

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

**Draft**

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

**Permittee Name:** Buffalo Trace Distillery, Inc.  
**Mailing Address:** 113 Great Buffalo Trace, Frankfort, KY 40601

**Source Name:** Buffalo Trace Distillery, Inc.  
**Mailing Address:** 113 Great Buffalo Trace  
Frankfort, KY 40601

**Source Location:** US 421 and Great Buffalo Trace Rd.

**Permit:** V-20-025  
**Agency Interest:** 1373  
**Activity:** APE20180001 & APE20200004  
**Review Type:** Title V, Construction / Operating  
**Source ID:** 21-073-00009

**Regional Office:** Frankfort Regional Office  
300 Sower Boulevard, 1st Floor  
Frankfort, KY 40601  
(502) 564-3358

**County:** Franklin

**Application  
Complete Date:** April 3, 2018 & September 22, 2020  
**Issuance Date:**  
**Expiration Date:**

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**Melissa Duff, Director  
Division for Air Quality**

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	<b>Permit type</b>	<b>Activity#</b>	<b>Complete Date</b>	<b>Issuance Date</b>	<b>Summary of Action</b>
V-20-025	Renewal & Significant Revision	APE20180001 & APE20200004	04/03/18 & 09/22/2020	TBD	Added existing emission points to the permit and new emission points involving expansion operations at the distillery

## **SECTION A - PERMIT AUTHORIZATION**

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 has been 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 01 (01-001, 01-002, 01-005 & 03-005) - Grain and Distiller's Dried Grain Handling**

#### **Description:**

KYEIS ID: 001-1, 2, 3, & 4, respectively

Equipment includes: Grain unloading/receiving hopper with enclosure, conveyors, bucket elevators, distiller's dried grain conveying, storage, and loadout

(01-001 and 01-002) Design operating rate for grain loading/conveyor: 56 tons/hr

Construction commenced: 1974

(01-005) Design operating rate for hammermill conveyor: 25.2 tons/hr

Construction commenced: 1974

(03-005) Design operating rate for distiller's dried grain loading: 33 tons/hr

Construction commenced: 1969

#### **APPLICABLE REGULATIONS:**

401 KAR 63:010, Fugitive emissions

#### **1. Operating Limitations:**

- a) A person shall not cause, suffer, or allow any material to be handled, processed, transported, or stored; a building or its appurtenances to be constructed, altered, repaired, or demolished; or a road to be used without taking reasonable precaution to prevent particulate matter from becoming airborne. Reasonable precautions shall include, as applicable: [401 KAR 63:010, Section 3(1)]
  - i) Use, if possible, of water or suitable chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land; [401 KAR 63:010, Section 3(1)(a)]
  - ii) Application and maintenance of asphalt, oil, water, or suitable chemicals on roads, materials stockpiles, and other surfaces which can create airborne dusts; [401 KAR 63:010, Section 3(1)(b)]
  - iii) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling. Adequate containment methods shall be employed during sandblasting or other similar operations; [401 KAR 63:010, Section 3(1)(c)]
  - iv) Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne; [401 KAR 63:010, Section 3(1)(d)]
  - v) The maintenance of paved roadways in a clean condition; or [401 KAR 63:010, Section 3(1)(e)]
  - vi) The prompt removal of earth or other material from a paved street which earth or other material has been transported thereto by trucking or earth moving equipment or erosion by water. [401 KAR 63:010, Section 3(1)(f)]

**Compliance Demonstration:** Compliance shall be demonstrated according to **4. Specific Monitoring Requirements** (c).

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

- b) If dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate any administrative regulation, the secretary may, based on the cause, type, or amount of a fugitive emission, order that the building or equipment in which processing, handling and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air. [401 KAR 63:010, Section 3(3)]
- c) At all times when in motion, open bodied trucks, operating outside company property, transporting materials likely to become airborne shall be covered [401 KAR 63:010, Section 4(1)].
- d) A person shall not cause, suffer, or allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway. [401 KAR 63:010, Section 4(3)]

**2. Emission Limitations:**

A person shall not cause, suffer, or allow visible fugitive dust emissions beyond the lot line of the property on which the emissions originate, as determined by Reference Method 22 of Appendix A in 40 C.F.R. Part 60, for: [401 KAR 63:010, Section 3(2)]

- a) More than five (5) minutes of emission time during any sixty (60) minute observation period; or [401 KAR 63:010, Section 3(2)(a)]
- b) More than twenty (20) minutes of emission time during any twenty-four (24) hour period. [401 KAR 63:010, Section 3(2)(b)]

**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 the amount of grain received and processed, in tons, on a monthly basis [401 KAR 52:020, Section 10].
- b) The permittee shall monitor the amount of distiller's dried grain processed, in tons, on a monthly basis [401 KAR 52:020, Section 10].
- c) The permittee shall monitor the reasonable precautions taken to prevent particulate matter from becoming airborne on a daily basis. [401 KAR 52:020, Section 10]
- d) If fugitive dust emissions beyond the lot line of the property are observed, the permittee shall conduct Reference Method 22 (visual determination of fugitive emissions) observations per Appendix A of 40 C.F.R. Part 60. In lieu of conducting U.S. EPA Reference Method 22, the permittee shall immediately perform a corrective action which results in no visible fugitive dust emissions beyond the lot line of the property.

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

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain records of grain received and processed, in tons, on a monthly basis [401 KAR 52:020, Section 10].
- b) The permittee shall maintain records of the reasonable precautions taken to prevent particulate matter from becoming airborne, on a daily basis. Notation of the operating status, down-time, or relevant weather conditions are acceptable for entry to the log [401 KAR 52:020, Section 10].
- c) The permittee shall maintain a log of the following:
  - i) Qualitative fugitive emissions observations conducted including the date, time, initials of observer, whether any fugitive dust emissions were observed,
  - ii) Any Reference Method 22 performed and field records identified in Reference Method 22.
  - iii) Any corrective action taken and the results.

**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 02 (01-006) – Existing Hammer Mill and Receiver Process Cyclone**

**Description:**

KYEIS ID: 002-1

Equipment: Hammer mill and receiver process cyclone

Design operating rate: 25.2 tons/hr milled grain

Construction commenced: 1969

**APPLICABLE REGULATIONS:**

401 KAR 61:020, Existing process operations

**1. Operating Limitations:**

NA

**2. Emission Limitations:**

a) The permittee shall not cause, suffer, allow or permit any continuous emissions into the open air from a control device or stack associated with any affected facility which is equal to or greater than 40% opacity [401 KAR 61:020, Section 3(1)(a)].

**Compliance Demonstration:** See **4. Specific Monitoring Requirements:** (a).

b) For emissions from a control device or stack, the permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter (PM) from any affected facility which is in excess of the quantity specified in the table below [401 KAR 61:020, Section 3(2)(a)].

<b>P = Process Weight Rate (tons/hr)</b>	<b>E = Allowable Particulate Emission Rate (lb/hr)</b>
$P \leq 0.5$	$E = 2.58$
$0.5 < P \leq 30$	$E = 4.10P^{0.67}$

**Compliance Demonstration:** The emission unit shall be assumed to be in compliance when the hammer mill and receiver process cyclone is operated, consistent with manufacturer’s specification and standard operating procedures.

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 50:045, Section 4.

**4. Specific Monitoring Requirements:**

a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than every seven calendar days while the affected facility is operating. If visible emissions from the stack are observed (not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:020, Section 10].

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

- b) The permittee shall monitor the grain processing rate, in tons, and hours of operation on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain a log of any qualitative visual observations of emissions from the stack, any corrective actions performed and any U.S. EPA Reference Method 9 readings performed [401 KAR 52:020, Section 10].
- b) The permittee shall records of grain processed, in tons, and hours of operation shall be maintained on a monthly basis [401 KAR 52:020, Section 10].

**6. Specific Reporting Requirements:**

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

**7. Specific Control Equipment Operating Conditions:**

- a) The cyclones shall be operated to maintain compliance with permitted emission limitations, consistent with manufacturer's specifications and good operating practices [401 KAR 50:055].
- b) See **Section E – Source Control Equipment Requirements.**

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

**Emission Unit 02B (02-002, 02-003 & 02-004) - New Hammer Mills and Receiver Process Cyclones**

**Description:**

KYEIS ID: 002-2, 3, & 4

Equipment: Three (3) hammer mills and associated receiver process cyclones

Design operating rate: 25.2 tons/hr milled grain each

Construction commenced: Proposed 2022

**APPLICABLE REGULATIONS:**

401 KAR 59:010, New process operations

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

NA

**2. Emission Limitations:**

- a) The permittee shall not cause, suffer, allow or permit any continuous emissions into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20% opacity [401 KAR 59:010, Section 3(1)(a)].

**Compliance Demonstration:** See 4. **Specific Monitoring Requirements:** (a).

- b) For emissions from a control device or stack the permittee shall not cause, suffer, allow or permit the emission into the open air of PM from any affected facility which is in excess of the quantity specified in the table below [401 KAR 59:010, Section 3(2)].

<b>P = Process Weight Rate (tons/hr)</b>	<b>E = Allowable Particulate Emission Rate (lb/hr)</b>
$P \leq 0.5$	$E = 2.34$
$0.5 < P \leq 30$	$E = 3.59P^{0.62}$

**Compliance Demonstration:** The emission unit shall be assumed to be in compliance when the hammer mill and receiver process cyclone are operated, consistent with manufacturer’s specifications and standard operating procedures.

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 4.

**4. Specific Monitoring Requirements:**

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than every seven calendar days while the affected facility is operating. If visible emissions from the stack are observed (not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference

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

Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:020, Section 10].

- b) The permittee shall monitor the grain processing rate, in tons, and hours of operation on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain a log of any qualitative visual observations of emissions from the stack, any corrective actions performed and any U.S. EPA Reference Method 9 readings performed [401 KAR 52:020, Section 10].
- b) The permittee shall maintain records of grain processed, in tons, and hours of operation on a monthly basis [401 KAR 52:020, Section 10].

**6. Specific Reporting Requirements:**

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

**7. Specific Control Equipment Operating Conditions:**

- a) The associated process cyclone shall be operated to maintain compliance with permitted emission limitations, consistent with manufacturer's specifications and good operating practices [401 KAR 50:055].
- b) See Section E – Source Control Equipment Requirements.

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

### **Emission Unit 03 (02-001, 02-005, 03-002 & 03-003) - Fermentation Process**

#### **Description:**

KYEIS ID: 003-1, 2, & 3

Equipment includes: Fermentation and distilling process

02-001 and 02-005 (12 fermentation vessels constructed in 1936-1952)

03-002 (4 Fermentation vessels constructed in 2019)

03-003 (8 fermentation vessels constructed in 2021)

#### **APPLICABLE REGULATIONS:**

401 KAR 50:012, General application

401 KAR 63:020, Potentially hazardous matter or toxic substances

#### **PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

#### **1. Operating Limitations:**

- a) The permittee shall not 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 [401 KAR 63:020, Section 3].

**Compliance Demonstration:** 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.

- b) The permittee shall limit operation of EU 03 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC emission limitation taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

- c) See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.

#### **2. Emission Limitations:**

See **Section D – Source Emission Limitations and Testing Requirements**.

#### **3. Testing Requirements:**

Testing shall be conducted at such times as may be requested by the cabinet in accordance with 401 KAR 50:045, Section 4.

#### **4. Specific Monitoring Requirements:**

The permittee shall monitor the grain input, in 1000-bushels, on a monthly basis [401 KAR 52:020, Section 10].

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

**5. Specific Recordkeeping Requirements:**

The permittee shall maintain records of grain input, in 1000-bushels, on a monthly basis [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 04 (03-001) - Rotary Dryer and Cyclone Separator**

#### **Description:**

KYEIS ID 004-1 and 004-2

Equipment: No. 1 Rotary steam tube dryer and pneumatic conveying cyclone separator

Control equipment: Cyclone

Design operating rate: 2.5 tons/hr distiller's dried grain with solubles

Construction commenced: 1976

#### **APPLICABLE REGULATIONS:**

401 KAR 50:012, General application

401 KAR 59:010, New process operations

401 KAR 63:020, Potentially hazardous matter or toxic substances

#### **PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

#### **1. Operating Limitations:**

- a) The permittee shall not 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 [401 KAR 63:020, Section 3].

**Compliance Demonstration:** 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.

- b) See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.
- c) The permittee shall limit operation of EU 04 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC emission limitation taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

#### **2. Emission Limitations:**

- a) The permittee shall not cause, suffer, allow or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20% opacity [401 KAR 59:010, Section 3(1)(a)]. The permittee shall not exceed the PM emissions listed in the table below [401 KAR 59:010, Section 3(1)(a)].

**Compliance Demonstration:** See **4. Specific Monitoring Requirements:** (a).

- b) For emissions from a control device or stack the permittee shall not cause, suffer, allow or permit the emission into the open air of PM from any affected facility which is in excess of the quantity specified in the table below [401 KAR 59:010, Section 3(2)].

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

<b>P = Process Weight Rate (tons/hr)</b>	<b>E = Allowable Particulate Emission Rate (lb/hr)</b>
$P \leq 0.5$	$E = 2.34$
$0.5 < P \leq 30$	$E = 3.59P^{0.62}$

**Compliance Demonstration:** The emission unit shall be assumed to be in compliance when the cyclone is operated, consistent with manufacturer's specification and standard operating procedures.

c) See **Section D – Source Emission Limitations and Testing Requirements.**

### 3. **Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 4.

### 4. **Specific Monitoring Requirements:**

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than every seven calendar days while the affected facility is operating. If visible emissions from the stack are observed (not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:020, Section 10].
- b) The permittee shall monitor the grain processed, in tons, the quantity of Distiller's Dried Grain with Solubles (DDGS) produced, in tons, and hours of operation on a monthly basis [401 KAR 52:020, Section 10].

### 5. **Specific Recordkeeping Requirements:**

- a) The permittee shall maintain a log of any qualitative visual observations of emissions from the stack, any corrective actions performed and any U.S. EPA Reference Method 9 readings performed [401 KAR 52:020, Section 10].
- b) The permittee shall maintain records of the grain processed, in tons, the quantity of DDGS produced, in tons, and the hours of operation on a monthly basis [401 KAR 52:020, Section 10].

### 6. **Specific Reporting Requirements:**

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

### 7. **Specific Control Equipment Operating Conditions:**

- a) The cyclone shall be operated to maintain compliance with permitted emission limitations, consistent with manufacturer's specifications and good operating practices [401 KAR 50:055].
- b) See **Section E – Source Control Equipment Requirements.**

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

### **Emission Unit 05 (03-002 and 03-003) - Rotary Dryers & Cyclone Separator**

#### **Description:**

KYEIS ID: 005-1 pneumatic cyclone separator, 005-2 rotary dryers

Equipment: Rotary steam tube dryers and pneumatic conveying cyclone separator

Control equipment: Cyclone

Design operating rate for dryer (total): 4.0 tons/hr distiller's dried grain

Construction commenced: one dryer on or before 1969

Design operating rate for cyclone separator: 4.0 tons/hr distiller's dried grain

Construction commenced: 1973

#### **APPLICABLE REGULATIONS:**

401 KAR 50:012, General application;

401 KAR 61:020, Existing process operations;

401 KAR 63:020, Potentially hazardous matter or toxic substances

#### **PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

#### **1. Operating Limitations:**

- a) The permittee shall not 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 [401 KAR 63:020, Section 3].

**Compliance Demonstration:** 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.

- b) See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.
- c) The permittee shall limit operation of EU 05 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC emission limitation taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

#### **2. Emission Limitations:**

- a) The permittee shall not cause, suffer, allow or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 40% opacity [401 KAR 61:020, Section 3(1)(a)].

**Compliance Demonstration:** See **4. Specific Monitoring Requirements: (a).**

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

- b) For emissions from a control device or stack, the permittee shall not cause, suffer, allow or permit the emission into the open air of PM from any affected facility which is in excess of the quantity specified in the table below [401 KAR 61:020, Section 3(2)(a)]

<b>P = Process Weight Rate (tons/hr)</b>	<b>E = Allowable Particulate Emission Rate (lb/hr)</b>
$P \leq 0.5$	$E = 2.58$
$0.5 \leq P \leq 30$	$E = 4.10P^{0.67}$

**Compliance Demonstration:** The emission unit shall be assumed to be in compliance when rotary dryer and the cyclone separator are operated, consistent with manufacturer’s specification and standard operating procedures.

- c) See **Section D – Source Emission Limitations and Testing Requirements.**

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 50:045, Section 4.

**4. Specific Monitoring Requirements:**

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than every seven calendar days while the affected facility is operating. If visible emissions from the stack are observed (not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:020, Section 10].
- b) The permittee shall monitor the grain processed, in tons, the quantity of DDGS produced, in tons, and hours of operation on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain a log of any qualitative visual observations of emissions from the stack, any corrective actions performed and any U.S. EPA Reference Method 9 readings performed [401 KAR 52:020, Section 10].
- b) The permittee shall maintain records of the grain processed, in tons, the quantity of DDGS produced, in tons, and the hours of operation on a monthly basis [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)**

**7. Specific Control Equipment Operating Conditions:**

- a) The cyclone shall be operated to maintain compliance with permitted emission limitations, consistent with manufacturer's specifications and good operating practices [401 KAR 50:055].
- b) See **Section E – Source Control Equipment Requirements.**

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

**Emission Unit 32 (32-001, 32-002, 32-003, 32-004, & 32-005) - DDGS Dryhouse #2**

**Description:**

KYEIS ID: 032-1, 032-2, 032-3, 032-4

Equipment: Two centrifuges (32-001), two steam dryers (32-002), bypass for each steam dryer (32-003) and pneumatic conveying cyclone separator from rotary dryers (32-004)

Control equipment: Scrubber and thermal oxidizer (032-005) control 032-002), Cyclone controls 32-004

Design operating rate for dryers (total): 6.5 tons/hr distiller's dried grain

Construction commenced: Proposed 2022

**APPLICABLE REGULATIONS:**

401 KAR 50:012, General application

401 KAR 59:010, New process operations

401 KAR 63:020, Potentially hazardous matter or toxic substances

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) The permittee shall not 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 [401 KAR 63:020, Section 3].

**Compliance Demonstration:** 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.

- b) See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.
- c) The permittee shall limit operation of EU 32 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].
- d) The permittee shall install and operate a thermal oxidation system to control emissions from the steam dryers. The average combustion chamber temperature in any 3-hour period shall not fall more than 28°C (50°F) below the combustion temperature limit established during the most recent performance test, which demonstrated compliance. This combustion temperature limit shall be determined based on the average combustion temperature during the performance test. When the 3-hour combustion chamber temperature falls more than 28°C (50°F) below the combustion temperature limit, the

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

control efficiency is considered to be 0% in regards to applicable VOC emission limitations [401 KAR 52:020 Section 10].

**Compliance Demonstration:** See 4. Specific Monitoring Requirements: (c) and 5. Specific Recordkeeping Requirements: (d).

- e) The permittee has requested to limit operation of the thermal oxidizer by-pass to 500 hours per year to allow for maintenance, performance evaluation, startup, shutdown, and malfunction periods. When the by-pass is in operation the control efficiency is calculated at 0% in regards to applicable VOC emission limitations [401 KAR 52:020 Section 10].

**Compliance Demonstration:** See 4. Specific Monitoring Requirements: (d) and 5. Specific Recordkeeping Requirements: (d).

**2. Emission Limitations:**

- a) The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20% opacity [401 KAR 59:010, Section 3(1)(a)].

**Compliance Demonstration:** See 4. Specific Monitoring Requirements: (a).

- b) For emissions from a control device or stack the permittee shall not cause, suffer, allow or permit the emission into the open air of PM from any affected facility which is in excess of the quantity specified in the table below [401 KAR 59:010, Section 3(2)].

<b>P = Process Weight Rate (tons/hr)</b>	<b>E = Allowable Particulate Emission Rate (lb/hr)</b>
$P \leq 0.5$	$E = 2.34$
$0.5 < P \leq 30$	$E = 3.59P^{0.62}$

**Compliance Demonstration:** See 3. Testing Requirements: (b).

- c) The permittee shall limit VOC emissions from EU 32 to no more than 16.0 tons per year on a 12-month rolling total basis [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

**Compliance Demonstration:** The permittee shall calculate monthly VOC emissions from Emission Unit 32 (32-001, 32-002, 32-003 & 32-004) based upon monthly process throughput during bypass of the control device or operation of the control device more than 28°C (50°F) below the temperature limit established during the most recent test, the monthly process throughput during operation of the control device at or above 28°C (50°F) below the temperature limit established during the most recent test, the most recent emission factors approved by the Division, and the most recent control efficiency approved by the Division. The monthly VOC emissions from Emission Unit 32 shall be added to the previous 11 months VOC emissions from Emission Unit 32 to demonstrate compliance.

- d) See Section D – Source Emission Limitation and Testing Requirements.

**SECTION B - EMISSION UNITS, EMISSION POINTS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****3. Testing Requirements:**

- a) 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, the permittee shall conduct an initial performance test on 32-002 to establish an uncontrolled VOC emission factor, the control efficiency of VOC provided by the thermal oxidizer (32-005), and to establish the minimum temperature set point(s) for the thermal oxidation system using U.S. EPA Reference Methods [401 KAR 50:045, Section 1]. Subsequent testing shall be conducted no more than 59 months from the recent test approved by the Division.
- b) 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, the permittee shall conduct a U.S. EPA Reference Method 5, to verify compliance demonstration with 401 KAR 59:010 PM mass emission standard according to 401 KAR 59:010, Section 3(2) [401 KAR 50:045, Section 1]
- c) For additional testing refer to **Section G – General Provisions 5. Testing Requirements** d. [401 KAR 50:045, Section 3].

**4. Specific Monitoring Requirements:**

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than every seven calendar days while the affected facility is operating. If visible emissions from the stack are observed (not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:020, Section 10].
- b) The permittee shall monitor the grain processing rate, in tons, the quantity of DDGS produced, in tons, and hours of operation on a monthly basis [401 KAR 52:020, Section 10].
- c) The permittee shall continuously monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. The permittee shall install, calibrate, maintain, and operate the monitoring device. The monitoring devices shall have an accuracy of the greater of +/- 0.75 percent of the temperature being measured expressed in degrees Celsius or +/- 2.5 degrees Celsius. [401 KAR 52:020, Section 10]
- d) The permittee shall monitor the elapsed time when operators bypassed the thermal oxidizer while the emissions unit was in operation [401 KAR 52:020, Section 10].

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

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain a log of any qualitative visual observations of emissions from the stack, any corrective actions performed and any U.S. EPA Reference Method 9 readings performed [401 KAR 52:020, Section 10].
- b) The permittee shall maintain records of the grain processing rate, in tons, the quantity of DDGS produced, in tons, and the hours of operation on a monthly basis [401 KAR 52:020, Section 10].
- c) The permittee shall maintain records of the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. Compliance with the combustion temperature limit shall be demonstrated by recording the combustion temperature, averaged over 3 hours [401 KAR 52:020, Section 10].
- d) The permittee shall maintain records of the dates when operators bypassed the thermal oxidizer while the emission unit was in operation, the elapsed time during each event, and the 12-month rolling total bypass hours [401 KAR 52:020, Section 10].
- e) The permittee shall calculate and maintain records of monthly VOC emissions and 12-month rolling total VOC emissions [401 KAR 52:020, Section 10]

**6. Specific Reporting Requirements:**

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

**7. Specific Control Equipment Operating Conditions:**

- a) The cyclone separator represented as EU 32-004 shall be operated to maintain compliance with permitted emission limitations, consistent with manufacturer's specifications and good operating practices [401 KAR 50:055].
- b) See **Section E – Source Control Equipment Requirements.**

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

### Emission Unit 06-001 (05-001) - Aging

#### Description:

KYEIS ID: 006-1

Equipment includes: Barrel filling stations, product aging in sixteen legacy Rickhouses, and barrel dumping

Construction commenced: 1885-2013

Warehouse Name	Occupancy Date	Barrel Capacity
C	1885 (renovated in 1934)	24,000
D	1907 (renovated in 2006)	19,000
H	1935	15,000
I	1935	49,140
K	1935	49,140
L	1936	40,000
M	1936	40,000
N	1937	50,000
O	1937	50,000
P	1941	52,170
Q	1942	40,000
R	1950 (renovated in 2016)	50,000
S	1951 (renovated in 2016)	50,000
T	1951 (renovated in 2015)	50,000
U	1950 (renovated in 2015)	50,000
X	2013	150
V	1952	1

#### APPLICABLE REGULATIONS:

401 KAR 50:012, General application

#### 1. Operating Limitations:

See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.

#### 2. Emission Limitations:

NA

#### 3. Testing Requirements:

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

#### 4. Specific Monitoring Requirements:

The permittee shall monitor the number of barrels stored on a yearly basis [401 KAR 52:020, Section 10].

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

**5. Specific Recordkeeping Requirements:**

The permittee shall maintain records of the number of barrels stored on a yearly basis [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 06-002 - Aging on Farm

#### Description:

KYEIS ID: 006-2

Equipment includes: Fourteen warehouses for product aging

Construction commenced: 2017-2022

Warehouse Name	Occupancy Date	Barrel Capacity
AA	2018	58,800
BB	2018	58,800
CC	2018	58,800
DD	2019	58,800
EE	2019	58,800
FF	2019	58,800
GG	2020	58,800
HH	2020	58,800
II	----	58,800
JJ	----	58,800
KK	----	58,800
LL	----	58,800
MM	----	58,800
NN	----	58,800

#### APPLICABLE REGULATIONS:

401 KAR 50:012, General application

#### 1. Operating Limitations:

See Section D – Source Emission Limitations and Testing Requirements item 6. for 401 KAR 50:012 requirements.

#### 2. Emission Limitations:

NA

#### 3. Testing Requirements:

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

#### 4. Specific Monitoring Requirements:

The permittee shall monitor the number of barrels stored on a yearly basis [401 KAR 52:020, Section 10].

#### 5. Specific Recordkeeping Requirements:

The permittee shall maintain records of the number of barrels stored on a yearly basis [401 KAR 52:020, Section 10].

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

**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 Units 21 (21-001, 21-002), 22 (22-001), 23 (23-001) and 31 (31-001 and 31-002) - Distillation Systems**

**Description:**

E10U 21-001: No. 1 Bourbon Distillation System – Beer Still #1  
(KYEIS ID 021-1)

Construction commenced: 1956

EU 21-002: No. 1 Bourbon Distillation System – Doubler Still #2  
(KYEIS ID 021-2)

Construction commenced: 1956

EU 22-001: Vodka Distillation System – Vodka Still #3 and Distillation Column Still #4  
(KYEIS ID 022-1)

Construction commenced: 1967

EU 23-001: Platinum Distillation System – Platinum Still #7, Still #8, and Still #9  
(KYEIS ID 023-1)

Construction commenced: 2011

EU 31-001: No. 2 Bourbon Distillation System – Beer Still #10  
(KYEIS ID 031-1)

Construction commenced: Proposed 2022

EU 31-002: No. 2 Bourbon Distillation System – Doubler Still #11  
(KYEIS ID 031-2)

Construction commenced: Proposed 2022

**APPLICABLE REGULATIONS:**

401 KAR 50:012, General application

401 KAR 63:020, Potentially hazardous matter or toxic substances

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) The permittee shall not 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 [401 KAR 63:020, Section 3].

**Compliance Demonstration:** 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.

- b) See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.
- c) The permittee shall limit operation of EU 21, 22, 23, and 31 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC emission limitation taken by the permittee to preclude 401 KAR

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

51:017 when considered in aggregate with emissions from other non-fugitive sources.  
[Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.]:

**2. Emission Limitations:**

See **Section D – Source Emission Limitation and Testing Requirements.**

**3. Testing Requirements:**

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

**4. Specific Monitoring Requirements:**

The permittee shall monitor the grain input, in bushels, on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

The permittee shall maintain records of grain input, in bushels, on a monthly basis [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 Units 24 (24-001) and 25 (25-001) - Loadout Stations**

**Description:**

EU 24-001: Building 3 Loadout Station

Construction commenced: 2015

EU 25-001: Regauge Loadout Station

Construction commenced: 2008

**APPLICABLE REGULATIONS:**

401 KAR 50:012, General application

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality for VOC

**1. Operating Limitations:**

- a) See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.
- b) The permittee shall limit operation of EU 24 and 25 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC emission limitation taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources. [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

**2. Emission Limitations:**

See **Section D – Source Emission Limitation and Testing Requirements.**

**3. Testing Requirements:**

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

**4. Specific Monitoring Requirements:**

The permittee shall monitor process throughput, in Mgal, on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

The permittee shall maintain records of process throughput, in Mgal, on a monthly basis [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 07 (07-001) - Bottling Lines**

**Description:**

Equipment: Bottling Lines A, B, C, & D

Construction commenced: 2019

**APPLICABLE REGULATIONS:**

401 KAR 50:012, General application

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.
- b) The permittee shall limit operation of EU 07 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC emission limitation taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].
- c) The permittee shall limit total gallons of material bottled through EU 07 to 50,000,000 proof gallons (PG) per year on a 12-month rolling total basis [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

**Compliance Demonstration:** See **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements**.

**2. Emission Limitations:**

See **Section D – Source Emission Limitation and Testing Requirements**.

**3. Testing Requirements:**

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

**4. Specific Monitoring Requirements:**

The permittee shall monitor the quantity of product bottled, in proof gallons, on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

The permittee shall maintain records of the quantity of product bottled, in proof gallons, on a monthly basis and on a 12-month rolling total basis [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 08 (09-001) - Indirect Heat Exchanger (Boiler 9)**

**Description:**

Horizontally-opposed-natural gas-fired indirect heat exchanger  
Maximum continuous rating: 176 MMBtu/hr  
Construction commenced: 1972

**APPLICABLE REGULATIONS:**

401 KAR 59:015, New indirect heat exchangers

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) During a startup period or 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].
  - i) The permittee shall comply with 401 KAR 50:055, Section 2(5) [401 KAR 59:015, Section 7(1)(a)].
  - ii) 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)].
  - iii) All reasonable steps shall be taken by the permittee to minimize the impact of emissions on ambient air quality from the affected facility during startup periods and shutdown periods [401 KAR 59:015, Section 7(1)(c)].
  - iv) The actions, including duration of the startup period, of the permittee of each affected facility during startup periods and shutdown periods, shall be documented by signed, contemporaneous logs or other relevant evidence [401 KAR 59:015, Section 7(1)(d)].
  - v) Startups and shutdowns shall be conducted according to either [401 KAR 59:015, Section 7(1)(e)]:
    - A) The manufacturer's recommended procedures or [401 KAR 59:015, Section 7(1)(e)1.];
    - B) 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 of the affected facility [401 KAR 59:015 Section 7(1)(e)2.].

**Compliance Demonstration:** See 5. **Specific Recordkeeping Requirements:** (b).

- b) The permittee shall limit operation of EU 08 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b. for the distillery source].
- c) The permittee shall limit the heat input to the unit to no more than 140.8 MMBtu/hr [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b. for the distillery source].

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

**Compliance Demonstration:** Compliance shall be demonstrated by comparing the maximum hourly fuel usage rate, on a daily basis, against an equivalent 0.1332 MMscf/hr.

**2. Emission Limitations:**

- a) Particulate emissions shall not exceed 0.10 lb/MMBtu [401 KAR 59:015, Section 4(1)(b)].
- b) Visible emissions shall not exceed 20% opacity except: [401 KAR 59:015 Section 4(2)]:
  - i) that a maximum of 27% opacity shall be allowed for one 6 minute period in any 60 consecutive minutes[401 KAR 59:015, Section 4(2)(a)];
  - ii) for emissions caused by building a new fire, emissions during the period required to bring up to operating conditions shall be allowed, if the method used is 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 the unit shall not exceed 0.8 lb/MMBtu [401 KAR 59:015, Section 5(1)(b)1.].

**Compliance Demonstration** for (a) through (c): This unit is assumed to be in compliance with the allowable PM, SO<sub>2</sub>, and opacity limitations while burning natural gas.

d) See **Section D – Source Emission Limitation and Testing Requirements**

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 4.

**4. Specific Monitoring Requirements:**

The permittee shall monitor the amount of natural gas combusted, in MMscf, hours of operation, and the maximum hourly fuel use rate on a daily basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain records of the amount of natural gas combusted, in MMscf, hours of operation, and the maximum hourly fuel use rate on a daily 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 actions 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 14 (14-001) - Indirect Heat Exchanger (Boiler 10)**

**Description:**

Fuel: Natural Gas

Maximum continuous rating: 60.5 MMBtu/hr

Construction commenced: May 9, 2002

**APPLICABLE REGULATIONS:**

401 KAR 59:015, New indirect heat exchangers; and

401 KAR 60:005, Section 2(2)(d) 40 CFR 60.40c to 60.48c (Subpart Dc), Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) During a startup period or 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].
  - i) The permittee shall comply with 401 KAR 50:055, Section 2(5) [401 KAR 59:015, Section 7(1)(a)].
  - ii) 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)].
  - iii) All reasonable steps shall be taken by the permittee to minimize the impact of emissions on ambient air quality from the affected facility during startup periods and shutdown periods [401 KAR 59:015, Section 7(1)(c)].
  - iv) The actions, including duration of the startup period, of the permittee of each affected facility during startup periods and shutdown periods, shall be documented by signed, contemporaneous logs or other relevant evidence [401 KAR 59:015, Section 7(1)(d)].
  - v) Startups and shutdowns shall be conducted according to either [401 KAR 59:015, Section 7(1)(e)]:
    - A) The manufacturer's recommended procedures or [401 KAR 59:015, Section 7(1)(e)1.];
    - B) 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 of the affected facility [401 KAR 59:015 Section 7(1)(e)2.];

**Compliance Demonstration:** See **5. Specific Recordkeeping Requirements:** (b).

- b) The permittee shall limit operation of EU 14 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b. for the distillery source].

**SECTION B - EMISSION UNITS, EMISSION POINTS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations:**

- a) Particulate emissions shall not exceed 0.10 lb/MMBtu [401 KAR 59:015, Section 4(1)(b)].
- b) Visible emissions shall not exceed 20% opacity except [401 KAR 59:015 Section 4(2)]:
  - i) that a maximum of 27% opacity shall be allowed for one six-minute period in any 60 consecutive minutes [401 KAR 59:015, Section 4(2)(a)];
  - ii) for emissions caused by building a new fire, emissions during the period required to bring up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4(2)(c)].
- c) The sulfur dioxide emissions shall not exceed 0.8 lb/MMBtu [401 KAR 59:015, Section 5(1)(b)1.].

**Compliance Demonstration** for (a) through (c): This unit is assumed to be in compliance with the allowable PM, SO<sub>2</sub>, and opacity limitations while burning natural gas.

d) See **Section D – Source Emission Limitation and Testing Requirements.**

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 4.

**4. Monitoring Requirements:**

The permittee shall monitor the amount of natural gas combusted, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain records of the amount of natural gas combusted, in MMscf, on a monthly basis [401 KAR 50:020, Section 10 and 40 CFR 60.48c(g)(2)].
- 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 actions taken [401 KAR 52:020, Section 10].
- c) All records required under 40 CFR 60.48c shall be maintained by the permittee for a period of two years following the date of such record [40 CFR 60.48c(i)].

**6. Specific Reporting Requirements:**

- a) The reporting period required for the reports required under 40 CFR 60, Subpart Dc is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period [40 CFR 60.48c(j)].
- b) See **Section F – Monitoring, Recordkeeping, and Reporting Requirements.**

**SECTION B - EMISSION UNITS, EMISSION POINTS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Emission Unit 15 (14-002) - Indirect Heat Exchanger (Boiler 11)****Description:**

Natural gas fired indirect heat exchanger

Primary Fuel: Natural Gas

Co-Fired Secondary Fuel: Grain Neutral Spirits (GNS) (Non-Hazardous Secondary Material)

Maximum continuous rating: 60.5 MMBtu/hr

Construction commenced: May 9, 2002. Burner changed in 2008; no capacity increase.

**APPLICABLE REGULATIONS:**

401 KAR 59:015, New indirect heat exchangers;

401 KAR 60:005, Section 2(2)(d) 60.40c to 60.48c (Subpart Dc), Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

401 KAR 63:002, Section 2(4)(jjjj) 40 CFR 63.11193 to 63.11237, Tables 1 to 8 (Subpart JJJJJ), National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

**PRECLUDED APPLICABLE REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) The permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. [40 CFR 63.11205(a)]

**Compliance Demonstration:** Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source [40 CFR 63.11205(a)].

- b) The permittee shall conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in the following paragraphs. Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up [40 CFR 63.11201(b), 40 CFR 63.11223(a)-(b); Table 2(4) to 40 CFR 63, Subpart JJJJJ].
  - i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection) [40 CFR 63.11223(b)(1)].

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

- ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available [40 CFR 63.11223(b)(2)].
  - iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection) [40 CFR 63.11223(b)(3)].
  - iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject [40 CFR 63.11223(b)(4)].
  - v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer [40 CFR 63.11223(b)(5)].
  - vi) If the unit is not operating on the required date for a tune-up, the tune-up shall be conducted within 30 days of startup [40 CFR 63.11223(b)(7)].
- c) If the permittee uses an oxygen trim system that maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up, the permittee shall conduct a tune-up of the boiler every 5 years as specified in 40 CFR 63.11223(b)(1) through (7). Each 5-year tune-up shall be conducted no more than 61 months after the previous tune-up. The permittee may delay the burner inspection specified in 40 CFR 63.11223(b)(1) and inspection of the system controlling the air-to-fuel ratio specified in 40 CFR 63.6311223(b)(3) until the next scheduled unit shutdown, but the permittee shall inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every 5 years, the permittee shall set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up [40 CFR 63.11223(c)]. **Compliance Demonstration:** Compliance with tune-up requirements shall be demonstrated according to **5. Specific Recordkeeping Requirements:** (d) and (e) and **6. Specific Reporting Requirements:** (c) and (f).
- d) The permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment shall comply with the requirements of 40 CFR 63.11237 and Table 2 to 40 CFR 63, Subpart JJJJJ, Item 16 [40 CFR 63.11201(b); Table 2(16) to 40 CFR 63, Subpart JJJJJ].  
**Compliance Demonstration:** Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements:** (d) and **6. Specific Reporting Requirements:** (e) and (f).
- e) The permittee shall limit operation of EU 15 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the permittee to preclude 401 KAR 51:017

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

when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b. for the distillery source].

- f) The permittee shall limit heat input from GNS and the fraction of total heat input from GNS to no more than 110% of those values established during the test [401 KAR 50:045, Section 5].

**2. Emission Limitations:**

- a) Particulate emissions shall not exceed 0.10 lb/MMBtu [401 KAR 59:015, Section 4(1)(b)].
- b) Visible emissions shall not exceed 20% opacity except [401 KAR 59:015 Section 4(2)]:
  - i) that a maximum of 27% opacity shall be allowed for one 6 minute period in any 60 consecutive minutes [401 KAR 59:015, Section 4(2)(a)];
  - ii) for emissions caused by building a new fire, emissions during the period required to bring up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4(2)(c)].
- c) The sulfur dioxide emissions shall not exceed 0.8 lb/MMBtu [401 KAR 59:015, Section 5(1)(b)1.].

**Compliance Demonstration** for (a) through (c): The unit is considered to be in compliance with the allowable PM, SO<sub>2</sub> and opacity limitations while burning natural gas and GNS [401 KAR 52:020, Section 10].

- d) See **Section D – Source Emission Limitation and Testing Requirements.**

**3. Testing Requirements:**

- a) Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 4.
- b) Within 180 days of Final permit issuance (V-20-025), the permittee shall conduct one-time performance test while burning GNS. The test conducted shall be U.S. EPA Reference Methods 5, 7, 10E and 18. The emission factors generated will be used to determine actual emissions from GNS based on the annual throughput in order to monitor emissions for NO<sub>x</sub> and VOC emission limits specified in **Section D – Emission Limitations and Testing Requirements** [401 KAR 50:045].

**4. Monitoring Requirements:**

- a) The permittee shall monitor the amount of natural gas combusted, in MMscf, and the amount of GNS combusted, in Mgal, on a monthly basis [401 KAR 52:020, Section 10].
- b) While burning GNS, the permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than every seven calendar days while the affected facility is operating. If visible emissions from the stack are observed

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

(not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain records of the amount of the natural gas combusted, in MMscf, and the amount of GNS combusted, in Mgal, on a monthly basis [401 KAR 52:020, Section 10 and 40 CFR 60.48c(g)(2)].
- b) The permittee shall record the following information for each tune-up [40 CFR 63.11223(b)(6)]:
  - i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler [40 CFR 63.11223(b)(6)(i)].
  - ii) A description of any corrective actions taken as a part of the tune-up of the boiler [40 CFR 63.11223(b)(6)(ii)].
  - iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit [40 CFR 63.11223(b)(6)(iii)].
- c) The permittee shall maintain the following records [40 CFR 63.11225(c)]:
  - i) A copy of each notification and report submitted to comply with 40 CFR 63, Subpart JJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status [40 CFR 63.11225(c)(1)].
  - ii) The date of each tune-up, the procedures followed for the tune-up, and the manufacturer's specifications to which the boiler was tuned [40 CFR 63.11225(c)(2)(i)].
  - iii) A record which documents how the secondary material (GNS) meets each of the legitimacy criteria under 40 CFR 241.3(d)(1) [40 CFR 63.11225(c)(2)(ii)].
  - iv) A copy of the energy assessment report [40 CFR 63.11225(c)(2)(iii)].
  - v) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment [40 CFR 63.11225(c)(4)].
  - vi) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation [40 CFR 63.11225(c)(5)].
- d) Records shall be in a form suitable and readily available for expeditious review. The permittee shall keep each record for 5 years following the date of each recorded action. The permittee shall keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after

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the date of each recorded action. The permittee may keep the records off site for the remaining 3 years [40 CFR 63.11225(d)].

- e) The permittee shall maintain a log of any qualitative visual observations of emissions from the stack, any corrective actions performed and any U.S. EPA Reference Method 9 readings performed [401 KAR 52:020, Section 10].
- f) All records required under 40 CFR 60.48c shall be maintained by the permittee for a period of two years following the date of such record [40 CFR 60.48c(i)].

**6. Specific Reporting Requirements:**

- a) The reporting period required for the reports required under 40 CFR 60, Subpart Dc is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period [40 CFR 60.48c(j)].
- b) If requested by the Administrator, submit a report containing the information in 40 CFR 63.11223(b)(6)(i) through (iii)[40 CFR 63.11223(b)(6)].
- c) The permittee shall submit an Initial Notification to the Administrator within 120 days after the source becomes subject to 40 CFR 63, Subpart JJJJJ [40 CFR 63.11225(a)(2)].
- d) The permittee shall submit the Notification of Compliance Status for 40 CFR 63, Subpart JJJJJ no later than 120 days after the applicable compliance date. The Notification of Compliance Status shall contain the following information and certifications of compliance, and shall be signed by a responsible official [40 CFR 63.11225(a)(4)]:
  - i) The information required in 40 CFR 63.9(h)(2), except the information listed in 40 CFR 63.9(h)(2)(i)(B), (D), (E), and (F) [40 CFR 63.11225(a)(4)(i)].
  - ii) “This facility complies with the requirements in 40 CFR 63.11214 to conduct an initial tune-up of the boiler” [40 CFR 63.11225(a)(4)(ii)].
  - iii) “This facility has had an energy assessment performed according to 40 CFR 63.11214(c)” [40 CFR 63.11225(a)(4)(iii)].
  - iv) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: “No secondary materials that are solid waste were combusted in any affected unit” [40 CFR 63.11225(a)(4)(v)].
  - v) The notification shall be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA’s Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status shall be submitted to the Administrator at the appropriate address listed in 40 CFR 63.13 [ ].
- e) The permittee shall prepare, by March 1 biennially, and submit to the delegated authority upon request, an annual compliance certification report for the previous biennial period containing the following information [40 CFR 63.11225(b)]:
  - i) Company name and address [40 CFR 63.11225(b)(1)].

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- ii) Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the report and a statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR 63, Subpart JJJJJ. The report shall include the following certification(s) of compliance, as applicable, and signed by a responsible official [40 CFR 63.11225(b)(2)]:
  - A) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler" [40 CFR 63.11225(b)(2)(i)].
  - B) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit" [40 CFR 63.11225(b)(2)(ii)].
  
- f) See **Section F – Monitoring, Recordkeeping, and Reporting Requirements.**

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

**Emission Unit 16 - (16-001) Indirect Heat Exchanger (Boiler 12)**

**Description:**

Natural gas fired indirect heat exchanger.

Maximum continuous rating: 179 MMBtu /hr

Construction commenced: June 1, 2018

**APPLICABLE REGULATIONS:**

401 KAR 59:015, New indirect heat exchangers; and

401 KAR 60:005, Section 2(2)(c) 40 CFR 60.40b to 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) During a startup period or 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].
  - i) The permittee shall comply with 401 KAR 50:055, Section 2(5) [401 KAR 59:015, Section 7(1)(a)].
  - ii) 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)].
  - iii) All reasonable steps shall be taken by the permittee to minimize the impact of emissions on ambient air quality from the affected facility during startup periods and shutdown periods [401 KAR 59:015, Section 7(1)(c)].
  - iv) The actions, including duration of the startup period, of the permittee of each affected facility during startup periods and shutdown periods, shall be documented by signed, contemporaneous logs or other relevant evidence [401 KAR 59:015, Section 7(1)(d)].
  - v) Startups and shutdowns shall be conducted according to either [401 KAR 59:015, Section 7(1)(e)]:
    - A) The manufacturer's recommended procedures or [401 KAR 59:015, Section 7(1)(e)1.];
    - B) 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 of the affected facility [401 KAR 59:015 Section 7(1)(e)2.].

**Compliance Demonstration:** See **5. Specific Recordkeeping Requirements:** (b).

- b) The permittee shall limit operation of EU 16 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b. for the distillery source].

**SECTION B - EMISSION UNITS, EMISSION POINTS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations:**

- a) Particulate emissions shall not exceed 0.10 lb/MMBtu [401 KAR 59:015, Section 4(1)(b)].
- b) Visible emissions shall not exceed 20% opacity except [401 KAR 59:015 Section 4(2)]:
  - i) that a maximum of 27% opacity shall be allowed for one 6 minute period in any 60 consecutive minutes [401 KAR 59:015, Section 4(2)(a)];
  - ii) for emissions caused by building a new fire, emissions during the period required to bring up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4(2)(c)].

**Compliance Demonstration** for (a) and (b): This unit is assumed to be in compliance with the allowable PM and opacity limitations while burning natural gas.

- c) The sulfur dioxide emissions shall not exceed 0.20 lb/MMBtu heat input or 8 percent (0.08) of the potential SO<sub>2</sub> emission rate (92 percent reduction) and 520 ng/J (1.2 lb/MMBtu) heat input [40 CFR 60.42b(k)(1)].
- d) The permittee shall not cause to be discharged into the atmosphere from the unit any gases that contain NO<sub>x</sub> (expressed as NO<sub>2</sub>) in excess of 86 ng/J (0.20 lb/MMBtu) heat input [40 CFR 60.44b(l) and 60.44b(l)(1)]. This NO<sub>x</sub> standard applies at all times including periods of startup, shutdown, or malfunction [40 CFR 60.44b(h)]. Compliance with this NO<sub>x</sub> standard is determined on a 30-day rolling average basis [40 CFR 60.44b(i)].

**Compliance Demonstration:** See 3. **Testing Requirements:** (b).

- e) See Section D – Source Emission Limitation and Testing Requirements

**3. Testing Requirements:**

- a) Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section (4).
- b) To determine compliance with the emission limits for NO<sub>x</sub> required under 40 CFR 60.44b, the permittee shall conduct a performance test using the continuous system for monitoring NO<sub>x</sub> under 40 CFR 60.48b(b) (NO<sub>x</sub> CEMS) within 60 days after achieving the maximum production rate at which the emission units will be operated, but not later than 180 days after initial startup, or at such other times specified in 40 CFR 60, and at such other times as may be required by the Administrator [40 CFR 60.46b(e) and 40 CFR 60.8].
- c) For the initial compliance test, NO<sub>x</sub> emissions from the steam generating unit shall be monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the NO<sub>x</sub> emission standards under 40 CFR 60.44b. The 30-day average emission rate shall be calculated as the average of all

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

hourly emissions data recorded by the monitoring system during the 30-day test period [40 CFR 60.46b(e)(1)].

- d) Following the date on which the initial performance test is completed, the permittee shall upon request determine compliance with the NO<sub>x</sub> standards in 40 CFR 60.44b through the use of a 30-day performance test. During periods when performance tests are not requested, NO<sub>x</sub> emissions data collected pursuant to 40 CFR 60.48b(g)(1) or 40 CFR 60.48b(g)(2) shall be used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NO<sub>x</sub> emission standards. A new 30-day rolling average emission rate shall be calculated for each steam generating unit operating day as the average of all of the hourly NO<sub>x</sub> emission data for the preceding 30 steam generating unit operating days [40 CFR 60.46b(e)(4)].

**4. Specific Monitoring Requirements:**

- a) The permittee shall monitor the amount of natural gas combusted, in MMscf, on a monthly basis [401 KAR 52:020, Section 10 and 40 CFR 60.49b(d)(2)].
- b) The permittee shall either [40 CFR 60.48b(g)]:
- i) Comply with the provisions of paragraphs (b), (c), (d), (e)(2), (e)(3), and (f) of 40 CFR 60.48b (NO<sub>x</sub> CEMS) [40 CFR 60.48b(g)(1)]; or
  - ii) Monitor steam generating unit operating conditions and predict NO<sub>x</sub> emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c) [40 CFR 60.48b(g)(2)]. See **6. Specific Reporting Requirements:** (d).
- c) If the option to operate NO<sub>x</sub> CEMS is selected, the permittee shall install, calibrate, maintain, and operate CEMS for measuring NO<sub>x</sub> and O<sub>2</sub> (or CO<sub>2</sub>) emissions discharged to the atmosphere, and shall record the output of the system [40 CFR 60.48b(b)(1)].
- i) The CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments [40 CFR 60.48b(c)].
  - ii) The 1-hour average NO<sub>x</sub> emission rates measured by the continuous NO<sub>x</sub> monitor shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2) [40 CFR 60.48b(d)].
  - iii) The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems [40 CFR 60.48b(e)].
  - iv) The NO<sub>x</sub> CEMS span value is 500 ppm. As an alternative, the permittee may elect to use the NO<sub>x</sub> span values determined according to 40 CFR 75, Appendix A, Section 2.1.2 [40 CFR 60.48b(e)(2)(i) and 60.48b(e)(2)(ii)].
  - v) Span values computed under 40 CFR 60.48b(e)(2)(ii) shall be rounded off according to 40 CFR 75, Appendix A, Section 2.1.2 [40 CFR 60.48b(e)(3)].
  - vi) When NO<sub>x</sub> emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by

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

using standby monitoring systems, Method 7 or 7A of appendix A to 40 CFR 60 or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days [40 CFR 60.48b(f)].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain records of the amount of natural gas combusted, in MMscf, on a monthly basis [401 KAR 52:020, Section 10 and 40 CFR 60.49b(d)(2)].
- 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 actions taken. [401 KAR 59:020, Section 10].
- c) The permittee shall maintain records required by 40 CFR 60, Subpart Db for a period of two (2) years following the date of such record [40 CFR 60.49b(o)], and five years per **Section F – Monitoring, Recordkeeping, and Reporting Requirements**, item 2.
- d) The permittee shall maintain records of the following information for each steam generating unit operating day [40 CFR 60.49b(g)]:
  - i) Calendar date [40 CFR 60.49b(g)(1)];
  - ii) The average hourly NO<sub>x</sub> emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/MMBtu heat input) measured or predicted [40 CFR 60.49b(g)(2)];
  - iii) The 30-day average NO<sub>x</sub> emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days [40 CFR 60.49b(g)(3)];
  - iv) Identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> emissions standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken [40 CFR 60.49b(g)(4)];
  - v) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken [40 CFR 60.49b(g)(5)];
  - vi) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data [40 CFR 60.49b(g)(6)];
  - vii) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted [40 CFR 60.49b(g)(7)];
  - viii) Identification of the times when the pollutant concentration exceeded full span of the CEMS [40 CFR 60.49b(g)(8)];
  - ix) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3 [40 CFR 60.49b(g)(9)]; and
  - x) Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR 60, Appendix F, Procedure 1 [40 CFR 60.49b(g)(10)].

**SECTION B - EMISSION UNITS, EMISSION POINTS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****6. Specific Reporting Requirements:**

- a) The reporting period required for the periodic reports required under 40 CFR 60, Subpart Db is each six (6)-month period. All reports shall be submitted to the Administrator and shall be postmarked by the thirtieth (30th) day following the end of the reporting period [40 CFR 60.49b(w)].
- b) The permittee shall submit notification of the initial startup to the Cabinet, which includes the information required by 40 CFR 60.49b(a).
  - i) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility; and
  - ii) The annual capacity factor at which the permittee anticipates operating the facility based on all fuels fired and based on each individual fuel fired.
- c) The permittee of each affected facility subject to the SO<sub>2</sub>, PM, or NO<sub>x</sub> emission limits under 40 CFR 60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B of 40 CFR 60 [40 CFR 60.49b(b)].
- d) The permittee of each affected facility subject to the NO<sub>x</sub> standard in 40 CFR 60.44b who seeks to demonstrate compliance with those standards through the monitoring of steam generating unit operating conditions in the provisions of 40 CFR 60.48b(g)(2) shall submit to the Administrator for approval a plan that identifies the operating conditions to be monitored in 40 CFR 60.48b(g)(2) and the records to be maintained in 40 CFR 60.49b(g). This plan shall be submitted to the Administrator for approval within 360 days of the initial startup of the affected facility. If the plan is approved, the permittee shall maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. The plan shall [40 CFR 60.49b(c)]:
  - i) Identify the specific operating conditions to be monitored and the relationship between these operating conditions and NO<sub>x</sub> emission rates (i.e., ng/J or lbs/MMBtu heat input). Steam generating unit operating conditions include, but are not limited to, the degree of staged combustion (i.e., the ratio of primary air to secondary and/or tertiary air) and the level of excess air (i.e., flue gas O<sub>2</sub> level) [40 CFR 60.49b(c)(1)];
  - ii) Include the data and information that the permittee used to identify the relationship between NO<sub>x</sub> emission rates and these operating conditions [40 CFR 60.49b(c)(2)]; and
  - iii) Identify how these operating conditions, including steam generating unit load, will be monitored under 40 CFR 60.48b(g) on an hourly basis by the permittee during the period of operation of the emission units; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the permittee under 40 CFR 60.49b(g) [40 CFR 60.49b(c)(3)].

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- e) The permittee shall submit excess emission reports for any excess emissions that occurred during the reporting period [40 CFR 60.49b(h)]. For purposes of 40 CFR 60.48b(g)(1), excess emissions are defined as any calculated 30-day rolling average NO<sub>x</sub> emission rate, as determined under 40 CFR 60.46b(e), that exceeds the applicable emission limits in 40 CFR 60.44b [40 CFR 60.49b(h)(4)].
- f) The permittee shall submit reports of the following information for each steam generating unit operating day [40 CFR 60.49b(i)]:
  - i) Calendar date;
  - ii) The average hourly NO<sub>x</sub> emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/MMBtu heat input) measured or predicted;
  - iii) The 30-day average NO<sub>x</sub> emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
  - iv) Identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> emissions standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
  - v) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
  - vi) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
  - vii) Identification of “F” factor used for calculations, method of determination, and type of fuel combusted;
  - viii) Identification of the times when the pollutant concentration exceeded full span of the CEMS;
  - ix) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
  - x) Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR 60, Appendix F, Procedure 1.
- g) Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting the definition in 40 CFR 60, Subpart Db, natural gas, wood, and/or other fuels that are known to contain insignificant amounts of sulfur were combusted in the affected facility during the reporting period [40 CFR 60.49b(r)(1)].
- h) The permittee may submit electronic quarterly reports for NO<sub>x</sub> in lieu of submitting the written reports required under paragraphs 40 CFR 60.49b(h), (i), (j), (k) or (l). The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the permittee, indicating whether compliance with the applicable emission standards and minimum data requirements of 40 CFR 60, Subpart Db was achieved during the reporting period. Before

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

submitting reports in the electronic format, the permittee shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format [40 CFR 60.49b(v)].

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

**SECTION B - EMISSION UNITS, EMISSION POINTS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Emission Units 17 & 18 (17-001 & 18-001) - Gasoline Storage Tanks (Double-Walled)****Description:**

Two (2) gasoline dispensing tanks

Capacity/Construction Date: EU 17 (Thunder Gas) - 1,120 gallons; constructed pre-2019

EU 18 (Farm Gas) - 250 gallons; constructed pre-2019

Each gasoline storage tank dispenses gasoline into the fuel tank of a motor vehicle, motor vehicle engine, nonroad vehicle, or nonroad engine.

**APPLICABLE REGULATIONS:**

401 KAR 50:012, General application

401 KAR 63:002, Section 2(4)(ddddd) 40 CFR 63.11110 to 63.11132, Tables 1 to 3 (Subpart CCCCCC), National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) The permittee shall comply with the requirements for the maximum recorded site-wide monthly throughput of gasoline since January 10, 2011. If monthly throughput exceeds a threshold at any time, the permittee shall comply with the applicable requirements of 63.11117 or 63.11118 within three years, as required by 63.11113(c) [40 CFR 63.11111(i)].

**Compliance Demonstration:** See **4. Specific Monitoring Requirements:** and **5. Specific Recordkeeping Requirements:** (a) and (b).

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

**Compliance Demonstration:** The permittee shall state in the annual compliance report required by **Section F Monitoring, Recordkeeping and Reporting Requirements**, item 9, that each gasoline storage tank has been maintained in accordance with **1. Operating Limitations:** (b) and (d).

- c) The permittee shall have documentation of gasoline throughput available within 24 hours of a request by the Administrator [40 CFR 63.11116(b)].

**Compliance Demonstration:** See **5. Specific Recordkeeping Requirements:** (a).

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

- d) The permittee shall, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source [40 CFR 63.11115(a)].

**Compliance Demonstration:** See **1. Operating Limitations:** (b).

- e) See **Section D – Source Emission Limitations and Testing Requirements** item 6. for 401 KAR 50:012 requirements.
- f) The permittee shall limit operation of EU 17 and 18 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC emission limitation taken by the Permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

**2. Emission Limitations:**

See **Section D – Source Emission Limitation and Testing Requirements.**

**3. Testing Requirements:**

Any required performance tests on gasoline storage tanks shall be conducted under conditions specified or approved by the Administrator [40 CFR 63.11120(c)].

**4. Specific Monitoring Requirements:**

- a) The permittee shall monitor one of the following parameters [40 CFR 63.11116(b)]:
- i) The volume of gasoline loaded into gasoline storage tanks, or
  - ii) The volume of gasoline dispensed from gasoline storage tanks.

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall keep records of gasoline throughput, summarized monthly [401 KAR 52:020, Section 10].
- b) Should gasoline throughput exceed 10,000 gallons in one month, the permittee shall [40 CFR 63.11124]:
- i) The permittee shall submit an Initial Notification at the time the gasoline storage tank becomes subject to the control requirements in 40 CFR 63.11117. The Initial Notification shall be submitted to the applicable EPA Regional Office and DAQ Regional Office, and shall contain the following information [40 CFR 63.11124 (a)(1)]:
    - A) Name and address of the permittee [40 CFR 63.11124 (a)(1)(i)];
    - B) Address (i.e., physical location) of the facility [40 CFR 63.11124 (a)(1)(ii)]; and

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

- C) A statement that the notification is being submitted in response to 40 CFR 63 Subpart CCCCCC and identifying the requirements in 40 CFR 63.11117 that apply to the facility [40 CFR 63.11124 (a)(1)(iii)].
- ii) The permittee shall submit a Notification of Compliance Status to the applicable EPA Regional Office and DAQ Regional Office within 60 days of the applicable compliance date. The Notification of Compliance Status shall be signed by a responsible official who shall certify its accuracy, indicate whether the source has complied with the requirements of this subpart, and indicate whether the facilities' monthly throughput is calculated based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks. If the facility is in compliance with the requirements of 40 CFR 63, Subpart CCCCCC at the time the Initial Notification is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains all information required for the Initial Notification [40 CFR 63.11124(a)(2)].

**6. Specific Reporting Requirements:**

The permittee shall submit a Notification of Performance Test prior to initiating testing required by 40 CFR 63, Subpart CCCCCC on gasoline cargo tanks or gasoline storage tanks [40 CFR 63.11124(b)(4)].

**SECTION B - EMISSION UNITS, EMISSION POINTS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Emission Unit 19-001 - Natural Gas-fired Emergency Engine****Description:**

Natural gas-fired emergency engine G001

Rated capacity: 107 bhp

Manufacturer: Generac generator with Ford engine

Manufacture date: September 2007

**APPLICABLE REGULATIONS:**

401 KAR 60:005, Section 2(2)(eeee) 40 CFR 60.4230 to 60.4248, Tables 1 to 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Note: D.C. Circuit Court [*Delaware v. EPA*, 785 F. 3d 1 (D.C. Cir. 2015)] has vacated the provisions in 40 CFR 60, Subpart JJJJ that contain the 100-hour exemption for operation of emergency engines for purposes of emergency demand response under 40 CFR 60.4243(d)(2)(ii)-(iii). The D.C. Circuit Court issued the mandate for the vacatur on May 4, 2016.

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

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) The permittee shall operate the emergency stationary ICE according to the requirements of 40 CFR 60.4243(d)(1) through (3). 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, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 60.4243(d)(1) through (3), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 60.4243(d)(1) through (3), the engine will not be considered an emergency engine under 40 CFR 60, Subpart JJJJ and shall meet all requirements for non-emergency engines [40 CFR 60.4243(d)]:
  - i) There is no time limit on the use of emergency stationary ICE in emergency situations [40 CFR 60.4243(d)(1)].
  - ii) The permittee may operate the emergency stationary ICE for any combination of the purposes specified in 40 CFR 60.4243(d)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4243(d)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR 60.4243(d)(2) [40 CFR 60.4243(d)(2)].
    - A) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the

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

Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year [40 CFR 60.4243(d)(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 as provided in 40 CFR 60.4243(d)(2). Except as provided in 40 CFR 60.4243(d)(3)(i), 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 60.4243(d)(3)]. 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 60.4243(d)(3)(i)]
  - A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator [40 CFR 60.4243(d)(3)(i)(A)];
  - B) 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 60.4243(d)(3)(i)(B)];
  - C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines [40 CFR 60.4243(d)(3)(i)(C)].
  - D) The power is provided only to the facility itself or to support the local transmission and distribution system [40 CFR 60.4243(d)(3)(i)(D)].
  - E) The permittee 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 permittee [40 CFR 60.4243(d)(3)(i)(E)].
- b) The permittee shall meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ. No further requirements apply under 40 CFR 63 [40 CFR 63.6590(c) and 63.6590(c)(1)].
- c) The permittee shall limit operation of EU 19-001 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the Permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

**2. Emission Limitations:**

See **Section D - Source Emission Limitations and Testing Requirements.**

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

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 4.

**4. Specific Monitoring Requirements:**

- a) The permittee shall use a non-resettable operating hour meter to monitor hours of operation in emergency and nonemergency service [401 KAR 52:020, Section 10].
- b) The permittee shall monitor the amount of natural gas combusted, in MMscf, and hours of operation on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter, including the time of operation of the engine and the reason the engine was in operation during that time. [401 KAR 52:020, Section 10].
- b) The permittee shall maintain records of the amount of natural gas combusted, in MMscf on a monthly basis [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 19-002 - Natural Gas-fired Emergency Engine****Description:**

Natural gas-fired emergency engine G002

Rated capacity: 126 bhp

Manufacturer: Cummins generator/engine

Manufacture date: May 2006

**APPLICABLE REGULATIONS:**

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

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

**NON APPLICABLE REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitation:**

- a) The permittee shall be in compliance with the emission limitations and operating limitations in 40 CFR 63, Subpart ZZZZ that apply at all times [40 CFR 63.6605(a)].
- b) At all times, the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source [40 CFR 63.6605(b)].
- c) The permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a site-specific maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions [40 CFR 63.6625(e), 40 CFR 63.6640(a), Table 6, Item 9.2.i.-ii.].
- d) The permittee shall operate the emergency stationary RICE according to the requirements of 40 CFR 63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under 40 CFR 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and

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operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (4), the engine will not be able to be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and shall meet all requirements for non-emergency engines. [40 CFR 63.6640(f)]

- i) There is no time limit on the use of emergency stationary RICE in emergency situations [40 CFR 63.6640(f)(1)].
- ii) The permittee may operate the emergency stationary RICE for any combination of the purposes specified in 40 CFR 63.6640(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 63.6640(f)(3) and (4) counts as part of the 100 hours per calendar year allowed by 40 CFR 63.6640(f)(2) [40 CFR 63.6640(f)(2)].
  - A) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year [40 CFR 63.6640(f)(2)(i)].
- iii) The permittee may operate the emergency stationary RICE 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 and emergency demand response provided in 40 CFR 63.6640(f)(2). Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), 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 63.6640(f)(4)]. 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 63.6640(f)(4)(ii)]
  - A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator [40 CFR 63.6640(f)(4)(ii)(A)].
  - B) 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 63.6640(f)(4)(ii)(B)].
  - C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines [40 CFR 63.6640(f)(4)(ii)(C)].
  - D) The power is provided only to the facility itself or to support the local transmission and distribution system [40 CFR 63.6640(f)(4)(ii)(D)].

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- E) The permittee identifies and records the entity that dispatches the engine and 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 63.6640(f)(4)(ii)(E)].

**Compliance Demonstration:** Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements**.

- e) The permittee shall comply with the following requirements [40 CFR 63.6640(a); 40 CFR 63.6603(a); 40 CFR 63, Subpart ZZZZ, Table 2d]:
- i) Change oil and filter every 500 hours of operation or annually, whichever comes first [40 CFR 63, Subpart ZZZZ, Table 2d(5)(a)];
  - ii) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary [40 CFR 63, Subpart ZZZZ, Table 2d(5)(b)].
  - iii) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary [40 CFR 63, Subpart ZZZZ, Table 2d(5)(c)]; and
  - iv) Minimize the engine's time spent at idle during startup and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63.6625(h)].
- f) The permittee shall install and use a non-resettable hour meter (if one is not already installed) to monitor G002's operating time [40 CFR 63.6625(f)].

**Compliance Demonstration:** Refer to **5. Specific Recordkeeping Requirements**.

- g) The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in 40 CFR 63, Subpart ZZZZ, Table 2d. The oil analysis shall be performed at the same frequency specified for changing the oil in 40 CFR 63, Subpart ZZZZ, Table 2d. The analysis program shall at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee shall change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee shall change the oil within 2 business days or before commencing operation, whichever is later. The permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program shall be part of the maintenance plan for the engine [40 CFR 63.6625(j)].
- h) The permittee shall limit emissions from EU 19-002 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the Permittee to preclude 401 KAR

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

51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

**2. Emission Limitations:**

See **Section D – Source Emission Limitations and Testing Requirements.**

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 50:045, Section 4.

**4. Specific Monitoring Requirements:**

The permittee shall monitor the amount of natural gas combusted, in MMscf, and hour of operation on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain the following records:
  - i) Hours of operation of the engine as recorded through the non-resettable hour meter. These records shall identify how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation [40 CFR 63.6655(f)].
  - ii) Oil and filter change dates and corresponding engine hours of operation (determined using hour meter, fuel consumption data, or other appropriate methods) [401 KAR 52:020, Section 10].
  - iii) Inspection and replacement dates for spark plugs, hoses, and belts [401 KAR 52:020, Section 10].
  - iv) Records of the maintenance conducted on G002 and after-treatment control device (if any) in order to demonstrate that the stationary RICE was operated and maintained according to manufacturer's emission-related instructions or the maintenance plan [40 CFR 63.6655(e)].
- b) The permittee shall maintain records of the amount of natural gas combusted, in MMscf, on a monthly basis [401 KAR 52:020, Section 10].
- c) Records shall be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1) [40 CFR 63.6660(a)].
- d) As specified in 40 CFR 63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record [40 CFR 63.6660(b)].
- e) The permittee shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1) [40 CFR 63.6660(c)].

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

**6. Specific Reporting Requirements:**

- a) The permittee shall report each instance in which an emission limitation or operating limitation in 40 CFR 63, Subpart ZZZZ, Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d that applies to the engine was not met. These instances are deviations from the emission and operating limitations in 40 CFR 63, Subpart ZZZZ. These deviations shall be reported according to the requirements in 40 CFR 63.6650 [40 CFR 63.6640(b)].
- b) The permittee shall also report each instance in which an applicable requirement in 40 CFR 63, Subpart ZZZZ, Table 8 was not met [40 CFR 63.6640(e)].
- c) See **Section F – Monitoring, Recordkeeping, and Reporting Requirements.**

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

**Emission Units 26 (26-001), 27 (27-001), 28 (28-001), & 29 (29-001) - Diesel-fired Emergency Engines**

**Description:**

EU 26-001: Caterpillar diesel-fired emergency engine/generator G003

Rated capacity: 315 HP

Construction commenced: 2018

EU 27-001: Clark diesel-fired fire pump engine FP01

Rated capacity: 315 HP

Construction commenced: 2016

EU 28-001: Clark diesel-fired fire pump engine FP02

Rated capacity: 315 HP

Construction commenced: 2016

EU 29-001: Clark diesel-fired fire pump engine FP03

Rated capacity: 400 HP

Construction commenced: 2018

**APPLICABLE REGULATIONS:**

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

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

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

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) The permittee shall meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII for each engine. No further requirements apply under 40 CFR 63 [40 CFR 63.6590(c) and 63.6590(c)(1)].
- b) The permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel in each engine [40 CFR 60.4207(b)].
- c) The permittee shall: [40 CFR 60.4211(a)]
  - i) Operate and maintain each stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; and [40 CFR 60.4211(a)(1)]

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

- ii) Change only those emission-related settings that are permitted by the manufacturer [40 CFR 60.4211(a)(2)].
  
- d) 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 engine to be considered an emergency stationary ICE under this 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 permittee does not operate the engine according to the requirements in 40 CFR 60.4211(f)(1) through (3), the engine will not be considered an emergency engine under 40 CFR 60, Subpart IIII and must 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) You may operate your emergency stationary ICE for any combination of the purposes specified in 40 CFR 60.4211(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4211(f)(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)].
    - A) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Cabinet 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 [40 CFR 60.4211(f)(2)(i)].
    - B) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3 [40 CFR 60.4211(f)(2)(ii)].
    - C) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency [40 CFR 60.4211(f)(2)(iii)].
  - 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 and emergency demand response 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

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

generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity [40 CFR 60.4211(f)(3)].

- A) 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)(i)]:
- I) The engine is dispatched by the local balancing authority or local transmission and distribution system operator [40 CFR 60.4211(f)(3)(i)(A)];
  - II) 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)];
  - III) The dispatch follows 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)];
  - IV) 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)];
  - V) 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)].

**Compliance Demonstration:** Refer to **5. Specific Recordkeeping Requirements:** (c).

- e) The permittee shall limit operation of EU 26-29 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the Permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b.].

**2. Emission Limitations:**

- a) The permittee shall purchase engines certified to the emission standards in 40 CFR 60.4205(b) for EU 26 (G003) and in 40 CFR 60.4205(c) for EU 27 (FP01), EU 28 (FP02), and EU 29 (FP03) for the same model year and maximum engine power. Each 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)].
- i) If the permittee does not install, configure, operate, and maintain each engine and control device according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee shall demonstrate compliance as follows: [40 CFR 60.4211(g)]
  - ii) The permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee shall conduct an initial performance test to demonstrate

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

compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer [40 CFR 60.4211(g)(2)].

b) See **Section D - Source Emission Limitations and Testing Requirements**, item 5.

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2 (2) and 401 KAR 50:045, Section 4.

**4. Specific Monitoring Requirements:**

a) The permittee shall monitor the amount of diesel combusted, in gallons, and hours of operation for each engine on a monthly basis [401 KAR 52:020, Section 10].

b) The permittee shall install a non-resettable hour meter on each engine if one is not already installed [40 CFR 60.4209(a)].

**5. Specific Recordkeeping Requirements:**

a) The permittee shall maintain records of the amount of diesel combusted, in gallons, and hours of operation for each engine on a monthly basis [401 KAR 52:020, Section 10].

b) The permittee shall keep records of the operation of each engine in emergency and nonemergency service that are recorded through the non-resettable hour meter. 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)]

**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 20 (20-001) Indirect Heat Exchangers****Description:**

Six Natural gas fired indirect heat exchanger.

Two 2019 replacement indirect heat exchangers at 1.44 MMBtu/hr for Warehouse R&S

One 2018 replacement indirect heat exchangers at 1.44 MMBtu/hr and one backup 2012 boiler at 1.86 MMBtu/hr for warehouses T&U

Two 1998 indirect heat exchangers at 1.81 MMBtu/hr for old bottling area

Fuel: Natural gas

Construction commenced: 1998-2019

**APPLICABLE REGULATIONS:**

401 KAR 59:015, New indirect heat exchangers

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of Significant Deterioration of air quality

**1. Operating Limitations:**

- a) During a startup period or 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].
  - i) The permittee shall comply with 401 KAR 50:055, Section 2(5) [401 KAR 59:015, Section 7(1)(a)].
  - ii) 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)].
  - iii) All reasonable steps shall be taken by the permittee to minimize the impact of emissions on ambient air quality from the affected facility during startup periods and shutdown periods [401 KAR 59:015, Section 7(1)(c)].
  - iv) The actions, including duration of the startup period, of the permittee of each affected facility during startup periods and shutdown periods, shall be documented by signed, contemporaneous logs or other relevant evidence [401 KAR 59:015 Section 7(1)(d)].
  - v) Startups and shutdowns shall be conducted according to either [401 KAR 59:015 Section, 7(1)(e)]:
    - A) The manufacturer's recommended procedures or [401 KAR 59:015, Section 7(1)(e)1.]; or
    - B) 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 of the affected facility [401 KAR 59:015, Section 7(1)(e)2.];

**Compliance Demonstration:** See **5. Specific Recordkeeping Requirements:** (b).

- b) The permittee shall limit operation of EU 20 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the Permittee to preclude 401 KAR 51:017

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

when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b. for the distillery source].

**2. Emission Limitations:**

- a) Particulate emissions shall not exceed 0.10 lb/MMBtu each [401 KAR 59:015, Section 4(1)(b)].
- b) Visible emissions shall not exceed 20% opacity except [401 KAR 59:015 Section 4(2)]:
  - i) that a maximum of 27% opacity shall be allowed for one 6 minute period in any 60 consecutive minutes [401 KAR 59:015, Section 4(2)(a)];
  - ii) for emissions caused by building a new fire, emissions during the period required to bring up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4(2)(c)].
- c) The sulfur dioxide emissions shall not exceed 0.8 lb/MMBtu each [401 KAR 59:015, Section 5(1)(b)1.].

**Compliance Demonstration** for (a) through (c): These units are assumed to be in compliance with the allowable PM, SO<sub>2</sub>, and opacity limitations while burning natural gas.

d) See **Section D – Source Emission Limitation and Testing Requirements.**

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 4.

**4. Monitoring Requirements:**

The permittee shall monitor the amount of natural gas combusted, in MMscf, in each unit on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain records of the amount of natural gas combusted, in MMscf, in each unit 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 actions 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)****Emissions Unit 30 (30-001) Indirect Heat Exchangers at Farm Rickhouses****Description:**

One natural gas fired indirect heat exchanger at each of the 14 new Rickhouses at the Farm.  
Maximum continuous rating: 70 MMBtu/hr, total; 5 MMBtu/hr, each  
Construction commenced: 2018-2022

**APPLICABLE REGULATIONS:**

401 KAR 59:015, New indirect heat exchangers

**PRECLUDED REGULATIONS:**

401 KAR 51:017, Prevention of significant deterioration of air quality

**1. Operating Limitations:**

- a) During a startup period or 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].
  - i) The permittee shall comply with 401 KAR 50:055, Section 2(5) [401 KAR 59:015, Section 7(1)(a)].
  - ii) 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)].
  - iii) All reasonable steps shall be taken by the permittee to minimize the impact of emissions on ambient air quality from the affected facility during startup periods and shutdown periods [401 KAR 59:015, Section 7(1)(c)].
  - iv) The actions, including duration of the startup period, of the permittee of each affected facility during startup periods and shutdown periods, shall be documented by signed, contemporaneous logs or other relevant evidence [401 KAR 59:015, Section 7(1)(d)].
  - v) Startups and shutdowns shall be conducted according to either [401 KAR 59:015, Section 7(1)(e)]:
    - A) The manufacturer's recommended procedures or [401 KAR 59:015, Section 7(1)(e)1.];
    - B) 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 of the affected facility [401 KAR 59:015 Section 7(1)(e)2.];

**Compliance Demonstration:** See 5. **Specific Recordkeeping Requirements:** (b).

- b) The permittee shall limit emissions from EU 30 to an amount, based upon the most recent emission factors approved by the Division, which would not cause an exceedance of the VOC and NO<sub>x</sub> emission limitations taken by the permittee to preclude 401 KAR 51:017 when considered in aggregate with emissions from other non-fugitive sources [Preclude 401 KAR 51:017 and 51:001, Section 1(118)(a)2.b. for the distillery source].

**2. Emission Limitations:**

- a) Particulate emissions shall not exceed 0.10 lb/MMBtu each [401 KAR 59:015, Section 4(1)(b)].

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

- b) Visible emissions shall not exceed 20% opacity except [401 KAR 59:015 Section 4(2)]:
  - i) that a maximum of 27% opacity shall be allowed for one 6 minute period in any 60 consecutive minutes [401 KAR 59:015, Section 4(2)(a)];
  - ii) for emissions caused by building a new fire, emissions during the period required to bring up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4(2)(c)].
- c) The sulfur dioxide emissions shall not exceed 0.8 lb/MMBtu [401 KAR 59:015, Section 5(1)(b)1.].

**Compliance Demonstration** for (a) through (c): These units are assumed to be in compliance with the allowable PM, SO<sub>2</sub>, and opacity limitations while burning natural gas.

- d) See **Section D – Source Emission Limitation and Testing Requirements.**

**3. Testing Requirements:**

Testing shall be conducted at such time as may be requested by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 4.

**4. Monitoring Requirements:**

The permittee shall monitor the amount of natural gas combusted, in MMscf, in each unit on a monthly basis [401 KAR 52:020, Section 10].

**5. Specific Recordkeeping Requirements:**

- a) The permittee shall maintain records of the amount of natural gas combusted, in MMscf, in each unit 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 actions taken. [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.

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. 01-003 - Grain Cleaner Receiver Cyclone	401 KAR 61:020
2. 01-004 - Grain Bin Loading	401 KAR 59:010
3. 01-007 - Meal Bin Loading	401 KAR 61:020
4. 02-002 - Beer Well	NA
5. 02-007 - 2 Spirits Process Vessels and Storage Tanks (103,025 gal/ea)	NA
6. 02-008 - Heads and Tails Tanks	NA
7. 02-009 - Receiving Cistern Tanks	NA
8. 03-004 - Distiller's Dried Grain Conveying	401 KAR 61:020
9. 07-005 - Blanton Fill Line #1	NA
10. 07-005a - Blanton Fill Line #2	NA
11. 07-005b - Blanton/Weller Fill Line	NA
12. 07-005c - #52 Fill Line	NA
13. 07-006 - Labeling/Case Sealing	NA
14. 07-007 - Case Printing	NA
15. 09-010 - Blended/Used Oil Tank	NA
16. 09-011 - Caustic Tanks-NaOH	NA
17. 11-001 - Unpaved Roads	401 KAR 63:010
18. N/A Maintenance Equipment	NA
19. N/A Evaporative Chiller	401 KAR 63:010
20. N/A Three 10,000 gallon Grain Cookers	401 KAR 63:010
21. N/A/ Two 10,200 gallon Platinum Process Vessels and Storage Tanks	NA
22. N/A Two 13,800 gallon Bourbon Process Vessels and Storage Tanks	NA
23. Micro Distillation System	NA
24. Wastewater Treatment Plant	NA
24B Replacement Wastewater Treatment Plant	NA
25. Replacement Cooling Tower #1	401 KAR 59:010
26. Bitters Operations	NA
27. Equipment Leaks Components	NA
28. Dryhouse #1: Two 110,000 gallon Open-top Thick Stillage Storage Tanks	NA
29. Dryhouse#1: Four Evaporators	NA
30. Cistern Barrel Filling Station	NA
31. Regauge Barrel Dumping	NA
32. Thin Stillage Tanks	NA
33. Misc. Indoor Process/Storage Tanks in Bldg 3	NA
34. Misc. Outdoor Process/Storage Tanks Near Bldg 3	NA
35. Misc. Process Tanks in Cistern Area (CR5, CR17-CR23)	NA
36. Misc. Process Tanks in Regauge (R2-R6, R10)	NA
37. Tank Farm Storage Tanks (S3-S5)	NA

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

- |  |                |
|--|----------------|
| 38. Misc. Bldg. 33 Process/Storage Tanks in Chill Room                     | NA             |
| 39. Misc. Bldg. 33, 26, and 39 Process/Storage Tanks                       | NA             |
| 40. Misc. Bldg 33 & 26 process Storage Tanks                               | NA             |
| 41. Misc. Bldg 45 Process/Storage Tanks                                    | NA             |
| 42. Misc. Bldg 52 Process/Storage Tanks                                    | NA             |
| 43. Plant Expansion: Equipment Leaks Components                            | NA             |
| 44. Two 40,000 gallon Cookers with Drop Tanks                              | NA             |
| 45. Bldg. 81 Process/Storage Tanks in Legends Hall                         | NA             |
| 46. DDGS Dryhouse #2 Two 110,000 gal Open-Top Thick Stillage Storage Tanks | NA             |
| 47. DDGS Dryhouse #2: Two Evaporators                                      | NA             |
| 48. Cooling Tower #2   | 401 KAR 59:010 |
| 49. Cooling Tower #3   | 401 KAR 59:010 |

**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, and visible emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 CFR Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.
3. To preclude the applicability 401 KAR 51:017, the permittee shall limit source-wide non-fugitive emissions, including insignificant activities, for VOC and NO<sub>x</sub> to less than 225 tons per year on a 12-month rolling total.

**Compliance Demonstration:** Compliance shall be demonstrated by calculating the monthly and 12-month rolling total VOC emissions from all non-fugitive emissions sources and maintaining records of the monthly and 12-month rolling total VOC and NO<sub>x</sub> emissions from these sources. Monthly VOC and NO<sub>x</sub> emissions for these sources shall be calculated using the most recent emission factors approved by the Division. 12-month rolling total emissions for each semiannual period will be reported in accordance with **Section F – Monitoring, Recordkeeping, and Reporting Requirements**, item 5. The following units shall be monitored.

$$Pollutant < 225 \frac{tons}{year}, \sum_{EU_x} EU$$

$$EU_x = Operating Rate \frac{SCC}{hour} \times Emission Factor \frac{lb}{SCC} \times Activity \frac{hour}{12 - month total} < 225 \frac{tons}{year}$$

<b>Emission Units required monitoring for &lt;225 tpy limit for NO<sub>x</sub> and VOC on a 12-month rolling total</b>	<b>Operating Rate (SCC units/hour)</b>	<b>NO<sub>x</sub> Emission Factor</b>	<b>VOC Emission Factor (lbs/SCC unit)</b>
EU03 - 24 Fermentation Vessels	1 - 0.456 tons/hr 2 - 0.152 tons/hr 3 - 0.304 tons/hr	None	14.3 lbs/ton (for all)
EU04 - Rotary Dryer	1 - 2.5 tons/hr 2 - 2.5tons/hr	None	1 - 0.494 lbs/ton 2 - 3.56 lbs/ton
EU05 - Three Rotary Dryers	1 - 4.0 tons/hr 2 - 4.0 tons/hr	None	1 - 0.494 lbs/ton 2 - 3.56 lbs/ton
EU07 - Bottling Lines	5.71 barrels/hr	None	1.1 lbs/barrel
EU08 - 176 MMBtu/hr Boiler de-rated to 140.8 MMBtu/hr	0.172 MMscf/hr (maximum rate) 0.138 MMscf/hr (de-rated rate)	280 lbs/MMScf (max rate) 185 lbs/MMscf (de-rated rate)	5.5 lbs/MMscf

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

<b>Emission Units required monitoring for &lt;225 tpy limit for NO<sub>x</sub> and VOC on a 12-month rolling total</b>	<b>Operating Rate (SCC units/hour)</b>	<b>NO<sub>x</sub> Emission Factor</b>	<b>VOC Emission Factor (lbs/SCC unit)</b>
EU14 - 60.5 MMBtu/hr Boiler	0.059 MMscf/hr	100 lbs/MMscf	5.5 lbs/MMscf
EU15 - 60.5 MMBtu/hr Boiler	1 - 0.059 scf/hr 2 - 0.88 Mgal/hr	1 - 100 lbs/MMscf 2 - 20 lbs/Mgal	5.5 lbs/MMscf
EU16 - 179.2 MMBtu/hr Boiler	0.176 MMscf/hr	37.128 lbs/MMscf	5.5 lbs/MMscf
EU17 - 1120 gal Gasoline Tank (Thunder)	0.0112 Mgal/hr	None	17.81 lbs/Mgal (breathing, working, loading losses combined)
EU18 - 250 gal Gasoline Tank (Farm)	0.0025 Mgal/hr	None	17.81 lbs/Mgal (breathing, working, loading losses combined)
EU19 - Two Natural Gas Engines	0.001 MMscf/hr, each	4161.60 lb/MMscf, each	120.36 lbs/MMscf
EU20 - Six Small Boilers	0.010 MMscf/hr total	100 lbs/MMscf	5.5 lbs/MMscf
EU21 - No. 1 Bourbon Distillation System	2.08 Mgal/hr 1.19 Mgal/hr	None	0.321 lb/Mgal, each
EU22 - Vodka Distillation System	1.04 Mgal/hr	None	0.321 lb/Mgal
EU23 - Platinum Distillation System	0.39 Mgal/hr	None	0.32 lb/Mgal
EU24 - Building Loadout Station	4.5 Mgal/hr	None	0.693 lb/Mgal
EU25 - Regauge Loadout Station	5.25 Mgal/hr	None	0.89 lb/Mgal
EU26 - Diesel Generator Caterpillar 315 HP	0.01 Mgal/hr	159.1 lb/Mgal	8.6 lb/Mgal
EU27 - Clark Fire Pump Diesel Engine 315 HP	0.02 Mgal/hr	106 lb/Mgal	3.54 lb/Mgal
EU28 - Clark Fire Pump Diesel Engine 315 HP	0.02 Mgal/hr	106 lb/Mgal	3.54 lb/Mgal
EU29 - Clark Fire Pump Diesel Engine 400 HP	0.02 Mgal/hr	122.3 lb/Mgal	1.61 lb/Mgal

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

<b>Emission Units required monitoring for &lt;225 tpy limit for NO<sub>x</sub> and VOC on a 12-month rolling total</b>	<b>Operating Rate (SCC units/hour)</b>	<b>NO<sub>x</sub> Emission Factor</b>	<b>VOC Emission Factor (lbs/SCC unit)</b>
EU30 - 70 MMbtu/hr Indirect Heat Exchangers (14 @ 5 MMBtu/hr)	0.07 Mgal/hr	61.9 lb/Mgal	5.5 lb/Mgal
EU31 - No. 2 Bourbon Distillation System	1 - 2.08 Mgal/hr 2 - 1.19 Mgal/hr	None	0.321 lb/Mgal, each
EU32 - DDGS Dryhouse #2	1 - 18,000 tons/hr 2 - 6.5 tons/hr 3 - 6.5 tons/hr 4 - 6.5 tons/hr 5 - 0.004 tons/hr	None	1 - 4.62E-5 lbs/ton 2 - 3.56 lbs/ton 3 - 3.56 lbs/ton 4 - 0.494 lbs/ton 5 - 5.5 lbs/ton
<b>INSIGNIFICANT ACTIVITIES</b>			
IA4 - 02-002 - Beer Well	The source is obligated to monitor monthly emissions from each insignificant activity listed here, and report source-wide VOC emissions including the operating rates and emission factors used in the calculations of monthly emissions of each insignificant activity		
IA5 - 02-007 - 2 Spirits Process Vessels and Storage Tanks (103,025 gal/ea)			
IA6 - 02-008 - Heads and Tails Tanks			
IA7 - 02-009 - Receiving Cistern Tanks			
IA9 - 07-005 - Blanton Fill Line #1			
IA10 - 07-005a - Blanton Fill Line #2			
IA11 - 07-005b - Blanton/Weller Fill Line			
IA12 - 07-005c - #52 Fill Line			
IA13 - 07-006 - Labeling/Case Sealing			
IA14 - 07-007 - Case Printing			
IA20 - Three 10,000 gallon Grain Cookers			
IA21 - Two 10,200 gallon Platinum Process Vessels and Storage Tanks			

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

<b>Emission Units required monitoring for &lt;225 tpy limit for NO<sub>x</sub> and VOC on a 12-month rolling total</b>	
IA22 – Two 13,800 gallon Bourbon Process Vessels and Storage Tanks	The source is obligated to monitor monthly emissions from each insignificant activity listed here, and report source-wide VOC emissions including the operating rates and emission factors used in the calculations of monthly emissions of each insignificant activity
IA23 - Micro Distillation System	
IA26 – Bitters Operations	
IA28 – Dryhouse #1: two 110,000 gallon open to thick stillage storage tanks	
IA30 – Cistern Barrel Filling Station	
IA31 – Regauge Barrel Dumping	
IA32 – Thin Stillage Tanks	
IA33 – Misc Indoor Process/Storage Tanks in Bldg 3	
IA34 – Misc Outdoor Process/Storage Tanks Near Bldg 3	
IA35 – Misc. Process Tanks in Cistern Area (CR5, CR17-CR23)	
IA36 – Misc. Process Tanks in Regauge (R2-R6, R10)	
IA37 – Tank Farm Storage Tanks (S3-S5)	
IA38 – Misc. Bldg. 33 Process/Storage Tanks in Chill Room	
IA39 – Misc Bldg 33, 26, and 39 Process/Storage Tanks	
IA40 – Misc. Bldg. 33 & 26 Process/Storage Tanks	
IA41 - Misc. Bldg. 45 Process/Storage Tank	
IA42 - Misc Bldg. 52 Process Storage Tank	

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

<b>Emission Units required monitoring for &lt;225 tpy limit for NO<sub>x</sub> and VOC on a 12-month rolling total</b>	
IA44 - Two Cookers (40,000 gal each) with Drop Tanks	The source is obligated to monitor monthly emissions from each insignificant activity listed here, and report source-wide VOC emissions including the operating rates and emission factors used in the calculations of monthly emissions
IA45 - Bldg. 81 Process/Storage Tanks in Ledgens Hall	
IA46 - DDGS Dryhouse #2: Two Open-Top Thick Stillage Storage Tanks (110,000 gallon each)	
IA47 - DDGS Dryhouse #2: Two Evaporators	

- To preclude the applicability of 401 KAR 51:017, Sections 8 through 16, the permittee shall limit the combined NO<sub>x</sub> emissions from EU 16, the three 1.44 MMBtu/hr indirect heat exchangers of EU 20, and EU 30 to less than 36.0 tons per year on a 12-month rolling total.

**Compliance Demonstration:** Compliance shall be demonstrated by adding the monthly NO<sub>x</sub> emissions measured by the NO<sub>x</sub> CEMS on EU 16 to the calculated monthly emissions, based upon monthly natural gas combusted and an emission factor of 100 lb NO<sub>x</sub>/MMscf, for EU 30 and the three indirect heat exchangers from EU 20. The combined monthly NO<sub>x</sub> emissions from EU 16, EU 30, and the three indirect heat exchangers from EU 20 shall be added to the previous 11-months combined NO<sub>x</sub> emissions from EU 16, EU 30, and the three indirect heat exchangers from EU 20 to demonstrate compliance. The permittee shall maintain records of the monthly and 12-month rolling total combined NO<sub>x</sub> emissions from EU 16, EU 30, and the three indirect heat exchangers from EU 20. 12-month rolling total emissions for each semiannual period will be reported in accordance with **Section F – Monitoring, Recordkeeping, and Reporting Requirements**, item 5.

- To preclude classification as a major source of Hazardous Air Pollutants (HAP), the permittee shall limit source-wide emissions, including insignificant activities, of an individual HAP to less than 9.0 tons per year on a 12-month rolling total basis and of total HAPs to less than 22.5 tons per year on a 12-month rolling total basis.

**Compliance Demonstration:** Compliance shall be demonstrated by calculating the monthly and 12-month rolling total HAP emissions from all emissions sources and maintaining records of the monthly and 12-month rolling total HAP emissions from these sources. Monthly HAP emissions shall be calculated using the most recent emission factors approved by the Division. 12-month rolling total emissions for each semiannual period will be reported in accordance with **Section F – Monitoring, Recordkeeping, and Reporting Requirements**, item 5.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

6. All major air contaminant sources shall as a minimum apply control procedures that are reasonable, available, and practical [401 KAR 50:012 Section 1(2)].

**Compliance Demonstration:** The permittee shall submit a Reasonable, Available, and Practical (RAP) control technology analysis addressing VOC emissions from the process units within 90 days after issuance of the final permit. The Division will notify the permittee in writing within 60 days from the date of submittal of the proposed RAP determination of the approval or denial of the submittal. If the proposed RAP determination is denied, the Division will identify the deficiencies in the written notification, and specify a timeframe to submit a revised RAP determination. Once the RAP determination is approved by the Division, the permittee shall operate according to the selected control procedures in the RAP determination. The RAP determination will be incorporated into the permit at the next significant revision or renewal of the permit.

## **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.
  - d. 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 permittee 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.
8. 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:
  - a. 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.
  - b. 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.
  - c. All deviations from permit requirements, including those previously reported, shall be included in the semiannual report required by F.6.
9. 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	U.S. EPA Region 4
Frankfort Regional Office	Air Enforcement Branch
300 Sowers Blvd	Atlanta Federal Center
Frankfort, KY 40601	61 Forsyth St. SW
	Atlanta, GA 30303-8960

- 10. 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) 2].
- 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) 4.].
- 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) 1.].

## **SECTION G - GENERAL PROVISIONS (CONTINUED)**

- 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 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, Emission Units 02B, 03-003, 06-002 (Warehouses II, KK, LL, MM, and NN), 30 (Indirect Heat Exchanges for Warehouses II, KK, LL, MM, and NN), 31, 32, and all Insignificant Activities identified in the application in accordance with the terms and conditions of this permit V-20-025.

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

- a. Construction of any process and/or air pollution control equipment authorized by this permit V-20-025 shall be conducted and completed only in compliance with the conditions of this permit V-20-025.
- 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 V-20-025, 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 V-20-025.
  - (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 V-20-025 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.
- d. 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.
- e. This permit V-20-025 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 V-20-025.
- f. Terms and conditions in this permit V-20-025 established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.

**SECTION G - GENERAL PROVISIONS (CONTINUED)****5. 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.
- 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.
- d. The permittee shall conduct testing on the thermal oxidizer to verify its VOC removal efficiency once every 5 years, but no more than 59 months from the most recent test [401 KAR 50:045, Section 3].

**6. 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<sub>x</sub> 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.

**7. 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;

## **SECTION G - GENERAL PROVISIONS (CONTINUED)**

- (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)].

### **8. 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.
  - (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*.

## **SECTION G - GENERAL PROVISIONS (CONTINUED)**

### **9. 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**

NA

**SECTION I - COMPLIANCE SCHEDULE**

NA