yr)

0.300000

Maximum Operating Limitation (hrs/yr)

500.00

Maximum Operating Limitation

15.00

Maximum Operating Description

1000 Gal/Yr

Pollutant ID and Description

Emission Factor

Control Equipment Description

Actual Ctrl. PTE Ctrl. Eff.

Actual Emissions

Unctrl Act Emissions (tons/yr)

PTE Emissions (tons/yr)

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9 Carbon Dioxide	22473.0000000				3.37095000	3.37095000	168.54750000
630-08-0 CO (Carbon Monoxide)	130.1785000				0.01952678	0.01952678	0.97633875
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000125	0.00000125	0.00006225
10102-44-0 NO2 (Nitrogen Dioxide)	604.3023000				0.09064535	0.09064535	4.53226725
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	42.4793000				0.00637190	0.00637190	0.31859475
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	42.4793000				0.00637190	0.00637190	0.31859475
PM-FIL PT (Particulate Matter)	42.4793000				0.00637190	0.00637190	0.31859475
7446-09-5 SO2 (Sulfur Dioxide)	39.7387000				0.00596081	0.00596081	0.29804025
VOC VOC (Volatile Organic Compounds)	49.3308000				0.00739962	0.00739962	0.36998100

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000013 **Equipment Description:** Nine (9) Diesel Generators (EU55)
Central Heating Plant, Chemistry Physics, Medical Center Heating and Cooling, ASTECC, Plant Sciences, W.T. Young Library, Patterson Office Tower, Robotics Bldg., and Anderson Bldg.
Capacity: 535-1502 HP
Fuel: Diesel

Operating Schedule

			% Annual Throughput			
Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
24	7	52	11	24	42	23

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	16.00	1.00		15206.00	322.68	840.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 55

Process ID: 1 **Process Description:** (9) Diesel Generators >600 Hp **SCC Code and Description:** 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** 1000 Gallons Distillate Oil (Diesel) Burned **Applicable Regulation**

Boiler Number and Capacity (mmBTU/hr):

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/1963	N	Y	N	0.05	N	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.333000	1.210000	500.00	166.50	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual	PTE	Actual Emissions	Unctrl Act Emissions (tons/vr)	PTE Emissions (tons/vr)
			Ctrl.	Ctrl. Eff.			
124-38-9 Carbon Dioxide	22609.9500000				13.67901975	13.67901975	1882.27833750
630-08-0 CO (Carbon Monoxide)	116.4755000				0.07046768	0.07046768	9.69658538
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000502	0.00000502	0.00069098
10102-44-0 NO2 (Nitrogen Dioxide)	438.4960000				0.26529008	0.26529008	36.50479200
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.8518190				0.00475035	0.00475035	0.65366393
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6188680				0.00460942	0.00460942	0.63427076
PM-FIL PT (Particulate Matter)	9.5509910				0.00577835	0.00577835	0.79512000
7446-09-5 SO2 (Sulfur Dioxide)	0.2082856				0.00012601	0.00012601	0.01733978
VOC VOC (Volatile Organic Compounds)	11.2227570				0.00678977	0.00678977	0.93429452

**KENTUCKY DIVISION FOR AIR QUALITY
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DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: 2 **Process Description:** (9) Diesel Generators <600 Hp

Equipment ID (SI): 55

SCC Code and Description:
20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel)
(2-03-001), Reciprocating (2-03-001-01)

Number of Boilers:

SCC Units:

Applicable Regulation

Boiler Number and Capacity (mmBTU/hr):

1000 Gallons Distillate Oil (Diesel) Burned

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/1963	N	Y	N	0.05	N	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.081000	0.290000	500.00	40.50	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9 Carbon Dioxide	22473.0000000				3.25858500	3.25858500	455.07825000
630-08-0 CO (Carbon Monoxide)	130.1785000				0.01887588	0.01887588	2.63611463
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000120	0.00000120	0.00016808
10102-44-0 NO2 (Nitrogen Dioxide)	604.3023000				0.08762383	0.08762383	12.23712158
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	42.4793000				0.00615950	0.00615950	0.86020583
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	42.4793000				0.00615950	0.00615950	0.86020583
PM-FIL PT (Particulate Matter)	42.4793000				0.00615950	0.00615950	0.86020583
7446-09-5 SO2 (Sulfur Dioxide)	39.7387000				0.00576211	0.00576211	0.80470868
VOC VOC (Volatile Organic Compounds)	49.3308000				0.00715297	0.00715297	0.99894870

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000014 **Equipment Description:** Six (6) Diesel Generators (EU56) **Operating Schedule** **% Annual Throughput**

		Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
56	Capacity: 227-449 HP Fuel: Diesel	24	7	52	26	24	29	21

Stack Information:	Stack Height	Stack Diameter	Height of Release	Stack Flow Rate	Stack Velocity	Exit Temperature
	(ft)	(ft)	(ft)	(acfm)	(ft/sec)	(F)
	16.00	1.00		15206.00	322.68	840.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 56

Process ID: 1 **Process Description:** (6) Diesel Generators <600 Hp **SCC Code and Description:** 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** 1000 Gallons Distillate Oil (Diesel) Burned **Applicable Regulation:** 63:020

Boiler Number and Capacity (mmBTU/hr):

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/1969	N	Y	N	0	N	0	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.115000	1.100000	200.00	23.00	1000 Gal/Yr

Pollutant ID and Description		Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9	Carbon Dioxide	22473.0000000				12.36015000	12.36015000	258.43950000
630-08-0	CO (Carbon Monoxide)	130.1785000				0.07159818	0.07159818	1.49705275
7439-92-1	Lead, Total (as Pb)	0.0083000				0.00000457	0.00000457	0.00009545
10102-44-0	NO2 (Nitrogen Dioxide)	604.3023000				0.33236627	0.33236627	6.94947645
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	42.4793000				0.02336362	0.02336362	0.48851195
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	42.4793000				0.02336362	0.02336362	0.48851195
PM-FIL	PT (Particulate Matter)	42.4793000				0.02336362	0.02336362	0.48851195
7446-09-5	SO2 (Sulfur Dioxide)	39.7387000				0.02185629	0.02185629	0.45699505
VOC	VOC (Volatile Organic Compounds)	49.3308000				0.02713194	0.02713194	0.56730420

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): **Equipment Description:** **Operating Schedule** **% Annual Throughput**
 COMB0000000015 Eleven Indirect Heat Exchangers (EU57) **Hours/Day Days/Week Weeks/Year** **Dec-Feb Mar-May Jun-Aug Sep-Nov**
 57 Total Capacity: 19.87 mmBtu/hr 24 7 52 58 28 3 11
 Fuel: NG

Stack Information: **Stack Height** **Stack** **Height of Release** **Stack Flow** **Stack Velocity** **Exit**
 (ft) **Diameter (ft)** **(ft)** **Rate (acfm)** **(ft/sec)** **Temperature (F)**
 82.00 5.60 34996.00 23.68 300.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 57

Process ID: **Process Description:** **SCC Code and Description:**
 1 (11) Boilers - NG 10300602 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas
 (1-03-006), 10-100 Million Btu/hr (1-03-006-02)

Number of Boilers: 11 **SCC Units:** **Applicable Regulation**
 Million Cubic Feet Natural Gas Burned 401 KAR 59:015

Boiler Number and Capacity (mmBTU/hr):
 ID#1: 2.3; ID#2: 1.4; ID#3: 1.4; ID#4: 2.1; ID#5: 2.1; ID#6: 2.1; ID#7: 1.4; ID#8: 1.4; ID#9: 1.3; ID#10: 2.1; ID#11: 2.1

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/1986	N	Y	F	0	N	0	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/vr)	PTE Emissions (tons/vr)
0.019500	9.200000	8760.00	170.82	MMscf/Yr					
Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/vr)	PTE Emissions (tons/vr)		
124-38-9 Carbon Dioxide	120000.0000000				552.00000000	552.00000000	10249.20000000		
630-08-0 CO (Carbon Monoxide)	84.00000000				0.38640000	0.38640000	7.17444000		
110-54-3 Hexane; N-Hexane	1.80000000				0.00828000	0.00828000	0.15373800		
7439-92-1 Lead, Total (as Pb)	0.00050000				0.00000230	0.00000230	0.00004271		
74-82-8 Methane	2.30000000				0.01058000	0.01058000	0.19644300		
10024-97-2 Nitrous Oxide	2.20000000				0.01012000	0.01012000	0.18790200		
10102-44-0 NO2 (Nitrogen Dioxide)	100.00000000				0.46000000	0.46000000	8.54100000		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.60000000				0.03496000	0.03496000	0.64911600		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	1.90000000				0.00874000	0.00874000	0.16227900		
PM-FIL PT (Particulate Matter)	7.60000000				0.03496000	0.03496000	0.64911600		
7446-09-5 SO2 (Sulfur Dioxide)	0.60000000				0.00276000	0.00276000	0.05124600		
VOC VOC (Volatile Organic Compounds)	5.50000000				0.02530000	0.02530000	0.46975500		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000016 **Equipment Description:** Thirteen Indirect Heat Exchangers (EU58) **Operating Schedule:** **% Annual Throughput:**

		Hours/Day Days/Week Weeks/Year			Dec-Feb Mar-May Jun-Aug Sep-Nov			
58	Total Capacity: 11 mmBtu/hr Fuel: NG	24	7	52	50	29	5	16

Stack Information:	Stack Height	Stack Diameter	Height of Release	Stack Flow Rate	Stack Velocity	Exit Temperature
	(ft)	(ft)	(ft)	(acfm)	(ft/sec)	(F)
	82.00	5.60		34996.00	23.68	300.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 58

Process ID: 1 **Process Description:** (13) Boilers - NG **SCC Code and Description:** 10300603 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), < 10 Million Btu/hr (1-03-006-03)

Number of Boilers: 18 **SCC Units:** Million Cubic Feet Natural Gas Burned **Applicable Regulation:**

Boiler Number and Capacity (mmBTU/hr):
 ID#1: .8; ID#2: .8; ID#3: .3; ID#4: .3; ID#5: .3; ID#6: .3;
 ID#7: .3; ID#8: .6; ID#9: .6; ID#10: .9; ID#11: .9; ID#12: .9;
 ID#13: .6; ID#14: .6; ID#15: .6; ID#16: .6; ID#17: .8; ID#18: .8

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/1955	N	Y	N	0	N	0	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.010800	3.900000	8760.00	94.61	MMscf/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual	PTE	Actual	Unctrl Act Emissions	PTE Emissions
			Ctrl.	Ctrl. Eff.	Emissions	(tons/yr)	(tons/yr)
124-38-9 Carbon Dioxide	120000.0000000				234.00000000	234.00000000	5676.48000000
630-08-0 CO (Carbon Monoxide)	84.0000000				0.16380000	0.16380000	3.97353600
110-54-3 Hexane; N-Hexane	1.8000000				0.00351000	0.00351000	0.08514720
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00000098	0.00000098	0.00002365
74-82-8 Methane	2.3000000				0.00448500	0.00448500	0.10879920
10024-97-2 Nitrous Oxide	2.2000000				0.00429000	0.00429000	0.10406880
10102-44-0 NO2 (Nitrogen Dioxide)	100.0000000				0.19500000	0.19500000	4.73040000
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.01482000	0.01482000	0.35951040
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6000000				0.01482000	0.01482000	0.35951040
PM-FIL PT (Particulate Matter)	7.6000000				0.01482000	0.01482000	0.35951040
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.00117000	0.00117000	0.02838240
VOC VOC (Volatile Organic Compounds)	5.5000000				0.01072500	0.01072500	0.26017200

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000017 **Equipment Description:** 42 Diesel Generators (EU59) **Operating Schedule** **% Annual Throughput**

		Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
59	Capacity: 12-472 HP Fuel: Diesel	24	7	52	12	15	49	24

Stack Information:	Stack Height	Stack Diameter	Height of Release	Stack Flow Rate	Stack Velocity	Exit Temperature
	(ft)	(ft)	(ft)	(acfm)	(ft/sec)	(F)
	16.00	1.00		15206.00	322.68	840.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 59

Process ID: 1 **Process Description:** (42) Diesel Generators <600 Hp **SCC Code and Description:** 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** 1000 Gallons Distillate Oil (Diesel) Burned **Applicable Regulation**

Boiler Number and Capacity (mmBTU/hr):

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/1974	N	Y	N	0.05	N	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.377000	0.870000	500.00	188.50	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/vr)	PTE Emissions (tons/vr)
71-43-2 Benzene	0.1277840				0.00005559	0.00005559	0.01204364
124-38-9 Carbon Dioxide	22473.0000000				9.77575500	9.77575500	2118.08025000
630-08-0 CO (Carbon Monoxide)	130.1785000				0.05662765	0.05662765	12.26932363
50-00-0 Formaldehyde	0.1616954				0.00007034	0.00007034	0.01523979
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000361	0.00000361	0.00078228
10102-44-0 NO2 (Nitrogen Dioxide)	604.3023000				0.26287150	0.26287150	56.95549178
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	42.4793000				0.01847850	0.01847850	4.00367403
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	42.4793000				0.01847850	0.01847850	4.00367403
PM-FIL PT (Particulate Matter)	42.4793000				0.01847850	0.01847850	4.00367403
7446-09-5 SO2 (Sulfur Dioxide)	39.7387000				0.01728633	0.01728633	3.74537248
108-88-3 Toluene	0.0567200				0.00002467	0.00002467	0.00534586
VOC VOC (Volatile Organic Compounds)	49.3308000				0.02145890	0.02145890	4.64942790
1330-20-7 Xylenes (Total)	0.0390536				0.00001699	0.00001699	0.00368080

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000018 15	Equipment Description: Indirect Heat Exchanger (EU15) Central Utility Plant Boiler #2 Capacity: 150 mmBtu/hr Primary Fuel: NG Secondary Fuel: #2 Fuel Oil	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24	7	52	29	27	20	24

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	<u>(ft)</u>	<u>Diameter (ft)</u>	<u>(ft)</u>	<u>Rate (acfm)</u>	<u>(ft/sec)</u>	<u>Temperature (F)</u>
	41.00	3.83		90200.00	130.49	300.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 15

Process ID:	Process Description:	SCC Code and Description:	Applicable Regulation
1	CUP Boiler #2 - NG	10300601 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), > 100 Million Btu/hr (1-03-006-01)	401 KAR 59:015; 40 CFR 60, Subpart Dc
Number of Boilers:	1	SCC Units:	
Boiler Number and Capacity (mmBTU/hr):		Million Cubic Feet Natural Gas Burned	
ID#1: 150			

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
04/01/2007	N	Y	F	0	N	0	N

Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/vr)</u>	<u>Maximum Operating Limitation (hrs/vr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>
0.147100	296.000000	8712.00	1281.54	MMscf/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
124-38-9 Carbon Dioxide	120000.0000000				17760.00000000	17760.00000000	76892.11200000
630-08-0 CO (Carbon Monoxide)	37.7400000				5.58552000	5.58552000	24.18256922
110-54-3 Hexane; N-Hexane	1.8000000				0.26640000	0.26640000	1.15338168
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00007400	0.00007400	0.00032038
74-82-8 Methane	2.3000000				0.34040000	0.34040000	1.47376548
10024-97-2 Nitrous Oxide	2.2000000				0.32560000	0.32560000	1.40968872
10102-44-0 NO2 (Nitrogen Dioxide)	10.2500000				1.51700000	1.51700000	6.56786790
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.1400000				1.05672000	1.05672000	4.57508066
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.1400000				1.05672000	1.05672000	4.57508066
PM-FIL PT (Particulate Matter)	7.1400000				1.05672000	1.05672000	4.57508066
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.08880000	0.08880000	0.38446056
VOC VOC (Volatile Organic Compounds)	4.0800000				0.60384000	0.60384000	2.61433181

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: 2 **Process Description:** CUP Boiler #2 - Fuel Oil

Number of Boilers: 1

Boiler Number and Capacity (mmBTU/hr):
ID#1: 150

Equipment ID (SI): 15

SCC Code and Description:
10300501 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), Grades 1 and 2 Oil (1-03-005-01)

SCC Units:
1000 Gallons Distillate Oil (No. 1 & 2) Burned

Applicable Regulation:
401 KAR 59:015; 40 CFR 60, Subpart Dc

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
04/01/2007	N	N	F	0.05	N	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
1.094900	0	48.00	52.56	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9 Carbon Dioxide	22300.0000000				0	0	585.99048000
630-08-0 CO (Carbon Monoxide)	5.1800000				0	0	0.13611797
7439-92-1 Lead, Total (as Pb)	0.0012300				0	0	0.00003232
74-82-8 Methane	0.2160000				0	0	0.00567596
10024-97-2 Nitrous Oxide	0.2600000				0	0	0.00683218
10102-44-0 NO2 (Nitrogen Dioxide)	9.2300000				0	0	0.24254225
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	1.8500000				0	0	0.04861356
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	1.8500000				0	0	0.04861356
PM-FIL PT (Particulate Matter)	1.8500000				0	0	0.04861356
7446-09-5 SO2 (Sulfur Dioxide)	0.2100000				0	0	0.00551830
VOC VOC (Volatile Organic Compounds)	0.5600000				0	0	0.01471546

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): **Equipment Description:** **Operating Schedule** **% Annual Throughput**

COMB0000000019 Five (5) Diesel Generators (EU60-62,67,69) **Hours/Day Days/Week Weeks/Year** **Dec-Feb Mar-May Jun-Aug Sep-Nov**

60-69 Medical Center Heating and Cooling Plant (3 units) (60-62) 2 5 50 32 22 24 22

Central Utility Plant (67)
New Patient Care Parking Structure#8 (69)
Capacity (EU60-62,67): 3286 HP
Capacity (EU69): 755 HP
Fuel: Diesel

Stack Information: **Stack Height (ft)** **Stack Diameter (ft)** **Height of Release (ft)** **Stack Flow Rate (acfm)** **Stack Velocity (ft/sec)** **Exit Temperature (F)**

50.00 1.33 15206.00 182.42 840.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 60-69

Process ID: **Process Description:** **SCC Code and Description:**

1 (5) Diesel Generators >600 Hp 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** **Applicable Regulation**

Boiler Number and Capacity (mmBTU/hr): 1000 Gallons Distillate Oil (Diesel) Burned 40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ

Construction Date: **Fugitive Emissions** **Count Emission For PTE** **Confidential Information** **Sulfur Content % Sulfur** **Use % Sulfur in emission calc** **Ash Content % Ash** **Use % Ash in emission calc**

10/01/2007 N Y N 0.05 N 1.00 N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.710200	16.900000	500.00	355.10	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/vr)	PTE Emissions (tons/vr)
71-43-2 Benzene	0.1063353				0.00089853	0.00089853	0.01887983
124-38-9 Carbon Dioxide	22609.9500000				191.05407750	191.05407750	4014.39662250
630-08-0 CO (Carbon Monoxide)	116.4750000				0.98421375	0.98421375	20.68013625
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00007014	0.00007014	0.00147367
74-82-8 Methane	13.1548800				0.11115874	0.11115874	2.33564894
10024-97-2 Nitrous Oxide	0.1725794				0.00145830	0.00145830	0.03064148
10102-44-0 NO2 (Nitrogen Dioxide)	438.4960000				3.70529120	3.70529120	77.85496480
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.8518190				0.06634787	0.06634787	1.39409046
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6188680				0.06437943	0.06437943	1.35273001
PM-FIL PT (Particulate Matter)	9.5509910				0.08070587	0.08070587	1.69577845
7446-09-5 SO2 (Sulfur Dioxide)	0.2082856				0.00176001	0.00176001	0.03698111
108-88-3 Toluene	0.0380000				0.00032110	0.00032110	0.00674690
VOC VOC (Volatile Organic Compounds)	11.2227570				0.09483230	0.09483230	1.99260051
1330-20-7 Xylenes (Total)	0.0274060				0.00023158	0.00023158	0.00486594

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000020 16	Equipment Description: Indirect Heat Exchanger (EU16) Central Utility Plant Boiler #3 Capacity: 150 mmBtu/hr Primary Fuel: NG Secondary Fuel: #2 Fuel Oil	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24	7	52	48	4	0	48

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	<u>(ft)</u>	<u>Diameter (ft)</u>	<u>(ft)</u>	<u>Rate (acfm)</u>	<u>(ft/sec)</u>	<u>Temperature (F)</u>
	41.00	3.83		90200.00	130.49	300.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 16

Process ID:	Process Description:	SCC Code and Description:	Applicable Regulation
1	CUP Boiler #3 - NG	10300601 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), > 100 Million Btu/hr (1-03-006-01)	401 KAR 59:015; 40 CFR 60, Subpart Db
Number of Boilers:	1	SCC Units:	
Boiler Number and Capacity (mmBTU/hr):		Million Cubic Feet Natural Gas Burned	
ID#1: 150			

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
04/01/2009	N	Y	F	0	N	0	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.147100	66.800000	8712.00	1281.54	MMscf/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
124-38-9 Carbon Dioxide	120000.0000000				4008.00000000	4008.00000000	76892.11200000
630-08-0 CO (Carbon Monoxide)	37.7400000				1.26051600	1.26051600	24.18256922
110-54-3 Hexane; N-Hexane	1.8000000				0.06012000	0.06012000	1.15338168
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00001670	0.00001670	0.00032038
74-82-8 Methane	2.3000000				0.07682000	0.07682000	1.47376548
10024-97-2 Nitrous Oxide	2.2000000				0.07348000	0.07348000	1.40968872
10102-44-0 NO2 (Nitrogen Dioxide)	10.2500000				0.34235000	0.34235000	6.56786790
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.1400000				0.23847600	0.23847600	4.57508066
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.1400000				0.23847600	0.23847600	4.57508066
PM-FIL PT (Particulate Matter)	7.1400000				0.23847600	0.23847600	4.57508066
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.02004000	0.02004000	0.38446056
VOC VOC (Volatile Organic Compounds)	4.0800000				0.13627200	0.13627200	2.61433181

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Equipment ID (SI): 16

Process ID: 2 **Process Description:** CUP Boiler #3 - Fuel Oil

SCC Code and Description:
10300501 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), Grades 1 and 2 Oil (1-03-005-01)

Number of Boilers: 1

SCC Units:
1000 Gallons Distillate Oil (No. 1 & 2) Burned

Applicable Regulation:
401 KAR 59:015; 40 CFR 60, Subpart Db

Boiler Number and Capacity (mmBTU/hr):
ID#1: 150

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
04/01/2009	N	N	F	0.05	N	1.00	N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
1.094900	0	48.00	52.56	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9 Carbon Dioxide	22300.0000000				0	0	585.99048000
630-08-0 CO (Carbon Monoxide)	5.1800000				0	0	0.13611797
7439-92-1 Lead, Total (as Pb)	0.0012800				0	0	0.00003364
74-82-8 Methane	0.2160000				0	0	0.00567596
10024-97-2 Nitrous Oxide	0.2600000				0	0	0.00683218
10102-44-0 NO2 (Nitrogen Dioxide)	10.2300000				0	0	0.26881985
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	1.4200000				0	0	0.03731419
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	1.4200000				0	0	0.03731419
PM-FIL PT (Particulate Matter)	1.4200000				0	0	0.03731419
7446-09-5 SO2 (Sulfur Dioxide)	0.2100000				0	0	0.00551830
VOC VOC (Volatile Organic Compounds)	0.5600000				0	0	0.01471546

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000021 **Equipment Description:** Four (4) Diesel Generators (EU63-66)
63-66 Roselle Hall (63)
Baldwin Hall (64)
Joe Craft Center (65)
Parking Structure #7 (66)
Capacity: 166-390 HP
Fuel: Diesel

Operating Schedule

Operating Schedule			% Annual Throughput			
Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
24	7	52	22	36	26	16

<u>Stack Information:</u>	<u>Stack Height (ft)</u>	<u>Stack Diameter (ft)</u>	<u>Height of Release (ft)</u>	<u>Stack Flow Rate (acfm)</u>	<u>Stack Velocity (ft/sec)</u>	<u>Exit Temperature (F)</u>
	10.00	0.50		2172.00	184.36	994.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 63-66

Process ID: 1 **Process Description:** (4) Diesel Generators <600 Hp **SCC Code and Description:** 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** 1000 Gallons Distillate Oil (Diesel) Burned **Applicable Regulation**

Boiler Number and Capacity (mmBTU/hr):

<u>Construction Date:</u>	<u>Fugitive Emissions</u>	<u>Count Emission For PTE</u>	<u>Confidential Information</u>	<u>Sulfur Content % Sulfur</u>	<u>Use % Sulfur in emission calc</u>	<u>Ash Content % Ash</u>	<u>Use % Ash in emission calc</u>
10/01/2005	N	Y	N	0.05	N	1.00	N

Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>
0.062000	0.090000	500.00	31.00	1000 Gal/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual</u>	<u>PTE</u>	<u>Actual</u>	<u>Unctrl Act Emissions</u>	<u>PTE Emissions</u>
			<u>Ctrl.</u>	<u>Ctrl. Eff.</u>	<u>Emissions</u>	<u>(tons/yr)</u>	<u>(tons/yr)</u>
124-38-9 Carbon Dioxide	22473.0000000				1.01128500	1.01128500	348.33150000
630-08-0 CO (Carbon Monoxide)	130.1785000				0.00585803	0.00585803	2.01776675
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000037	0.00000037	0.00012865
10102-44-0 NO2 (Nitrogen Dioxide)	604.3023000				0.02719360	0.02719360	9.36668565
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	42.4793000				0.00191157	0.00191157	0.65842915
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	42.4793000				0.00191157	0.00191157	0.65842915
PM-FIL PT (Particulate Matter)	42.4793000				0.00191157	0.00191157	0.65842915
7446-09-5 SO2 (Sulfur Dioxide)	39.7387000				0.00178824	0.00178824	0.61594985
VOC VOC (Volatile Organic Compounds)	49.3308000				0.00221989	0.00221989	0.76462740

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000022	Equipment Description: Emergency Diesel Generator (EU75) Davis Marksby Bldg. Capacity: 229 HP Fuel: Diesel	Operating Schedule			% Annual Throughput			
75		Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
		24	7	52	15	37	10	38

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	16.00	0.42		1508.00	181.41	890.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 75

Process ID: 1	Process Description: Davis Marksby Die.Gen.<600Hp	SCC Code and Description: 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)
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Number of Boilers:	SCC Units:	Applicable Regulation
Boiler Number and Capacity (mmBTU/hr):	1000 Gallons Distillate Oil (Diesel) Burned	40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ

Construction Date: 01/01/2010	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information N	Sulfur Content % Sulfur 0	Use % Sulfur in emission calc N	Ash Content % Ash 0	Use % Ash in emission calc N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr) 0.012000	Annual Throughput (SCC Units/yr) 0.020000	Maximum Operating Limitation (hrs/yr) 500.00	Maximum Operating Limitation 6.00	Maximum Operating Description 1000 Gal/Yr
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Pollutant ID and Description		Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
75-07-0	Acetaldehyde	0.1051020				0.00000105	0.00000105	0.00031531
71-43-2	Benzene	0.1278490				0.00000128	0.00000128	0.00038355
124-38-9	Carbon Dioxide	22473.0000000				0.22473000	0.22473000	67.41900000
630-08-0	CO (Carbon Monoxide)	130.1785000				0.00130179	0.00130179	0.39053550
50-00-0	Formaldehyde	0.1616954				0.00000162	0.00000162	0.00048509
7439-92-1	Lead, Total (as Pb)	0.0083000				0.00000008	0.00000008	0.00002490
74-82-8	Methane	0.9040000				0.00000904	0.00000904	0.00271200
10024-97-2	Nitrous Oxide	0.1780000				0.00000178	0.00000178	0.00053400
10102-44-0	NO2 (Nitrogen Dioxide)	604.3023000				0.00604302	0.00604302	1.81290690
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	42.4793000				0.00042479	0.00042479	0.12743790
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	42.4793000				0.00042479	0.00042479	0.12743790
PM-FIL	PT (Particulate Matter)	42.4793000				0.00042479	0.00042479	0.12743790
7446-09-5	SO2 (Sulfur Dioxide)	39.7387000				0.00039739	0.00039739	0.11921610
108-88-3	Toluene	0.0560453				0.00000056	0.00000056	0.00016814
VOC	VOC (Volatile Organic Compounds)	49.3308000				0.00049331	0.00049331	0.14799240
1330-20-7	Xylenes (Total)	0.0390536				0.00000039	0.00000039	0.00011716

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000023	Equipment Description: Emergency Diesel Generator (EU76) Parking Structure #2 Capacity: 611 HP Fuel: Diesel	Operating Schedule			% Annual Throughput			
76		Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
		24	7	52	11	35	15	39

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	39.00	0.67		2790.00	131.89	975.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 76

Process ID: 1	Process Description: Parking #2 Diesel Gen. >600HP	SCC Code and Description: 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)
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Number of Boilers:	SCC Units: 1000 Gallons Distillate Oil (Diesel) Burned	Applicable Regulation: 40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ
Boiler Number and Capacity (mmBTU/hr):		

Construction Date: 01/01/2011	Fugitive Emissions: N	Count Emission For PTE: Y	Confidential Information: N	Sulfur Content % Sulfur: 0.05	Use % Sulfur in emission calc: N	Ash Content % Ash: 1.00	Use % Ash in emission calc: N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr) 0.031000	Annual Throughput (SCC Units/yr) 0.150000	Maximum Operating Limitation (hrs/yr) 500.00	Maximum Operating Limitation 15.50	Maximum Operating Description 1000 Gal/Yr
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Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
71-43-2 Benzene	0.1063350				0.00000798	0.00000798	0.00082410
124-38-9 Carbon Dioxide	22609.9500000				1.69574625	1.69574625	175.22711250
630-08-0 CO (Carbon Monoxide)	116.4755000				0.00873566	0.00873566	0.90268513
50-00-0 Formaldehyde	0.0108117				0.00000081	0.00000081	0.00008379
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000062	0.00000062	0.00006433
10102-44-0 NO2 (Nitrogen Dioxide)	438.4960000				0.03288720	0.03288720	3.39834400
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.8518190				0.00058889	0.00058889	0.06085160
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6188680				0.00057142	0.00057142	0.05904623
PM-FIL PT (Particulate Matter)	9.5509910				0.00071632	0.00071632	0.07402018
7446-09-5 SO2 (Sulfur Dioxide)	0.2082856				0.00001562	0.00001562	0.00161421
108-88-3 Toluene	0.0380000				0.00000285	0.00000285	0.00029450
VOC VOC (Volatile Organic Compounds)	11.2227570				0.00084171	0.00084171	0.08697637
1330-20-7 Xylenes (Total)	0.0274100				0.00000206	0.00000206	0.00021243

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003	AI ID: 1104	YEAR OF INVENTORY: 2020	Fayette County					
Equipment ID (SI): COMB0000000024	Equipment Description: Emergency Diesel Generator (EU77) Wildcat Coal Lodge Capacity: 157 HP Fuel: Diesel	Operating Schedule			% Annual Throughput			
77		Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
		24	7	52	17	55	23	5

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	(ft)	Diameter (ft)	(ft)	Rate (acfm)	(ft/sec)	Temperature (F)
	39.00	0.67		2790.00	131.89	975.00

Equipment ID (SI) Detail Information:	Equipment ID (SI): 77
Process ID: 1	Process Description: WC Lodge Diesel Gen. <600HP
	SCC Code and Description: 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers:	SCC Units: 1000 Gallons Distillate Oil (Diesel) Burned	Applicable Regulation
Boiler Number and Capacity (mmBTU/hr):		40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ

Construction Date: 01/01/2010	Fugitive Emissions: N	Count Emission For PTE: Y	Confidential Information: N	Sulfur Content % Sulfur:	Use % Sulfur in emission calc: N	Ash Content % Ash:	Use % Ash in emission calc: N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
0.008000	0.010000	500.00	4.00	1000 Gal/Yr					
Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)		
71-43-2 Benzene	0.1278490				0.00000064	0.00000064	0.00025570		
124-38-9 Carbon Dioxide	22473.00000000				0.11236500	0.11236500	44.94600000		
630-08-0 CO (Carbon Monoxide)	130.1785000				0.00065089	0.00065089	0.26035700		
50-00-0 Formaldehyde	0.1616954				0.00000081	0.00000081	0.00032339		
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000004	0.00000004	0.00001660		
10102-44-0 NO2 (Nitrogen Dioxide)	604.3023000				0.00302151	0.00302151	1.20860460		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	42.4793000				0.00021240	0.00021240	0.08495860		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	42.4793000				0.00021240	0.00021240	0.08495860		
PM-FIL PT (Particulate Matter)	42.4793000				0.00021240	0.00021240	0.08495860		
7446-09-5 SO2 (Sulfur Dioxide)	39.7387000				0.00019869	0.00019869	0.07947740		
108-88-3 Toluene	0.0560453				0.00000028	0.00000028	0.00011209		
VOC VOC (Volatile Organic Compounds)	49.3308000				0.00024665	0.00024665	0.09866160		
1330-20-7 Xylenes (Total)	0.0390536				0.00000020	0.00000020	0.00007811		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000026 **Equipment Description:** Eleven Emergency Generators (EU78)
 78 M I King (78-1), Blanding IV (78-2), Terrell (not
 operative) (78-3), Memorial Hall (78-4),
 Multi-Disciplinary Research #3 (78-5), Garrigus
 Bldg. (78-6), T. H. Morgan Biological (78-7),
 Oswald (78-8), IRIS (78-9), Building 200
 (78-11), Research Building #1 (78-12)
 Capacity (NG): 8-100 kW
 Fuel: NG

Operating Schedule

Hours/Day	Days/Week	Weeks/Year	% Annual Throughput			
			Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
10	5	10	17	20	46	17

<u>Stack Information:</u>	<u>Stack Height</u> (ft)	<u>Stack</u> <u>Diameter (ft)</u>	<u>Height of Release</u> (ft)	<u>Stack Flow</u> <u>Rate (acfm)</u>	<u>Stack Velocity</u> (ft/sec)	<u>Exit</u> <u>Temperature (F)</u>
	12.00	2.00		4000.00	21.22	400.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 78

<u>Process ID:</u>	<u>Process Description:</u>	<u>SCC Code and Description:</u>
1	(11) NG Generators	20300201 Internal Combustion Engines, Commercial/Institutional (2-03), Natural Gas (2-03-002), Reciprocating (2-03-002-01)

Number of Boilers: **SCC Units:** **Applicable Regulation**

Boiler Number and Capacity (mmBTU/hr): Million Cubic Feet Natural Gas Burned

<u>Construction Date:</u>	<u>Fugitive Emissions</u>	<u>Count Emission For PTE</u>	<u>Confidential Information</u>	<u>Sulfur Content % Sulfur</u>	<u>Use % Sulfur in emission calc</u>	<u>Ash Content % Ash</u>	<u>Use % Ash in emission calc</u>
01/01/1961	N	Y	N		N		N

Operating Information:

<u>Maximum Hourly Operating Rate</u> (SCC Units/hr)	<u>Annual Throughput</u> (SCC Units/yr)	<u>Maximum Operating Limitation</u> (hrs/yr)	<u>Maximum Operating Limitation</u> 0.75	<u>Maximum Operating Description</u> MMscf/Yr
0.001490	0.030000	500.00		

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
124-38-9 Carbon Dioxide	112200.0000000		1.68300000		1.68300000	1.68300000	41.79450000
630-08-0 CO (Carbon Monoxide)	323.3400000		0.00485010		0.00485010	0.00485010	0.12044415
50-00-0 Formaldehyde	53.8560000		0.00080784		0.00080784	0.00080784	0.02006136
110-54-3 Hexane; N-Hexane	1.1320000		0.00001698		0.00001698	0.00001698	0.00042167
7439-92-1 Lead, Total (as Pb)	0.5000000		0.00000750		0.00000750	0.00000750	0.00018625
74-82-8 Methane	1275.0000000		0.01912500		0.01912500	0.01912500	0.47493750
10102-44-0 NO2 (Nitrogen Dioxide)	4161.6000000		0.06242400		0.06242400	0.06242400	1.55019600
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	10.1868420		0.00015280		0.00015280	0.00015280	0.00379460
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	10.1868420		0.00015280		0.00015280	0.00015280	0.00379460
PM-FIL PT (Particulate Matter)	10.1868420		0.00015280		0.00015280	0.00015280	0.00379460
7446-09-5 SO2 (Sulfur Dioxide)	0.5997600		0.00000900		0.00000900	0.00000900	0.00022341
VOC VOC (Volatile Organic Compounds)	120.3600000		0.00180540		0.00180540	0.00180540	0.04483410

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000027 **Equipment Description:** Emergency Fire Pump Engine (EU79)
Softball Complex
Capacity: 64 HP
Fuel: Diesel
** The usage rate of fuel oil in all affected facilities shall not exceed limits set forth in Permit V-13-24.

Operating Schedule

	Operating Schedule			% Annual Throughput			
	Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
79	24	7	52	24	24	27	25

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	16.00	1.00		15206.00	322.68	840.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 79

Process ID:	Process Description:	SCC Code and Description:
1	Diesel Usage	20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** 1000 Gallons Distillate Oil (Diesel) Burned **Applicable Regulation:** 40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ

Boiler Number and Capacity (mmBTU/hr):

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/2013	N	Y	N		N		N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.003200	0.210000	500.00	1.60	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions (tons/vr)	Unctrl Act Emissions (tons/vr)	PTE Emissions (tons/vr)
71-43-2 Benzene	0.1278899		0.00001343		0.00001343	0.00010231	0.00010231
124-38-9 Carbon Dioxide	22473.0000000		2.35966500		2.35966500	17.97840000	17.97840000
630-08-0 CO (Carbon Monoxide)	130.1785000		0.01366874		0.01366874	0.10414280	0.10414280
50-00-0 Formaldehyde	0.1616954		0.00001698		0.00001698	0.00012936	0.00012936
7439-92-1 Lead, Total (as Pb)	0.0083000		0.00000087		0.00000087	0.00000664	0.00000664
74-82-8 Methane	0.8628971		0.00009060		0.00009060	0.00069032	0.00069032
10024-97-2 Nitrous Oxide	0.1725794		0.00001812		0.00001812	0.00013806	0.00013806
10102-44-0 NO2 (Nitrogen Dioxide)	604.3023000		0.06345174		0.06345174	0.48344184	0.48344184
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	42.4793000		0.00446033		0.00446033	0.03398344	0.03398344
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	42.4793000		0.00446033		0.00446033	0.03398344	0.03398344
PM-FIL PT (Particulate Matter)	42.4793000		0.00446033		0.00446033	0.03398344	0.03398344
7446-09-5 SO2 (Sulfur Dioxide)	39.7387000		0.00417256		0.00417256	0.03179096	0.03179096
108-88-3 Toluene	0.0560453		0.00000588		0.00000588	0.00004484	0.00004484
VOC VOC (Volatile Organic Compounds)	49.3308000		0.00517973		0.00517973	0.03946464	0.03946464
1330-20-7 Xylenes (Total)	0.0390536		0.00000410		0.00000410	0.00003124	0.00003124

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000028 EU01	Equipment Description: Indirect Heat Exchanger (EU01) Central Heating Boiler #1 Capacity: 127 MMBtu/hr Primary Fuel: NG Secondary Fuel: #2 Fuel Oil	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24	7	52	38	14	14	34

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	<u>(ft)</u>	<u>Diameter (ft)</u>	<u>(ft)</u>	<u>Rate (acfm)</u>	<u>(ft/sec)</u>	<u>Temperature (F)</u>
	49.00	5.60		30017.00	20.31	300.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** EU01

Process ID:	Process Description:	SCC Code and Description:	Applicable Regulation
1	Central Boiler #1 - NG	10300601 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), > 100 Million Btu/hr (1-03-006-01)	401 KAR 59:015; 40 CFR 60, Subpart Db
Number of Boilers:	1	SCC Units:	
Boiler Number and Capacity (mmBTU/hr):		Million Cubic Feet Natural Gas Burned	
ID#1: 127			

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/2017	N	Y	N		N		N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.124510	227.600000	8712.00	1084.73	MMscf/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
124-38-9 Carbon Dioxide	120000.0000000				13656.00000000	13656.00000000	65083.8672000
630-08-0 CO (Carbon Monoxide)	40.0000000				4.55200000	4.55200000	21.69462240
110-54-3 Hexane; N-Hexane	1.8000000				0.20484000	0.20484000	0.97625801
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00005690	0.00005690	0.00027118
74-82-8 Methane	2.3000000				0.26174000	0.26174000	1.24744079
10024-97-2 Nitrous Oxide	2.2000000				0.25036000	0.25036000	1.19320423
10102-44-0 NO2 (Nitrogen Dioxide)	35.9000000				4.08542000	4.08542000	19.47092360
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	5.0000000				0.56900000	0.56900000	2.71182780
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	5.0000000				0.56900000	0.56900000	2.71182780
PM-FIL PT (Particulate Matter)	5.0000000				0.56900000	0.56900000	2.71182780
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.06828000	0.06828000	0.32541934
VOC VOC (Volatile Organic Compounds)	4.0000000				0.45520000	0.45520000	2.16946224

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: 2 **Process Description:** Central Boiler #1 - Fuel Oil

Number of Boilers: 1

Boiler Number and Capacity (mmBTU/hr):
ID#1: 127

Equipment ID (SI): EU01

SCC Code and Description:
10300501 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), Grades 1 and 2 Oil (1-03-005-01)

SCC Units:
1000 Gallons Distillate Oil (No. 1 & 2) Burned

Applicable Regulation:
401 KAR 59:015; 40 CFR 60, Subpart Db

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/2017	N	N	N		N		N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.927000	9.200000	48.00	44.50	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
71-43-2 Benzene	0.0002140				0.00000098	0.00000098	0.00000476
124-38-9 Carbon Dioxide	22300.0000000				102.58000000	102.58000000	496.13040000
630-08-0 CO (Carbon Monoxide)	12.8000000				0.05888000	0.05888000	0.28477440
7439-92-1 Lead, Total (as Pb)	0.0012300				0.00000566	0.00000566	0.00002737
74-82-8 Methane	0.2160000				0.00099360	0.00099360	0.00480557
10024-97-2 Nitrous Oxide	0.2600000				0.00119600	0.00119600	0.00578448
10102-44-0 NO2 (Nitrogen Dioxide)	17.7000000				0.08142000	0.08142000	0.39378960
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	4.2000000				0.01932000	0.01932000	0.09344160
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	4.2000000				0.01932000	0.01932000	0.09344160
PM-FIL PT (Particulate Matter)	4.2000000				0.01932000	0.01932000	0.09344160
7446-09-5 SO2 (Sulfur Dioxide)	0.0800000				0.00036800	0.00036800	0.00177984
VOC VOC (Volatile Organic Compounds)	0.7000000				0.00322000	0.00322000	0.01557360

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000029 EU02	Equipment Description: Indirect Heat Exchanger (EU02) Central Heating Boiler #2 Capacity: 127 MMBtu/hr Primary Fuel: NG Secondary Fuel: #2 Fuel Oil	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24	7	52	56	34	0	10

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	<u>(ft)</u>	<u>Diameter (ft)</u>	<u>(ft)</u>	<u>Rate (acfm)</u>	<u>(ft/sec)</u>	<u>Temperature (F)</u>
	49.00	5.60		30017.00	20.31	300.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** EU02

Process ID:	Process Description:	SCC Code and Description:	Applicable Regulation
1	Central Boiler #2 - NG	10300601 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), > 100 Million Btu/hr (1-03-006-01)	401 KAR 59:015; 40 CFR 60, Subpart Db
Number of Boilers:	1	SCC Units:	
Boiler Number and Capacity (mmBTU/hr):		Million Cubic Feet Natural Gas Burned	
ID#1: 127			

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/2017	N	Y	N		N		N

Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/vr)</u>	<u>Maximum Operating Limitation (hrs/vr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>
0.124510	146.200000	8712.00	1084.73	MMscf/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
124-38-9 Carbon Dioxide	120000.0000000				8772.00000000	8772.00000000	65083.8672000
630-08-0 CO (Carbon Monoxide)	40.0000000				2.92400000	2.92400000	21.69462240
110-54-3 Hexane; N-Hexane	1.8000000				0.13158000	0.13158000	0.97625801
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00003655	0.00003655	0.00027118
74-82-8 Methane	2.3000000				0.16813000	0.16813000	1.24744079
10024-97-2 Nitrous Oxide	2.2000000				0.16082000	0.16082000	1.19320423
10102-44-0 NO2 (Nitrogen Dioxide)	35.9000000				2.62429000	2.62429000	19.47092360
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	5.0000000				0.36550000	0.36550000	2.71182780
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	5.0000000				0.36550000	0.36550000	2.71182780
PM-FIL PT (Particulate Matter)	5.0000000				0.36550000	0.36550000	2.71182780
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.04386000	0.04386000	0.32541934
VOC VOC (Volatile Organic Compounds)	4.0000000				0.29240000	0.29240000	2.16946224

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: 2 **Process Description:** Central Boiler #2 - Fuel Oil

Number of Boilers: 1

Boiler Number and Capacity (mmBTU/hr):
ID#1: 127

Equipment ID (SI): EU02

SCC Code and Description:
10300501 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), Grades 1 and 2 Oil (1-03-005-01)

SCC Units:
1000 Gallons Distillate Oil (No. 1 & 2) Burned

Applicable Regulation
401 KAR 59:015; 40 CFR 60, Subpart Db

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
01/01/2017	N	N	N		N		N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.927007	0	48.00	44.49	1000 Gal/Yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
71-43-2 Benzene	0.0002140				0	0	0.00000476
124-38-9 Carbon Dioxide	22300.0000000				0	0	496.13414640
630-08-0 CO (Carbon Monoxide)	12.8000000				0	0	0.28477655
7439-92-1 Lead, Total (as Pb)	0.0012300				0	0	0.00002737
74-82-8 Methane	0.2160000				0	0	0.00480560
10024-97-2 Nitrous Oxide	0.2600000				0	0	0.00578452
10102-44-0 NO2 (Nitrogen Dioxide)	17.7000000				0	0	0.39379257
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	4.2000000				0	0	0.09344231
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	4.2000000				0	0	0.09344231
PM-FIL PT (Particulate Matter)	4.2000000				0	0	0.09344231
7446-09-5 SO2 (Sulfur Dioxide)	0.0800000				0	0	0.00177985
VOC VOC (Volatile Organic Compounds)	0.7000000				0	0	0.01557372

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000031 68	Equipment Description: Diesel Generator (EU68) Central Utility Plant Capacity: 3634 HP Fuel: Diesel	Operating Schedule <u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u> 2 5 50	% Annual Throughput <u>Dec-Feb</u> <u>Mar-May</u> <u>Jun-Aug</u> <u>Sep-Nov</u> 81 3 9 7
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Stack Information:	Stack Height <u>(ft)</u>	Stack Diameter <u>(ft)</u>	Height of Release <u>(ft)</u>	Stack Flow Rate <u>(acfm)</u>	Stack Velocity <u>(ft/sec)</u>	Exit Temperature <u>(F)</u>
	9.90	0.67		19049.00	900.50	922.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 68

Process ID: 1	Process Description: EU 68 - Diesel Usage	SCC Code and Description: 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)
Number of Boilers:	SCC Units: 1000 Gallons Distillate Oil (Diesel) Burned	Applicable Regulation 40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ
Boiler Number and Capacity (mmBTU/hr):		

Construction Date: 06/01/2017	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information N	Sulfur Content % Sulfur 0.05	Use % Sulfur in emission calc N	Ash Content % Ash 1.00	Use % Ash in emission calc N
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Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
0.173500	0.550000	500.00	86.75	1000 Gal/Yr					
<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>		
71-43-2 Benzene	0.1063353				0.00002924	0.00002924	0.00461229		
124-38-9 Carbon Dioxide	22609.9500000				6.21773625	6.21773625	980.70658125		
630-08-0 CO (Carbon Monoxide)	35.0900000				0.00964975	0.00964975	1.52202875		
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000228	0.00000228	0.00036001		
74-82-8 Methane	0.9697000				0.00026667	0.00026667	0.04206074		
10024-97-2 Nitrous Oxide	0.1939000				0.00005332	0.00005332	0.00841041		
10102-44-0 NO2 (Nitrogen Dioxide)	294.6000000				0.08101500	0.08101500	12.77827500		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	2.3100000				0.00063525	0.00063525	0.10019625		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	2.3100000				0.00063525	0.00063525	0.10019625		
PM-FIL PT (Particulate Matter)	2.3100000				0.00063525	0.00063525	0.10019625		
7446-09-5 SO2 (Sulfur Dioxide)	0.2082856				0.00005728	0.00005728	0.00903439		
108-88-3 Toluene	0.0380000				0.00001045	0.00001045	0.00164825		
VOC VOC (Volatile Organic Compounds)	11.2227570				0.00308626	0.00308626	0.48678708		
1330-20-7 Xylenes (Total)	0.0274060				0.00000754	0.00000754	0.00118874		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000032 EU82	Equipment Description: Samaritan Hospital Boiler #3 (EU 82) Capacity: 20.9 MMBtu/hr Primary Fuel: NG Secondary Fuel: #2 Fuel Oil	Operating Schedule <u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u> 24 7 52	% Annual Throughput <u>Dec-Feb</u> <u>Mar-May</u> <u>Jun-Aug</u> <u>Sep-Nov</u> 26 26 15 33
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Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	69.00	2.60		8016.00	25.16	399.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** EU82

Process ID: 1	Process Description: Natural Gas	SCC Code and Description: 10300602 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), 10-100 Million Btu/hr (1-03-006-02)
Number of Boilers:	SCC Units:	Applicable Regulation
Boiler Number and Capacity (mmBTU/hr):	Million Cubic Feet Natural Gas Burned	401 KAR 61:015

Construction Date: 01/01/1969	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information N	Sulfur Content % Sulfur	Use % Sulfur in emission calc N	Ash Content % Ash	Use % Ash in emission calc N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
0.020500	15.400000	8712.00	178.60	MMscf/yr					
Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)		
124-38-9 Carbon Dioxide	120000.0000000				924.00000000	924.00000000	10715.76000000		
630-08-0 CO (Carbon Monoxide)	84.0000000				0.64680000	0.64680000	7.50103200		
110-54-3 Hexane; N-Hexane	1.8000000				0.01386000	0.01386000	0.16073640		
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00000385	0.00000385	0.00004465		
74-82-8 Methane	2.3000000				0.01771000	0.01771000	0.20538540		
10024-97-2 Nitrous Oxide	2.2000000				0.01694000	0.01694000	0.19645560		
10102-44-0 NO2 (Nitrogen Dioxide)	100.0000000				0.77000000	0.77000000	8.92980000		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.05852000	0.05852000	0.67866480		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6000000				0.05852000	0.05852000	0.67866480		
PM-FIL PT (Particulate Matter)	7.6000000				0.05852000	0.05852000	0.67866480		
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.00462000	0.00462000	0.05357880		
VOC VOC (Volatile Organic Compounds)	5.5000000				0.04235000	0.04235000	0.49113900		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: **Process Description:**

2 #2 Fuel Oil

Equipment ID (SI): EU82

SCC Code and Description:

10300502 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), 10-100 Million Btu/hr ** (1-03-005-02)

Number of Boilers:

Boiler Number and Capacity (mmBTU/hr):

SCC Units:

1000 Gallons Distillate Oil Burned

Applicable Regulation

401 KAR 61:015

Construction Date:
01/01/1969

Fugitive Emissions
N

Count Emission For PTE
N

Confidential Information
N

Sulfur Content % Sulfur
N

Use % Sulfur in emission calc
N

Ash Content % Ash
N

Use % Ash in emission calc
N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)
0.152600

Annual Throughput (SCC Units/yr)
0.390000

Maximum Operating Limitation (hrs/yr)
48.00

Maximum Operating Limitation
7.32

Maximum Operating Description
1000 gallon/yr

Pollutant ID and Description		Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
124-38-9	Carbon Dioxide	22300.0000000				4.34850000	4.34850000	81.67152000
630-08-0	CO (Carbon Monoxide)	5.0000000				0.00097500	0.00097500	0.01831200
7439-92-1	Lead, Total (as Pb)	0.0012300				0.00000024	0.00000024	0.00000450
74-82-8	Methane	0.2160000				0.00004212	0.00004212	0.00079108
10024-97-2	Nitrous Oxide	0.2600000				0.00005070	0.00005070	0.00095222
10102-44-0	NO2 (Nitrogen Dioxide)	20.0000000				0.00390000	0.00390000	0.07324800
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	3.3000000				0.00064350	0.00064350	0.01208592
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	3.3000000				0.00064350	0.00064350	0.01208592
PM-FIL	PT (Particulate Matter)	3.3000000				0.00064350	0.00064350	0.01208592
7446-09-5	SO2 (Sulfur Dioxide)	0.2100000				0.00004095	0.00004095	0.00076910
VOC	VOC (Volatile Organic Compounds)	0.5600000				0.00010920	0.00010920	0.00205094

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000033 EU83	Equipment Description: Samaritan Hospital Boiler #1 Capacity: 12.0 MMBtu/hr Primary Fuel: Nat Gas Secondary Fuel: #2 Fuel Oil	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24	7	52	25	27	24	24

Stack Information:	Stack Height	Stack Diameter	Height of Release	Stack Flow Rate	Stack Velocity	Exit Temperature
	<u>(ft)</u>	<u>(ft)</u>	<u>(ft)</u>	<u>(acfm)</u>	<u>(ft/sec)</u>	<u>(F)</u>
	69.00	2.60		8016.00	25.16	399.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** EU83

Process ID:	Process Description:	SCC Code and Description:
1	Natural Gas	10300602 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), 10-100 Million Btu/hr (1-03-006-02)
Number of Boilers:		SCC Units:
		Million Cubic Feet Natural Gas Burned
Boiler Number and Capacity (mmBTU/hr):		Applicable Regulation
		401 KAR 59:015, 40 CFR 60 Subpart Dc

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
10/01/2006	N	Y	N		N		N

Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
0.011800	19.200000	8712.00	102.80	MMscf/yr					
Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)		
124-38-9 Carbon Dioxide	120000.0000000				1152.00000000	1152.00000000	6168.09600000		
630-08-0 CO (Carbon Monoxide)	84.0000000				0.80640000	0.80640000	4.31766720		
110-54-3 Hexane; N-Hexane	1.8000000				0.01728000	0.01728000	0.09252144		
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00000480	0.00000480	0.00002570		
74-82-8 Methane	2.3000000				0.02208000	0.02208000	0.11822184		
10024-97-2 Nitrous Oxide	2.2000000				0.02112000	0.02112000	0.11308176		
10102-44-0 NO2 (Nitrogen Dioxide)	100.0000000				0.96000000	0.96000000	5.14008000		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.07296000	0.07296000	0.39064608		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6000000				0.07296000	0.07296000	0.39064608		
PM-FIL PT (Particulate Matter)	7.6000000				0.07296000	0.07296000	0.39064608		
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.00576000	0.00576000	0.03084048		
VOC VOC (Volatile Organic Compounds)	5.5000000				0.05280000	0.05280000	0.28270440		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: **Process Description:**

2 #2 Fuel Oil

Equipment ID (SI): EU83

SCC Code and Description:

10300502 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), 10-100 Million Btu/hr ** (1-03-005-02)

Number of Boilers:

Boiler Number and Capacity (mmBTU/hr):

SCC Units:

1000 Gallons Distillate Oil Burned

Applicable Regulation

401 KAR 59:015, 40 CFR 60 Subpart Dc

Construction Date:
10/01/2006

Fugitive Emissions
N

Count Emission For PTE
N

Confidential Information
N

Sulfur Content % Sulfur
N

Use % Sulfur in emission calc
N

Ash Content % Ash
N

Use % Ash in emission calc
N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)
0.087600

Annual Throughput (SCC Units/yr)
0.530000

Maximum Operating Limitation (hrs/yr)
48.00

Maximum Operating Limitation
4.20

Maximum Operating Description
1000 Gallons/yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual	PTE	Actual	Unctrl Act Emissions	PTE Emissions
			Ctrl.	Ctrl. Eff.	Emissions	(tons/yr)	(tons/yr)
124-38-9 Carbon Dioxide	22300.0000000				5.90950000	5.90950000	46.88352000
630-08-0 CO (Carbon Monoxide)	5.0000000				0.00132500	0.00132500	0.01051200
7439-92-1 Lead, Total (as Pb)	0.0012300				0.00000033	0.00000033	0.00000259
74-82-8 Methane	0.2160000				0.00005724	0.00005724	0.00045412
10024-97-2 Nitrous Oxide	0.2600000				0.00006890	0.00006890	0.00054662
10102-44-0 NO2 (Nitrogen Dioxide)	20.0000000				0.00530000	0.00530000	0.04204800
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	3.3000000				0.00087450	0.00087450	0.00693792
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	3.3000000				0.00087450	0.00087450	0.00693792
PM-FIL PT (Particulate Matter)	3.3000000				0.00087450	0.00087450	0.00693792
7446-09-5 SO2 (Sulfur Dioxide)	0.2100000				0.00005565	0.00005565	0.00044150
VOC VOC (Volatile Organic Compounds)	0.5600000				0.00014840	0.00014840	0.00117734

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000034 EU84	Equipment Description: Samaritan Hospital Boiler #2 Capacity: 12.0 MMBtu/hr Primary Fuel: Nat Gas Secondary Fuel: #2 Fuel Oil	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		24	7	52	27	23	24	26

Stack Information:	Stack Height	Stack Diameter	Height of Release	Stack Flow Rate	Stack Velocity	Exit Temperature
	<u>(ft)</u>	<u>(ft)</u>	<u>(ft)</u>	<u>(acfm)</u>	<u>(ft/sec)</u>	<u>(F)</u>
	69.00	2.60		8016.00	25.16	399.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** EU84

Process ID:	Process Description:	SCC Code and Description:
1	Natural Gas	10300602 External Combustion Boilers, Commercial/Institutional (1-03), Natural Gas (1-03-006), 10-100 Million Btu/hr (1-03-006-02)
Number of Boilers:		SCC Units:
Boiler Number and Capacity (mmBTU/hr):		Million Cubic Feet Natural Gas Burned
		Applicable Regulation
		401 KAR 59:015, 40 CFR 60 Subpart Dc

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
10/01/2006	N	Y	N		N		N

Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Emissions</u>	<u>(tons/yr)</u>	<u>(tons/yr)</u>
124-38-9 Carbon Dioxide	120000.0000000		8712.00	102.80	888.00000000	888.00000000	6168.09600000
630-08-0 CO (Carbon Monoxide)	84.0000000				0.62160000	0.62160000	4.31766720
110-54-3 Hexane; N-Hexane	1.8000000				0.01332000	0.01332000	0.09252144
7439-92-1 Lead, Total (as Pb)	0.0005000				0.00000370	0.00000370	0.00002570
74-82-8 Methane	2.3000000				0.01702000	0.01702000	0.11822184
10024-97-2 Nitrous Oxide	2.2000000				0.01628000	0.01628000	0.11308176
10102-44-0 NO2 (Nitrogen Dioxide)	100.0000000				0.74000000	0.74000000	5.14008000
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.6000000				0.05624000	0.05624000	0.39064608
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6000000				0.05624000	0.05624000	0.39064608
PM-FIL PT (Particulate Matter)	7.6000000				0.05624000	0.05624000	0.39064608
7446-09-5 SO2 (Sulfur Dioxide)	0.6000000				0.00444000	0.00444000	0.03084048
VOC VOC (Volatile Organic Compounds)	5.5000000				0.04070000	0.04070000	0.28270440

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: **Process Description:**

2 #2 Fuel Oil

Equipment ID (SI): EU84

SCC Code and Description:

10300502 External Combustion Boilers, Commercial/Institutional (1-03), Distillate Oil (1-03-005), 10-100 Million Btu/hr ** (1-03-005-02)

Number of Boilers:

Boiler Number and Capacity (mmBTU/hr):

SCC Units:
1000 Gallons Distillate Oil Burned

Applicable Regulation

401 KAR 59:015, 40 CFR 60 Subpart Dc

Construction Date:
10/01/2006

Fugitive Emissions
N

Count Emission For PTE
N

Confidential Information
N

Sulfur Content % Sulfur
N

Use % Sulfur in emission calc
N

Ash Content % Ash
N

Use % Ash in emission calc
N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)

0.087600

Annual Throughput (SCC Units/yr)

0.420000

Maximum Operating Limitation (hrs/yr)

48.00

Maximum Operating Limitation

4.20

Maximum Operating Description
1000 gallons/yr

Pollutant ID and Description

Emission Factor

Control Equipment Description

Actual Ctrl. PTE Ctrl. Eff.

Actual Emissions

Unctrl Act Emissions (tons/yr)

PTE Emissions (tons/yr)

124-38-9	Carbon Dioxide	22300.0000000				4.68300000	4.68300000	46.88352000
630-08-0	CO (Carbon Monoxide)	5.0000000				0.00105000	0.00105000	0.01051200
7439-92-1	Lead, Total (as Pb)	0.0012300				0.00000026	0.00000026	0.00000259
74-82-8	Methane	0.2160000				0.00004536	0.00004536	0.00045412
10024-97-2	Nitrous Oxide	0.2600000				0.00005460	0.00005460	0.00054662
10102-44-0	NO2 (Nitrogen Dioxide)	20.0000000				0.00420000	0.00420000	0.04204800
PM10-FIL	PM10 (Particulate Matter - 10 Microns Or Less)	3.3000000				0.00069300	0.00069300	0.00693792
PM25-FIL	PM2.5 (Particulate Matter - 2.5 Microns Or Less)	3.3000000				0.00069300	0.00069300	0.00693792
PM-FIL	PT (Particulate Matter)	3.3000000				0.00069300	0.00069300	0.00693792
7446-09-5	SO2 (Sulfur Dioxide)	0.2100000				0.00004410	0.00004410	0.00044150
VOC	VOC (Volatile Organic Compounds)	0.5600000				0.00011760	0.00011760	0.00117734

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): COMB0000000035	Equipment Description: Indirect Heat Exchanger (EU13-2) Central Boilers #4 Capacity: 93.75 mmBtu/hr Fuel: Coal	Operating Schedule <u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u> 24 7 52	% Annual Throughput <u>Dec-Feb</u> <u>Mar-May</u> <u>Jun-Aug</u> <u>Sep-Nov</u> 0 0 0 0
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Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	69.00	6.00		122000.00	71.91	350.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 13-2

Process ID: 1	Process Description: Coal	SCC Code and Description: 10300207 External Combustion Boilers, Commercial/Institutional (1-03), Bituminous/Subbituminous Coal (1-03-002), Overfeed Stoker (Bituminous Coal) (1-03-002-07)	SCC Units: Tons Bituminous Coal Burned	Applicable Regulation 401 KAR 59:015, 40 CFR 63 JJJJJJ
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Construction Date: 03/01/1977	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information N	Sulfur Content % Sulfur N	Use % Sulfur in emission calc N	Ash Content % Ash N	Use % Ash in emission calc N
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Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
3.605800	0	8760.00	31586.81	tons/yr					
<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>		
124-38-9 Carbon Dioxide	6250.00000000				0	0	98708.77500000		
630-08-0 CO (Carbon Monoxide)	6.00000000				0	0	94.76042400		
110-54-3 Hexane; N-Hexane	0.0000670				0	0	0.00105816		
7647-01-0 Hydrochloric Acid	0.8579927				0	0	13.55062502		
7664-39-3 Hydrofluoric Acid	0.1500000				0	0	2.36901060		
7439-92-1 Lead, Total (as Pb)	0.0008550		0		0	0	0.01350336		
7439-97-6 Mercury, Total (as Hg)	0.0000304				0	0	0.00048012		
74-82-8 Methane	0.0600000				0	0	0.94760424		
10024-97-2 Nitrous Oxide	0.0400000				0	0	0.63173616		
10102-44-0 NO2 (Nitrogen Dioxide)	7.5000000				0	0	118.45053000		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	5.0959565		0		0	0	80.48250009		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	5.0959565		0		0	0	80.48250009		
PM-FIL PT (Particulate Matter)	5.0959565		0		0	0	80.48250009		
7446-09-5 SO2 (Sulfur Dioxide)	30.4000000				0	0	480.11948160		
VOC VOC (Volatile Organic Compounds)	0.5000000				0	0	7.89670200		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000001 **Equipment Description:** Paint Spray Booths (EU49-50)
 49-50 Frank D. Peterson Bldg. (Maintenance Shop)
 Paint Spray Booths)
 Operating rate: 2.0 gal/hr, each

Operating Schedule

Hours/Day	Days/Week	Weeks/Year	% Annual Throughput			
			Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
6	5	50	38	4	4	54

<u>Stack Information:</u>	<u>Stack Height (ft)</u>	<u>Stack Diameter (ft)</u>	<u>Height of Release (ft)</u>	<u>Stack Flow Rate (acfm)</u>	<u>Stack Velocity (ft/sec)</u>	<u>Exit Temperature (F)</u>
	20.00	2.00		10241.00	54.33	73.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 49-50

<u>Process ID:</u>	<u>Process Description:</u>	<u>SCC Code and Description:</u>
1	Laq Fill	40200410 Petroleum and Solvent Evaporation, Surface Coating Operations (4-02), Surface Coating Application - General (4-02-004), Lacquer (4-02-004-10)

Number of Boilers: **SCC Units:** **Applicable Regulation**

Boiler Number and Capacity (mmBTU/hr): Gallons Coating Processed 401 KAR 59:010

<u>Construction Date:</u>	<u>Fugitive Emissions</u>	<u>Count Emission For PTE</u>	<u>Confidential Information</u>	<u>Sulfur Content % Sulfur</u>	<u>Use % Sulfur in emission calc</u>	<u>Ash Content % Ash</u>	<u>Use % Ash in emission calc</u>
01/01/1975	N	Y	F		N		N

Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>
4.000000	3.000000	300.00	1200.00	Gal/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual PTE</u>		<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
			<u>Ctrl.</u>	<u>Ctrl. Eff.</u>			
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	5.6000000	Fabric Filter/Baghouse	99.00	99.00	0.00008400	0.00840000	0.03360000
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	5.6000000	Fabric Filter/Baghouse	99.00	99.00	0.00008400	0.00840000	0.03360000
PM-FIL PT (Particulate Matter)	5.6000000	Fabric Filter/Baghouse	99.00	99.00	0.00008400	0.00840000	0.03360000
VOC VOC (Volatile Organic Compounds)	10.0000000				0.01500000	0.01500000	6.00000000

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000002	Equipment Description: Emergency Generators (EU70) Gatton Business & Economics (EU70-1) Commonwealth Stadium (EU70-2) Capacity: 755-762 HP Fuel: Diesel	Operating Schedule	% Annual Throughput			
70		<u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		10 5 10	18	40	15	27

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	<u>(ft)</u>	<u>Diameter (ft)</u>	<u>(ft)</u>	<u>Rate (acfm)</u>	<u>(ft/sec)</u>	<u>Temperature (F)</u>
	9.90	0.67		19049.00	900.50	922.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 70

Process ID: 1	Process Description: EU 70 - Diesel Usage	SCC Code and Description: 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)
Number of Boilers:	SCC Units:	Applicable Regulation
Boiler Number and Capacity (mmBTU/hr):	1000 Gallons Distillate Oil (Diesel) Burned	40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ

Construction Date: 03/01/2015	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information N	Sulfur Content % Sulfur N	Use % Sulfur in emission calc N	Ash Content % Ash N	Use % Ash in emission calc N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr) 0.077511	Annual Throughput (SCC Units/vr) 0.140000	Maximum Operating Limitation (hrs/vr) 500.00	Maximum Operating Limitation 38.76	Maximum Operating Description 1000 Gal/Yr
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<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
71-43-2 Benzene	0.1063353				0.00000744	0.00000744	0.00206054
124-38-9 Carbon Dioxide	22609.9500000				1.58269650	1.58269650	438.12995861
630-08-0 CO (Carbon Monoxide)	116.4755000				0.00815329	0.00815329	2.25703312
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000058	0.00000058	0.00016084
74-82-8 Methane	0.9060000				0.00006342	0.00006342	0.01755624
10024-97-2 Nitrous Oxide	0.1810000				0.00001267	0.00001267	0.00350737
10102-44-0 NO2 (Nitrogen Dioxide)	438.4960000				0.03069472	0.03069472	8.49706586
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.8518190				0.00054963	0.00054963	0.15215059
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6188680				0.00053332	0.00053332	0.14763652
PM-FIL PT (Particulate Matter)	9.5509910				0.00066857	0.00066857	0.18507672
7446-09-5 SO2 (Sulfur Dioxide)	0.2082856				0.00001458	0.00001458	0.00403611
108-88-3 Toluene	0.0380000				0.00000266	0.00000266	0.00073635
VOC VOC (Volatile Organic Compounds)	11.2227570				0.00078559	0.00078559	0.21747178
1330-20-7 Xylenes (Total)	0.0260000				0.00000182	0.00000182	0.00050382

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000003 **Equipment Description:** Two Diesel Emergency Generators
Football Training Center (EU 71-1) (320 hp)
71 Baseball Stadium (EU 71-2) (463 hp)
Fuel: Diesel

Operating Schedule

			% Annual Throughput				
	Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
	10	5	10	8	19	45	28

<u>Stack Information:</u>	<u>Stack Height (ft)</u>	<u>Stack Diameter (ft)</u>	<u>Height of Release (ft)</u>	<u>Stack Flow Rate (acfm)</u>	<u>Stack Velocity (ft/sec)</u>	<u>Exit Temperature (F)</u>
	8.30	0.33		1049.00	204.41	819.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 71

Process ID: 1 **Process Description:** 320 hp Generator **SCC Code and Description:** 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)

Number of Boilers: **SCC Units:** 1000 Gallons Distillate Oil (Diesel) Burned **Applicable Regulation:** 40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ

Boiler Number and Capacity (mmBTU/hr):

<u>Construction Date:</u>	<u>Fugitive Emissions</u>	<u>Count Emission For PTE</u>	<u>Confidential Information</u>	<u>Sulfur Content % Sulfur</u>	<u>Use % Sulfur in emission calc</u>	<u>Ash Content % Ash</u>	<u>Use % Ash in emission calc</u>
04/01/2015	N	Y	N		N		N

Operating Information:

<u>Pollutant ID and Description</u>	<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
71-43-2 Benzene	0.016000	0.041000	500.00	8.00	1000 Gal/Yr	0.00000262	0.00000262	0.00051128
124-38-9 Carbon Dioxide						0.46069650	0.46069650	89.89200000
630-08-0 CO (Carbon Monoxide)						0.00266808	0.00266808	0.52060000
7439-92-1 Lead, Total (as Pb)						0.00000017	0.00000017	0.00003320
74-82-8 Methane						0.00001857	0.00001857	0.00362400
10024-97-2 Nitrous Oxide						0.00000371	0.00000371	0.00072400
10102-44-0 NO2 (Nitrogen Dioxide)						0.01238820	0.01238820	2.41720920
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)						0.00087083	0.00087083	0.16991720
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)						0.00087083	0.00087083	0.16991720
PM-FIL PT (Particulate Matter)						0.00087083	0.00087083	0.16991720
7446-09-5 SO2 (Sulfur Dioxide)						0.00081447	0.00081447	0.15892000
108-88-3 Toluene						0.00000115	0.00000115	0.00022412
VOC VOC (Volatile Organic Compounds)						0.00101128	0.00101128	0.19732320
1330-20-7 Xylenes (Total)						0.00000080	0.00000080	0.00015620

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI) Detail Information:

Process ID: **Process Description:**

2 463 hp Generator

Equipment ID (SI): 71

SCC Code and Description:

20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel)
(2-03-001), Reciprocating (2-03-001-01)

Number of Boilers:

Boiler Number and Capacity (mmBTU/hr):

SCC Units:

1000 Gallons Distillate Oil (Diesel) Burned

Applicable Regulation

40 CFR 60, Subpart IIII; 40 CFR 63,
Subpart ZZZZ

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
04/01/2015	N	Y	N		N		N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.022000	0.059000	500.00	11.00	1000 gal/yr

Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)
71-43-2 Benzene	0.1278490				0.00000377	0.00000377	0.00070317
124-38-9 Carbon Dioxide	22473.0000000				0.66295350	0.66295350	123.60150000
630-08-0 CO (Carbon Monoxide)	30.8600000				0.00091037	0.00091037	0.16973000
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000024	0.00000024	0.00004565
10102-44-0 NO2 (Nitrogen Dioxide)	130.2900000				0.00384356	0.00384356	0.71659500
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	3.7700000				0.00011122	0.00011122	0.02073500
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	3.7700000				0.00011122	0.00011122	0.02073500
PM-FIL PT (Particulate Matter)	3.7700000				0.00011122	0.00011122	0.02073500
7446-09-5 SO2 (Sulfur Dioxide)	39.7387000				0.00117229	0.00117229	0.21856285
108-88-3 Toluene	0.0560453				0.00000165	0.00000165	0.00030825
VOC VOC (Volatile Organic Compounds)	1.7100000				0.00005045	0.00005045	0.00940500
1330-20-7 Xylenes (Total)	0.0390536				0.00000115	0.00000115	0.00021479

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000004	Equipment Description: Emergency Engine (EU72) The 90 Capacity: 701 HP Fuel: NG	Operating Schedule			% Annual Throughput			
72		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		10	5	10	21	30	23	26

Stack Information:	Stack Height	Stack Diameter	Height of Release	Stack Flow Rate	Stack Velocity	Exit Temperature
	<u>(ft)</u>	<u>(ft)</u>	<u>(ft)</u>	<u>(acfm)</u>	<u>(ft/sec)</u>	<u>(F)</u>
	6.30	0.33		4335.00	844.73	1490.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 72

Process ID: 1	Process Description: EU 72 - NG Usage	SCC Code and Description: 20300201 Internal Combustion Engines, Commercial/Institutional (2-03), Natural Gas (2-03-002), Reciprocating (2-03-002-01)
Number of Boilers:	SCC Units:	Applicable Regulation
Boiler Number and Capacity (mmBTU/hr):	Million Cubic Feet Natural Gas Burned	40 CFR 60, Subpart JJJJ; 40 CFR 63, Subpart ZZZZ

Construction Date: 05/01/2015	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information N	Sulfur Content % Sulfur	Use % Sulfur in emission calc N	Ash Content % Ash	Use % Ash in emission calc N
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Operating Information:

<u>Maximum Hourly Operating Rate (SCC Units/hr)</u>	<u>Annual Throughput (SCC Units/yr)</u>	<u>Maximum Operating Limitation (hrs/yr)</u>	<u>Maximum Operating Limitation</u>	<u>Maximum Operating Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
0.002000	0.030000	500.00	1.00	MMscf/Yr					
Pollutant ID and Description	Emission Factor	Control Equipment Description	Actual Ctrl.	PTE Ctrl. Eff.	Actual Emissions	Unctrl Act Emissions (tons/yr)	PTE Emissions (tons/yr)		
124-38-9 Carbon Dioxide	112200.0000000				1.68300000	1.68300000	56.10000000		
630-08-0 CO (Carbon Monoxide)	323.3400000				0.00485010	0.00485010	0.16167000		
110-54-3 Hexane; N-Hexane	1.1322000				0.00001698	0.00001698	0.00056610		
7439-92-1 Lead, Total (as Pb)	0.5100000				0.00000765	0.00000765	0.00025500		
74-82-8 Methane	1275.0000000				0.01912500	0.01912500	0.63750000		
10024-97-2 Nitrous Oxide	0.2250000				0.00000338	0.00000338	0.00011250		
10102-44-0 NO2 (Nitrogen Dioxide)	4161.6000000				0.06242400	0.06242400	2.08080000		
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	10.1868420				0.00015280	0.00015280	0.00509342		
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	10.1868420				0.00015280	0.00015280	0.00509342		
PM-FIL PT (Particulate Matter)	10.1868400				0.00015280	0.00015280	0.00509342		
7446-09-5 SO2 (Sulfur Dioxide)	0.5997600				0.00000900	0.00000900	0.00029988		
VOC VOC (Volatile Organic Compounds)	120.3600000				0.00180540	0.00180540	0.06018000		

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000005 80	Equipment Description: Emergency Engines (EU80) Early Childhood Lab (EU80-1) Ag Headhouse (EU80-2) Visual Studies (EU80-3) Capacity: 82-259 HP Fuel: NG	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		10	5	10	32	34	27	7

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	6.30	0.33		4335.00	844.73	1490.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 80

Process ID: 1	Process Description: EU 80 - NG Usage	SCC Code and Description: 20300201 Internal Combustion Engines, Commercial/Institutional (2-03), Natural Gas (2-03-002), Reciprocating (2-03-002-01)
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Number of Boilers:	SCC Units: Million Cubic Feet Natural Gas Burned	Applicable Regulation: 40 CFR 60, Subpart JJJJ; 40 CFR 63, Subpart ZZZZ
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Construction Date: 10/01/2014	Fugitive Emissions: N	Count Emission For PTE: Y	Confidential Information: N	Sulfur Content % Sulfur: N	Use % Sulfur in emission calc: N	Ash Content % Ash: N	Use % Ash in emission calc: N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/yr)	Maximum Operating Limitation (hrs/yr)	Maximum Operating Limitation	Maximum Operating Description
0.001062	0.020000	500.00	0.53	MMscf/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
124-38-9 Carbon Dioxide	112200.0000000				1.12200000	1.12200000	29.78910000
630-08-0 CO (Carbon Monoxide)	323.3400000				0.00323340	0.00323340	0.08584677
110-54-3 Hexane; N-Hexane	1.1322000				0.00001132	0.00001132	0.00030060
7439-92-1 Lead, Total (as Pb)	0.5100000				0.00000510	0.00000510	0.00013541
74-82-8 Methane	1275.0000000				0.01275000	0.01275000	0.33851250
10024-97-2 Nitrous Oxide	0.2250000				0.00000225	0.00000225	0.00005974
10102-44-0 NO2 (Nitrogen Dioxide)	4161.6000000				0.04161600	0.04161600	1.10490480
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	10.1868420				0.00010187	0.00010187	0.00270461
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	10.1868420				0.00010187	0.00010187	0.00270461
PM-FIL PT (Particulate Matter)	10.1868420				0.00010187	0.00010187	0.00270461
7446-09-5 SO2 (Sulfur Dioxide)	0.5997600				0.00000600	0.00000600	0.00015924
VOC VOC (Volatile Organic Compounds)	120.3600000				0.00120360	0.00120360	0.03195558

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000006 81-01	Equipment Description: Emergency Engine (EU81-1) Jacobs Science Building Cummins DQCC Capacity: 1200 hp Fuel: Diesel	Operating Schedule <u>Hours/Day</u> <u>Days/Week</u> <u>Weeks/Year</u> 5 2 50	% Annual Throughput <u>Dec-Feb</u> <u>Mar-May</u> <u>Jun-Aug</u> <u>Sep-Nov</u> 6 18 56 20
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Stack Information:	Stack Height <u>(ft)</u>	Stack <u>Diameter (ft)</u>	Height of Release <u>(ft)</u>	Stack Flow <u>Rate (acfm)</u>	Stack Velocity <u>(ft/sec)</u>	Exit <u>Temperature (F)</u>
	12.00	0.60		5455.00	321.55	902.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 81-01

Process ID: 1	Process Description: EU 81-01 - Diesel Usage	SCC Code and Description: 20200401 Internal Combustion Engines, Industrial (2-02), Large Bore Engine (2-02-004), Diesel (2-02-004-01)
Number of Boilers:	SCC Units: 1000 Gallons Diesel Burned	Applicable Regulation 40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ
Boiler Number and Capacity (mmBTU/hr):		

Construction Date: 09/01/2016	Fugitive Emissions N	Count Emission For PTE Y	Confidential Information N	Sulfur Content % Sulfur N	Use % Sulfur in emission calc N	Ash Content % Ash N	Use % Ash in emission calc N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr) 0.053800	Annual Throughput (SCC Units/vr) 0.140000	Maximum Operating Limitation (hrs/vr) 500.00	Maximum Operating Limitation 26.50	Maximum Operating Description 1000 Gal/Yr
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<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
71-43-2 Benzene	0.1063353				0.00000744	0.00000744	0.00143021
124-38-9 Carbon Dioxide	22609.9500000				1.58269650	1.58269650	304.10382750
630-08-0 CO (Carbon Monoxide)	6.2300000				0.00043610	0.00043610	0.08379350
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000058	0.00000058	0.00011164
74-82-8 Methane	0.8628971				0.00006040	0.00006040	0.01160597
10024-97-2 Nitrous Oxide	0.1725794				0.00001208	0.00001208	0.00232119
10102-44-0 NO2 (Nitrogen Dioxide)	122.8300000				0.00859810	0.00859810	1.65206350
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.9400000				0.00006580	0.00006580	0.01264300
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.9400000				0.00006580	0.00006580	0.01264300
PM-FIL PT (Particulate Matter)	0.9400000				0.00006580	0.00006580	0.01264300
7446-09-5 SO2 (Sulfur Dioxide)	1.8900000				0.00013230	0.00013230	0.02542050
VOC VOC (Volatile Organic Compounds)	1.8900000				0.00013230	0.00013230	0.02542050

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000007 81-02	Equipment Description: Emergency Engine (EU81-2) Student Center Cummins DQKAN Capacity: 4860 hp Fuel: Diesel	Operating Schedule			% Annual Throughput			
		<u>Hours/Day</u>	<u>Days/Week</u>	<u>Weeks/Year</u>	<u>Dec-Feb</u>	<u>Mar-May</u>	<u>Jun-Aug</u>	<u>Sep-Nov</u>
		5	2	50	4	11	77	8

Stack Information:	Stack Height	Stack	Height of Release	Stack Flow	Stack Velocity	Exit
	<u>(ft)</u>	<u>Diameter (ft)</u>	<u>(ft)</u>	<u>Rate (acfm)</u>	<u>(ft/sec)</u>	<u>Temperature (F)</u>
	12.00	0.60		18269.00	1076.89	1022.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 81-02

Process ID:	Process Description:	SCC Code and Description:
1	EU 81-02 - Diesel Usage	20200401 Internal Combustion Engines, Industrial (2-02), Large Bore Engine (2-02-004), Diesel (2-02-004-01)

Number of Boilers:	SCC Units:	Applicable Regulation
Boiler Number and Capacity (mmBTU/hr):	1000 Gallons Diesel Burned	40 CFR 60, Subpart IIII; 40 CFR 63, Subpart ZZZZ

Construction Date:	Fugitive Emissions	Count Emission For PTE	Confidential Information	Sulfur Content % Sulfur	Use % Sulfur in emission calc	Ash Content % Ash	Use % Ash in emission calc
11/01/2016	N	Y	N		N		N

Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr)	Annual Throughput (SCC Units/vr)	Maximum Operating Limitation (hrs/vr)	Maximum Operating Limitation	Maximum Operating Description
0.173100	0.430000	500.00	86.55	1000 Gal/Yr

<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/vr)</u>	<u>PTE Emissions (tons/vr)</u>
71-43-2 Benzene	0.1063353				0.00002286	0.00002286	0.00460166
124-38-9 Carbon Dioxide	22609.9500000				4.86113925	4.86113925	978.44558625
630-08-0 CO (Carbon Monoxide)	4.3000000				0.00092450	0.00092450	0.18608250
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000178	0.00000178	0.00035918
74-82-8 Methane	0.8628971				0.00018552	0.00018552	0.03734187
10024-97-2 Nitrous Oxide	0.1725794				0.00003710	0.00003710	0.00746837
10102-44-0 NO2 (Nitrogen Dioxide)	35.4000000				0.00761100	0.00761100	1.53193500
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	0.5800000				0.00012470	0.00012470	0.02509950
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	0.5800000				0.00012470	0.00012470	0.02509950
PM-FIL PT (Particulate Matter)	0.5800000				0.00012470	0.00012470	0.02509950
7446-09-5 SO2 (Sulfur Dioxide)	0.0200000				0.00000430	0.00000430	0.00086550
VOC VOC (Volatile Organic Compounds)	0.2300000				0.00004945	0.00004945	0.00995325

**KENTUCKY DIVISION FOR AIR QUALITY
KENTUCKY EMISSIONS INVENTORY SYSTEM
DETAILED PLANT INFORMATION**

Facility ID: 2106700003 **AI ID:** 1104 **YEAR OF INVENTORY:** 2020 Fayette County

Equipment ID (SI): EQPT0000000008	Equipment Description: Two Diesel Emergency Generator Samaritan Hospital (85-1)	Operating Schedule			% Annual Throughput			
85		Hours/Day	Days/Week	Weeks/Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
		10	5	10	25	25	25	25

Samaritan Hospital (85-2)
Capacity: 1125 hp each

Stack Information:	Stack Height (ft)	Stack Diameter (ft)	Height of Release (ft)	Stack Flow Rate (acfm)	Stack Velocity (ft/sec)	Exit Temperature (F)
	50.00	0.67		14770.00	698.22	950.00

Equipment ID (SI) Detail Information: **Equipment ID (SI):** 85

Process ID: 1	Process Description: Two Diesel Engines >600hp	SCC Code and Description: 20300101 Internal Combustion Engines, Commercial/Institutional (2-03), Distillate Oil (Diesel) (2-03-001), Reciprocating (2-03-001-01)
Number of Boilers:	SCC Units: 1000 Gallons Distillate Oil (Diesel) Burned	Applicable Regulation: 40 CFR 63 ZZZZ, 40 CFR 60, IIII
Boiler Number and Capacity (mmBTU/hr):		

Construction Date: 06/15/2009	Fugitive Emissions: N	Count Emission For PTE: Y	Confidential Information: N	Sulfur Content % Sulfur: N	Use % Sulfur in emission calc: N	Ash Content % Ash: N	Use % Ash in emission calc: N
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Operating Information:

Maximum Hourly Operating Rate (SCC Units/hr) 0.115000	Annual Throughput (SCC Units/yr) 2.100000	Maximum Operating Limitation (hrs/yr) 500.00	Maximum Operating Limitation 57.50	Maximum Operating Description 1000 gallons/yr
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<u>Pollutant ID and Description</u>	<u>Emission Factor</u>	<u>Control Equipment Description</u>	<u>Actual Ctrl.</u>	<u>PTE Ctrl. Eff.</u>	<u>Actual Emissions</u>	<u>Unctrl Act Emissions (tons/yr)</u>	<u>PTE Emissions (tons/yr)</u>
124-38-9 Carbon Dioxide	22609.9500000				23.74044750	23.74044750	650.03606250
630-08-0 CO (Carbon Monoxide)	116.4755000				0.12229928	0.12229928	3.34867063
7439-92-1 Lead, Total (as Pb)	0.0083000				0.00000872	0.00000872	0.00023863
74-82-8 Methane	0.9100000				0.00095550	0.00095550	0.02616250
10024-97-2 Nitrous Oxide	0.1800000				0.00018900	0.00018900	0.00517500
10102-44-0 NO2 (Nitrogen Dioxide)	438.4960000				0.46042080	0.46042080	12.60676000
PM10-FIL PM10 (Particulate Matter - 10 Microns Or Less)	7.8518190				0.00824441	0.00824441	0.22573980
PM25-FIL PM2.5 (Particulate Matter - 2.5 Microns Or Less)	7.6188680				0.00799981	0.00799981	0.21904246
PM-FIL PT (Particulate Matter)	9.5509910				0.01002854	0.01002854	0.27459099
7446-09-5 SO2 (Sulfur Dioxide)	0.2082856				0.00021870	0.00021870	0.00598821
VOC VOC (Volatile Organic Compounds)	11.2227570				0.01178389	0.01178389	0.32265426