PERMIT RENEWAL APPLICATION

Conditional Major Permit

Kenton County Airport Board

CVG CINCINNATI/NORTHERN KENTUCKY INTERNATIONAL AIRPORT

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INTRODUCTION AND FACILITY DESCRIPTION

Kenton County Airport Board (KCAB) owns and operates the Cincinnati/Northern Kentucky airport in Hebron, Kentucky (herein referred to as the "site," the "facility," or "CVG"). KCAB operates several support services for the airport such as indirect heat exchangers, emergency generators, fuel dispensing facilities, and various other sources of emissions. KCAB's operations are regulated as a conditional major source under the authority of conditional major permit, F-17-051 R1, originally issued by the Kentucky Division for Air Quality (KDAQ) on March 30, 2019, and revised on August 2, 2020.

As the permit expires on March 30, 2024, a renewal application for the permit must be submitted at least six months prior to the permit expiration date, or by September 30, 2024. Pursuant to 401 KAR 52:030 Section 4.(2)(c), *[a]pplications for permit renewals shall provide only the information that is new or different from the most recent source-wide permit application*. This report and its appendices constitute the renewal application as required under Condition G.2.a. of the existing permit and 401 KAR 52:030, Section 12.

Following this introduction, a description of the KCAB's operations is provided in the Facility Emission Units sub-section of this report. Within this sub-section, KCAB has outlined the necessary additions to and deletions from the air permit and requested updates to the air permit's infrastructure. A review of emission calculation methodologies for the facility's emission units is provided in the Air Emissions Analysis section of this application. A summary of applicable and non-applicable requirements under Federal and Kentucky State Implementation Plan (SIP) rules is provided in the Regulatory Requirements Summary section of this application. An updated emission unit (EU) index is provided in Appendix A to this application. DEP 7007 series application forms necessary to supplement the updates and revisions requested within this application are provided in Appendix B. Supplemental detailed emission calculations are provided in Appendix C. Finally, Suggested Permit Edits are provided in Appendix D.

Facility Location

KCAB is located 2.5 miles west of the intersection of Interstate-71/75 and Interstate-275 in Hebron, Kentucky (Boone County). The Universal Transverse Mercator (UTM) coordinates of the facility are (approximately) 702.7 kilometers (km) East and 4,325.5 km North (Zone 16, NAD83).

Facility Emission Units

EU 01 – Indirect Heat Exchangers (> 1 MMBtu/hr)

KCAB operates several natural gas-fired indirect heat exchangers that are either boilers (i.e., steam-generating units) or make-up air heaters, designated as EU 01 in the current permit. These units each have a heat rating of greater than 1 million British thermal units per hour (MMBtu/hr), which generally excludes them from designation as insignificant activities pursuant to Item #11 on the Division's Insignificant Activities list.[1]

Through the process of reviewing facility operations to prepare the application for renewing the FESOP, KCAB personnel identified two additional natural gas-fired indirect heat exchangers that should be listed under EU 01 in Section B of the permit. These two 2.5 MMBtu/hr units, EP-111 and EP-112, were added with construction of the Consolidated Rental Car Facility (CONRAC) and brought online on October 20, 2021,

[1] <https://eec.ky.gov/Environmental-Protection/Air/Documents/Insignificant%20Activities.pdf>

and were discovered as non-permitted EUs during preparation of this air permit renewal application. These units are listed in the facility-wide EU Index in Appendix A with **this formatting** designating them as being added via this renewal application, as well as in the DEP 7007A and 7007N forms in Appendix B, the Detailed Emissions Calculations in Appendix C, and the Suggested Permit Edits in Appendix D. As with all units under EU 01, the added indirect heat exchanges are subject to and will comply with 401 KAR 59:015, *New indirect heat exchangers*.

EU 02-04 – Emergency Engines

KCAB operates approximately 30 diesel-fired emergency engines at the facility. All but one of the engines are part of generator sets that provide back-up power to various facility buildings and operations in the event of a loss of power, while the fire pump engine operates a fire suppression system used in the event of a fire emergency. The emergency engines are separated into three separate EU groups in the permit–EU 02, EU 03, EU 04—based on manufacture date and use.

EU 02 – Existing Emergency Engines (Pre-NSPS)

KCAB has 25 permitted diesel-fired emergency engines with manufacture dates that pre-date 40 CFR 60 Subpart IIII – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*, also referred to as New Source Performance Standards (NSPS) Subpart IIII or "NSPS IIII." These units meet the definition of "Existing Stationary RICE" pursuant to 40 CFR 63.6590(a)(1)(iii) and have various applicable requirements based in 40 CFR 63 Subpart ZZZZ—often referred to as the "RICE MACT."

One such unit, EG-029, was removed from service in May 2022 when the Aircraft Rescue and Fire Fighting (ARFF) training facility was demolished. This unit is shown as removed in the facility-wide EU Index in Appendix A using ~~this format~~ and marked out of the Suggested Permit Edits in Appendix D.

EU 03 – New Engines (Subject to NSPS)

KCAB has four permitted emergency engines that are not "Existing Stationary RICE" pursuant to 40 CFR 63.6590(a)(1)(iii) and, therefore, are subject to the requirements of NSPS IIII. EG-029, referenced in the preceding subsection, was errantly listed in both EU 02 and EU 03 in the existing permit. Regardless, this unit has been decommissioned.

Furthermore, as referenced with the heat exchangers that KCAB is requesting be added to the permit, there is an emergency engine associated with the CONRAC. This emergency engine, EG-033, is included in the facility-wide EU Index in Appendix A, the DEP 7007EE and 7007N forms in Appendix B, the Detailed Emissions Calculations in Appendix C, and the Suggested Permit Edits in Appendix D with **this formatting** designating them as being added via this renewal application. As with all units under EU 03, the added emergency engine is subject to and will comply with NSPS IIII.

EU 04 – Existing Fire Pump Engine (Pre-NSPS)

Finally, KCAB operates a fire pump engine that pre-dates NSPS IIII. The fire-pump engine, EG-003, has a separate suite of requirements under the RICE MACT; therefore, it is listed in its own section of the permit. KCAB is not requesting any changes to EU 04 with this renewal application.

EU 05 – Cold Solvent Parts Washer

KCAB has one permitted cold solvent parts washer, EP 127, in the current permit as EU 05. EU 05 was removed from service in 2020 and replaced with a water-based parts washer that does not have the

potential to emit a regulated air pollutant and, thus, does not meet the definition of an "emission unit" pursuant to 401 KAR 52:001 Section 1(28). This information was first conveyed to KDAQ in correspondence related to the DAQ-Full Compliance Evaluation in November 2022. This unit is shown as removed in the facility-wide EU Index in Appendix A using ~~this format~~ and the Suggested Permit Edits in Appendix D.

EU 06 (Proposed) – Gasoline Dispensing Facilities

Through the process of reviewing facility operations to prepare the application for renewing the FESOP, KCAB personnel identified two additional EUs that should be added to Section B of the permit. KCAB is proposing to add these to the permit as **EU 06**, maintaining the current permit infrastructure that includes all similar EUs under a single EU designation. The units are two separate gasoline dispensing facilities (GDFs) subject to the standards of 40 CFR 63 Subpart CCCCCC – *National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities*, herein referred to as "NESHAP 6C."

Pursuant to 40 CFR 63.11111(a), the affected source includes each gasoline cargo tank during the delivery of product to a GDF and each storage tank and, pursuant to 40 CFR 63.11111(h), if an area source has two or more GDF at separate locations within the area source, each GDF is treated as a separate affected source. KCAB has an underground storage tank for unleaded gasoline with associated dispensers (2 for each tank) in two separate locations at the facility. Therefore, the facility has two separate GDFs per NESHAP 6C. There is currently an "EP-141 - Gasoline Fuel Transfer & Dispensing" listed as an insignificant activity in Section C of the current permit. However, as GDFs are subject to NESHAP requirements, the EUs and corresponding requirements should be included in Section B. Refer to the Air Emissions Analysis and Regulatory Requirements Summary sections for emission quantifications and applicable requirements, respectively. The GDFs are listed in the EU Index in Appendix A, DEP 7007S and 7007N forms in Appendix B, the Detailed Emissions Calculations in Appendix C, and the Suggested Permit Edits in Appendix D.

Insignificant Activities

KCAB has 79 insignificant activities listed in Section C of the current permit. IA 1 through IA 70 represents natural gas- or propane-fired indirect heat exchangers (or groups of heat exchangers) that are each rated at less than 1 MMBtu/hr heat input. IA 71 through IA 79 represent miscellaneous sources such as spray coating, welding, storage tanks with low vapor organic liquids such as propylene glycol, diesel fuel dispensing equipment, and the aforementioned GDF that is being moved to Section B as part of this renewal application.

As evident in the EU Index provided in Appendix A of this application, there are approximately 63 indirect heat exchangers that need to be added to the permit, while approximately 47 indirect heat exchangers need to be removed. The number of indirect heat exchangers under KCAB's control is fluid due to the sheer size and number of buildings located at the site, as well as frequent contract revisions and negotiations that change which ancillary buildings/operations on location are under the direct control of KCAB or other entities that are responsible for their own air quality compliance. For this reason, KCAB is proposing to consolidate IA 1 through IA 70 as the following two IA categories:

- IA1 – Propane Heaters (< 1 MMBtu/hr)
- IA2 – Natural Gas Heaters/Heat Exchangers (< 1 MMBtu/hr)

KCAB will continue to track EUs within each of these categories through its asset management systems, and a list of EUs within each category will be available on-site. Furthermore, total propane and natural gas consumption will be tracked on an annual basis for inclusion in the annual Kentucky Emissions Inventory System Web Survey response as well as to track compliance with the 90 ton per year (tpy) Title V avoidance limit pursuant to Section D.3. of the current permit.

Combustion Sources

- For the natural gas-fired indirection heat exchangers, combustion byproducts are calculated using the emission factors in AP-42 Section 1.4.
- For the propane-fired indirection heat exchangers, combustion byproducts are calculated using the emission factors in AP-42 Section 1.5.
- The emissions certification for the added emergency generator provides emission factors for particulate matter (PM), nitrogen oxides (NO_X), volatile organic compounds (VOC), and carbon monoxide (CO) which are converted from g/hp-hr to lb/thousand gallon (Mgal) by using the hp rating and fuel consumption rate specified during the certification testing. PM_{10} and $PM_{2.5}$ are assumed to be equal to PM, and sulfur dioxide (SO_2) is calculated as a mass balance from sulfur in ultra-low sulfur diesel (ULSD) as derived in AP-42 Table 3.3-1. Finally, greenhouse gas (GHG) emission factors are provided from the diesel combustion information in 40 CFR 98, Subpart C, Tables C-1 and C-2.
  - Per US EPA guidance, the potential to emit (PTE) for the emergency engine is based off 500 hours per year of operation.
  - Previously permitted emergency engines use emission factors from a combination of AP-42 Section 3.3, engine certifications, and 40 CFR 98, Subpart C.

Gasoline Dispensing Facilities

Based on review of the historical data, the fuel consumption for recent years has been approximately 16,000 to 20,000 gallons per month, per GDF. The PTE for the two GDFs at the BGAD facility was calculated using the following methods:

- The maximum potential throughput of gasoline for each GDF was conservatively set to 100,000 gallons per month, which is the maximum amount of gasoline throughput allowed under 40 CFR 63 Subpart CCCCCC without triggering more onerous emission mitigation practices, pursuant to 40 CFR 63.11111(d).
- The VOC emission factor in units of pound per thousand-gallon throughput (lb/MGal) was calculated by using representative emission factors from AP-42 Section 5.2 Table 5.2-7, "Evaporative Emissions from Gasoline Service Station Operations."
- The HAP emission factors were calculated by multiplying the VOC emission factor by the weight fractions of various HAP constituents of gasoline, as determined by using general industry knowledge.

The resulting PTE for each EU unit is 1.89 tpy VOC and 0.1673 tpy total HAP. The DEP 7007S and 7007N forms are included in Appendix B (DEP Forms) and the detailed calculations are included as Appendix C.

Miscellaneous Insignificant Activities

The emission calculation methodologies for current IA 71 through IA 78 are not being revised as part of this permit renewal application.

Current PTE

The current PTE for the KCAB's operations at CVG is provided in **Table 1** below. Table 1 does not reflect the aforementioned 90 tpy avoidance limit for NO_X.

Table 1. PTE for KCAB's Operations at CVG Airport

EU ID	Emission Unit Description		$PM/PM_{10}/PM_{2.5}$ tpy	NO_X tpy	CO tpy	VOC tpy	SO_2 tpy	Hexane tpy	Total HAP tpy
01	Natural Gas Fired Indirect Heat Exchangers	Existing Permit	0.83	43.56	36.59	2.40	0.26	0.78	0.78
		Added EUs	4.08E-02	2.15	1.80	1.18E-01	1.29E-02	3.86E-02	3.86E-02
		Total	**0.87**	**45.71**	**38.40**	**2.51**	**0.27**	**0.82**	**0.82**
02	Emergency Generators (Pre-NSPS)	**Total**	**1.55**	**54.83**	**14.29**	**5.69**	**1.80**	**--**	**--**
03	Emergency Generators (NSPS)	Existing Permit	0.54	4.97	1.66	0.63	0.51	--	--
		Added EUs	1.29E-02	2.85	0.25	9.00E-02	2.91E-03	--	3.12E-03
		Removed EU	*-9.24E-02*	*-0.28*	*-0.28*	*-0.11*	*-8.64E-02*	--	--
		Total	**0.46**	**7.54**	**1.63**	**0.61**	**0.42**	**--**	**--**
04	Fire Pump Engine	**Total**	**9.22E-03**	**0.13**	**2.82E-02**	**1.07E-02**	**8.62E-03**	**--**	**--**
~~05~~	~~Cold Solvents Parts Washer~~		--	--	--	--	--	--	--
06	Gasoline Dispensing Facilities	**Total**	**--**	**--**	**--**	**3.77**	**--**	**0.17**	**0.33**
IA1	Propane Heaters <1 MMBTU/hr	**Total**	**1.46E-02**	**0.27**	**0.04**	**1.15E-01**	**2.08E-03**	**--**	**--**
IA2	Nat. Gas-Fired Units <1 MMBTU/hr	**Total**	**0.235**	**12.35**	**10.38**	**0.68**	**7.41E-02**	**0.222**	**0.234**
IA3-IA10	Additional IAs	**Total**	**neg.**	**neg.**	**neg.**	**neg.**	**neg.**	**neg.**	**neg.**
		Facility Total	**3.13**	**120.8**	**64.8**	**13.39**	**2.58**	**1.22**	**1.39**

In this section of the application, the regulatory requirements applicable to KCAB's operations are briefly summarized.

Federally Enforceable Operating Permit Program

Under 401 KAR 52:030, KDAQ has incorporated provisions for sources that accept permit conditions (legally and practically enforceable) to limit their PTE below the major source thresholds listed in 401 KAR 52:020. As specified in 401 KAR 52:020, a major source with respect to the Title V regulations encompasses facilities with potential emissions of 100 tpy of any regulated pollutant, 10 tpy of any single HAP, and/or 25 tpy of any combination of HAPs. To avoid being classified as a major source for the purposes of Title V permitting, KCAB has accepted a limit of 90.0 tons per year for NO_X emissions. As such, KCAB is currently classified as a conditional major source.

New Source Review Permitting Program

KCAB plant is located within Boone County, Kentucky, which is currently designated as nonattainment with respect to all the 2015 National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, the federal New Source Review (NSR) permitting program applies to facilities designated as major stationary sources. Under the NSR program, a stationary source is considered "major" if it has a PTE of 100 tons per year or more of a regulated NSR pollutant. KCAB's operations are currently classified as a minor source with respect to the NSR program because, pursuant to the aforementioned Title V avoidance limit in Section D of the permit, the facility does not have any regulated pollutants with a PTE of more than 100 tpy.

Federal Air Regulations

New Source Performance Standards

New Source Performance Standards (NSPS) require new, modified, or reconstructed sources in applicable source categories to control emissions to the level achievable by the best demonstrated technology as specified in the applicable provision. Any source subject to a NSPS is also subject to the general provisions of NSPS Subpart A, except as noted.

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

40 CFR 60 Subpart IIII or "NSPS IIII" regulates compression ignition engines manufactured after the various applicability dates in 40 CFR 60.4200(a). The four emergency engines under the EU 03 group meet the requirements of NSPS primarily by operating the NSPS-certified engines per manufacturer's instructions and tracking hours of operation, as needed to maintain emergency status. No changes to NSPS IIII applicability are being requested via the permit renewal application except for adding an additional emergency engine to EU 03, as described elsewhere in this application.

National Emission Standards for Hazardous Air Pollutants

National Emission Standards for Hazardous Air Pollutants (NESHAP) are emission standards for major and area sources of hazardous air pollutants. 40 CFR Part 63 NESHAP allowable emission standards and/or work practices for major HAP sources in designated source categories are established on the basis of a Maximum

Achievable Control Technology (MACT) determination. Other subparts establish NESHAP work practices for area (i.e., "minor") HAP sources in designated source categories on the basis of Generally Available Control Technology (GACT) determinations. KCAB's operations are designated as an area source of HAP.

Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines

All emergency engines within the EU 02 and EU 03 groups are subject to 40 CFR 63 Subpart ZZZZ or the "RICE MACT." For the engines in EU 03, compliance with the RICE MACT is demonstrated via compliance with NSPS IIII. The engines in EU 02 comply with RICE MACT primarily by meeting the work practice standards in 40 CFR 63.6603(a) (referencing Table 2d) and by tracking hours of operation, as needed to maintain emergency status. No changes to RICE MACT applicability are requested via the permit renewal application.

Subpart CCCCCC – NESHAP for Source Category: Gasoline Dispensing Facilities

Pursuant to 40 CFR 63.11110, 40 CFR 63, Subpart CCCCCC (NESHAP 6C) applies to each gasoline dispensing facility (GDF) at an area source of HAP, where the GDF includes both the on-site stationary gasoline storage tank and each gasoline cargo tank during the delivery of product to the storage tank(s). A GDF is defined as any stationary facility that dispenses gasoline into the fuel tank of a motor vehicle, motor vehicle engine, nonroad vehicle, or nonroad engine, including a nonroad vehicle or nonroad engine used solely for competition (refer to 40 CFR 63.11132). A gasoline cargo tank is defined as a delivery tank truck or railcar which is loading or unloading gasoline, or which has loaded or unloaded gasoline on the immediately previous load.

KCAB operates two GDFs at CVG with each consisting of two dispensers and a single storage tank. As stated in the Air Emissions Analysis section of this report, each GDF operates in the range of up to 100,000 gallons of gasoline throughput per month. Pursuant to 40 CFR 63.11111(b)-(c), GDFs in this category must meet the requirements of 40 CFR 63.11116 and 63.11117. These requirements are provided in the DEP 7007V form in Appendix B as well as the Suggested Permit Edits in Appendix D. The operating limitations and work practice standards required by NESHAP 6C are summarized below:

- KCAB will take the measures in 40 CFR 63.11116(a) to avoid vapor releases to the atmosphere for extended periods of time, including the following:
  - Minimize gasoline spills,
  - Clean up spills as expeditiously as practicable,
  - Cover all open gasoline containers and all gasoline storage fill-pipes with a gasketed seal when not in use, and
  - Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
- KCAB will only load gasoline into storage tanks by utilizing submerged filling that meets the following requirements, as required by 40 CFR 63.11117(b):
  - Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the tank.
  - Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the tank.
  - Submerged fill pipes not meeting the specifications above are allowed KCAB can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe.

Kentucky Air Regulations

KCAB's operations are subject to Kentucky Administrative Regulations (401 KAR). Applicability to key state regulations is discussed in the following subsections.

401 KAR 50:012 - General Application

401 KAR 50:012 Section 1(2) is a broadly applicable requirement that constitutes a catch-all case-by-case control technology requirement for facilities in Kentucky, including those in attainment areas. 401 KAR 50:012 requires a major source to install control procedures that are "reasonable, available, and practical" (RAP) when an emission activity is not covered by another standard. The rule is intended to ensure reasonable controls are in place on pollutant-emitting sources if they fit into any category not covered by a NSPS, NESHAP, or other equipment-specific Kentucky SIP regulation.

As stated previously, KCAB's operations are not designated as a major source and, consequently, are not subject to the RAP requirements of 401 KAR 50:012.

401 KAR 59:015 – New Indirect Heat Exchangers

An affected facility under 401 KAR 59:015 is any indirect-fired heat exchanger with a heat input capacity greater than 1.0 MMBtu/hr for which construction commenced after April 9, 1972. The various heaters and boilers under EU 01 meet this definition. Pursuant to Section 3 of 401 KAR 59:015, subject emission units are required to meet certain emission limits for SO_2, PM, and opacity. KCAB demonstrates compliance with the required emission standards by burning only natural gas in these units.

401 KAR 63:020 – Potentially Hazardous Matter or Toxic Substances

401 KAR 63:020 mandates that no facility emit toxic substances in such quantities or duration that would be harmful to the health and welfare of humans, plants, and animals. Pursuant to 401 KAR 63:020, Section 1, the requirements of this rule are applicable only to the extent that such emissions are not elsewhere subject to a Maximum Achievable Control Technology (MACT) or Generally Available Control Technology (GACT) standard. Therefore, the only EUs that would potentially be subject to 401 KAR 63:020 would be the indirect fired heat exchangers which emit minimal HAP or toxic air pollutants (TAP). Therefore, KCAB assumes that the facility is in compliance with 401 KAR 63:020 at all times by operating pursuant to the permit.

APPENDIX A. EMISSION UNIT INDEX

Appendix A
Emission Unit Index

CVG Asset #	Permit ID	Permit Emission Group	Category	Permit Description	Location Asset Code	Operating Rat	Units
Indirect Heat Exchangers (Emission Unit 01)							
HVAC.BOIL.00028	EP-033	Emission Unit 01	Boiler	--	L.PRKG.17	1.47	MMBtu/hr
HVAC.BOIL.00025	EP-035	Emission Unit 01	Boiler	--	L.TERM.10.1	6.856	MMBtu/hr
HVAC.BOIL.00026	EP-036	Emission Unit 01	Boiler	--	L.TERM.10.1	6.856	MMBtu/hr
HVAC.BOIL.00027	EP-037	Emission Unit 01	Boiler	--	L.TERM.10.1	6.856	MMBtu/hr
HVAC.BOIL.00009	EP-038	Emission Unit 01	Boiler	--	L.CONC.12	6.68	MMBtu/hr
HVAC.BOIL.00010	EP-039	Emission Unit 01	Boiler	--	L.CONC.12	6.68	MMBtu/hr
HVAC.BOIL.00011	EP-040	Emission Unit 01	Boiler	--	L.CONC.12	6.68	MMBtu/hr
HVAC.BOIL.00012	EP-041	Emission Unit 01	Boiler	--	L.CONC.12	6.68	MMBtu/hr
HVAC.BOIL.00013	EP-042	Emission Unit 01	Boiler	--	L.CONC.12	6.68	MMBtu/hr
HVAC.BOIL.00029	EP-044	Emission Unit 01	Boiler	--	L.BLDG.61	5	MMBtu/hr
HVAC.BOIL.00030	EP-045	Emission Unit 01	Boiler	--	L.BLDG.61	5	MMBtu/hr
HVAC.BOIL.00001	EP-052	Emission Unit 01	Boiler	--	L.CONC.11	6	MMBtu/hr
HVAC.BOIL.00002	EP-053	Emission Unit 01	Boiler	--	L.CONC.11	6	MMBtu/hr
HVAC.BOIL.00003	EP-054	Emission Unit 01	Boiler	--	L.CONC.11	2	MMBtu/hr
HVAC.BOIL.00004	EP-055	Emission Unit 01	Boiler	--	L.CONC.11	2	MMBtu/hr
HVAC.BOIL.00005	EP-056	Emission Unit 01	Boiler	--	L.CONC.11	2	MMBtu/hr
HVAC.BOIL.00006	EP-057	Emission Unit 01	Boiler	--	L.CONC.11	2	MMBtu/hr
HVAC.BOIL.00007	EP-058	Emission Unit 01	Boiler	--	L.CONC.11	2	MMBtu/hr
HVAC.BOIL.00008	EP-059	Emission Unit 01	Boiler	--	L.CONC.11	2	MMBtu/hr
HVAC.MAU.00003	EP-085	Emission Unit 01	Make-up Air Unit	--	L.BLDG.66.3	3	MMBtu/hr
HVAC.MAU.00008	EP-100	Emission Unit 01	Make-up Air Unit	--	L.TERM.10.1	3.12	MMBtu/hr
HVAC.MAU.00006	EP-101	Emission Unit 01	Make-up Air Unit	--	L.CONC.11	2.348	MMBtu/hr
HVAC.MAU.00009	EP-105	Emission Unit 01	Make-up Air Unit	--	L.BLDG.3	1.4	MMBtu/hr
HVAC.BOIL.00034	**EP-111**	**Emission Unit 01**	**Boiler**	**--**	**L.BLDG.152**	**2.5**	**MMBtu/hr**
HVAC.BOIL.00035	**EP-112**	**Emission Unit 01**	**Boiler**	**--**	**L.BLDG.152**	**2.5**	**MMBtu/hr**
Emergency Generators -- Pre-2006 (Emission Unit 02)							
ELEC.GENR.00023	EG-004	Emission Unit 02	Emergency Generator	Terminal Garage. Emergency Generator	L.PRKG.17	275	kW
ELEC.GENR.00024	EG-005	Emission Unit 02	Emergency Generator	Police. Emergency Generator	L.BLDG.20	300	kW
ELEC.GENR.00025	EG-006	Emission Unit 02	Emergency Generator	Sign Shop. Emergency Generator	L.BLDG.3	**20**	kW
ELEC.GENR.00028	EG-007	Emission Unit 02	Emergency Generator	S Airfield Tunnel Emergency Generator	L.BLDG.170	300	kW
ELEC.GENR.00026	EG-008	Emission Unit 02	Emergency Generator	S.ARFF. Emergency Generator	L.ARFF.55	400	kW
ELEC.GENR.00027	EG-009	Emission Unit 02	Emergency Generator	Emergency Generator, Vault 12	L.VALT.62	230	kW
ELEC.GENR.00002	EG-010	Emission Unit 02	Emergency Generator	V12. Emergency Generator	L.VALT.62	250	kW
ELEC.GENR.00004	EG-012	Emission Unit 02	Emergency Generator	Airfield. Emergency Generator	L.AFLD	50	kW
ELEC.GENR.00005	EG-013	Emission Unit 02	Emergency Generator	HV. Emergency Generator	L.BLDG.21	80	kW
ELEC.GENR.00006	EG-014	Emission Unit 02	Emergency Generator	CONC B. Emergency Generator	L.CONC.12	500	kW
ELEC.GENR.00007	EG-015	Emission Unit 02	Emergency Generator	CONC B.Emergency Generator	L.CONC.12	500	kW
ELEC.GENR.00008	EG-017	Emission Unit 02	Emergency Generator	CONC A. Emergency Generator	L.CONC.11	500	kW
ELEC.GENR.00009	EG-018	Emission Unit 02	Emergency Generator	Terminal.Emergency Generator	L.TERM.10.1	500	kW
ELEC.GENR.00010	EG-019	Emission Unit 02	Emergency Generator	Terminal. Emergency Generator	L.TERM.10.1	500	kW
ELEC.GENR.00012	EG-020	Emission Unit 02	Emergency Generator	Field. Emergency Generator	L.BLDG.66	80	kW
ELEC.GENR.00013	EG-021	Emission Unit 02	Emergency Generator	Value Park. Emergency Generator	L.PRKL.33.2	26	kW
ELEC.GENR.00014	EG-022	Emission Unit 02	Emergency Generator	Gly Recycling. Emergency Generator	L.BLDG.65.1	125	kW
ELEC.GENR.00015	EG-023	Emission Unit 02	Emergency Generator	WV. Emergency Generator	L.VALT.98	750	kW
ELEC.GENR.00016	EG-024	Emission Unit 02	Emergency Generator	Field. Emergency Generator	L.BLDG.66.5	150	kW
ELEC.GENR.00018	EG-026	Emission Unit 02	Emergency Generator	N.ARFF. Emergency Generator	L.ARFF.9	475	kW
ELEC.GENR.00030	EG-027	Emission Unit 02	Emergency Generator	Roadway KY20 Emergency Generator	L.ROAD.KY20	80	kW
ELEC.GENR.00019	EG-028	Emission Unit 02	Emergency Generator	CVG Ctr. Emergency Generator	L.BLDG.61	600	kW
~~ELEC.GENR.00020~~	~~EG-029~~	~~Emission Unit 03~~	~~Emergency Generator~~	~~(EG-29) ARFF Training. Emergency Generator~~	~~L.BLDG.66~~	~~100~~	~~kW~~
ELEC.GENR.00022	EG-030	Emission Unit 02	Emergency Generator	CONC A. Emergency Generator	L.CONC.11	**150**	kW
ELEC.GENR.00031	EG-031	Emission Unit 02	Emergency Generator	CONC A. Emergency Generator	L.CONC.11	300	kW
Emergency Generators -- NSPS (Emission Unit 03)							
ELEC.GENR.00011	EG-002	Emission Unit 03	Emergency Generator	Short Term Plaza Entrance Emergency Generator	BLDG.196	125	kW
ELEC.GENR.00003	EG-011	Emission Unit 03	Emergency Generator	CONC A. Emergency Generator	L.CONC.11	150	kW
~~ELEC.GENR.00020~~	~~EG-029~~	~~Emission Unit 03~~	~~Emergency Generator~~	~~(EG-29) ARFF Training. Emergency Generator~~	~~L.BLDG.66~~	~~100~~	~~kW~~
ELEC.GENR.00032	EG-032	Emission Unit 03	Emergency Generator	3Mil. Emergency Generator	L.BLDG.85	300	kW
ELEC.GENR.00033	**EG-033**	**Emission Unit 03**	**Emergency Generator**	**CONRAC CSB Emergency Generator**	**L.BLDG.152**	**500**	**kW**

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Fire Pump Engines (Emission Unit 04)							
ELEC.GENR.00021	EG-003	Emission Unit 04	Fire Pump Engine (diesel)	Pump House.(EG-3) Emergency Generator	L.BLDG.32	130	kW
Cold Solvent Parts Washers (Emission Unit 05)							
~~NA~~	~~EP_127~~	~~Emission Unit 05~~	~~Cold Solvent Parts Washer~~	~~Cold Solvent Parts Washer~~		~~NA~~	~~NA~~
Gasoline Dispensing Facilities (Emission Unit 06)							
Various	**EP-201**	**Emission Unit 06**	**Gasoline Dispensing Facility**	**Dispensers D01 and D02 with UST 29**	**--**	**<100,000**	**gal/mon**
Various	**EP-202**	**Emission Unit 06**	**Gasoline Dispensing Facility**	**Dispensers D13 and D14 with UST 54**	**--**	**<100,000**	**gal/mon**
IA1 -- Propane Heaters (< 1 MMBtu/hr)							
HVAC.HTR.00169	EP-91	Insignificant Activities	Propane hanging heaters	(GFUH-STF-1) Propane Heater	L.BLDG.68	0.030	MMBtu/hr
HVAC.HTR.00170	EP-91	Insignificant Activities	Propane hanging heaters	(GFUH-STF-2) Propane Heater	L.BLDG.68	0.030	MMBtu/hr
HVAC.HTR.00171	EP-91	Insignificant Activities	Propane hanging heaters	(GFUH-STF-3) Propane Heater	L.BLDG.68	0.030	MMBtu/hr
HVAC.HTR.00172	EP-91	Insignificant Activities	Propane hanging heaters	(GFUH-STF-4) Propane Heater	L.BLDG.68	0.030	MMBtu/hr
HVAC.HTR.00173	EP-91	Insignificant Activities	Propane hanging heaters	(GFUH-STF-5) Propane Heater	L.BLDG.68	0.030	MMBtu/hr
HVAC.HTR.00174	EP-91	Insignificant Activities	Propane hanging heaters	(GFUH-STF-6) Propane Heater	L.BLDG.68	0.030	MMBtu/hr
HVAC.HTR.00175	EP-91	Insignificant Activities	Propane hanging heaters	(GFUH-STF-8) Propane Heater	L.BLDG.68	0.030	MMBtu/hr
HVAC.HTR.00131	EP-092	Insignificant Activities	Propane Air Heaters		L.BLDG.68	0.025	MMBtu/hr
HVAC.HTR.00132	EP-092	Insignificant Activities	Propane Air Heaters		L.BLDG.68	0.025	MMBtu/hr
HVAC.HTR.00133	EP-092	Insignificant Activities	Propane Air Heaters		L.BLDG.68	0.025	MMBtu/hr
HVAC.HTR.00134	EP-092	Insignificant Activities	Propane Air Heaters		L.BLDG.68	0.025	MMBtu/hr
HVAC.HTR.00135	EP-092	Insignificant Activities	Propane Air Heaters		L.BLDG.68	0.025	MMBtu/hr
HVAC.HTR.00136	**TBD**	**Insignificant Activities**	**Propane heater**	**(GFDH-STF-15) Propane Heater**	**L.BLDG.68**	**0.025**	**MMBtu/hr**
HVAC.HTR.00137	**TBD**	**Insignificant Activities**	**Propane heater**	**(GFDH-STF-16) Propane Heater**	**L.BLDG.68**	**0.025**	**MMBtu/hr**
HVAC.HTR.00138	EP-093	Insignificant Activities	Propane heater	(GFDH-STF-7) Propane Duct Heater	L.BLDG.68	0.05	MMBtu/hr
~~HVAC.HTR.00139~~	~~na~~	~~Insignificant Activities~~	~~Propane heater~~	~~(GFDH-STF-9) Propane Heater (NOT IN USE)~~	~~L.BLDG.68~~	~~0~~	~~MMBtu/hr~~
IA2 -- Natural Gas Heaters/Heat Exchangers (< 1 MMBtu/hr)							
HVAC.HTR.00343	EP-043	Insignificant Activities	Boiler/Water Heater	Water Heater	L.HNGR.83	0.365	MMBtu/hr
HVAC.BOIL.00023	EP-034	Insignificant Activities	Water Heater	Water Heater	L.BLDG.20	0.75	MMBtu/hr
HVAC.BOIL.00024	EP-046	Insignificant Activities	Boiler		L.BLDG.20	0.3359	MMBtu/hr
HVAC.BOIL.00022	EP-048	Insignificant Activities	Boiler		L.ARFF.9	0.343	MMBtu/hr
HVAC.BOIL.00021	EP-049	Insignificant Activities	Boiler		L.ARFF.9	0.343	MMBtu/hr
HVAC.BOIL.00015	EP-050	Insignificant Activities	Boiler		L.ARFF.55	0.75	MMBtu/hr
HVAC.BOIL.00014	EP-051	Insignificant Activities	Boiler		L.ARFF.55	0.75	MMBtu/hr
HVAC.BOIL.00032	EP-060	Insignificant Activities	Water Heater		L.BLDG.61	0.52	MMBtu/hr
	~~EP-061~~	~~Insignificant Activities~~	~~Water Heater~~	~~NG Hot Water Heater/Boiler~~		~~0~~	~~MMBtu/hr~~
HVAC.BOIL.00017	EP-095	Insignificant Activities	Water Heater	(B-GTP-1) Water Tube Boiler KY054580	L.BLDG.65.1	0.15	MMBtu/hr
HVAC.BOIL.00018	EP-096	Insignificant Activities	Water Heater	(B-GTP-2) Gly Recycling Natural Gas Boiler 2	L.BLDG.65.1	0.15	MMBtu/hr
HVAC.BOIL.00031	**TBD**	**Insignificant Activities**	**Boiler**	**--**	**L.HNGR.83**	**0.365**	**MMBtu/hr**
HVAC.BOIL.00016	**TBD**	**Emission Unit 01**	**Boiler**	**--**	**L.BLDG.66.3**	**0.99**	**MMBtu/hr**
PLUM.WH.00072	EP-064	Insignificant Activities	Hot Water Heater		L.HNGR.83	0.18	MMBtu/hr
PLUM.WH.00024	EP-047	Insignificant Activities	Hot Water heater		L.BLDG.66	0.55	MMBtu/hr
PLUM.WH.00093	EP-073	Insignificant Activities	NG Hot Water Heater	(WH-S.ARFF-2) Water Heater	L.ARFF.55	0.18	MMBtu/hr
PLUM.WH.00094	EP-074	Insignificant Activities	NG Hot Water Heater	(WH-S.ARFF-3) Water Heater	L.ARFF.55	0.18	MMBtu/hr
PLUM.WH.00095	EP-075	Insignificant Activities	NG Hot Water Heater	(S.ARFF-WH-4) Water Heater	L.ARFF.55	0.18	MMBtu/hr
PLUM.WH.00043	EP-076	Insignificant Activities	NG Hot Water Heater	(S.ARFF-WH-5) Water Heater, tankless FH-130	L.ARFF.55	0.18	MMBtu/hr
PLUM.WH.00092	EP-077	Insignificant Activities	NGHot Water Heater	(S.ARFF-WH-1) Water Heater	L.ARFF.55	0.18	MMBtu/hr
PLUM.WH.00050	EP-094	Insignificant Activities	NG hot water heater	(WH-PD-1) Water Heater, PD-005	L.BDG.20	0.042	MMBtu/hr
PLUM.WH.00013	EP-104	Insignificant Activities	NG Hot Water Heater	(B-B-WH-4) Water Heater B-B7-11	L.CONC.12	0.075	MMBtu/hr
PLUM.WH.00055	EP-107	Insignificant Activities	NG Hot Water Heater	(WH-BM-1) Water Heater BM-123	L.BLDG.3	0.075	MMBtu/hr
PLUM.WH.00034	EP-108	Insignificant Activities	NG Hot Water Heater	(N.ARFF-WH-1) Water Heater, NFH-014	L.ARFF.9	0.19999	MMBtu/hr
PLUM.WH.00035	EP-109	Insignificant Activities	NG Hot Water Heater	(N.ARFF-WH-2) Water Heater, NFH-014	L.ARFF.9	0.19999	MMBtu/hr
PLUM.WH.00096	EP-120	Insignificant Activities	NG Hot Water Heater	(WH-GM-1) Water Heater, GM-204 (Central Whs)	L.BLDG.102	0.16	MMBtu/hr
~~PLUM.WH.00027~~	~~EP-120~~	~~Insignificant Activities~~	~~NG Hot Water Heater~~		~~L.BLDG.102~~	~~0~~	~~MMBtu/hr~~
PLUM.WH.00020	**TBD**	**Insignificant Activities**	**NG Hot Water Heater**	**(WH-EM-1) Water Heater, EM-114**	**L.BLDG.67**	**0.16**	**MMBtu/hr**
PLUM.WH.00071	**TBD**	**Insignificant Activities**	**NG Hot Water Heater**	**(WH-GP-1) Water Heater Tankless GRF-101**	**L.BLDG.65**	**0.2**	**MMBtu/hr**
PLUM.WH.00081	**TBD**	**Insignificant Activities**	**NG Hot Water Heater**	**Tankless,Water Heater, D3-2140B**	**L.CONC.11**	**0.2**	**MMBtu/hr**
PLUM.WH.00098	**TBD**	**Insignificant Activities**	**NG Hot Water Heater**	**(WH-FM-1) Water Heater, FM-106**	**L.BLDG.66.3**	**0.08**	**MMBtu/hr**
PLUM.WH.00104	**TBD**	**Insignificant Activities**	**NG Hot Water Heater**	**Water Heater, Gas**	**L.BLDG.152**	**0.2**	**MMBtu/hr**
PLUM.WH.00108	**TBD**	**Insignificant Activities**	**NG Hot Water Heater**	**Water Heater, Gas**	**L.BLDG.152**	**0.2**	**MMBtu/hr**

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	EP-062	Insignificant Activities	NG Air Heaters	NG Heater		0	MMBtu/hr
	EP-063	Insignificant Activities	NG Air Heaters	NG Heater		0	MMBtu/hr
HVAC.RMU.00018	EP-066	Insignificant Activities	NG rooftop unit	NG Heater	L.HNGR.83	0.18	MMBtu/hr
HVAC.RMU.00018	EP-067	Insignificant Activities	NG rooftop unit	NG Heater	L.HNGR.83	0.12	MMBtu/hr
PLUM.WH.00103	EP-068	Insignificant Activities	NG unit	NG Heater	L.HNGR.83	0.125	MMBtu/hr
HVAC.HTR.00176	EP-069	Insignificant Activities	4 Hangar NG IR heaters	HNGR.83.(IRH-ASH-1) GAS FIRED INFRARED HTR.	L.HNGR.83	0.2	MMBtu/hr
HVAC.HTR.00177	EP-069	Insignificant Activities	4 Hangar NG IR heaters	HNGR.83.(IRH-ASH-2) GAS FIRED INFRARED HTR.	L.HNGR.83	0.2	MMBtu/hr
HVAC.HTR.00011	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-1) RADIANT HEATING SYSTEM 1	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00012	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-10) RADIANT HEATING SYSTEM 10	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00013	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-2) RADIANT HEATING SYSTEM 2	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00014	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-3) RADIANT HEATING SYSTEM 3	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00015	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-4) RADIANT HEATING SYSTEM 4	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00016	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-5) RADIANT HEATING SYSTEM 5	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00017	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-6) RADIANT HEATING SYSTEM 6	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00018	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-7) RADIANT HEATING SYSTEM 7	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00019	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-8) RADIANT HEATING SYSTEM 8	L.ARFF.55	0.4	MMBtu/hr
HVAC.HTR.00020	EP-070	Insignificant Activities	NG Infrared Heaters	ARFF.55.(RH-FH-9) RADIANT HEATING SYSTEM 9	L.ARFF.55	0.4	MMBtu/hr
	EP-065	Insignificant Activities	NG Air Heaters	Four NG Reznor Hanging Heaters	L.HNGR.83	0	MMBtu/hr
	EP-071	Insignificant Activities	NG Air Heaters	NG Heater	L.ARFF.9	0	MMBtu/hr
HVAC.MAU.00007	EP-072	Insignificant Activities	NG Make-up Air Unit	ARFF.9.(MU-NFH-1) Make Up Air Unit 1 [NFH137]	L.ARFF.55	0.2	MMBtu/hr
HVAC.HTR.00280	EP-078	Insignificant Activities	NG IR Heater	Field 1.(IRH-FM-8) Infrared Heating Unit	L.BLDG.66.1	0.2	MMBtu/hr
	EP-079	Insignificant Activities	NG Air Heaters	NG IR Heater		0	MMBtu/hr
HVAC.HTR.00278	EP-080	Insignificant Activities	NG Air Heaters	NG IR Heater	L.BLDG.66.2	0.2	MMBtu/hr
HVAC.HTR.00279	EP-081	Insignificant Activities	NG Air Heaters	NG IR Heater	L.BLDG.66.2	0.2	MMBtu/hr
	EP-082	Insignificant Activities	NG Air Heaters	Rooftop NG Heater	L.BLDG.66.3	0	MMBtu/hr
	EP-083	Insignificant Activities	NG Air Heaters	Rooftop NG Heater	L.BLDG.66.3	0	MMBtu/hr
PLUM.WH.00080	EP-084	Insignificant Activities	NG Water Heater	(WH-FM-3) Water Heater FM-146	L.BLDG.66.3	0.075	MMBtu/hr
HVAC.HTR.00255	EP-086	Insignificant Activities	NG IR Heater	Field 3.(IRH-FM-1) Infrared Heating Unit	L.BLDG.66.3	0.2	MMBtu/hr
HVAC.HTR.00266	EP-086	Insignificant Activities	NG IR Heater	Field 3.(IRH-FM-2) Infrared Heating Unit	L.BLDG.66.3	0.2	MMBtu/hr
HVAC.HTR.00275	EP-086	Insignificant Activities	NG IR Heater	Field 3.(IRH-FM-3) Infrared Heating Unit	L.BLDG.66.3	0.2	MMBtu/hr
HVAC.HTR.00276	EP-086	Insignificant Activities	NG IR Heater	Field 3.(IRH-FM-4) Infrared Heating Unit	L.BLDG.66.3	0.2	MMBtu/hr
HVAC.HTR.00277	EP-086	Insignificant Activities	NG IR Heater	Field 3.(IRH-FM-5) Infrared Heating Unit	L.BLDG.66.3	0.2	MMBtu/hr
	EP-087	Insignificant Activities	NG Air Heaters	NG Heater	L.BLDG.66.3	0	MMBtu/hr
HVAC.SPLIT.SYS.00005	EP-088	Insignificant Activities	NG Furnace	NG Furnace	L.BLDG.66.3	0.044	MMBtu/hr
	EP-089	Insignificant Activities	NG Air Heaters	NG Furnace	L.BLDG.66.3	0	MMBtu/hr
HVAC.HTR.00025	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-1) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00026	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-10) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00027	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-2) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00028	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-3) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00029	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-4) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00030	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-5) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00031	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-6) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00032	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-7) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00033	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-8) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
HVAC.HTR.00034	EP-102	Insignificant Activities	Ten NG IR Heaters	CONC.11.(VTRH-CA-9) VACUUM TUBE RAD. HEAT [Hub]	L.CONC.11	0.4	MMBtu/hr
	EP-090	Insignificant Activities	NG Air Heaters	NG Furnace	L.BLDG.66.3	0	MMBtu/hr
HVAC.HTR.00153	EP-097	Insignificant Activities	NG Reznor Hot Air Heater	NG Reznor Hot Air Heater	L.BLDG.65.1	0.1	MMBtu/hr
HVAC.HTR.00154	EP-098	Insignificant Activities	NG Reznor Hot Air Heater	NG Reznor Hot Air Heater	L.BLDG.65.1	0.1	MMBtu/hr
HVAC.HTR.00155	EP-099	Insignificant Activities	NG Reznor Hot Air Heater	NG Reznor Hot Air Heater	L.BLDG.65.1	0.1	MMBtu/hr
HVAC.HTR.00180	na	Insignificant Activities	Three NG IR heaters	none	L.CONC.12	0	MMBtu/hr
HVAC.HTR.00178	na	Insignificant Activities	Three NG IR heaters	none	L.CONC.12	0	MMBtu/hr
HVAC.HTR.00179	na	Insignificant Activities	Three NG IR heaters	none	L.CONC.12	0	MMBtu/hr
HVAC.HTR.10031	EP-106	Insignificant Activities	Five NG Air Heaters	none	L.BLDG.3	0.15	MMBtu/hr
HVAC.HTR.10032	EP-106	Insignificant Activities	Five NG Air Heaters	none	L.BLDG.3	0.15	MMBtu/hr
HVAC.HTR.10033	EP-106	Insignificant Activities	Five NG Air Heaters	none	L.BLDG.3	0.15	MMBtu/hr
HVAC.HTR.10034	EP-106	Insignificant Activities	Five NG Air Heaters	none	L.BLDG.3	0.15	MMBtu/hr
HVAC.HTR.10035	EP-106	Insignificant Activities	Five NG Air Heaters	none	L.BLDG.3	0.15	MMBtu/hr
HVAC.HTR.00004	EP-110	Insignificant Activities	Seven NG IR Heaters	none	L.ARFF.9	0.2	MMBtu/hr
HVAC.HTR.00005	EP-110	Insignificant Activities	Seven NG IR Heaters	none	L.ARFF.9	0.2	MMBtu/hr
HVAC.HTR.00006	EP-110	Insignificant Activities	Seven NG IR Heaters	none	L.ARFF.9	0.2	MMBtu/hr
HVAC.HTR.00007	EP-110	Insignificant Activities	Seven NG IR Heaters	none	L.ARFF.9	0.2	MMBtu/hr
HVAC.HTR.00008	EP-110	Insignificant Activities	Seven NG IR Heaters	none	L.ARFF.9	0.2	MMBtu/hr
HVAC.HTR.00009	EP-110	Insignificant Activities	Seven NG IR Heaters	none	L.ARFF.9	0.2	MMBtu/hr
HVAC.HTR.00010	EP-110	Insignificant Activities	Seven NG IR Heaters	none	L.ARFF.9	0.2	MMBtu/hr
HVAC.HTR.00147	EP-111	Insignificant Activities	Three NG Air Heaters	Facilities.(GFUH-EM-1) Gas Heater [EM120]	L.BLDG.67	0.09	MMBtu/hr

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HVAC.HTR.00148	EP-111	Insignificant Activities	Three NG Air Heaters	Facilities.(GFUH-EM-2) Gas Heater [EM119]	L.BLDG.67	0.09	MMBtu/hr
HVAC.HTR.00149	EP-111	Insignificant Activities	Three NG Air Heaters	Facilities.(GFUH-EM-3) Gas Heater [EM201]	L.BLDG.67	0.09	MMBtu/hr
HVAC.HTR.00249	EP-112	Insignificant Activities	NG Air Heater	Facilities.(IRH-EM-1) Infrared Radiant Heater	L.BLDG.67	0.1	MMBtu/hr
HVAC.HTR.00250	EP-113	Insignificant Activities	NG Air Heater	Facilities.(IRH-EM-2) Infrared Radiant Heater	L.BLDG.67	0.06	MMBtu/hr
HVAC.HTR.00251	EP-114	Insignificant Activities	NG Air Heater	Facilities.(IRH-EM-3) Infrared Radiant Heater	L.BLDG.67	0.06	MMBtu/hr
HVAC.HTR.00252	EP-115	Insignificant Activities	NG Air Heater	Facilities.(IRH-EM-4) Infrared Radiant Heater	L.BLDG.67	0.06	MMBtu/hr
HVAC.HTR.00253	EP-116	Insignificant Activities	NG Air Heater	Facilities.(IRH-EM-5) Infrared Radiant Heater	L.BLDG.67	0.06	MMBtu/hr
HVAC.HTR.00254	EP-117	Insignificant Activities	NG Air Heater	Facilities.(IRH-EM-6) Infrared Radiant Heater	L.BLDG.67	0.04	MMBtu/hr
	EP-118	Insignificant Activities	NG Air Heaters	NG Air Heater		0	MMBtu/hr
HVAC.HTR.00283	EP-119	Insignificant Activities	Two NG IR Heaters	Shuttle Garage.(IRH-PSMF-1) Infrared Tube Heater	L.BLDG.28	0.2	MMBtu/hr
HVAC.HTR.00284	EP-119	Insignificant Activities	Two NG IR Heaters	Shuttle Garage.(IRH-PSMF-2) Infrared Tube Heater	L.BLDG.28	0.2	MMBtu/hr
HVAC.HTR.00150	EP-121	Insignificant Activities	NG Heater	NG Heater	L.BLDG.102	0.08	MMBtu/hr
HVAC.HTR.00151	EP-122	Insignificant Activities	NG Heater	NG Heater	L.BLDG.102	0.06	MMBtu/hr
HVAC.HTR.00152	EP-123	Insignificant Activities	NG Heater	NG Heater	L.BLDG.102	0.04	MMBtu/hr
	EP-124	Insignificant Activities	NG Air Heaters	NG Heater	L.BLDG.102	0	MMBtu/hr
HVAC.HTR.00282	EP-125	Insignificant Activities	NG Heater	Central Whs.(IRH-GM-1) Infrared Radiant Heater	L.BLDG.102	0.2	MMBtu/hr
HVAC.HTR.00021	**TBD**	**Insignificant Activities**	**NG Heater**	**Central Whs.(RH-GM-1) Radiant Heat 1**	**L.BLDG.102**	**0.05**	**MMBtu/hr**
HVAC.HTR.00022	**TBD**	**Insignificant Activities**	**NG Heater**	**Central Whs.(RH-GM-2) Radiant Heat 2**	**L.BLDG.102**	**0.05**	**MMBtu/hr**
HVAC.HTR.00140	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**TERM.10.1.(GFIH-T3-1) GAS FIRED INFRARED HEATER 1OFF)**	**L.TERM.10.1**	**0.05**	**MMBtu/hr**
HVAC.HTR.00141	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**TERM.10.1.(GFIH-T3-2) NATURAL GAS FIRED INFRARED HEATER**	**L.TERM.10.1**	**0.05**	**MMBtu/hr**
HVAC.HTR.00142	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**TERM.10.1.(GFIH-T3-3) NATURAL GAS FIRED INFRARED HEATER**	**L.TERM.10.1**	**0.05**	**MMBtu/hr**
HVAC.HTR.00143	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**TERM.10.1.(GFIH-T3-4) NATURAL GAS FIRED INFRARED HEATER**	**L.TERM.10.1**	**0.05**	**MMBtu/hr**
HVAC.HTR.00144	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**TERM.10.1.(GFIH-T3-5) NATURAL GAS FIRED INFRARED HEATER**	**L.TERM.10.1**	**0.05**	**MMBtu/hr**
HVAC.HTR.00145	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**TERM.10.1.(GFIH-T3-6) NATURAL GAS FIRED INFRARED HEATER**	**L.TERM.10.1**	**0.05**	**MMBtu/hr**
HVAC.HTR.00146	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**TERM.10.1.(GFIH-T3-7) NATURAL GAS FIRED INFRARED HEATER**	**L.TERM.10.1**	**0.05**	**MMBtu/hr**
HVAC.HTR.00156	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00157	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00158	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00159	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00160	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00161	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00162	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00163	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00164	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00165	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00166	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00167	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00168	TBD	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00181	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-11A-1) GAS FIRED INFRARED HTR.**	**L.CONC.12**	**0.04**	**MMBtu/hr**
HVAC.HTR.00182	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-12A) GAS FIRED INFRARED HTR. [Ramp;13]**	**L.CONC.12**	**0.04**	**MMBtu/hr**
HVAC.HTR.00183	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-1A) GAS FIRED INFRARED HTR. [Ramp;1]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00184	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-1A-1) GAS FIRED INFRARED HTR. [Ramp;1]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00185	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-1B) GAS FIRED INFRARED HTR. [Ramp;3]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00186	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-2A) GAS FIRED INFRARED HTR. [Ramp;1]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00187	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-2A-1) GAS FIRED INFRARED HTR. [Ramp;1]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00188	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-2B) GAS FIRED INFRARED HTR. [Ramp;3]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00189	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-3A) GAS FIRED INFRARED HTR. [Ramp;3]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00190	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-3A-1) GAS FIRED INFRARED HTR. [Ramp;3]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00191	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-4A) GAS FIRED INFRARED HTR. [Ramp;2]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00192	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-4A-1) GAS FIRED INFRARED HTR. [Ramp;2]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00193	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-5A) GAS FIRED INFRARED HTR. [Ramp;7]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00194	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-5A-1) GAS FIRED INFRARED HTR. [Ramp;7]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00195	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-6A) GAS FIRED INFRARED HTR. [Ramp;8]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00196	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-6A-1) GAS FIRED INFRARED HTR. [Ramp;8]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00197	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-7A) GAS FIRED INFRARED HTR. [Ramp;9]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00198	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-7A-1) GAS FIRED INFRARED HTR. [Ramp;9]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00199	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-8A) GAS FIRED INFRARED HTR. [Ramp;11]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00200	na	Insignificant Activities	NG Heater	CONC.12.(IRH-CB-8A-1) GAS FIRED INFRARED HTR. [Ramp;11]	L.CONC.12	0	MMBtu/hr
HVAC.HTR.00201	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-9A) GAS FIRED INFRARED HTR. [Ramp;11]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00202	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**CONC.12.(IRH-CB-9A-1) GAS FIRED INFRARED HTR. [Ramp;11]**	**L.CONC.12**	**0.08**	**MMBtu/hr**
HVAC.HTR.00203	na	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00204	na	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00205	na	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr
HVAC.HTR.00206	na	Insignificant Activities	NG Heater	none	none	0	MMBtu/hr

~~HVAC.HTR.00207~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00208~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00209~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00210~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00211~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00212~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00213~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00214~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00215~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~none~~	~~none~~	~~0~~	~~MMBtu/hr~~
HVAC.HTR.00256	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-10) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00257	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-11) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00258	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-12) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00259	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-13) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00260	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-14) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00261	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-15) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00262	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-16) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00263	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-17) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00264	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-18) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00265	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 4.(IRH-FM-19) Infrared Heating Unit**	**L.BLDG.66.4**	**0.13**	**MMBtu/hr**
HVAC.HTR.00267	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-20) Infrared Heating Unit**	**L.BLDG.66.5**	**0.13**	**MMBtu/hr**
HVAC.HTR.00268	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-21) Infrared Heating Unit**	**L.BLDG.66.5**	**0.13**	**MMBtu/hr**
HVAC.HTR.00269	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-22) Infrared Heating Unit**	**L.BLDG.66.5**	**0.13**	**MMBtu/hr**
HVAC.HTR.00270	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-23) Infrared Heating Unit**	**L.BLDG.66.5**	**0.13**	**MMBtu/hr**
HVAC.HTR.00271	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-24) Infrared Heating Unit**	**L.BLDG.66.5**	**0.13**	**MMBtu/hr**
HVAC.HTR.00272	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-25) Infrared Heating Unit**	**L.BLDG.66.5**	**0.13**	**MMBtu/hr**
HVAC.HTR.00273	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-26) Infrared Heating Unit**	**L.BLDG.66.5**	**0.13**	**MMBtu/hr**
HVAC.HTR.00274	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-27) Infrared Heating Unit**	**L.BLDG.66.5**	**0.13**	**MMBtu/hr**
HVAC.HTR.00281	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Field 5.(IRH-FM-9) Infrared Heating Unit**	**L.BLDG.66.5**	**0.20**	**MMBtu/hr**
HVAC.HTR.00516	**TBD**	**Insignificant Activities**	**NG Heater**	**CONC.12.(RP-CB-1) HOT WATER RADIANT PANEL**	**L.CONC.12**	**0.04**	**MMBtu/hr**
~~HVAC.HTR.00524~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~Ball Field.(HTR-BF-1) Heater~~	~~L.BLDG.86~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00532~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~Facilities Radiant heater lobby 01~~	~~L.BLDG.67~~	~~0~~	~~MMBtu/hr~~
~~HVAC.HTR.00534~~	~~na~~	~~Insignificant Activities~~	~~NG Heater~~	~~Facilities Radiant Heater lobby 02~~	~~L.BLDG.67~~	~~0~~	~~MMBtu/hr~~
HVAC.HTR.00535	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**BLDG.26 Infrared Heaters**	**L.BLDG.26**	**0.10**	**MMBtu/hr**
10732	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Bldg.26 infrared heaters Space-Ray PTS/U 100 N5A**	**L.BLDG.26**	**0.10**	**MMBtu/hr**
10733	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Bldg.26 infrared heaters Space-Ray PTS/U 100 N5A**	**L.BLDG.26**	**0.10**	**MMBtu/hr**
10734	**TBD**	**Insignificant Activities**	**NG IR Heaters**	**Bldg.26 infrared heaters Space-Ray PTS/U 100 N5A**	**L.BLDG.26**	**0.10**	**MMBtu/hr**
HVAC.MAU.00010	**TBD**	**Insignificant Activities**	**NG Make-up Air Unit**	**ARFF.55.(MAU-FH-1) Range Hood Make Up Air Unit 1**	**L.ARFF.55**	**0.10**	**MMBtu/hr**
Miscellaneous Insignificant Activities							
--	EP-126	Insignificant Activities	Miscellaneous IAs	Spray Coating (0.05 gallon/hr)	--	--	--
--	EP-128	Insignificant Activities	Miscellaneous IAs	Welding Operations	--	--	--
--	EP-129	Insignificant Activities	Miscellaneous IAs	100% Propylene Glycol Tank (4 – 20,000 gal)	--	--	--
--	EP-130	Insignificant Activities	Miscellaneous IAs	50% Propylene Glycol Tank (125,000 gal)	--	--	--
--	EP-131	Insignificant Activities	Miscellaneous IAs	Propylene Glycol Evaporator with Condenser	--	--	--
--	EP-132	Insignificant Activities	Miscellaneous IAs	6% average propylene glycol tanks (19.5 million gallons)	--	--	--
--	EP-133	Insignificant Activities	Miscellaneous IAs	Diesel Fuel Transfer & Dispensing Operation	--	--	--
--	EP-137	Insignificant Activities	Miscellaneous IAs	Off-Road Diesel Fuel Transfer & Dispensing	--	--	--
~~--~~	~~EP-141~~	~~Insignificant Activities~~	~~Miscellaneous IAs~~	~~Gasoline Fuel Transfer & Dispensing~~	~~--~~	~~--~~	~~--~~

APPENDIX B. DEP 7007 FORMS

- DEP 7007AI
- DEP 7007A (Additional unit under EU 01)
- DEP 7007EE (Additional unit under EU 03)
- DEP 7007S (Addition of EU 06 – GDF)
- DEP 7007N (Emissions information for EU 01, EU 03, and EU 06)
- DEP 7007V (Applicable requirements under 40 CFR 63 Subpart CCCCCC for EU 06)
- DEP 7007DD (Update to insignificant activities infrastructure)

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601
(502) 564-3999

DEP7007AI

Administrative Information

___ Section AI.1: Source Information
___ Section AI.2: Applicant Information
___ Section AI.3: Owner Information
___ Section AI.4: Type of Application
___ Section AI.5: Other Required Information
___ Section AI.6: Signature Block
___ Section AI.7: Notes, Comments, and Explanations

Additional Documentation

None

___ Additional Documentation attached

Source Name: Kenton County Airport Board (KCAB)

KY EIS (AFS) #: 21- 015-00148

Permit #: F-17-051 R1

Agency Interest (AI) ID: 197

Date: 9/1/2023

Section AI.1: Source Information

Physical Location Address:	**Street:**	2939 Terminal Drive				
	City:	Hebron	**County:**	Kenton	**Zip Code:**	41048
Mailing Address:	**Street or P.O. Box:**	Same as location				
	City:		**State:**		**Zip Code:**	

Standard Coordinates for Source Physical Location

Longitude: -84.657227 (decimal degrees) **Latitude:** 39.055445 (decimal degrees)

Primary (NAICS) Category: 48819 **Primary NAICS #:** Other Support Activities for Air Transportation

Classification (SIC) Category: 4581 **Primary SIC #:** Airports, Flying Fields, and Services

Briefly discuss the type of business conducted at this site: Airport

Description of Area Surrounding Source: ☑ Rural Area ☐ Industrial Park ☐ Residential Area ☐ Urban Area ☑ Industrial Area ☐ Commercial Area

Is any part of the source located on federal land? ☐ Yes ☑ No

Number of Employees: ~350

Approximate distance to nearest residence or commercial property: 150 ft **Property Area:** 7,000 acres **Is this source portable?** ☐ Yes ☑ No

What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?

NPDES/KPDES:	☑ Currently Hold	☐ Need	☐ N/A
Solid Waste:	☐ Currently Hold	☐ Need	☑ N/A
RCRA:	☐ Currently Hold	☐ Need	☑ N/A
UST:	☑ Currently Hold	☐ Need	☐ N/A

Type of Regulated Waste Activity:

☑ Mixed Waste Generator ☐ Generator ☐ Recycler ☐ Other: _____

☐ U.S. Importer of Hazardous Waste ☐ Transporter ☐ Treatment/Storage/Disposal Facility ☐ N/A

Section AI.2: Applicant Information

Applicant Name: Kenton County Airport Board (KCAB)

Title: (if individual)

Mailing Address:
Street or P.O. Box: 2939 Terminal Drive
City: Hebron **State:** Kentucky **Zip Code:** 41048

Email: (if individual)

Phone:

Technical Contact

Name: Cole Musial

Title: Manager of Environmental Compliance

Mailing Address:
Street or P.O. Box: Same as applicant
City: **State:** **Zip Code:**

Email: cmusial@cvgairport.com

Phone: 859-739-1453

Air Permit Contact for Source

Name: Same as technical contact

Title:

Mailing Address:
Street or P.O. Box:
City: **State:** **Zip Code:**

Email:

Phone:

Section AI.3: Owner Information

☐ **Owner same as applicant**

Name: _____

Title: _____

Mailing Address:

Street or P.O. Box: _____

City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

List names of owners and officers of the company who have an interest in the company of 5% or more.

Name	Position

Section AI.4: Type of Application

Current Status: ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ General Permit ☐ Registration ☐ None

Requested Action: *(check all that apply)*

☐ Name Change	☐ Initial Registration	☐ Significant Revision	☐ Administrative Permit Amendment
☑ Renewal Permit	☐ Revised Registration	☐ Minor Revision	☐ Initial Source-wide OperatingPermit
☐ 502(b)(10)Change	☐ Extension Request	☐ Addition of New Facility	☐ Portable Plant Relocation Notice
☐ Revision	☐ Off Permit Change	☐ Landfill Alternate Compliance Submittal	☐ Modification of Existing Facilities
☐ Ownership Change	☐ Closure		

Requested Status: ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ PSD ☐ NSR ☐ Other: _____

Is the source requesting a limitation of potential emissions? ☐ Yes ☑ No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
☐ Particulate Matter		☐ Single HAP	
☐ Volatile Organic Compounds (VOC)		☐ Combined HAPs	
☐ Carbon Monoxide		☐ Air Toxics (40 CFR 68, Subpart F)	
☐ Nitrogen Oxides		☐ Carbon Dioxide	
☐ Sulfur Dioxide		☐ Greenhouse Gases (GHG)	
☐ Lead		☐ Other	

For New Construction:

Proposed Start Date of Construction: *(MM/YYYY)* N/A

Proposed Operation Start-Up Date: *(MM/YYYY)* N/A

For Modifications:

Proposed Start Date of Modification: *(MM/YYYY)* N/A

Proposed Operation Start-Up Date: *(MM/YYYY)* N/A

Applicant is seeking coverage under a permit shield. ☑ **Yes** ☐ **No**

Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.

Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

- [x] DEP7007A Indirect Heat Exchangers and Turbines
- [ ] DEP7007B Manufacturing or Processing Operations
- [ ] DEP7007C Incinerators and Waste Burners
- [ ] DEP7007F Episode Standby Plan
- [ ] DEP7007J Volatile Liquid Storage
- [ ] DEP7007K Surface Coating or Printing Operations
- [ ] DEP7007L Mineral Processes
- [ ] DEP7007M Metal Cleaning Degreasers
- [x] DEP7007N Source Emissions Profile
- [ ] DEP7007P Perchloroethylene Dry Cleaning Systems
- [ ] DEP7007R Emission Offset Credit
- [x] DEP7007S Service Stations
- [ ] DEP7007T Metal Plating and Surface Treatment Operations
- [x] DEP7007V Applicable Requirements and Compliance Activities
- [ ] DEP7007Y Good Engineering Practice and Stack Height Determination
- [ ] DEP7007AA Compliance Schedule for Non-complying Emission Units
- [ ] DEP7007BB Certified Progress Report
- [ ] DEP7007CC Compliance Certification
- [x] DEP7007DD Insignificant Activities
- [x] DEP7007EE Internal Combustion Engines
- [ ] DEP7007FF Secondary Aluminum Processing
- [ ] DEP7007GG Control Equipment
- [ ] DEP7007HH Haul Roads
- [ ] Confidentiality Claim
- [ ] Ownership Change Form
- [ ] Secretary of State Certificate
- [ ] Flowcharts or diagrams depicting process
- [ ] Digital Line Graphs (DLG) files of buldings, roads, etc.
- [ ] Site Map
- [ ] Map or drawing depicting location of facility
- [ ] Safety Data Sheet (SDS)
- [ ] Emergency Response Plan
- [ ] Other: _____

Section AI.6: Signature Block

I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.

[signature]	9/14/2023
Authorized Signature	**Date**
Cole Musial	Manager of Environmental Compliance
Type or Printed Name of Signatory	**Title of Signatory**

*Responsible official as defined by 401 KAR 52:001.

Section AI.7: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

DEP7007A

Indirect Heat Exchangers and Turbines

___ Section A.1: General Information

___ Section A.2: Operating and Fuel Information

___ Section A.3: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.

____ Manufacturer's specifications

Source Name: Kenton County Airport Board (KCAB)

KY EIS (AFS) #: 21-015-00148

Permit #: F-17-051 R1

Agency Interest (AI) ID: 197

Date: 9/1/2023

Section A.1: General Information

Emission Unit #	Emission Unit Name	Process ID	Process Name	Identify General Type: Indirect Heat Exchanger, Gas Turbine, or Combustion Turbine	Indirect Heat Exchanger Configuration	Manufacturer	Model No./ Serial No.	Proposed/Actual Date of Construction Commencement *(MM/YYYY)*	SCC Code	SCC Units	Control Device ID	Stack ID
CONRAC CSB Boilers (EU01)	Natural Gas Fired Indirect Heat Exchangers	1	NG Combustion	Indirect Heat Exchangers	Shell & Tube	Thermal Solutions	Arc 2500 / B2300304 & B2300303	Various	10200603	MMscf/hr	N/A	S-113

Section A.2: Operating and Fuel Information

Emission Unit #	If multipurpose unit, identify the percentage of use by purpose				Rated Capacity Heat Input *(MMBTU/hr)*	Rated Capacity Power Output		Describe Operating Scenario (only if this unit will be used in different configurations)	Classify Fuel as Primary or Secondary	Identify Fuel Type: Coal, Natural Gas, Wood, Biomass, Landfill/Digester Gas, Fuel Oil # (specify 1-6), or Other	Heat Content (HHV)		Maximum Operating Hours	Ash Content *(%)*	Sulfur Content *(%)*
	Space Heat	Process Heat	Power	Emergency			*(Specify units: hp, MW, or lb steam/hr)*					*(Specify units: Btu/lb, Btu/gal, or Btu/scf)*			
CONRAC CSB Boilers (EU01)	100%	--	--	--	5 MMBtu/hr total	N/A	N/A	N/A	Primary	Natural Gas	1,020	Btu/scf	8,760	N/A	N/A

Section A.3: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007S

Service Stations

___Section S.1: Tank Description
___Section S.2: Annual Throughput for Fuel Types
___Section S.3: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI

Source Name: Kenton County Airport Board (KCAB)

KY EIS (AFS) #: 21- 015-00148

Permit #: F-17-051 R1

Agency Interest (AI) ID: 197

Date: 9/1/2023

Section S.1: Tank Description

S.1(a): For All Tanks

Tank ID #	Product Stored	Tank Capacity *(gallons)*	Tank Dimensions		Is the tank undergound? *(Yes/No)*	Does the tank have a submerged fill pipe? *(Yes/No)*
			Diameter *(feet)*	Length *(feet)*		
Tank 26	Diesel	5,000	7.52	15.04	Yes	Yes
Tank 27	Diesel	20,000	11.94	23.88	Yes	Yes
Tank 28	Diesel	20,000	11.94	23.88	Yes	Yes
Tank 30	Diesel	10,000	9.48	18.95	No	Yes
Tank 29	Gasoline	20,000	11.94	23.88	Yes	Yes
Tank 54	Gasoline	10,000	9.48	18.95	Yes	Yes

S.1(b): For Gasoline Tanks Only

Tank ID #	Product Stored	Tank Capacity *(gallons)*	Tank Dimensions		Is the tank underground? *(Yes/No)*	Does the tank have a submerged fill pipe? *(Yes/No)*	Does gauge well drop tube extend within 6 inches of the tank bottom? *(Yes/No)*	Is there a vent line restriction? *(Yes/No)*	Is there a vapor balance system? *(Yes/No)*	Is there an interlocking system? *(Yes/No)*	What is the area of fill pipe? *(in^2)*	What is the vapor return line area? *(in^2)*
			Diameter *(feet)*	Length *(feet)*								
Tank 29	Gasoline	20,000	11.94	23.88	Yes	Yes	Yes	No	No	Yes	12.6 in^2 (4" pipe)	12.6 in^2 (4" pipe)
Tank 54	Gasoline	10,000	9.48	18.95	Yes	Yes	Yes	No	No	Yes	12.6 in^2 (4" pipe)	12.6 in^2 (4" pipe)

Section S.2: Annual Throughput for Each Type of Fuel

Gasoline: ~ 420,000 gal

Diesel Fuel: ~ 600,000 gal

Number of Gasoline dispensing pumps: 2 per GDF (4 total)

Number of Diesel dispensing pumps: 19

Kerosene: 0

Other (specify)**:** na

Number of Kerosene dispensing pumps: 0

Number of other dispensing pumps: 0

Section S.3: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007EE

Internal Combustion Engines

___ Section EE.1: General Information
___ Section EE.2: Operating Information
___ Section EE.3: Design Information
___ Section EE.4: Fuel Information
___ Section EE.5: Emission Factor Information
___ Section EE.6: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG

___ Attach EPA certification of the engine

Source Name: Kenton County Airport Board (KCAB)
KY EIS (AFS) #: 21- 015-00148
Permit #: F-17-051 R1
Agency Interest (AI) ID: 197
Date: 9/1/2023

Section EE.1: General Information

Emission Unit #	Emission Unit Name	Control Device ID	Stack ID	Manufacturer	Model Number	Model Year	Date of Manufacture	Proposed/Actual Date of Construction Commencement *(MM/YYYY)*	Date Reconstructed/ Modified	List Applicable Regulations
EU03 - EPTBD6	EU03 -- (EG-33) CONRAC CSB Emergency Generator	na	S-33 [EG-33]	Cummins	DFEK - 2089515	2018	2021	09/2021	na	RICE MACT NSPS IIII

Section EE.2: Operating Information

Emission Unit #	Engine Purpose (Identify if Non-Emergency, Emergency,Fire/Water Pump, Black-start engine for combustion turbine, Engine Testing)	Hours Operated	Is this engine a rental? *(Yes/No)*	Rental Time Period *(hrs)*	Alternate Operating Scenarios (Describe any operating scenarios in which the engine may be used in a different configuration)
EU03 -- (EG-33) CONRAC CSB Emergency Generator	Emergency	< 500	No	na	na

Section EE.3: Design Information

Emission Unit #	Engine Type (Identify all that apply: Commercial, Institutional, Stationary, Non-Road)	Ignition Type (Identify if either Compression or Spark Ignition)	Engine Family (Identify all that apply: 2-stroke, 4-stroke, Rich Burn, Lean Burn)	Maximum Engine Power *(bhp)*	Maximum Engine Speed *(rpm)*	Total Displacement *(L)*	Number of Cylinders
EU03 - EPTBD6	Stationary, Non-Road	Compression	4-stroke	755	1800	14.9	6

Section EE.4: Fuel Information

Emission Unit #	Identify if Primary, Secondary, or Tertiary Fuel	Fuel Type (Identify if Diesel, Gasoline, Natural Gas, Liquefied Petroleum Gas (LPG), Landfill/Digester Gas, or Other)	Fuel Grade	Percent Time Used *(%)*	Maximum Fuel Consumption	Heat Content	Sulfur Content *(%)*	SCC Code	SCC Units
EU03 - EPTBD6	Primary	Diesel	ULSD	100%	0.056 Mgal/hr	137.03 MMBtu/Mgal	0.0015	20200102	Mgal Diesel Burned

Section EE.5: Emission Factor Information

Emission factors expressed here are based on the potential to emit.

Emission Unit #	Fuel	Pollutant	Emission Factor	Emission Factor Units	Source of Emission Factor
EU03 -- (EG-33) CONRAC CSB Emergency Generator	Diesel	PM	0.919	lb/Mgal	Engine Emissions Data Sheet -- 0.02 g/BHP-hr at fully standby operating at 723 HP and 34.7 gph fuel consumption
		PM10	0.919	lb/Mgal	Conservatively assume equal to PM
		$PM_{2.5}$	0.919	lb/Mgal	Conservatively assume equal to PM
		SO_2	0.208	lb/Mgal	AP-42 Table 3.3-1 converted to lb/Mgal using 137 MMBtu/Mgal heat content
		NO_X	203.5	lb/Mgal	Engine Emissions Data Sheet -- 4.43 g/BHP-hr at fully standby operating at 723 HP and 34.7 gph fuel consumption
		VOC	6.431	lb/Mgal	Engine Emissions Data Sheet -- 0.14 g/BHP-hr at fully standby operating at 723 HP and 34.7 gph fuel consumption
		CO	17.9	lb/Mgal	Engine Emissions Data Sheet -- 0.39 g/BHP-hr at fully standby operating at 723 HP and 34.7 gph fuel consumption
		Benzene	0.128	lb/Mgal	AP-42 Table 3.3-1 converted to lb/Mgal using 137 MMBtu/Mgal heat content
		Toluene	5.60E-02	lb/Mgal	AP-42 Table 3.3-1 converted to lb/Mgal using 137 MMBtu/Mgal heat content
		Xylenes	3.90E-02	lb/Mgal	AP-42 Table 3.3-1 converted to lb/Mgal using 137 MMBtu/Mgal heat content
		CO2	22,338.4	lb/Mgal	40 CFR 98, Subpart C, Table C-1
		CH4	0.906	lb/Mgal	40 CFR 98, Subpart C, Table C-2
		N2O	0.181	lb/Mgal	40 CFR 98, Subpart C, Table C-2

Section EE.6: Notes, Comments, and Explanations

2023 EPA Tier 2 Exhaust Emission Compliance Statement
500DFEK
Stationary Emergency
60 Hz Diesel Generator Set

Compliance Information:

The engine used in this generator set complies with Tier 2 emissions limit of U.S. EPA New Source Performance Standards for stationary emergency engines under the provisions of 40 CFR 60 Subpart IIII.

Engine Manufacturer:	Cummins Inc.
EPA Certificate Number:	PCEXL015.AAJ-055
Effective Date:	10/06/2022
Date Issued:	10/06/2022
EPA Engine Family (Cummins Emissions Family):	PCEXL015.AAJ

Engine Information:

Model:	QSX/QSX15/QSX15-G/QSX15-G9	Bore:	5.39 in. (137 mm)
Engine Nameplate HP:	755	Stroke:	6.65 in. (169 mm)
Type:	4 Cycle, In-line, 6 Cylinder Diesel	Displacement:	912 cu. in. (15 liters)
Aspiration:	Turbocharged and CAC	Compression ratio:	17.0:1
Emission Control Device:	Electronic Control	Exhaust stack diameter:	8 in. (203 mm)

Diesel Fuel Emission Limits

D2 Cycle Exhaust Emissions

	Grams per BHP-hr			Grams per kWm-hr		
	NO_X + NMHC	CO	PM	NO_X + NMHC	CO	PM
EPA Emissions Limit	4.8	2.6	0.15	6.4	3.5	0.20

Test methods: EPA emissions recorded per 40 CFR Part 60, 89, 1039, 1065 and weighted at load points prescribed in the regulations for constant speed engines.

Diesel fuel specifications: Cetane number: 40-50, Reference: ASTM D975 No. 2-D, 300-500 ppm Sulfur

Reference conditions: Air Inlet Temperature: 25 °C (77 °F), Fuel Inlet Temperature: 40 °C (104 °F). Barometric Pressure: 100 kPa (29.53 in Hg), Humidity: 10.7 g/kg (75 grains H2O/lb) of dry air; required for NOx correction, Restrictions: Intake Restriction set to a maximum allowable limit for clean filter; Exhaust Back Pressure set to a maximum allowable limit..

Tests conducted using alternate test methods, instrumentation, fuel or reference conditions can yield different results. Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.

Exhaust Emission Data Sheet
500DFEK
60 Hz Diesel Generator Set
EPA NSPS Stationary Emergency

Engine Information:

Model:	Cummins Inc. QSX15-G9 NR 2	Bore:	5.39 in. (137 mm)
Nameplate BHP @ 1800 RPM:	755	Stroke:	6.65 in. (169 mm)
Type:	4 cycle, in-line, 6 cylinder diesel	Displacement:	912 cu. in. (14.9 liters)
Aspiration:	Turbocharged with air-to-air charge air cooling		
Compression Ratio:	17:1		
Emission Control Device:	Turbocharged with charge air-cooled		

Performance Data	1/4 Standby	1/2 Standby	3/4 Standby	Full Standby	Full Prime
Engine HP @ Stated Load (1800 RPM)	202	379	555	732	668
Fuel Consumption (gal/Hr)	11.3	18.7	25.8	34.7	30.6
Exhaust Gas Flow (CFM)	1400	2150	2730	3625	3160
Exhaust Gas Temperature (°F)	745	830	820	900	880
Exhaust Emission Data					
HC (Total Unburned Hydrocarbons)	0.24	0.09	0.07	0.14	0.12
NOx (Oxides of Nitrogen as NO_2)	3.24	3.65	4.64	4.43	4.04
CO (Carbon Monoxide)	0.57	0.34	0.40	0.39	0.36
PM (Particulate Matter)	0.09	0.05	0.05	0.02	0.02
Smoke (Pierburg)	0.52	0.44	0.42	0.21	0.20

All values (except smoke) are cited: g/BHP-hr

Test Methods and Conditions

Steady-state emissions recorded per ISO8178-1 during operation at rated engine speed (+/- 2%) and stated constant load (+/- 2%) with engine temperatures, pressures and emission rated stabilized.

Fuel specification:	40-48 Cetane Number, 0.05 Wt.% max. Sulfur; Reference ISO8178-5, 40CFR86.1313-98 Type 2-D and ASTM D975 No. 2-D.
Air Inlet Temperature:	25 °C (77 °F)
Fuel Inlet Temperature:	40 °C (104 °F)
Barometric Pressure:	100 kPa (29.53 in Hg)
Humidity:	10.7 g/kg (75 grains H_2O/lb) of dry air (required for NOx correction)
Intake Restriction:	Set to maximum allowable limit for clean filter
Exhaust Back Pressure:	Set to maximum allowable limit

Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Tests conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results.

Division for Air Quality
300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007DD

Insignificant Activities

___ Section DD.1: Table of Insignificant Activities
___ Section DD.2: Signature Block
___ Section DD.3: Notes, Comments, and Explanations

Source Name: Kenton County Airport Board (KCAB)
KY EIS (AFS) #: 21- 015-00148
Permit #: F-17-051 R1
Agency Interest (AI) ID: 197
Date: 9/1/2023

Section DD.1: Table of Insignificant Activities

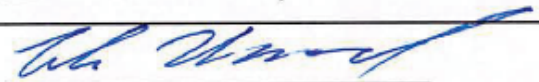
*Identify each activity with a unique Insignificant Activity number (IA #); for example: 1, 2, 3… etc.

Insignificant Activity #	Description of Activity including Rated Capacity	Serial Number or Other Unique Identifier	Applicable Regulation(s)	Calculated Emissions
IA1	Propane Heaters <1 MMBTU/hr	N/A	N/A	Insignificant Activity #15 on KDAQ's published list: *Gas-fired space heaters or ovens rated at less than 1 million BTU per hour actual heat input.* Refer to Propane Combustion calculations.
IA2	Nat. Gas-Fired Units <1 MMBTU/hr	N/A	N/A	Insignificant Activity #15 on KDAQ's published list: *Gas-fired space heaters or ovens rated at less than 1 million BTU per hour actual heat input.* Refer to Natural Gas Combustion calculations.
IA3	Spray Coating (0.05 gallon/hr)	N/A	401 KAR 59:010	No emissions changes per this renewal application
IA4	Welding Operations	N/A	401 KAR 59:010	No emissions changes per this renewal application

Insignificant Activity #	Description of Activity including Rated Capacity	Serial Number or Other Unique Identifier	Applicable Regulation(s)	Calculated Emissions
IA5	100% Propylene Glycol Tank (4 – 20,000 gal)	N/A	N/A	No emissions changes per this renewal application
IA6	50% Propylene Glycol Tank (125,000 gal)	N/A	N/A	No emissions changes per this renewal application
IA7	Propylene Glycol Evaporator with Condenser	N/A	N/A	No emissions changes per this renewal application
IA8	6% average propylene glycol tanks (19.5 million gallons)	N/A	N/A	No emissions changes per this renewal application
IA9	Diesel Fuel Transfer & Dispensing Operation	N/A	N/A	No emissions changes per this renewal application
IA10	Off-Road Diesel Fuel Transfer & Dispensing	N/A	N/A	No emissions changes per this renewal application

Section DD.2: Signature Block

I, THE UNDERSIGNED, HEREBY CERTIFY UNDER PENALTY OF LAW, THAT I AM A RESPONSIBLE OFFICIAL, AND THAT I HAVE PERSONALLY EXAMINED, AND AM FAMILIAR WITH, THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ITS ATTACHMENTS. BASED ON MY INQUIRY OF THOSE INDIVIDUALS WITH PRIMARY RESPONSIBILITY FOR OBTAINING THE INFORMATION, I CERTIFY THAT THE INFORMATION IS ON KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE OR INCOMPLETE INFORMATION, INCLUDING THE POSSIBILITY OF FINE OR IMPRISONMENT.



Authorized Signature

9/14/2023

Date

By:

Cole Musial

Type/Print Name of Siguatory

Manager of Environmental Compliance

Title of Siguatory

Section DD.3: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
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DEP7007N

Source Emissions Profile

__ Section N.1: Emission Summary
__ Section N.2: Stack Information
__ Section N.3: Fugitive Information
__ Section N.4: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI

Source Name: Kenton County Airport Board (KCAB)
KY EIS (AFS) #: 21- 015-00148
Permit #: F-17-051 R1
Agency Interest (AI) ID: 197
Date: 9/1/2023

N.1: Emission Summary

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity *(SCC Units/hour)*	Pollutant	Uncontrolled Emission Factor *(lb/SCC Units)*	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency *(%)*	Control Efficiency *(%)*	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential *(lb/hr)*	Controlled Potential *(lb/hr)*	Uncontrolled Potential *(tons/yr)*	Controlled Potential *(tons/yr)*
CONRAC CSB Boilers (EU01)	Natural Gas Fired Indirect Heat Exchangers	1	NG Combustion	na	na	S-113	4.90E-03	PM/PM10/ PM2.5	1.9	AP-42 Table 1.4-2	na	na	9.31E-03	na	4.08E-02	na
								SO2	0.6	AP-42 Table 1.4-1	na	na	2.94E-03	na	1.29E-02	na
								NOX	100	AP-42 Table 1.4-1	na	na	0.490	na	2.15	na
								VOC	5.5	AP-42 Table 1.4-2	na	na	2.70E-02	na	0.118	na
								CO	84	AP-42 Table 1.4-2	na	na	0.412	na	1.80	na
								Hexane	1.8	AP-42 Table 1.4-3	na	na	8.82E-03	na	3.86E-02	na

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity *(SCC Units/hour)*	Pollutant	Uncontrolled Emission Factor *(lb/SCC Units)*	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency *(%)*	Control Efficiency *(%)*	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential *(lb/hr)*	Controlled Potential *(lb/hr)*	Uncontrolled Potential *(tons/yr)*	Controlled Potential *(tons/yr)*
EU03	EU03 -- (EG-33) CONRAC CSB Emergency Generator	TBD	Diesel Combustion	na	na	S-33 [EG-33]	5.60E-02	PM/PM10/ PM2.5	0.92	Engine Emissions Data	na	na	5.14E-02	na	1.29E-02	na
								SO2	0.208	AP-42 Table 3.3-1	na	na	1.16E-02	na	2.91E-03	na
								NOX	203.5	Engine Emissions Data	na	na	11.40	na	2.85	na
								VOC	6.43	Engine Emissions Data	na	na	0.36	na	0.09	na
								CO	17.9	Engine Emissions Data	na	na	1.00	na	0.25	na
								Benzene	0.128	AP-42 Table 3.3-1	na	na	7.16E-03	na	1.79E-03	na
								Toluene	5.60E-02	AP-42 Table 3.3-1	na	na	3.14E-03	na	7.84E-04	na
								Xylenes	3.90E-02	AP-42 Table 3.3-1	na	na	2.19E-03	na	5.47E-04	na
								CO2	22,338.4	40 CFR 98, Subpart C, Table C-1	na	na	1,250.9	na	312.7	na
								CH4	0.906	40 CFR 98, Subpart C, Table C-2	na	na	5.07E-02	na	1.27E-02	na
								N2O	0.181	40 CFR 98, Subpart C, Table C-2	na	na	1.01E-02	na	2.54E-03	na
EU TBD	GDF #1 (EU 06)	1	Gasoline Throughput	na	na	S-TBD	0.139	VOC	3.10	AP-42 Table 5.2-7	na	na	0.431	na	1.89	na
								Toluene	3.41E-02	AP-42 Table 5.2-7	na	na	4.74E-03	na	2.07E-02	na
								Xylenes	3.10E-02	AP-42 Table 5.2-7	na	na	4.31E-03	na	1.89E-02	na
								Hexane	0.142	AP-42 Table 5.2-7	na	na	1.97E-02	na	8.62E-02	na
								Total HAP	0.275	AP-42 Table 5.2-7	na	na	3.81E-02	na	0.167	na
EU TBD	GDF #2 (EU 06)	1	Gasoline Throughput	na	na	S-TBD	0.139	VOC	3.10	AP-42 Table 5.2-7	na	na	0.431	na	1.89	na
								Toluene	3.41E-02	AP-42 Table 5.2-7	na	na	4.74E-03	na	2.07E-02	na
								Xylenes	3.10E-02	AP-42 Table 5.2-7	na	na	4.31E-03	na	1.89E-02	na
								Hexane	0.142	AP-42 Table 5.2-7	na	na	1.97E-02	na	8.62E-02	na
								Total HAP	0.275	AP-42 Table 5.2-7	na	na	3.81E-02	na	0.167	na

Section N.2: Stack Information

UTM Zone:

Stack ID	Identify all Emission Units (with Process ID) and Control Devices that Feed to Stack	Stack Physical Data			Stack UTM Coordinates		Stack Gas Stream Data		
		Equivalent Diameter *(ft)*	Height *(ft)*	Base Elevation *(ft)*	Northing *(m)*	Easting *(m)*	Flowrate *(acfm)*	Temperature *(° F)*	Exit Velocity *(ft/sec)*
S-113	CONRAC CSB Boilers (EU01)	0.8	28	~ 865	4,325,555	702,645	753	60 -180	23.0
S-33 [EG-33]	EU03 -- (EG-33) CONRAC CSB Emergency Generator	0.7	12	~ 865	4,325,527	702,721	3625	900	173.1

Section N.3: Fugitive Information

UTM Zone:

Emission Unit #	Emission Unit Name	Process ID	Area Physical Data		Area UTM Coordinates		Area Release Data	
			Length of the X Side *(ft)*	Length of the Y Side *(ft)*	Northing *(m)*	Easting *(m)*	Release Temperature *(°F)*	Release Height *(ft)*
Not applicable for this renewal application								

Section N.4: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007V
Applicable Requirements and Compliance Activities

___ Section V.1: Emission and Operating Limitatio
___ Section V.2: Monitoring Requi
___ Section V.3: Recordkeeping R
___ Section V.4: Reporting Requir
___ Section V.5: Testing Requirem
___ Section V.6: Notes, Comments, and Explanatio

Additional Documentation
___ Complete DEP7007AI

Source Name: Kenton County Airport Board (KCAB)
KY EIS (AFS) #: 21- 015-00148
Permit #: F-17-051 R1
Agency Interest (AI) ID: 197
Date: 9/1/2023

Section V.1: Emission and Operating Limitation(s)

Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11111	VOC/HAP	na	na	To maintain the current classification of the gasoline tanks, the total monthly throughput of gasoline for each tank shall not exceed 100,000 gallons.	Refer to Recordkeeping Requirement 5.a.
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11111(i)	VOC/HAP	na	na	If a GDF ever exceeds an applicable throughput threshold, the GDF will remain subject to the requirements for sources above the threshold, even if the affected source throughput later	Refer to Recordkeeping Requirement 5.a.
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11116(a)(1)	VOC/HAP	na	na	Minimize gasoline spills.	Follow standard operating procedures for tank loading and dispensing operations.

Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11116(a)(2)	VOC/HAP	na	na	Clean up spills as expeditiously as practicable.	Follow standard operating procedures for cleaning spills.
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11116(a)(3)	VOC/HAP	na	na	Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use.	Follow standard operating procedures for tank loading and dispensing operations.
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11116(a)(4)	VOC/HAP	na	na	Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices.	Follow standard operating procedures for tank loading and dispensing operations.
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11117(b)	VOC/HAP	na	na	Gasoline storage tanks with a capacity of greater than 250 gallons must only load gasoline into storage tanks by using submerged filling, as defined in 40 CFR 63.11132.	Follow standard submerged filling procedures for gasoline loading
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11117(b)(1)	VOC/HAP	na	na	Submerged fill pipes installed on or before November 9, 2006, must measure no more than 12 inches from the bottom of the tank to the point in the opening of the submerged fill pipe.	Follow standard submerged filling procedures for gasoline loading
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11117(b)(2)	VOC/HAP	na	na	Submerged fill pipes installed after November 9, 2006, must measure no more than 6 inches from the bottom of the tank to the point in the opening of the submerged fill pipe.	Follow standard submerged filling procedures for gasoline loading
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	40 CFR 63.11117(b)(3)	VOC/HAP	na	na	Submerged fill pipes not meeting the specifications of 40 CFR 63.11117(b)(1) and (b)(2) are allowed if the liquid level in the tank is always above the entire opening of the fill pipe.	Follow standard submerged filling procedures for gasoline loading and providing documentation of a demonstration that the liquid level is always above the enitre fill pipe

Section V.2: Monitoring Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Monitored	Description of Monitoring
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	na	na	na	na

Section V.3: Recordkeeping Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Recorded	Description of Recordkeeping
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	VOC/HAP	401 KAR 52:030 Section 10	Gasoline Throughput	Records shall be kept of the monthly throughput of the total gasoline to the tank.
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	VOC/HAP	401 KAR 52:030 Section 10	Gasoline Spills	Records shall be maintained of date and time of gasoline spills and clean-up efforts.
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	VOC/HAP	40 CFR 63.11116(b) & 40 CFR 63.11111(e)	Gasoline Throughput	The permittee is not required to submit notifications or reports as specified in 40 CFR 63.11125, 40 CFR 63.11126, or subpart A of 40 CFR part 63, but the permittee must have records available within 24 hours of a request by the Administrator to document gasoline throughput. Records required under this paragraph shall be kept for a period of 5 years.

Section V.4: Reporting Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reported	Description of Reporting
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	Organic HAP	40 CFR 63.11126(b)	Malfunctions	Each operator of a GDF under this subpart shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year, and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an operator during a malfunction of a GDF to minimize emissions in accordance with CFR 40 63.11115(a), including actions taken to correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred.

Section V.5: Testing Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Tested	Description of Testing
EU 06	GDF #1 (EP 201) GDF #2 (EP 202)	Organic HAP	40 CFR 63.11120(c)	na	Performance testing conducted shall be conducted under such conditions as the Administrator specifies to the permittee based on representative performance (i.e., performance based on normal operating conditions) of each GDF. Upon request, the permittee shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

Section V.6: Notes, Comments, and Explanations

APPENDIX C. DETAILED EMISSION CALCULATIONS

Appendix C
Detailed Emission Calculations

1. Natural Gas-Fired Combustion Units

> Methodology for calculating PTE for natural gas-fired boilers and air makeup units is provided in this section.

1.1 Individual Heater Capacities

1.1.1 Emission Unit 01 - Natural Gas Fired Indirect Heat Exchangers >1 MMBtu/hr

Location		Unit Description	Individual Rating (MMBtu/hr)
Field Maintenance Bldg. #3	EP-85	Field 3.(MAU-FM-2) Make Up Air Unit	3
T-3 Parking Garage	EP-33	(B-T3P-1) Cast Iron Boiler KY40203	1.47
Sign Shop	EP-105	Sign Shop.(MAU-SS-1) Make Up Air Unit	1.4
Terminal 3	EP-35	(B-T3-1) Cast Iron Boiler 1 KY44421	6.856
	EP-36	(B-T3-2) Cast Iron Boiler KY44422	6.856
	EP-37	(B-T3-3) Cast Iron Boiler KY44423	6.856
	EP-100	TERM.10.1.(MU-T3-1) Make Up Air Unit [LL2;1]	3.12
Concourse B	EP-38	(B-CB-1) Cast Iron Boiler KY44434 [B;9]	6.68
	EP-39	(B-CB-2) Cast Iron Boiler KY44436 [B;9]	6.68
	EP-40	(B-CB-3) Cast Iron Boiler KY44440 [B;9]	6.68
	EP-41	(B-CB-4) Cast Iron Boiler KY44441 [B;9]	6.68
	EP-42	(B-CB-5) Cast Iron Boiler KY44442 [B;9]	6.68
CVG Centre	EP-44	(B-OF-1) Water Tube Boiler KY051765	5
	EP-45	(B-OF-2) Cast Iron Boiler KY051766	5
Concourse A	EP-52	(B-CA-1) Water Tube Boiler KY75440 [Ramp;5]	6
	EP-53	(B-CA-2) Water Tube Boiler KY75439 [Ramp;5]	6
	EP-54	(B-CA-3) Fire Tube Aerco Boiler KY75453 [Ramp;5]	2
	EP-55	(B-CA-4) Fire Tube Aerco Boiler KY75454 [Ramp;5]	2
	EP-56	(B-CA-5) Fire Tube Aerco Boiler KY75455 [Ramp;5]	2
	EP-57	(B-CA-6) Fire Tube Aerco Boiler KY75456 [Ramp;5]	2
	EP-58	(B-CA-7) Fire Tube Aerco Boiler KY75457 [Ramp;5]	2
	EP-59	(B-CA-8) Fire Tube Aerco Boiler KY75458 [Ramp;5]	2
	EP-101	CONC.11.(MU-CA-1) Make Up Air Unit [Hub;R]	2.348
CONRAC CSB	**EP-111**	**(B-CSB-1) BOILER 1,Condensing**	**2.5**
	EP-112	**(B-CSB-2) BOILER 2, Condensing**	**2.5**

Natural Gas Heat Content:	1,020	Btu/scf	AP-42 Section 1.4 Background Document (03/98)
EU 01 Total Capacity:	**104.31**	MMBtu/hr	
	0.102	MMscf/hr	

1.1.2 Insignificant Activity - Natural Gas Heat Exchangers

Natural Gas Heat Content:	1,020	Btu/scf	AP-42 Section 1.4 Background Document (03/98)
Number of Heaters (≤1 MMBtu/hr):	152		
Total Capacity:	28.77	MMBtu/hr	
	0.028	MMscf/hr	

1.2 Documentation of Emission Factors Used

> Emission factors for natural gas combustion from AP-42 Section 1.4 (7/98Edition) are used to calculate potential emissions from the new air makeup units. These emission factors are expressed on a lb/MMscf basis.

1.2.1 Criteria Pollutants

Pollutant	Emission Factor (lb/MMscf)	Basis
PM/PM10/PM2.5	1.9	AP-42 Table 1.4-2, 07/98
NO_X	100	AP-42 Table 1.4-1, 07/98
CO	84	AP-42 Table 1.4-1, 07/98
VOC	5.5	AP-42 Table 1.4-2, 07/98
SO_2	0.6	AP-42 Table 1.4-2, 07/98
Hexane	1.8	AP-42 Table 1.4-3, 07/98

1.2.2 Hazardous Air Pollutants

Pollutant	CAS	Emission Factor (lb/MMscf)	Basis
Total HAPs		1.89	AP-42 Table 1.4-3, 07/98
Acenaphthene	83-32-9	1.80E-06	AP-42 Table 1.4-3, 07/98
Acenaphthylene	208-96-8	1.80E-06	AP-42 Table 1.4-3, 07/98
Anthracene	120-12-7	2.40E-06	AP-42 Table 1.4-3, 07/98
Benz(a)anthracene	56-55-3	1.80E-06	AP-42 Table 1.4-3, 07/98
Benzene	71-43-2	2.10E-03	AP-42 Table 1.4-3, 07/98
Benzo(b)fluoranthene	205-99-2	1.80E-06	AP-42 Table 1.4-3, 07/98
Benzo(a)pyrene	50-32-8	1.20E-06	AP-42 Table 1.4-3, 07/98
Benzo(g,h,i)perylene	191-24-2	1.20E-06	AP-42 Table 1.4-3, 07/98
Benzo(k)flouranthene	205-82-3	1.80E-06	AP-42 Table 1.4-3, 07/98
Chrysene	218-01-9	1.80E-06	AP-42 Table 1.4-3, 07/98
7,12-Dimethylbenz(a)anthracene	57-97-6	1.60E-05	AP-42 Table 1.4-3, 07/98
Dibenzo(a,h)anthracene	53-70-3	1.20E-06	AP-42 Table 1.4-3, 07/98
Dichlorobenzene	25321-22-6	1.20E-03	AP-42 Table 1.4-3, 07/98
Fluoranthene	206-44-0	3.00E-06	AP-42 Table 1.4-3, 07/98
Fluorene	86-73-7	2.80E-06	AP-42 Table 1.4-3, 07/98
Formaldehyde	50-00-0	0.075	AP-42 Table 1.4-3, 07/98
3-Methylchloranthrene	56-49-5	1.80E-06	AP-42 Table 1.4-3, 07/98
2-Methylnaphthalene	91-57-6	2.40E-05	AP-42 Table 1.4-3, 07/98
n-Hexane	110-54-3	1.80	AP-42 Table 1.4-3, 07/98
Indeno(1,2,3-cd)pyrene	193-39-5	1.80E-06	AP-42 Table 1.4-3, 07/98
Naphthalene	91-20-3	6.10E-04	AP-42 Table 1.4-3, 07/98
Phenanthrene	85-01-8	1.70E-05	AP-42 Table 1.4-3, 07/98
Pyrene	129-00-0	5.00E-06	AP-42 Table 1.4-3, 07/98
Toluene	108-88-3	3.40E-03	AP-42 Table 1.4-3, 07/98
Arsenic	7440-38-2	2.00E-04	AP-42 Table 1.4-4, 07/98
Beryllium	7440-41-7	1.20E-05	AP-42 Table 1.4-4, 07/98
Cadmium	7440-43-9	1.10E-03	AP-42 Table 1.4-4, 07/98
Chromium	7440-47-3	1.40E-03	AP-42 Table 1.4-4, 07/98
Cobalt	7440-48-4	8.40E-05	AP-42 Table 1.4-4, 07/98
Manganese	7439-96-5	3.80E-03	AP-42 Table 1.4-4, 07/98
Mercury	7439-97-6	2.60E-04	AP-42 Table 1.4-4, 07/98
Nickel	7440-02-0	2.10E-03	AP-42 Table 1.4-4, 07/98
Selenium	7782-49-2	2.40E-05	AP-42 Table 1.4-4, 07/98

1.3 Summary of Potential Emissions

1.3.1 Emission Unit 01 - Natural Gas Fired Indirect Heat Exchangers >1 MMBtu/hr

Pollutant	Uncontrolled Emission Factor (lb/MMscf)	Hourly Uncontrolled Emissions (lb/hr)	Annual Uncontrolled Emissions (tpy)	Basis
PM/PM10/PM2.5	1.90	0.194	0.85	AP-42 Table 1.4-2, 07/98
NOx	100	10.23	44.79	AP-42 Table 1.4-1, 07/98
CO	84	8.59	37.62	AP-42 Table 1.4-1, 07/98
VOC	5.50	0.562	2.46	AP-42 Table 1.4-2, 07/98
SO2	0.60	6.14E-02	0.269	AP-42 Table 1.4-2, 07/98
HAPs	1.89	0.193	0.847	AP-42 Table 1.4-3, 07/98
Max HAP	1.80	0.184	0.806	AP-42 Table 1.4-3, 07/98
n-Hexane	1.80	0.184	0.806	AP-42 Table 1.4-3, 07/98

1.3.2 Insignificant Activity - Natural Gas Heat Exchangers

Pollutant	Uncontrolled Emission Factor (lb/MMscf)	Hourly Uncontrolled Emissions (lb/hr)	Annual Uncontrolled Emissions (tpy)	Basis
PM/PM10/PM2.5	1.90	0.05	0.23	AP-42 Table 1.4-2, 07/98
NOx	100	2.82	12.35	AP-42 Table 1.4-1, 07/98
CO	84	2.37	10.38	AP-42 Table 1.4-1, 07/98
VOC	5.50	0.155	0.68	AP-42 Table 1.4-2, 07/98
SO2	0.60	0.017	0.074	AP-42 Table 1.4-2, 07/98
HAPs	1.89	0.053	0.23	AP-42 Table 1.4-3, 07/98
Max HAP	1.80	0.051	0.22	AP-42 Table 1.4-4, 07/98
n-Hexane	1.80	0.051	0.22	AP-42 Table 1.4-4, 07/98

2. Propane-Fired Combustion Units

> Methodology for calculating PTE for propane-fired heating units is provided in this section.

2.1 Insignificant Activities - Propane Heaters

Propane Heat Content:	91.5	MMBtu/MMscf	Current KYEIS
Number of Heaters (≤1 MMBtu/hr):	12		
Total Capacity:	0.435	MMBtu/hr	
	0.00475	MMscf/hr	

2.2 Documentation of Emission Factors Used

> Emission factors for liquified petroleum gas combustion from AP-42 Section 1.5 (7/08 Edition) are used to calculate potential emissions from the propane heaters. These emission factors are expressed on a lb/Mgal basis.

2.2.1 Criteria Pollutants

Pollutant	Emission Factor (lb/Mgal)	Basis
NO_X	13	AP-42 Table 1.5-1, 07/08
CO	7.5	AP-42 Table 1.5-1, 07/08
VOC	5.5	AP-42 Table 1.5-1, 07/08
PM/PM10/PM2.5	0.7	AP-42 Table 1.5-1, 07/08
SO_2	0.1	AP-42 Table 1.5-1, 07/08

2.3 Summary of Potential Emissions

Pollutant	Uncontrolled Emission Factor (lb/MMscf)	Hourly Uncontrolled Emissions (lb/hr)	Annual Uncontrolled Emissions (tpy)	Basis
PM/PM10/PM2.5	0.70	3.33E-03	1.46E-02	AP-42 Table 1.5-1, 07/08
NOx	13	6.18E-02	0.27	AP-42 Table 1.5-1, 07/08
CO	8	3.57E-02	0.16	AP-42 Table 1.5-1, 07/08
VOC	5.50	2.61E-02	0.11	AP-42 Table 1.5-1, 07/08
SO2	0.10	4.75E-04	2.08E-03	AP-42 Table 1.5-1, 07/08

3. Emissions Associated with Gasoline Dispensing Facilities

3.1 Gasoline Dispensing Facility (GDF) Throughput Data

> The two Gasoline Dispensing Facilities (GDFs) at CVG are subject to the regulations for those with throughput of greater than 10,000 gallons/month gasoline and less than 100,000 gallons/month gasoline. Pursuant to 40 CFR 63.11111(i), if either GDF exceeds 100,000 gallons/mo for any month, that GDF is subject to the next tier of standards.

Gasoline Dispensing Facility	Emission Units	CVG Asset #	Associated UST	Avg Monthly Thruput (gal/mo)	Max Monthly Thruput (gal/mo)
GDF #1 (EU 06)	D-01 [Dispenser 1, Island 1 (Unleaded)]	FUEL.ISLAND.01.01	Tank 29	8,000	
	D-02 [Dispenser 2, Island 1 (Unleaded)]	FUEL.ISLAND.01.02		8,000	
			GDF #1 Total -->	**16,000**	**100,000**
GDF #2 (EU 06)	D-13 (Dispenser 13)	--	Tank 54	11,000	
	D-14 (Dispenser 14)	--		11,000	
			GDF #2 Total -->	**22,000**	**100,000**

3.2 Emission Factor Basis

3.2.1 VOC Emission Factor

Parameter	Value	Units	Basis
GDF VOC Emission Factor	3.1	lb/ Mgal	4.1 lb/Mgal = 0.3 lb/Mgal (balanced submerged filling) + 1.0 lb/Mgal (underground tank breathing/emptying) + 1.1 lb/Mgal (controlled displacement loss) + 0.7 lb/Mgal (spillage); AP-42 Table 5.2-7 Eqn. 6

3.2.2 HAP Emission Factors

> HAP emission factors are calculated by multiplying the VOC emission factor (lb/Mgal) by the weight fraction of various HAP and reportable compounds as shown below.

Pollutant	CAS #	HAP?	Weight Fraction (%,mass)	GDF Emission Factor (lb/Mgal)	GDF Emission Factor (lb/Mgal)	Emission Factor Basis
Ethylene	74-85-1	N	1.07	0.033	3.31E-02	VOC emission factor x HAP weight fraction as listed in the November 2002 "Refinery Stream Speciation" document from the American Petroleum Institute. Non-HAP emission factors are included for reference only.
Propylene (Propene)	115-07-1	N	7.25	0.225	0.225	
Benzene	71-43-2	Y	1.09	3.37E-02	3.37E-02	
Cyclohexane	110-82-7	N	0.17	5.40E-03	5.40E-03	
Toluene	108-88-3	Y	1.10	3.41E-02	3.41E-02	
Ethylbenzene	100-41-4	Y	1.00	3.10E-02	3.10E-02	
1,2,4-Trimethylbenzene	95-63-6	N	0.09	2.65E-03	2.65E-03	
Xylene (mixed isomers)	1330-20-7	Y	1.00	3.10E-02	3.10E-02	
n-Hexane	110-54-3	Y	4.57	0.142	0.142	
Naphthalene	91-20-3	Y	0.10	3.10E-03	3.10E-03	
Total HAP				2.75E-01	2.75E-01	

3.3 Emissions Summary

	Throughput			Potential Emissions	
Pollutant	Max Monthly Throughput (gal/mo/GDF)	Max Hourly Throughput (Mga/hr/GDF)	GDF Emission Factor (lb/Mgal)	GDF #1 (tpy)	GDF #2 (tpy)
VOC			3.1	1.89	1.89
Toluene			0.034	2.07E-02	2.07E-02
Xylene (mixed isomers)	100,000	0.139	0.031	1.89E-02	1.89E-02
n-Hexane			0.142	8.62E-02	8.62E-02
Total HAP			0.275	0.167	0.167

APPENDIX D. SUGGESTED PERMIT EDITS

Commonwealth of Kentucky
Energy and Environment Cabinet
Department for Environmental Protection
Division for Air Quality
300 Sower Boulevard, 2nd Floor
Frankfort, Kentucky 40601
(502) 564-3999

Final

AIR QUALITY PERMIT

Issued under 401 KAR 52:030

Permittee Name:	**Kenton County Airport Board (KCAB)**
Mailing Address:	**PO Box 752000, Cincinnati, OH 45275-2000**
Source Name:	**Kenton County Airport Board (KCAB)**
Mailing Address:	**Cincinnati - Northern Kentucky International Airport 2939 Terminal Drive, Hebron, KY 41048**
Source Location:	**Same as Above**
Permit ID:	**F-17-051 R1**
Agency Interest #:	**197**
Activity ID:	**APE20200004**
Review Type:	**Conditional Major, Operating**
Source ID:	**21-015-00148**
Regional Office:	**Florence Regional Office** **8020 Veterans Memorial Drive, Suite 110** **Florence, KY 41042** **(859) 525-4923**
County:	**Boone**
Application Complete Date:	**August 11, 2017**
Issuance Date:	**March 30, 2019**
Revision Date:	**August 2, 2020**
Expiration Date:	**March 30, 2024**

Rick J. Shewekah

For Melissa Duff, Director
Division for Air Quality

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

Emission Unit 01 – 23: Natural Gas Fired Indirect Heat Exchangers

Description:

Emission Point	Location	Year Constructed	Operating Rate (MMBtu/hr)
EP-85	Field Maintenance Building #3	1976	3
EP-100	Terminal 3		3.12
EP-101	Concourse A		2.348
EP-105	Sign Shop		1.4
EP-111	CONRAC CSB	2021	2.5
EP-112	CONRAC CSB	2021	2.5
EP-33	T-3 Parking Garage	1989	1.47
EP-35	Terminal 3	1993	6.856
EP-36	Terminal 3		6.856
EP-37	Terminal 3		6.856
EP-38	Concourse B		6.68
EP-39	Concourse B		6.68
EP-40	Concourse B		6.68
EP-41	Concourse B		6.68
EP-42	Concourse B		6.68
EP-44	CVG Centre	1999	5
EP-45	CVG Centre		5
EP-52	Concourse A	2006	6
EP-53	Concourse A		6
EP-54	Concourse A	2007	2
EP-55	Concourse A		2
EP-56	Concourse A		2
EP-57	Concourse A		2

APPLICABLE REGULATIONS:

401 KAR 59:015, New indirect heat exchangers

1. **Operating Limitations:**

   During startup and shutdown periods, the permittee shall comply with 401 KAR 50:055, Section 2(5), during startup and shutdown periods [401 KAR 59:015, Section 7(1)(a)]. The permittee shall also comply with the work practice standards as follows:

   i) The frequency and duration of startup periods or shutdown periods shall be minimized by the affected facility [401 KAR 59:015, Section 7(1)(b)];

   ii) All reasonable steps shall be taken by the permittee to minimize the impact of emissions on ambient air quality from the affected facility during startup periods and shutdown periods [401 KAR 59:015, Section 7(1)(c)];

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 02: Diesel Fired Emergency Engines Pre June 12, 2006 units

Description:

Emission Point	Make/Model/	Manufacture Year	Commenced Constructed:	Operating Rate:
EG-04	Cummins 275DFML33483M	1989	9/20/1989	275 kW
EG-05	Cummins DFCB4490295	2000	6/30/2000	300 kW
EG-06	Cummins 12.5RooP81	Pre-2006	Pre-2006	12 kW
EG-07	Cummins 249-0152-03	1988	6/12/1988	300 kW
EG-08	Cummins KTA19G2	1990	6/1/1990	400 kW
EG-09	Cummins 285HC4AL/2A	1990	12/1/1990	230 kW
EG-10	Detroit 250DS60	1992	7/1/1992	250 kW
EG-12	Cummins 4BT8.9-G$	Pre-2006	Pre-2006	50 kW
EG-13	Cummins 6BT5.9-G1	1992	5/15/1992	80 kW
EG-14	Kohler 500OOVE-1	Pre-2006	Pre-2006	500 kW
EG-15	Kohler 500OOVE-1	Pre-2006	Pre-2006	500 kW
EG-17	Kohler 500OOVE-1	1992	2/2/1992	500 kW
EG-18	Kohler 500OOVE-1	Pre-2006	Pre-2006	500 kW
EG-19	Kohler 500ROZD71	1992	2/2/1992	500 kW
EG-20	Cummins 80DGDAL30441R	1990	2/2/1990	80 kW
EG-21	Detroit 20DSJ	Pre-2006	Pre-2006	26 kW
EG-22	Cummins DGEA-5002028	2000	2/2/2001	125 kW
EG-23	Kohler 750 ROZD4	2/28/2004	2/28/2004	750 kW
EG-24	Cummins 150DGFA-4823	2004	10/26/2004	150 kW
EG-26	Kohler 500REOZV	2003	10/1/2003	475 kW
EG-27	Cummins DGDA-5900486	Pre-2006	Pre-2006	80 kW
EG-28	Kohler 600ROZD71	1999	5/1/1999	600 kW
~~EG-29~~	~~Cummins DSGAA-545825~~	~~Pre-2006~~	~~Pre-2006~~	~~100 kW~~
EG-30	Cummins DSGAC-10088859	Pre-2006	Pre-2006	80 kW
EG-31	Kohler 300REOZD	1999	Pre-2006	410 kW

APPLICABLE REGULATIONS:

401 KAR 63:002, Section 2(4)(eeee), 40 CFR 63.6580 to 63.6675, Tables 1a to 8, and Appendix A (Subpart ZZZZ), National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Note: DC Circuit Court [*Delaware v. EPA*, 785 F. 3d 1 (DC Cir. 2015)] has vacated the provisions in 40 CFR 63, Subpart ZZZZ that contain the 100-hour exemption for operation of emergency engines for purposes of emergency demand response under 40 CFR 63.6640(f)(2)(ii)-(iii). The DC Circuit Court issued the mandate for the vacatur on May 4, 2016.

1. **Operating Limitations:**
   a) For the engines to be considered emergency stationary RICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If the engines are not operated according to the requirements below, the engines will not be considered emergency engines

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 03: Emergency Engines

Description:

Emission Point	Make/Model/	Manufacture Year	Commenced Constructed:	Operating Rate:
EG-02	Cummins DSGAB-1233093	2009	10/9/2009	75 kW
EG-11	Cummins OS87-G3 NR3	2008	12/3/2008	155 kW
~~EG-29~~	~~Cummins DSGAA-545825~~	~~2008~~	~~12/3/2008~~	~~100 kW~~
EG-32	Cummins DQDAC-1666149	2015	1/31/2017	300 kW
EG-33	Cummins DFEK - 2089515	2018	10/20/2021	500 kW

APPLICABLE REGULATIONS:

401 KAR 60:005, Section 2(2)(dddd), 40 CFR 60.4200 to 60.4219, Tables 1 to 8 (Subpart IIII), Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

401 KAR 63:002, Section 2(4)(eeee), 40 CFR 63.6580 to 63.6675, Tables 1a to 8, and Appendix A (Subpart ZZZZ), National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Note: DC Circuit Court [*Delaware v. EPA*, 785 F. 3d 1 (DC Cir. 2015)] has vacated the provisions in 40 CFR 63, Subpart ZZZZ and 40 CFR 60, Subpart IIII that contain the 100-hour exemption for operation of emergency engines for purposes of emergency demand response under 40 CFR 63.6640(f)(2)(ii)-(iii) and 60.4211(f)(2)(ii)-(iii). The DC Circuit Court issued the mandate for the vacatur on May 4, 2016.

1. **Operating Limitations:**
   a) The permittee shall operate the emergency engine according to the requirements below. In order for the engine to be considered an emergency engine, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If the permittee does not operate the engine according to the requirements below, the engine will not be considered an emergency engine under 40 CFR 60, Subpart IIII and shall meet all requirements for non-emergency engines.
      i) There is no time limit on the use of emergency engines in emergency situations [40 CFR 60.4211(f)(1)].
      ii) The permittee may operate the emergency engine for any combination of the purposes specified in 40 CFR 60.4211(f)(2)(ii) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4211(f)(iii) counts as part of the 100 hours per calendar year allowed by 40 CFR 60.4211(f)(ii) [40 CFR 60.4211(f)(2)]. Emergency engines may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency engine beyond 100 hours per calendar year [40 CFR 60.4211(f)(2)(i)].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 05: Cold Solvent Parts Washer

Description:
Manufacturer: Heritage-Crystal Clean, LLC
Model: K54107
Serial Number: 9041820
Solvent: Crystal Clean 106 Mineral Spirts
Construction Commenced: 2020

APPLICABLE REGULATIONS:
401 KAR 59:185, New solvent metal cleaning equipment

1. **Operating Limitations:**
   a) Waste solvent shall not be disposed of or transferred to another party so that greater than 20 percent by weight of the waste solvent can evaporate into the atmosphere. Waste solvent shall be stored only in covered containers [401 KAR 59:185, Section 4(2)(a)].

   b) The degreaser cover shall be closed if the operator is not handling parts in the cleaner [401 KAR 59:185, Section 4(2)(b)].

   c) Cleaned parts shall be drained for a minimum of 15 seconds, or until dripping ceases, whichever is longer [401 KAR 59:185, Section 4(2)(c)].

   d) The flushing of parts with a flexible hose or other flushing device shall be performed only within the freeboard area of the cold cleaner. The solvent flow shall be directed downward to avoid turbulence at the air-solvent interface so as to prevent the solvent from splashing outside of the cold cleaner [401 KAR 59:185, Section 4(2)(d)].

   e) Work area fans shall be positioned so that air is not directed across the opening of the cold cleaner [401 KAR 59:185, Section 4(2)(e)].

   f) The use of an air-agitated solvent bath is prohibited. A pump-agitated solvent bath shall be operated so as to produce no observable splashing of the solvent against either the tank wall or the parts that are being cleaned [401 KAR 59:185, Section 4(2)(f)].

   g) The cold cleaner shall be free of all liquid leaks. Auxiliary cleaning equipment such as pumps, water separators, steam traps, or distillation units shall not have any visible leaks, tears, or cracks [401 KAR 59:185, Section 4(2)(g)].

   h) Spills that occur during solvent transfer shall be cleaned immediately. Wipe rags, or other absorbent equipment and materials, used to clean the spill shall be stored in a covered container for disposal unless storage of these items is prohibited by fire protection authorities [401 KAR 59:185, Section 4(2)(h)].

2. **Emission Limitations:**
   NA

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. **Testing Requirements:**
Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2 and 401 KAR 50:045.

4. **Specific Monitoring Requirements:**
NA

5. **Specific Recordkeeping Requirements:**
NA

6. **Specific Reporting Requirements:**
See Section F – Monitoring, Recordkeeping, and Reporting Requirements.

7. **Specific Control Equipment Operating Conditions:**
a) The cleaners shall be equipped with a cover [401 KAR 59:185, Section 4(1)(a)].

b) The cleaner shall be equipped with a drainage facility so that solvent that drains off parts removed from the cleaner will return to the cleaner [401 KAR 59:185, Section 4(1)(b)].

c) A permanent, conspicuous label, summarizing the operating requirements specified in Subsection 1, Operating Limitations, shall be installed on or near the cleaner [401 KAR 59:185, Section 4(1)(c)].

d) If used, the solvent spray shall be a fluid stream, not a fine, atomized or shower type spray, and at a pressure that does not cause excessive splashing [401 KAR 59:185, Section 4(1)(d)].

Emission Unit 06: Gasoline Dispensing Facilities

Description:

Emission Point	Dispensers	Storage Tank	Operating Rate:
GDF #1 (EP-201)	D-01 D-02	UST Tank 29 (20,000-gal capacity)	< 100,000 gal/mo
GDF #2 (EP-202)	D-13 D-14	UST Tank 54 (10,000-gal capacity)	< 100,000 gal/mo

APPLICABLE REGULATIONS:

401 KAR 63:002, Section 2(4)(dddd), 40 CFR 63.11110-63.11132, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.

1. **Operating Limitations**
   a) To maintain the current classification of the gasoline tanks, the total monthly throughput of gasoline for each tank shall not exceed 100,000 gallons. [40 CFR 63.11111]

   b) If a GDF ever exceeds an applicable throughput threshold, the GDF will remain subject to the requirements for sources above the threshold, even if the affected source throughput later falls below the applicable throughput threshold. [40 CFR 63.11111(i)]

   c) The permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: [40 CFR 63.11116(a)]
      i) Minimize gasoline spills; [40 CFR 63.11116(a)(1)]
      ii) Clean up spills as expeditiously as practicable; [40 CFR 63.11116(a)(2)]
      iii) Cover all open gasoline containers and all gasoline storage fill-pipes with a gasketed seal when not in use; [40 CFR 63.11116(a)(3)]
      iv) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. [40 CFR 63.11116(a)(4)]

   d) With the exception of 40 CFR 63.11117(c), the permittee must only load gasoline into storage tanks at the facility by utilizing submerged filling, as defined in 40 CFR 63.11132, and as specified in 40 CFR 63.11117(b)(1), (b)(2), or (b)(3). The applicable distances 40 CFR 63.11117(b)(1) and (b)(2) shall be measured from the point in the opening of the submerged fill pipe that is the greatest distance from the bottom of the storage tank. [40 CFR 63.11117(b)]
      i) Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the tank [40 CFR 63.11117(b)(1)]
      ii) Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the tank. [40 CFR 63.11117(b)(2)]

iii) Submerged fill pipes not meeting the specifications of 40 CFR 63.11117(b)(1) and (b)(2) are allowed if the permittee can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe. Documentation providing such a demonstration must be made available for inspection by the Administrator's delegated representative during a site visit. [40 CFR 63.11117(b)(3)]

2. Emission Limitations:

None

3. Testing Requirements:

a) Performance testing conducted shall be conducted under such conditions as the Administrator specifies to the permittee based on representative performance (i.e., performance based on normal operating conditions) of each GDF. Upon request, the permittee shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests. [40 CFR 63.11120(c)]

4. Specific Monitoring Requirements:

None

5. Specific Recordkeeping Requirements:

a) Records shall be kept of the monthly throughput of the total gasoline to the tank. [401 KAR 52:030, Section 10]

~~a)~~b) Records shall be maintained of date and time of gasoline spills and clean-up efforts. [401 KAR 52:030, Section 10]

c) The permittee is not required to submit notifications or reports as specified in 40 CFR 63.11125, 40 CFR 63.11126, or subpart A of 40 CFR part 60, but the permittee must have records available within 24 hours of a request by the Administrator to document the gasoline throughput. Records required herein shall be kept for a period of 5 years. [40 CFR 63.11111(e) and 40 CFR 63.11116(b)]

6. Specific Reporting Requirements:

~~b)~~a) Each operator of a GDF under this subpart shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year, and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an operator during a malfunction of a GDF to minimize emissions in accordance with CFR 40 63.11115(a), including actions taken to correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred. [40 CFR 63.11126(b)]

b) See **Section F – Monitoring, Recordkeeping, and Reporting Requirements.**

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:030, Section 6. Although these activities are designated as insignificant the permittee must comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

Description	Generally Applicable Regulation
1. Propane Heaters/Heat Exchangers (< 1 MMBtu/hr)	N/A
2. Natural Gas Heaters/Heat Exchangers (< 1 MMBtu/hr)	N/A
~~1. EP-34 - Water Heater (0.75 MMBtu/hr)~~	~~N/A~~
~~2. EP-43 - Water Heater (0.365 MMBtu/hr)~~	~~N/A~~
~~3. EP-46 - Water tube Boiler (0.3359 MMBtu/hr)~~	~~N/A~~
~~4. EP-47 - Hot Water Heater (0.55 MMBtu/hr)~~	~~N/A~~
~~5. EP-48 - Cast Iron Boiler (0.343 MMBtu/hr)~~	~~N/A~~
~~6. EP-49 - Cast Iron Boiler (0.343 MMBtu/hr)~~	~~N/A~~
~~7. EP-50 - Water Tube Boiler (0.75 MMBtu/hr)~~	~~N/A~~
~~8. EP-51 - Water Tube Boiler (0.75 MMBtu/hr)~~	~~N/A~~
~~9. EP-60 - NG Office Heater Boiler (0.52 MMBtu/hr)~~	~~N/A~~
~~10. EP-61 - NG Hot Water Heater/Boiler (0.154 MMBtu/hr)~~	~~N/A~~
~~11. EP-62 - NG Heater (0.12 MMBtu/hr)~~	~~N/A~~
~~12. EP-63 - NG Heater (0.1 MMBtu/hr)~~	~~N/A~~
~~13. EP-64 - NG Hot Water Heater (0.18 MMBtu/hr)~~	~~N/A~~
~~14. EP-65 - For NG Reznor hanging heaters (0.4 MMBtu/hr)~~	~~N/A~~
~~15. EP-66 - NG rooftop unit (0.18 MMBtu/hr)~~	~~N/A~~
~~16. EP-67 - NG rooftop unit (0.12 MMBtu/hr)~~	~~N/A~~
~~17. EP-68 - NG unit (0.125 MMBtu/hr)~~	~~N/A~~
~~18. EP-69 - 4 Hangar NG IR heaters (0.8 MMBtu/hr)~~	~~N/A~~
~~19. EP-70 - 10 NG IR Heaters (4 MMBtu/hr)~~	~~N/A~~
~~20. EP-71 - NG Heater (0.5 MMBtu/hr)~~	~~N/A~~
~~21. EP-72 - NG AMU - Roof (0.5 MMBtu/hr)~~	~~N/A~~
~~22. EP-73 - NG Hot Water Heater (0.18 MMBtu/hr)~~	~~N/A~~
~~23. EP-74 - NG Hot Water Heater (0.18 MMBtu/hr)~~	~~N/A~~
~~24. EP-75 - NG Hot Water Heater (0.18 MMBtu/hr)~~	~~N/A~~
~~25. EP-76 - NG Hot Water Heater (0.18 MMBtu/hr)~~	~~N/A~~
~~26. EP-77 - NG Hot Water Heater (0.18 MMBtu/hr)~~	~~N/A~~
~~27. EP-78 - NG IR Heater (0.2 MMBtu/hr)~~	~~N/A~~
~~28. EP-79 - NG IR Heater (0.2 MMBtu/hr)~~	~~N/A~~
~~29. EP-80 - NG IR Heater (0.2 MMBtu/hr)~~	~~N/A~~
~~30. EP-81 - NG IR Heater (0.2 MMBtu/hr)~~	~~N/A~~
~~31. EP-82 - Rooftop NG Heater (0.18 MMBtu/hr)~~	~~N/A~~
~~32. EP-83 - Rooftop NG Heater (0.12 MMBtu/hr)~~	~~N/A~~
~~33. EP-84 - NG Water Heater (0.075 MMBtu/hr)~~	~~N/A~~
~~34. EP-86 - 10 NG IR Heaters (2 MMBtu/hr)~~	~~N/A~~
~~35. EP-87 - NG Heater (0.06 MMBtu/hr)~~	~~N/A~~
~~36. EP-88 - NG Furnace (0.044 MMBtu/hr)~~	~~N/A~~
~~37. EP-89 - NG Furnace (0.11 MMBtu/hr)~~	~~N/A~~

~~**SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)**~~

~~38. EP-90 - NG Furnace (0.044 MMBtu/hr)~~	~~N/A~~
~~39. EP-91 - Eight Propane hanging heaters (0.24 MMBtu/hr)~~	~~N/A~~
~~40. EP-92 - Five Propane heaters (0.125 MMBtu/hr)~~	~~N/A~~
~~41. EP-93 - Propane heater (0.05 MMBtu/hr)~~	~~N/A~~
~~42. EP-94 - NG hot water heater (0.042 MMBtu/hr)~~	~~N/A~~
~~43. EP-95 - NG hot water heater glycol treatment (0.15 MMBtu/hr)~~	~~N/A~~
~~44. EP-96 - NG hot water heater glycol treatment (0.15 MMBtu/hr)~~	~~N/A~~
~~45. EP-97 - NG Reznor Hot Air Heater (0.1 MMBtu/hr)~~	~~N/A~~
~~46. EP-98 - NG Reznor hot air heater (0.1 MMBtu/hr)~~	~~N/A~~
~~47. EP-99 - NG Reznor hot air heater (0.1 MMBtu/hr)~~	~~N/A~~
~~48. EP-102 - Ten NG IR Heaters (0.4 MMBtu/hr)~~	~~N/A~~
~~49. EP-103 - Three NG IR heaters (0.36 MMBtu/hr)~~	~~N/A~~
~~50. EP-104 - NG Hot Water Heater (0.075 MMBtu/hr)~~	~~N/A~~
~~51. EP-106 - Five NG Air Heaters (0.15 MMBtu/hr)~~	~~N/A~~
~~52. EP-107 - NG Hot Water Heater (0.075 MMBtu/hr)~~	~~N/A~~
~~53. EP-108 - NG Hot Water Heater (0.19999 MMBtu/hr)~~	~~N/A~~
~~54. EP-109 - NG Hot Water Heater (0.19999 MMBtu/hr)~~	~~N/A~~
~~55. EP-110 - Seven NG IR Heaters (1.4 MMBtu/hr)~~	~~N/A~~
~~56. EP-111 - Three NG Air Heaters (0.09 MMBtu/hr)~~	~~N/A~~
~~57. EP-112 - NG Air Heater (0.1 MMBtu/hr)~~	~~N/A~~
~~58. EP-113 - NG Air Heater (0.06 MMBtu/hr)~~	~~N/A~~
~~59. EP-114 - NG Air Heater (0.06 MMBtu/hr)~~	~~N/A~~
~~60. EP-115 - NG Air Heater (0.06 MMBtu/hr)~~	~~N/A~~
~~61. EP-116 - NG Air Heater (0.06 MMBtu/hr)~~	~~N/A~~
~~62. EP-117 - NG Air Heater (0.04 MMBtu/hr)~~	~~N/A~~
~~63. EP-118 - NG Air Heater (0.08 MMBtu/hr)~~	~~N/A~~
~~64. EP-119 - Two NG IR heaters (0.2 MMBtu/hr)~~	~~N/A~~
~~65. EP-120 - NG Hot Water Heater (0.16 MMBtu/hr)~~	~~N/A~~
~~66. EP-121 - NG Heater (0.08 MMBtu/hr)~~	~~N/A~~
~~67. EP-122 - NG Heater (0.06 MMBtu/hr)~~	~~N/A~~
~~68. EP-123 - NG Heater (0.04 MMBtu/hr)~~	~~N/A~~
~~69. EP-124 - NG Heaters (0.21 MMBtu/hr)~~	~~N/A~~
~~70. EP-125 - NG IR Heater (0.2 MMBtu/hr)~~	~~N/A~~
3. EP-126 - Spray Coating (0.05 gallon/hr)	401 KAR 59:010
4. EP-128 - Welding Operations	401 KAR 59:010
5. EP-129 - 100% Propylene Glycol Tank (4 – 20,000 gal)	N/A
6. EP-130 - 50% Propylene Glycol Tank (125,000 gal)	N/A
7. EP-131 - Propylene Glycol Evaporator with Condenser	N/A
8. EP-132 - 6% average propylene glycol tanks (19.5 million gallons)	N/A
9. EP-133 - Diesel Fuel Transfer & Dispensing Operation	N/A
10. EP-137 - Off-Road Diesel Fuel Transfer & Dispensing	N/A
~~11. EP-141 - Gasoline Fuel Transfer & Dispensing~~	~~N/A~~

Commented [JG1]: Moved to Section B. EU 06