

**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**

Draft

**AIR QUALITY PERMIT
Issued under 401 KAR 52:020**

Permittee Name: Murray State University
Mailing Address: 615 Gilbert Graves Drive, Murray, KY

Source Name: Murray State University
Mailing Address: 615 Gilbert Graves Drive, Murray, KY 42071

Source Location: 615 Gilbert Graves Drive, Murray, KY 42071

Permit ID: V-25-012
Agency Interest #: 37507
Activity ID: APE20240001
Review Type: Title V, Construction / Operating
Source ID: 21-035-00049

Regional Office: Paducah Regional Office
130 Eagle Nest Drive
Paducah, KY 42003
(270) 898-8468

County: Calloway

Application Complete Date: March 31, 2025
Issuance Date:
Expiration Date:



For Michael J. Kennedy, P.E.
Director
Division for Air Quality

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Permit	Permit Type	Activity#	Complete Date	Issuance Date	Summary of Action
V-25-012	Renewal	APE20240001	3/11/2025		The removal, moving replacement, adding new and renaming of multiple units

SECTION A – PERMIT AUTHORIZATIONS

Pursuant to a duly submitted application the Kentucky Energy and Environment Cabinet (Cabinet) hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit was issued under the provisions of Kentucky Revised Statutes (KRS) Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.

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

Emission Unit: EU01 Fourteen(14) Natural Gas Fired Emergency Generators

Description:

Name		Description	Capacity (MMBtu/hr)	Date of Construction
1	Alexander Hall (previously “Alexander”)	Natural Gas - Fired Emergency Generator	0.343	2002
2	Applied Science (previously “Applied”)		0.140	1993
3	Blackburn Science (previously “Blackburn”)		0.078	1966
4	Collins I&T Entire Building (previously “I&T”)		0.209	1990
5	Lowry Center		0.170	1965
6	Old Fine Arts		0.170	1974
7	Pogue Library		0.209	1973
8	SSC Building		0.068	1999
9	Stewart Stadium		0.343	2004
10	Student Rec & Wellness Center (previously “Rec and Wellness”)		0.209	1968
11	Waterfield Library		0.343	1976
12	Wilson Hall		0.170	2001
13	Winslow Dining Hall (previously “Winslow”)		0.079	1961
14	WM Bill Cherry Agriculture Exposition Center (previously “West Expo”)		0.078	1996
TOTAL			2.609	

APPLICABLE REGULATIONS:

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

PRECLUDED REGULATIONS:

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

1. Operating Limitations:

The permittee shall operate these units according to the following requirements to ensure that they meet the definition of "emergency stationary RICE" in 40 CFR 63.6675 in order to be considered emergency stationary RICE. [40 CFR 63.6585 (f) (3); 63.6675; and 63.6640(f)]

- There is no time limit on the use of emergency stationary RICE emergency situations [40 CFR 63.6640(f)(1)].
- The permittee may operate each of the engines for a maximum of 100 hours per calendar year 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 owner or operator 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 owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of

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

emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2) and 63.6640(f)(2)(i)]

- c. The permittee may operate each of the engines for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in 40 CFR 63.6640(f)(2). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 63.6585(f)(3) and 40 CFR 63.6640(f)(4)]

2. Emission Limitations:

Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the cabinet. [401 KAR 63:020, Section 3]

Compliance Demonstration Method:

Based upon the emission rates of toxics and hazardous air pollutants determined by the Cabinet using information provided in the application and supplemental information submitted by the source, the Cabinet determines the affected facility to be in compliance with 401 KAR 63:020.

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:

- a. The permittee shall monitor fuel usage (MMscf) for this emission unit on a monthly basis. [401 KAR 52:020, Section 10]
- b. The permittee shall monitor the hours of operation of each engine on a monthly basis. [401 KAR 52:020, Section 10]

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of fuel usage (MMscf) for this emission unit on a monthly basis. [401 KAR 52:020, Section 10]
- b. The permittee shall maintain records of hours of operation of each engine on a monthly basis. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours were spent for non-emergency operation. [401 KAR 52:020, Section 10]

6. Specific Reporting Requirements:

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

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

Emission Unit: EU02 **Nine(9) Diesel Fired Emergency Generators**

Description:

Name		Description	Capacity (HP)	Date of Construction
1	Biology Building (previously "Biological Science")	Diesel-Fired Emergency Generator	560	2003
2	Business Building (previously "Business")		87	1993
3	Collins I&T Comp Room (previously "I&T Comp Room")		600	2002
4	Elizabeth College		355	2004
5	Faculty Hall		277	1999
6	General Services Building - Telecommunications Center (previously "Telecomm")		600	2002
7	Hart College		355	2005
8	Hester College		355	2004
9	Wrather West Kentucky Museum (previously "Wrather")		24	1960
TOTAL			3,163	

APPLICABLE REGULATIONS:

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

PRECLUDED REGULATIONS:

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

1. Operating Limitations:

The permittee shall operate these units according to the following requirements to ensure that they meet the definition of "emergency stationary RICE" in 40 CFR 63.6675 in order to be considered emergency stationary RICE. [40 CFR 63.6585(f)(3); 63.6675; and 63.6640(f)]

- There is no time limit on the use of emergency stationary RICE emergency situations [40 CFR 63.6640(f)(1)].
- The permittee may operate each of the engines for a maximum of 100 hours per calendar year 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 owner or operator 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 owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2)]
- The permittee may be operate each of the engines for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in 40 CFR 63.6640(f)(2). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility

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

to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 63.6585(f)(3) and 40 CFR 63.6640(f)(4)]

2. Emission Limitations:

Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the cabinet. [401 KAR 63:020, Section 3]

Compliance Demonstration Method:

Based upon the emission rates of toxics and hazardous air pollutants determined by the Cabinet using information provided in the application and supplemental information submitted by the source, the Cabinet determines the affected facility to be in compliance with 401 KAR 63:020.

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 4].

4. Specific Monitoring Requirements:

- a. The permittee shall monitor fuel usage (gallons) for this emission unit on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee shall monitor the hours of operation of each engine on a monthly basis. [401 KAR 52:020, Section 10]

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of fuel usage (gallons) for this emission unit on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee shall maintain records of hours of operation of each engine on a monthly basis. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours were spent for non-emergency operation. [401 KAR 52:020, Section 10]

6. Specific Reporting Requirements:

See Section F – Monitoring, Recordkeeping and Reporting Requirements.

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

Emission Unit: EU03 Twenty(20) Diesel Fired Emergency Generators

Description:

Name		Description	Capacity (HP)	Date of Construction
1	Carr Hall (previously “Carr Health”)	Diesel-Fired Emergency Generator	107	2024
2	Central Plant		544	2014
3	CFSB Center (previously “CFSB (RSEC)”)		390	2016
4	Chemistry		483	2006
5	Curris Center		87	2015
6	Doyle Fine Arts - Life Safety Generator (previously “Doyle Fine Arts Life Safety”)		175	2016
7	Doyle Fine Arts - Fire Pump Generator (previously “Doyle Fine Arts Fire Pump”)		169	2016
8	Engineering and Physics		313	2017
9	Hancock Biological at Kentucky Lake		34	2014
10	Hollis Franklin College (previously “Hollis Franklin”)		139	2016
11	Housing (3 MW - Serving all Dorms)		3,285	2009
12	JH Richmond		237	2019
13	Lee Clark College		191	2007
14	Lovett Auditorium		40	2023
15	Mason Hall		40	2025
16	MSU Police Department (previously “Public Safety”)		87	2009
17	Regents College		355	2007
18	Sparks Hall		54	2018
19	Wells Hall		20	2017
20	White College		355	2007
TOTAL			7,105	

APPLICABLE REGULATIONS:

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

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

1. Operating Limitations:

- a. The permittee shall meet the requirements of 40 CFR Part 63 by meeting the requirements of 40 CFR 60, Subpart IIII. No further requirements apply under 40 CFR Part 63. [40 CFR 63.6590(c) and 63.6590(c)(1)]

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

- b. The permittee shall operate and maintain the stationary CI ICE in a manner to achieve the emission standards required by 40 CFR 60.4205 over the entire life of the engine [40 CFR 60.4206].
- c. The permittee shall use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted [40 CFR 60.4207(b)].
- d. The CI internal combustion engines shall be operated and maintained according to the manufacturer's emission-related written instructions, changing only those emission-related settings that are permitted by the manufacturer [40 CFR 60.4211(a)].
- e. The permittee shall operate the emergency stationary ICE according to the requirements in 40 CFR 60.4211(f)(1) through (3). In order for the engines to be considered an emergency stationary ICE under 40 CFR 60, Subpart IIII, 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 in 40 CFR 60.4211(f)(1) through (3), is prohibited. If the engines are not operated according to the requirements in 40 CFR 60.4211(f)(1) through (3), the engines will not be considered emergency engines under 40 CFR 60, Subpart IIII and shall meet all requirements for non-emergency engines. [40 CFR 60.4211(f)]
 - i. There is no time limit on the use of emergency stationary ICE in emergency situations. [40 CFR 60.4211(f)(1)]
 - ii. The permittee may operate the emergency stationary ICE for a maximum of 100 hours per calendar year 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 owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4211(f)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR 60.4211(f)(2). [40 CFR 60.4211(f)(2) and 60.4211(f)(2)(i)]
 - iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in 40 CFR 60.4211(f)(2). Except as provided in 40 CFR 60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: [40 CFR 60.4211(f)(3) and 60.4211(f)(3)(i)]
 - 1. The engine is dispatched by the local balancing authority or local transmission and distribution system operator; [40 CFR 60.4211(f)(3)(i)(A)]

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

2. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region [40 CFR 60.4211(f)(3)(i)(B)].
3. The dispatch follow reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines [40 CFR 60.4211(f)(3)(i)(C)].
4. The power is provided only to the facility itself or to support the local transmission and distribution system [40 CFR 60.4211(f)(3)(i)(D)].
5. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator. [40 CFR 60.4211(f)(3)(i)(E)]

2. Emission Limitations:

- a. The permittee shall, comply with the certification emission standards for new nonroad CI engines less than 37 KW (50 HP) in 40 CFR 1039.104, 1039.105, 1039.107, 1039.115, Table 2 to Subpart IIII of part 60, as applicable for all pollutants, for the same model year and maximum engine power. [40 CFR 60.4202(a)(1)(ii)]
- b. The permittee shall, comply with the Tier 2 or Tier 3 emission standards for new nonroad CI engines greater than or equal to 37 KW (50 HP) in 40 CFR Part 1039 Appendix I and 40CFR 1039.105, as applicable for all pollutants, for the same model year and maximum engine power. [40 CFR 60.4202(a)(2)]

Compliance Demonstration Method:

The permittee shall comply with the emission standards specified in 40 CFR 60.4205(b) by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b) for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g) [40 CFR 60.4211(c)].

- c. The permittee shall operate and maintain the stationary CI ICE in a manner to achieve the emission standards required by 40 CFR 60.4205 over the entire life of the engine [40 CFR 60.4206].

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:

- a. The permittee shall monitor hours of operation and fuel usage (gallons) for this emission unit on a monthly basis [401 KAR 52:020, Section 10].
- b. If any of these engines is equipped with a particulate matter filter, the permittee shall also install a backpressure monitor that notifies the permittee when the high backpressure limit of the engine is approached [40 CFR 60.4209(b)].

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

- c. The permittee shall install non-resettable hour meters prior to startup of the engines [40 CFR 60.4209(a)].

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of hours of operation and fuel usage (gallons) for this emission unit on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee is not required to submit an initial notification. However, records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter shall be kept. The permittee shall record the time of operation of the engine and the reason the engine was in operation during that time [40 CFR 60.4214(b)].
- c. For an emergency stationary CI ICE with a maximum engine power more than 100 hp, that operates for the purpose specified in 40 CFR 60.4211(f)(3)(i), the permittee shall submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3) [40 CFR 60.4214(d)].
 - i. The report shall contain the following information: [40 CFR 60.4214(d)(1)]
 - 1. Company name and address where the engine is located. [40 CFR 60.4214(d)(1)(i)]
 - 2. Date of the report and beginning and ending dates of the reporting period. [40 CFR 60.4214(d)(1)(ii)]
 - 3. Engine site rating and model year. [40 CFR 60.4214(d)(1)(iii)]
 - 4. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place. [40 CFR 60.4214(d)(1)(iv)]
 - 5. Hours spent for operation for the purposes specified in 40 CFR 60.4211(f)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 60.4211(f)(3)(i). The report shall also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine. [40 CFR 60.4214(d)(1)(vii)]
 - ii. The first annual report shall cover the calendar year 2015 and shall be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year shall be submitted no later than March 31 of the following calendar year. [40 CFR 60.4214(d)(2)]
 - iii. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4. Beginning on February 26, 2025, submit annual report electronically according to 40 CFR 60.4214(g). [40 CFR 60.4214(d)(3)]

6. Specific Reporting Requirements:

- a. If the emergency engines operate for the purposes specified in 40 CFR 60.4211(f)(3)(i), the permittee shall submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3) [40 CFR 60.4214(d)].

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

- b. If the permittee is required to submit notifications or reports to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as CBI. Although we do not expect persons to assert a claim of CBI, if you wish to assert a CBI claim for some of the information in the report or notification, you must submit a complete file in the format specified in this subpart, including information claimed to be CBI, to the EPA following the procedures in 40 CFR 60.4214(g)(1) and (2). Clearly mark the part or all of the information that you claim to be CBI. [40 CFR 60.4214(g)].
- c. See **Section F – Monitoring, Recordkeeping, and Reporting Requirements** for further requirements.

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

Emission Unit: EU04 Two(2) Existing Natural Gas Fired Indirect Heat Exchangers

Description:

Name		Description	Capacity (MMBtu/hr)	Date of Construction
1	Mason Hall (previously “Mason”)	Natural Gas Fired Indirect Heat Exchangers	1.68	1966
2	Mason Hall (previously “Mason”)		1.68	1966
TOTAL			3.36	

APPLICABLE REGULATIONS:

401 KAR 61:015, Existing Indirect Heat Exchangers

1. Operating Limitations:

During a startup period or shutdown period, the permittee shall comply with the work practice standards established in 401 KAR 61:015, Section 9. [401 KAR 61:015, Section 9]

- The permittee shall comply with 401 KAR 50:055, Section 2(5); [401 KAR 61:015, Section 9(1)(a)]
- The frequency and duration of startup periods or shutdown periods shall be minimized by the affected facility; [401 KAR 61:015, Section 9(1)(b)]
- 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 61:015, Section 9(1)(c)]
- The actions, including duration of the startup period, of the permittee during startup and shutdown periods, shall be documented in signed, contemporaneous logs or other relevant evidence [401 KAR 61:015, Section 9(1)(d)];
- Startups and shutdowns shall be conducted according to either: [401 KAR 61:015, Section 9(1)(e)]
 - The manufacturer's recommended procedures; or [401 KAR 61:015, Section 9(1)(e)1.]
 - Recommended procedures for a unit of similar design, for which manufacturer's recommended procedure are available, as approve by the cabinet based on documentation provided by the permittee of the affected facility. [401 KAR 61:015, Section 9 (1)(e)2.]

Compliance Demonstration Method:

Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements (b).**

2. Emission Limitations:

- Particulate matter emissions from each unit shall not exceed: [401 KAR 61:015, Section 4(1)(a), referencing 401 KAR 61:015 Appendix A].

Name		PM Emission Limitation
1	Mason Hall (previously "Mason")	0.45 lb/MMBtu
2	Mason Hall (previously "Mason")	0.45 lb/MMBtu

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

- b. Emissions from each unit shall not exceed twenty percent opacity, except: [401 KAR 61:015, Section 4(b)]
 - i. A maximum of forty percent opacity shall be permissible for not more than one (1) six (6)-minute period in any sixty (60)-consecutive minutes. [401 KAR 61:015, Section 4(b)1.]
 - ii. For emissions from an indirect heat exchanger during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 61:015, Section 4(1)(c)3.].
- c. Sulfur dioxide emissions of each unit shall not exceed: [401 KAR 61:015, Section 5 (1) referencing 401 KAR 61:015 Appendix B].

Name		SO ₂ Emission Limitation
1	Mason Hall (previously "Mason")	5.32 lb/MMBtu
2	Mason Hall (previously "Mason")	5.32 lb/MMBtu

Compliance Demonstration Method:

These units are considered to be in compliance with particulate matter, opacity, and sulfur dioxide emission standards while burning only natural gas.

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 4].

4. Specific Monitoring Requirements:

The permittee shall monitor natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].
- b. The actions, including duration of the startup period, of the permittee during startup and shutdown periods, shall be documented in signed, contemporaneous logs or other relevant evidence [401 KAR 52:020, Section 10].

6. Specific Reporting Requirements:

See Section F - Monitoring, Recordkeeping and Reporting Requirements.

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

Emission Unit: EU05 Forty-One(41) Natural Gas Fired Indirect Heat Exchangers

Description:

EU05 - Emission Units:		Capacity (MMBtu/hr)	Date of Construction
1	Alexander Hall - Heating Boiler 1 of 2 (previously "Alexander 1")	2.9	2019
2	Alexander Hall - Heating Boiler 2 of 2 (previously "Alexander 2")	2.9	2019
3	Carr Hall Boiler 1 of 3 (Previously Carr Health)	2.0	2025
4	Carr Hall Boiler 2 of 3 (Previously Carr Health)	2.0	2025
5	Carr Hall Boiler 3 of 3 (Previously Carr Health)	2.0	2025
6	CFSB Center Boiler 1 of 3 (previously "CFSB")	1.9	2019
7	CFSB Center Boiler 2 of 3 (previously "CFSB")	1.9	2019
8	CFSB Center Boiler 3 of 3 (previously "CFSB")	1.9	2019
9	Collins I&T Entire Building 1 of 2	3.0	2021
10	Collins I&T Entire Building 2 of 2	3.0	2021
11	Curris Center - Heating Boiler 1 of 2	1.5	2021
12	Curris Center - Heating Boiler 2 of 2	1.5	2021
13	Elizabeth College - Heating Boiler 1 of 2 (previously "Elizabeth Hall")	1.25	2012
14	Elizabeth College - Heating Boiler 2 of 2 (previously "Elizabeth Hall")	1.25	2012
15	General Services Building 1 of 2 (previously "General Services")	2.0	2008
16	General Services Building 2 of 2 (previously "General Services")	2.0	2008
17	Hart College - DWH Boiler (previously "Hart Hall")	1.26	1999
18	Hester College 1 of 3	1.658	2009
19	Hester College 2 of 3	1.658	2009
20	Hester College 3 of 3	1.0	1985
21	Hollis Franklin College 1 of 3 (previously "HC Franklin 1")	2.5	2015
22	Hollis Franklin College 2 of 3 (previously "HC Franklin 2")	2.5	2015
23	Hollis Franklin College 3 of 3 (previously "HC Franklin 3")	2.5	2015
24	Lovett Auditorium 1 of 2	1.5	2022
25	Lovett Auditorium 2 of 2	1.5	2022
26	Old Fine Arts Boiler 1 of 3	2.0	2025
27	Old Fine Arts Boiler 2 of 3	2.0	2025
28	Old Fine Arts Boiler 3 of 3	2.0	2025
29	Regents College (previously "Regents")	1.47	2010
30	Regents College Boiler 1 of 2 (previously "Regents")	4.0	2025
31	Regents College Boiler 2 of 2 (previously "Regents")	4.0	2025
32	Sparks Hall 1 of 2	1.95	2014
33	Sparks Hall 2 of 2	1.95	2014
34	Stewart Stadium	5.95	1974
35	Waterfield Library 1 of 2	2.0	2016
36	Waterfield Library 2 of 2	2.0	2016

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

37	White College (previously "White Hall")	1.47	2008
38	White College Boiler 1 of 2 (previously "White")	4.0	2023
39	White College Boiler 2 of 2 (previously "White")	4.0	2023
40	WM Bill Cherry Agriculture Exposition Center 1 of 2 (previously "Expo Center 1")	2.73	1997
41	WM Bill Cherry Agriculture Exposition Center 2 of 2 (previously "Expo Center 2")	2.73	1997
TOTAL		93.326	

APPLICABLE REGULATIONS:

401 KAR 59:015, *New Indirect Heat Exchangers*

1. Operating Limitations:

During a startup period or a shutdown period, the permittee shall comply with the work practice standards established in 401 KAR 59:015, Section 7. [401 KAR 59:015, Section 7]

- a. The permittee shall comply with 401 KAR 50:055, Section 2(5); [401 KAR 59:015, Section 7(1)(a)]
- b. 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)]
- c. 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 or shutdown periods; [401 KAR 59:015, Section 7(1)(c)]
- d. The actions, including duration of the startup period, of the permittee during startup and shutdown periods, shall be documented in signed, contemporaneous logs or other relevant evidence [401 KAR 59:015, Section 7(1)(d)];
- e. Startups and shutdowns shall be conducted according to either: [401 KAR 59:015, Section 7(1)(e)]
 - i. The manufacturer's recommended procedures; or [401 KAR 59:015, Section 7(1)(e)1.]
 - ii. Recommended procedures for a unit of similar design, for which manufacturer's recommended procedures are available, as approved by the cabinet based on documentation provided by the permittee [401 KAR 59:015, Section 7(1)(e)2.]

Compliance Demonstration Method:

Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements** (b).

2. Emission Limitations:

- a. Particulate matter emissions from each unit shall not exceed limits shown in Table "EU05 - PM and SO₂ Emission Limitation" below: [401 KAR 59:015, Section 4(1)(c)]
- b. Sulfur dioxide emissions from the following units shall not exceed limits shown in Table "EU05 - PM and SO₂ Emission Limitation" below [401 KAR 59:015, Section 5(1)(c)(2)(b)].

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

Table: EU05 - PM and SO₂ Emission Limitation

EU05 - Emission Units:		Emission Limitation (lb/MMBtu)	
		PM	SO ₂
1	Alexander Hall - Heating Boiler 1 of 2 (previously "Alexander 1")	0.30	0.98
2	Alexander Hall - Heating Boiler 2 of 2 (previously "Alexander 2")	0.30	0.98
3	Carr Health Boiler 1 of 3	0.29	0.95
4	Carr Health Boiler 2 of 3	0.29	0.95
5	Carr Health Boiler 3 of 3	0.29	0.95
6	CFSB Center Boiler 1 of 3 (previously "CFSB")	0.30	0.98
7	CFSB Center Boiler 2 of 3 (previously "CFSB")	0.30	0.98
8	CFSB Center Boiler 3 of 3 (previously "CFSB")	0.30	0.98
9	Collins I&T Entire Building 1 of 2	0.29	0.97
10	Collins I&T Entire Building 2 of 2	0.29	0.97
11	Curris Center - Heating Boiler 1 of 2	0.29	0.97
12	Curris Center - Heating Boiler 2 of 2	0.29	0.97
13	Elizabeth College - Heating Boiler 1 of 2 (previously "Elizabeth Hall")	0.30	1.01
14	Elizabeth College - Heating Boiler 2 of 2 (previously "Elizabeth Hall")	0.30	1.01
15	General Services Building 1 of 2 (previously "General Services")	0.31	1.04
16	General Services Building 2 of 2 (previously "General Services")	0.31	1.04
17	Hart College - DWH Boiler (previously "Hart Hall")	0.33	1.20
18	Hester College 1 of 3	0.30	1.02
19	Hester College 2 of 3	0.30	1.02
20	Hester College 3 of 3	0.30	1.00
21	Hollis Franklin College 1 of 3 (previously "HC Franklin 1")	0.30	0.98
22	Hollis Franklin College 2 of 3 (previously "HC Franklin 2")	0.30	0.98
23	Hollis Franklin College 3 of 3 (previously "HC Franklin 3")	0.30	0.98
24	Lovett Auditorium 1 of 2	0.29	0.96
25	Lovett Auditorium 2 of 2	0.29	0.96
26	Old Fine Arts Boiler 1 of 3	0.29	0.95
27	Old Fine Arts Boiler 2 of 3	0.29	0.95
28	Old Fine Arts Boiler 3 of 3	0.29	0.95
29	Regents College (previously "Regents")	0.30	1.01
30	Regents College Boiler 1 of 2 (previously "Regents")	0.29	0.95
31	Regents College Boiler 2 of 2 (previously "Regents")	0.29	0.95
32	Sparks Hall 1 of 2	0.30	0.99
33	Sparks Hall 2 of 2	0.30	0.99
34	Stewart Stadium	0.36	1.42
35	Waterfield Library 1 of 2	0.29	0.97
36	Waterfield Library 2 of 2	0.29	0.97
37	White College (previously "White Hall")	0.31	1.04
38	White College Boiler 1 of 2 (previously "White")	0.29	0.96

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

EU05 - Emission Units:		Emission Limitation (lb/MMBtu)	
		PM	SO ₂
39	White College Boiler 2 of 2 (previously "White")	0.29	0.96
40	WM Bill Cherry Agriculture Exposition Center 1 of 2 (previously "Expo Center 1")	0.33	1.20
41	WM Bill Cherry Agriculture Exposition Center 2 of 2 (previously "Expo Center 2")	0.33	1.20

- c. Emissions from each unit shall not exceed twenty percent opacity, except: [401 KAR 59:015, Section 4(2)]
 - i. A maximum of forty percent opacity shall be permissible for not more than one (1) six (6)-minute period in any sixty (60)-consecutive minutes. [401 KAR 59:015, Section 4(2)(b)]
 - ii. For emissions from an indirect heat exchanger during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4(2)(c)].

Compliance Demonstration Method:

These units are considered to be in compliance with particulate matter, opacity, and sulfur dioxide emission standards while burning only natural gas.

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1 and 401 KAR 59:005, Section 2(2)].

4. Specific Monitoring Requirements:

The permittee shall monitor natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee shall keep records of the manufacturer's recommended procedures for startup and shutdown, any instance in which the recommended procedures were not followed, and any corrective action taken [401 KAR 52:020, Section 10].)

6. Specific Reporting Requirements:

See **Section F - Monitoring, Recordkeeping and Reporting Requirements.**

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

Emission Unit: EU06 **Six(6) Natural Gas Indirect Heat Exchangers**

EU06 - Emission Units:	Description	Capacity (MMBtu/hr)	Date of Construction
Biology Building - Boiler 1 of 6 (previously “Bio Sciences”)	Natural Gas Indirect Heat Exchanger	4.0	2025 (Tentatively)
Biology Building - Boiler 2 of 6 (previously “Bio Sciences”)		4.0	
Biology Building - Boiler 3 of 6 (previously “Bio Sciences”)		4.0	
Biology Building - Boiler 4 of 6 (previously “Bio Sciences”)		4.0	
Biology Building - Boiler 5 of 6 (previously “Bio Sciences”)		4.0	
Biology Building - Boiler 6 of 6 (previously “Bio Sciences”)		4.0	
TOTAL		24.0	

APPLICABLE REGULATIONS:

401 KAR 59:015, *New Indirect Heat Exchangers*

401 KAR 60:005, Section 2(2)(d), 40 C.F.R. 60.40c through 60.48c (**Subpart Dc**), *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*

1. Operating Limitations:

During a startup period or a shutdown period, the permittee shall comply with the work practice standards established in 401 KAR 59:015, Section 7. [401 KAR 59:015, Section 7]

- a. The permittee shall comply with 401 KAR 50:055, Section 2(5); [401 KAR 59:015, Section 7(1)(a)]
- b. 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)]
- c. 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 or shutdown periods; [401 KAR 59:015, Section 7(1)(c)]
- d. The actions, including duration of the startup period, of the permittee during startup and shutdown periods, shall be documented in signed, contemporaneous logs or other relevant evidence; [401 KAR 59:015, Section 7(1)(d)]
- e. Startups and shutdowns shall be conducted according to either: [401 KAR 59:015, Section 7(1)(e)]
 - i. The manufacturer's recommended procedures; or [401 KAR 59:015, Section 7(1)(e)1.]
 - ii. Recommended procedures for a unit of similar design, for which manufacturer's recommended procedures are available, as approved by the cabinet based on documentation provided by the permittee [401 KAR 59:015, Section 7(1)(e)2.]

Compliance Demonstration Method:

Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements** (c).

2. Emission Limitations:

- a. Particulate matter emissions from each unit shall not exceed limits shown in Table "EU06 - PM and SO₂ Emission Limitation" below: [401 KAR 59:015, Section 4(1)(c)]:

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

- b. Sulfur dioxide emissions from the following units shall not exceed limits shown in Table “EU06 - PM and SO₂ Emission Limitation” below [401 KAR 59:015, Section 5(1)(c)2.b.].

Table: EU06 - PM and SO₂ Emission Limitation

EU06 - Emission Units:		Emission Limitation (lb/MMBtu)	
		PM	SO ₂
1	Biology Building - Boiler 1 of 6 (previously “Bio Sciences”)	0.29	0.95
2	Biology Building - Boiler 2 of 6 (previously “Bio Sciences”)	0.29	0.95
3	Biology Building - Boiler 3 of 6 (previously “Bio Sciences”)	0.29	0.95
4	Biology Building - Boiler 4 of 6 (previously “Bio Sciences”)	0.29	0.95
5	Biology Building - Boiler 5 of 6 (previously “Bio Sciences”)	0.29	0.95
6	Biology Building - Boiler 6 of 6 (previously “Bio Sciences”)	0.29	0.95

- c. Emissions from each unit shall not exceed twenty percent opacity, except: [401 KAR 59:015, Section 4(2)]
- A maximum of forty percent opacity shall be permissible for not more than one (1) six (6)-minute period in any sixty (60)-consecutive minutes. [401 KAR 59:015, Section 4 (2)(b)]
 - For emissions from an indirect heat exchanger during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer’s recommendations [401 KAR 59:015, Section 4 (2) (c)].

Compliance Demonstration Method:

These units are considered to be in compliance with particulate matter, opacity, and sulfur dioxide emission standards while burning only natural gas.

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1 and 401 KAR 59:005, Section 2(2)].

4. Specific Monitoring Requirements:

The permittee shall monitor natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].

5. Specific Recordkeeping Requirements:

- The permittee shall maintain records of natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].
- The permittee shall record and maintain records of the fuel combusted in these emission units during each calendar month [40 CFR 60.48c(g)(1)].
- The permittee shall keep records of the manufacturer’s recommended procedures for startup and shutdown, any instance in which the recommended procedures were not followed, and any corrective action taken [401 KAR 52:020, Section 10].

6. Specific Reporting Requirements:

See **Section F, Monitoring, Recordkeeping and Reporting Requirements.**

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

Emission Unit: EU07 One(1) Existing Natural Gas Fired Indirect Heat Exchanger

Description:

Name	Description	Capacity (MMBtu/hr)	Date of Construction
Central Plant - East Heating Boiler (Boiler #1) (previously "Central Plant (Heating Boiler))	Existing Natural Gas Indirect Heat Exchanger	20.085	1970

APPLICABLE REGULATIONS:

401 KAR 61:015, Existing Indirect Heat Exchangers

1. Operating Limitations:

During a startup period or shutdown period, the permittee shall comply with the work practice standards established in 401 KAR 61:015, Section 9. [401 KAR 61:015, Section 9]

- a. The permittee shall comply with 401 KAR 50:055, Section 2 (5); [401 KAR 61:015, Section 9(1)(a)]
- b. The frequency and duration of startup periods or shutdown periods shall be minimized by the affected facility; [401 KAR 61:015, Section 9(1)(b)]
- c. 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 61:015, Section 9(1)(c)]
- d. The actions, including duration of the startup period, of the permittee during startup and shutdown periods, shall be documented in signed, contemporaneous logs or other relevant evidence [401 KAR 59:015, Section 7(1)(d)];
- e. Startups and shutdowns shall be conducted according to either: [401 KAR 61:015, Section 9(1)(e)]
 - i. The manufacturer's recommended procedures; or [401 KAR 61:015, Section 9(1)(e)1.]
 - ii. Recommended procedures for a unit of similar design, for which manufacturer's recommended procedure are available, as approve by the cabinet based on documentation provided by the permittee of the affected facility. [401 KAR 61:015, Section 9(1)(e)2.]

Compliance Demonstration Method:

Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements** (b).

2. Emission Limitations:

- a. Particulate matter emissions from this unit shall not exceed 0.37 lb/MMBtu. [401 KAR 61:015, Section 4(1)(a), referencing 401 KAR 61:015 Appendix A];
- b. Emissions from this unit shall not exceed twenty percent opacity, except: [401 KAR 61:015, Section 4 (b)]
 - i. A maximum of forty percent opacity shall be permissible for not more than one (1) six (6)-minute period in any sixty (60)-consecutive minutes. [401 KAR 61:015, Section 4 (b) 1.]

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

- ii. For emissions from an indirect heat exchanger during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 61:015, Section 4(1)(c)(3)].
- c. Sulfur dioxide emissions from the unit shall not exceed 4.83 lb/MMBtu [401 KAR 61:015, Section 5 (1) referencing 401 KAR 61:015 Appendix B]:

Compliance Demonstration Method:

This unit is considered to be in compliance with particulate matter, opacity, and sulfur dioxide emission standards while burning only natural gas.

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 4].

4. Specific Monitoring Requirements:

The permittee shall monitor natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee shall keep records of the manufacturer's recommended procedures for startup and shutdown, any instance in which the recommended procedures were not followed, and any corrective action taken [401 KAR 52:020, Section 10].

6. Specific Reporting Requirements:

See **Section F - Monitoring, Recordkeeping and Reporting Requirements.**

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

Emission Unit: EU08 **One(1) Natural Gas Fired Emergency Generator**

Description:

Name	Description	Capacity (MMBtu/hr)	Date of Construction
Facilities Management	Natural Gas Fired Emergency Generator	0.656	2015

APPLICABLE REGULATIONS:

401 KAR 60:005, Section 2(2)(eeee) 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (**Subpart JJJJ**), *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines*

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

1. Operating Limitations:

- a. The permittee shall meet the requirements of 40 CFR Part 63 by meeting the requirements of 40 CFR 60, Subpart JJJJ. No further requirements apply under 40 CFR Part 63. [40 CFR 63.6590(c) and 63.6590(c)(1)]
- b. The permittee shall operate and maintain the stationary SI ICE such that the emission standards required in 40 CFR 60.4233 are achieved over the entire life of the engine. [40 CFR 60.4234]
- c. If the certified stationary SI internal combustion engine and control device are not operated and maintained according to the manufacture's emission-related written instructions, the engine will be considered a non-certified engine, and compliance shall be demonstrated according to (a)(2)(i) through (iii) of 40 CFR 60.4243, as appropriate. [40 CFR 60.4243(a)(2)]
- d. The permittee shall operate the emergency stationary ICE according to the requirements in paragraphs (d)(1) through (3) of 40 CFR 60.4243. In order for the engine to be considered an emergency stationary ICE under 40 CFR 60, Subpart JJJJ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (d)(1) through (3) of 40 CFR 60.4243, is prohibited. If the engine is not operated according to the requirements in paragraphs (d)(1) through (3) of 40 CFR 60.4243, the engine will not be considered an emergency engine under 40 CFR 60, Subpart JJJJ and must meet all requirements for non-emergency engines. [40 CFR 60.4243(d)]
- e. The permittee may operate the engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but shall keep records of such use. [40 CFR 60.4243(e)]
- f. Engines equipped with three-way catalysts/non-selective catalytic reduction are expected to use air-to-fuel ratio controllers. The AFR controller shall be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. [40 CFR 60.4243(g)]

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

2. Emission Limitations:

EU#	NO _x	CO	VOC	NO _x	CO	VOC
	g/HP-hr			ppmvd @ 15% O ₂		
08	1	2	0.7	82	270	60

Compliance Demonstration:

1. The permittee shall comply with the emission standards specified in 40 CFR 60.4233(d) and (e) by purchasing an engine certified according to the procedures specified in 40 CFR 60, Subpart JJJJ and demonstrating compliance according to one of the methods specified in paragraph (a) of 40 CFR 60.4243 [40 CFR 60.4243(b)(1)], or
2. The permittee shall comply with the emission standards specified in 40 CFR 60.4233(d) and (e) by purchasing a non-certified engine and demonstrating compliance according to the requirements specified in 40 CFR 60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of 40 CFR 60.4243 [40 CFR 60.4243(b)(2)].

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:

The permittee shall monitor natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee shall record and maintain records of the fuel combusted in these emission units during each calendar month [40 CFR 60.48c(g)(1)].

6. Specific Reporting Requirements:

See Section F - Monitoring, Recordkeeping and Reporting Requirements.

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

Emission Unit: EU09 **One(1) Natural Gas Indirect Heat Exchanger**

Description:

Name	Description	Capacity (MMBtu/hr)	Date of Construction
Central Plant - West Heating Boiler (Boiler #2) (previously "Central Plant")	Natural Gas Fired Indirect Heat Exchanger	20.085	1982

APPLICABLE REGULATIONS:

401 KAR 59:015, *New Indirect Heat Exchangers*

1. Operating Limitations:

During a startup period or a shutdown period, the permittee shall comply with the work practice standards established in 401 KAR 59:015, Section 7. [401 KAR 59:015, Section 7]

- a. The permittee shall comply with 401 KAR 50:055, Section 2(5); [401 KAR 59:015, Section 7(1)(a)]
- b. 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)]
- c. 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 or shutdown periods; [401 KAR 59:015, Section 7(1)(c)]
- d. The actions, including duration of the startup period, of the permittee during startup and shutdown periods, shall be documented in signed, contemporaneous logs or other relevant evidence; [401 KAR 59:015, Section 7(1)(d)]
- e. Startups and shutdowns shall be conducted according to either: [401 KAR 59:015, Section 7(1)(e)]
 - i. The manufacturer's recommended procedures; or [401 KAR 59:015, Section 7(1)(e)1.]
 - ii. Recommended procedures for a unit of similar design, for which manufacturer's recommended procedures are available, as approved by the cabinet based on documentation provided by the permittee [401 KAR 59:015, Section 7(1)(e)2.]

Compliance Demonstration Method:

Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements** (b).

2. Emission Limitations:

- a. Particulate matter emissions from this unit shall not exceed 0.34 lb/MMBtu. [401 KAR 59:015, Section 4(1)(c)]
- b. Emissions from this unit shall not exceed twenty percent opacity, except: [401 KAR 59:015, Section 4(2)]
 - i. A maximum of forty percent opacity shall be permissible for not more than one (1) six (6)-minute period in any sixty (60)-consecutive minutes. [401 KAR 59:015, Section 4(2)(b)]

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

- ii. For emissions from an indirect heat exchanger during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4 (2) (c)].
- c. Sulfur dioxide emissions from this unit shall not exceed 1.26 lb/MMBtu. [401 KAR 59:015, Section 5(1)(c)2.b.]

Compliance Demonstration Method:

These units are considered to be in compliance with particulate matter, opacity, and sulfur dioxide emission standards while burning only natural gas.

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 4 and 401 KAR 59:005, Section 2(2)].

4. Specific Monitoring Requirements:

The permittee shall monitor natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of natural gas usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee shall keep records of the manufacturer's recommended procedures for startup and shutdown, any instance in which the recommended procedures were not followed, and any corrective action taken [401 KAR 52:020, Section 10].

6. Specific Reporting Requirements:

See **Section F, Monitoring, Recordkeeping and Reporting Requirements.**

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

Emission Unit: EU10 **One(1) Propane Fired Indirect Heat Exchanger**

Description:

Name	Description	Capacity (MMBtu/hr)	Date of Construction
Hart College – Heating Boiler Rental Outside	Propane Fired Indirect Heat Exchanger	5.12	2019

APPLICABLE REGULATIONS:

401 KAR 59:015, *New Indirect Heat Exchangers*

a. Operating Limitations:

During a startup period or a shutdown period, the permittee shall comply with the work practice standards established in 401 KAR 59:015, Section 7. [401 KAR 59:015, Section 7]

- a. The permittee shall comply with 401 KAR 50:055, Section 2(5); [401 KAR 59:015, Section 7(1)(a)]
- b. 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)]
- c. 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 or shutdown periods; [401 KAR 59:015, Section 7(1)(c)]
- d. The actions, including duration of the startup period, of the permittee during startup and shutdown periods, shall be documented in signed, contemporaneous logs or other relevant evidence; [401 KAR 59:015, Section 7(1)(d)]
- e. Startups and shutdowns shall be conducted according to either: [401 KAR 59:015, Section 7(1)(e)]
 - i. The manufacturer's recommended procedures; or [401 KAR 59:015, Section 7(1)(e)1.]
 - ii. Recommended procedures for a unit of similar design, for which manufacturer's recommended procedures are available, as approved by the cabinet based on documentation provided by the permittee [401 KAR 59:015, Section 7(1)(e)2.]

Compliance Demonstration Method:

Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements (b).**

b. Emission Limitations:

1. Particulate matter emissions from this unit shall not exceed 0.30 lb/MMBtu. [401 KAR 59:015, Section 4(1)(c)]
2. Emissions from this unit shall not exceed twenty percent opacity, except: [401 KAR 59:015, Section 4(2)]
 - a. A maximum of forty percent opacity shall be permissible for not more than one (1) six (6)-minute period in any sixty (60)-consecutive minutes. [401 KAR 59:015, Section 4 (2)(b)]

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

- b. For emissions from an indirect heat exchanger during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4 (2) (c)].
- 3. Sulfur dioxide emissions from this unit shall not exceed 0.98 lb/MMBtu. [401 KAR 59:015, Section 5(1)(c)2.b.]

Compliance Demonstration Method:

These units are considered to be in compliance with particulate matter, opacity, and sulfur dioxide emission standards while burning only propane.

c. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 4 and 401 KAR 59:005, Section 2(2)].

d. Specific Monitoring Requirements:

The permittee shall monitor propane usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].

e. Specific Recordkeeping Requirements:

- i. The permittee shall maintain records of propane usage source-wide, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].
- ii. The permittee shall keep records of the manufacturer's recommended procedures for startup and shutdown, any instance in which the recommended procedures were not followed, and any corrective action taken [401 KAR 52:020, Section 10].

f. Specific Reporting Requirements:

See **Section F, Monitoring, Recordkeeping and Reporting Requirements.**

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

Emission Unit: EU12 **One(1) Diesel-Fired Emergency Fire Pump**

Description:

Emission Units	Description	Max. Engine Rating	Fuel	Manufacturer / Model (Model Year)	Construction Commenced
12	Emergency Fire Pump (Sparks Hall)	72 hp	Diesel	Clarke / JU4HF20 SMART P/N: L1211D MFG. S/N: PE4045D205148 Engine: John Deere Co., (12/2002)	2002

APPLICABLE REGULATIONS:

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

PRECLUDED REGULATIONS:

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

1. Operating Limitations:

The permittee shall operate these units according to the following requirements to ensure that they meet the definition of “emergency stationary RICE” in 40 CFR 63.6675 in order to be considered emergency stationary RICE. [40 CFR 63.6585(f)(3); 63.6675; and 63.6640(f)]

- a. There is no time limit on the use of emergency stationary RICE emergency situations [40 CFR 63.6640(f)(1)].
- b. The permittee may operate each of the engines for a maximum of 100 hours per calendar year 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 owner or operator 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 owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2)]
- c. The permittee may be operate each of the engines for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in 40 CFR 63.6640(f)(2). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 63.6585(f)(3) and 40 CFR 63.6640(f)(4)]

2. Emission Limitations:

Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or

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

operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the cabinet. [401 KAR 63:020, Section 3]

Compliance Demonstration Method:

Based upon the emission rates of toxics and hazardous air pollutants determined by the Cabinet using information provided in the application and supplemental information submitted by the source, the Cabinet determines the affected facility to be in compliance with 401 KAR 63:020.

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 4].

4. Specific Monitoring Requirements:

- a. The permittee shall monitor fuel usage (gallons) for this emission unit on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee shall monitor the hours of operation of each engine on a monthly basis. [401 KAR 52:020, Section 10]

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of fuel usage (gallons) for this emission unit on a monthly basis [401 KAR 52:020, Section 10].
- b. The permittee shall maintain records of hours of operation of each engine on a monthly basis. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours were spent for non-emergency operation. [401 KAR 52:020, Section 10]

6. Specific Reporting Requirements:

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 52:020, 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.

INSIGNIFICANT ACTIVITIES			
Description		Generally Applicable Regulation	
Six(6) Diesel ASTs		401 KAR 59:050	
One(1) Diesel/Fuel USTs		401 KAR 59:050	
Two(2) Gasoline USTs		401 KAR 59:050	
Five(5) Art Kilns (EU 11)		401 KAR 59:010	
Sixteen(16) Cooling Towers		N/A	
*(32) Natural Gas-Fired Boilers (the following totaling 17.22 MMBtu/hr)		N/A	
*List of the Thirty-two(32) Natural Gas Fired Boilers		Capacity (MMBtu/hr)	Date
1	Alexander Hall - DWH Boiler	0.20	1994
2	Blackburn Science - Boiler	0.40	1985
3	CFSB Center DWH Boiler 1 of 2	0.50	2019
4	CFSB Center DWH Boiler 2 of 2	0.50	2019
5	Curriss Center - DWH Boiler 1 of 2 (previously "Curriss Center (1st Floor Mech)")	0.80	2021
6	Curriss Center - DWH Boiler 2 of 2 (previously "Curriss Center")	0.80	2021
7	Elizabeth College - DWH Boiler 1 of 8	0.25	2014
8	Elizabeth College - DWH Boiler 2 of 8	0.25	2014
9	Elizabeth College - DWH Boiler 3 of 8	0.25	2014
10	Elizabeth College - DWH Boiler 4 of 8	0.25	2014
11	Elizabeth College - DWH Boiler 5 of 8	0.25	2014
12	Elizabeth College - DWH Boiler 6 of 8	0.25	2014
13	Elizabeth College - DWH Boiler 7 of 8	0.25	2014
14	Elizabeth College - DWH Boiler 8 of 8	0.25	2014
15	Heritage Hall - Boiler 1 of 2 (previously "Business & Research (1)")	0.75	2004
16	Heritage Hall - Boiler 2 of 2 (previously "Business & Research (2)")	0.75	2004
17	Hollis Franklin College - Boiler 1 of 3	0.75	2015
18	Hollis Franklin College - Boiler 2 of 3	0.75	2015
19	Hollis Franklin College - Boiler 3 of 3	0.75	2015
20	Howton Ag - Boiler	0.60	1972
21	JH Richmond College - DWH Boiler 1 of 3 (previously "Richmond")	0.38	2019
22	JH Richmond College - DWH Boiler 2 of 3 (previously "Richmond")	0.38	2019
23	JH Richmond College - DWH Boiler 3 of 3 (previously "Richmond")	0.38	2019
24	JH Richmond College - Heating Boiler 1 of 2	0.47	2019
25	JH Richmond College - Heating Boiler 2 of 2	0.47	2019
26	Lee Clark College - Boiler 1 of 2 (previously "Lee Clark College (Heat 1)")	0.75	2006

27	Lee Clark College - Boiler 2 of 2 (previously "Lee Clark College (Heat 2)")	0.75	2006
28	Lee Clark College - DWH Boiler 1 of 2 (previously "Lee Clark College (Dom HW 1)")	0.75	2006
29	Lee Clark College - DWH Boiler of 2 (previously "Lee Clark College (Dom HW 2)")	0.75	2006
30	Student Rec & Wellness Center - Boiler (previously "Student Rec & Wellness Pool")	0.99	2004
31	Winslow Dining Hall DWH Boiler 1 of 2 (previously "Winslow Cafeteria (DOM HW)")	0.80	2021
32	Winslow Dining Hall DWH Boiler 2 of 2 (previously "Winslow Cafeteria (DOM HW)")	0.80	2021

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Particulate matter, sulfur dioxide, volatile organic compounds, carbon monoxide, and nitrogen oxide emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b-IV-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements;
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five (5) years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b-IV-2 and 1a-8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. In accordance with the requirements of 401 KAR 52:020, Section 3(1)h, the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit;
 - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Sections 1b-V-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020, Section 23. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1, the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
 - a. The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken shall be submitted to the Regional Office listed on the front of this permit. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement does not identify a specific time frame for reporting deviations, prompt reporting, as required by Sections 1b-V, 3 and 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, shall be defined as follows:
8. For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
9. For emissions of any regulated air pollutant, excluding those listed in F.8.a., that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
10. All deviations from permit requirements, including those previously reported, shall be included in the semiannual report required by F.6.
11. Pursuant to 401 KAR 52:020, Title V permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

- e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
- f. The certification shall be submitted by January 30th of each year. Annual compliance certifications shall be sent to the following addresses:

Division for Air Quality
Paducah Regional Office
130 Eagle Nest Drive
Paducah, KY 42003-9435

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St. SW
Atlanta, GA 30303-8960

- 12. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within 30 days of the date the Kentucky Emissions Inventory System (KYEIS) emissions survey is mailed to the permittee.

SECTION G - GENERAL PROVISIONS

1. General Compliance Requirements

- a. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020, Section 3(1)(b), and a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act). Noncompliance with this permit is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- b. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a-6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - (1) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
 - (2) The Cabinet or the United States Environmental Protection Agency (U. S. EPA) determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;
 - (4) New requirements become applicable to a source subject to the Acid Rain Program.

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.
- d. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Sections 1a- 7 and 8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:020, Section 3(1)(c)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

- f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].
- g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- i. All emission limitations and standards contained in this permit shall be enforceable as a practical matter. All emission limitations and standards contained in this permit are enforceable by the U.S. EPA and citizens except for those specifically identified in this permit as state-origin requirements. [Section 1a-15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3) b].
- l. This permit does not convey property rights or exclusive privileges [Section 1a-9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- m. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.
- n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3) d.].
- o. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3) a.].
- p. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
- q. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the

SECTION G - GENERAL PROVISIONS (CONTINUED)

time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:

- (1) Applicable requirements that are included and specifically identified in this permit; and
- (2) Non-applicable requirements expressly identified in this permit.

2. Permit Expiration and Reapplication Requirements

- a. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six (6) months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
- b. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020, Section 8(2)].

3. Permit Revisions

- a. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the State Implementation Plan (SIP) or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
- b. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

4. Construction, Start-Up, and Initial Compliance Demonstration Requirements

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, changes to emission units; EU01, EU03, EU05, and EU06 in accordance with the terms and conditions of permit V-25-012.

- a. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.
- b. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, notification of the following:
 - (1) The date when construction commenced.
 - (2) The date of start-up of the affected facilities listed in this permit.

SECTION G - GENERAL PROVISIONS (CONTINUED)

- (3) The date when the maximum production rate specified in the permit application was achieved.
- c. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.
5. Pursuant to 401 KAR 50:055, Section 2(1)(a), an owner or operator of any affected facility subject to any standard within the administrative regulations of the Division for Air Quality shall demonstrate compliance with the applicable standard(s) within sixty (60) days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial start-up of such facility. Pursuant to 401 KAR 52:020, Section 3(3)(c), sources that have not demonstrated compliance within the timeframes prescribed in 401 KAR 50:055, Section 2(1)(a), shall operate the affected facility only for purposes of demonstrating compliance unless authorized under an approved compliance plan or an order of the cabinet.
- a. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. Testing must also be conducted in accordance with General Provisions G.5 of this permit.
- b. Terms and conditions in this permit established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.
6. Testing Requirements
- a. Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least thirty (30) days prior to the test.
- b. Pursuant to 401 KAR 50:045, Section 5, in order to demonstrate that a source is capable of complying with a standard at all times, any required performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirements on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.

SECTION G - GENERAL PROVISIONS (CONTINUED)

- c. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

7. Acid Rain Program Requirements

- a. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.
- b. The permittee shall comply with all applicable requirements and conditions of the Acid Rain Permit and the Phase II permit application (including the Phase II NO_x compliance plan and averaging plan, if applicable) incorporated into the Title V permit issued for this source. The source shall also comply with all requirements of any revised or future acid rain permit(s) issued to this source.

8. Emergency Provisions

- a. Pursuant to 401 KAR 52:020, Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - (1) An emergency occurred and the permittee can identify the cause of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - (4) Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.1-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
 - (5) This requirement does not relieve the source of other local, state or federal notification requirements.
- b. Emergency conditions listed in General Condition G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
- c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

9. Ozone Depleting Substances

- a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - (1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - (2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.

SECTION G - GENERAL PROVISIONS (CONTINUED)

- (3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
 - (5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - (6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
- b. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

10. Risk Management Provisions

- a. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to U.S. EPA using the RMP* eSubmit software.
- b. If requested, submit additional relevant information to the Division or the U.S. EPA.

SECTION H – ALTERNATE OPERATING SCENARIOS

N/A

SECTION I – COMPLIANCE SCHEDULE

N/A