



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: November 18, 2024 Effective Date: November 18, 2024
Expiration Date: November 17, 2029

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 17-00063

Synthetic Minor

Federal Tax Id - Plant Code: 45-5098440-1

Owner Information

Name: PA GRAIN PROCESSING LLC
Mailing Address: 250 TECHNOLOGY DR
CLEARFIELD, PA 16830-2663

Plant Information

Plant: PA GRAIN PROCESSING LLC/CLEARFIELD BORO ETHANOL PROD PLT
Location: 17 Clearfield County 17802 Clearfield Borough
SIC Code: 2869 Manufacturing - Industrial Organic Chemicals, Nec

Responsible Official

Name: BRIDGETTE RILLEMA
Title: ENVIRONMENTAL MGR
Phone: (616) 879 - 1711 Email: bridgetter@zfsinc.com

Permit Contact Person

Name: BRIDGETTE L RILLEMA
Title: ENVIRONMENTAL MGR
Phone: (616) 879 - 1711 Email: bridgetter@zfsinc.com

[Signature] MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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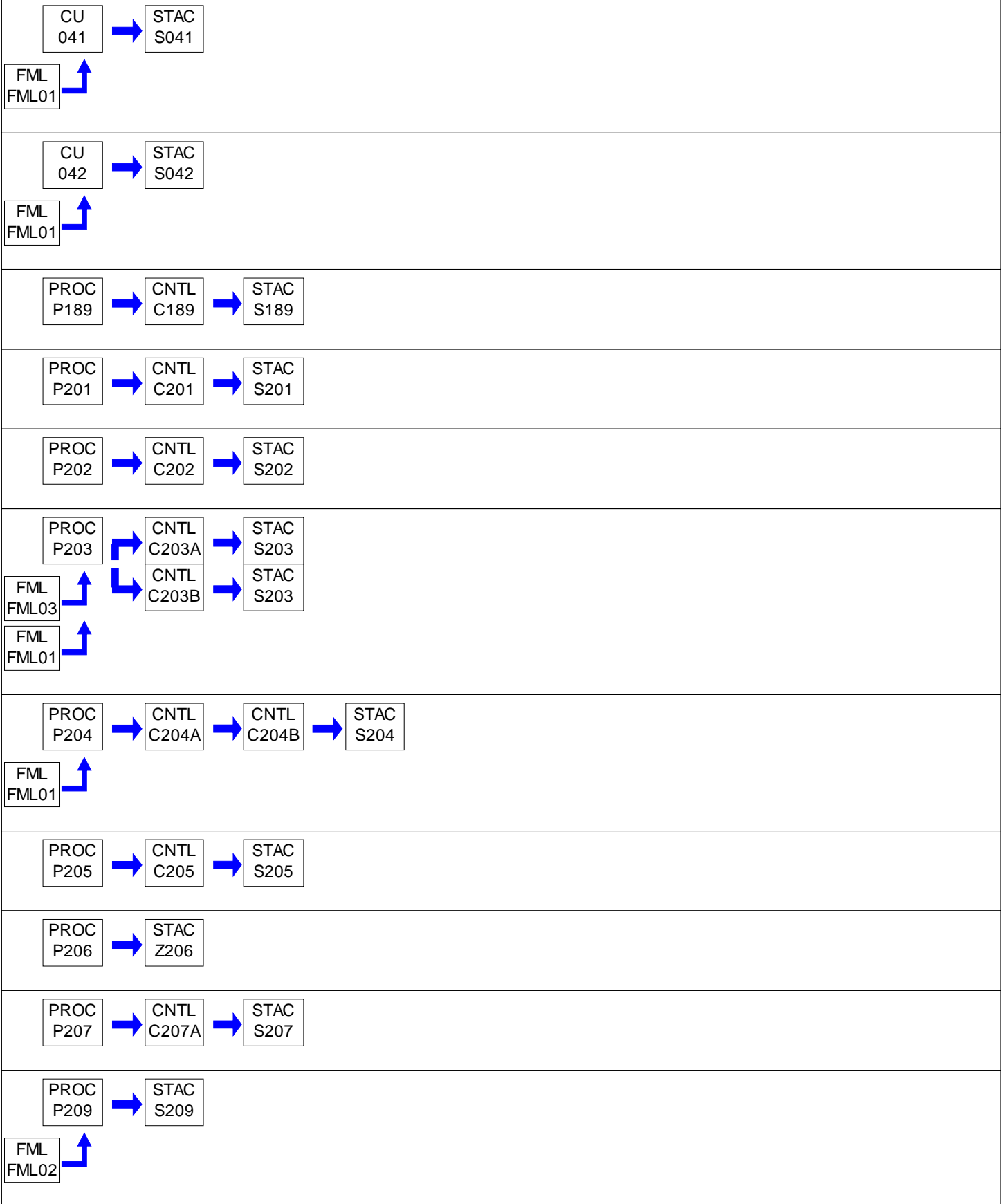
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
041	PLANT BOILER 1	142.821	MMBTU/HR	
042	PLANT BOILER 2	142.821	MMBTU/HR	
P189	TWO 600,000 BUSHEL SILOS			
P201	CORN RECEIVING & STORAGE OPERATION	137.000	Tons/HR	CORN/OTHER (AVG)
P202	CORN MILLING OPERATION	168.000	Tons/HR	TOTAL CAPACITY
P203	ETHANOL MANUFACTURING SOURCES	123.530	MCF/HR	TOTAL
		87,021.000	Lbs/HR	ETHANOL (AVG)
P204	FERMENTATION SYSTEM	6.127	MCF/HR	Natural Gas
		87,021.000	Lbs/HR	ETHANOL (AVG)
P205	DDGS STORAGE & LOADOUT	90.000	Tons/HR	DDGS
P206	VOC-CONTAINING STORAGE TANKS	13.185	Th Gal/HR	ETHANOL (AVG)
P207	ETHANOL LOADOUT	5.490	MCF/HR	Natural Gas
		13.185	Th Gal/HR	ETHANOL (AVG)
P209	FIRE PUMP	23.300	Gal/HR	ENGINE CAPACITY
P210	COOLING TOWER	3.300	M Gal/HR	RECIRCULATED WATER
C189	SILO FABRIC COLLECTOR			
C201	CORN RECEIVING & STORAGE FABRIC COLLECTOR			
C202	CORN MILLING FABRIC COLLECTOR			
C203A	DDGS DRYER RTO 1			
C203B	DDGS DRYER RTO 2			
C204A	FERMENTATION SCRUBBER			
C204B	FERMENTATION RTO			
C205	DDGS STORAGE & LOADOUT FABRIC COLLECTOR			
C207A	ETHANOL LOADOUT VBO			
FML01	NATURAL GAS			
FML02	#2 FUEL OIL/DIESEL			
FML03	BIOMETHANATOR OFF GAS			
S041	PLANT BOILER 1 STACK			
S042	PLANT BOILER 2 STACK			
S189	COLLECTOR STACK			
S201	CORN RECEIVING & STORAGE STACK			
S202	CORN MILLING STACK			
S203	DDGS DRYER RTOS STACK			
S204	FERMENTATION RTO STACK			
S205	DDGS STORAGE & LOADOUT STACK			
S207	ETHANOL LOADOUT STACK			
S209	FIRE PUMP STACK			
Z206	VOC-CONTAINING STORAGE TANKS EMISSIONS			
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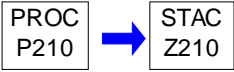


PERMIT MAPS





PERMIT MAPS



**SECTION B. General State Only Requirements****#001 [25 Pa. Code § 121.1]****Definitions.**

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and in 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.446]**Operating Permit Duration.**

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)]**Permit Renewal.**

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (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 as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]**Operating Permit Fees under Subchapter I.**

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
- (1) For a synthetic minor facility, a fee equal to:
- (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
 - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
 - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.

**SECTION B. General State Only Requirements**

(2) For a facility that is not a synthetic minor, a fee equal to:

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

(b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]**Transfer of Operating Permits.**

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]**Inspection and Entry.**

(a) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or authorized representatives of the Department to perform the following:

(1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.441 & 127.444]**Compliance Requirements.**

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

**SECTION B. General State Only Requirements**

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]**Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for the permittee in an enforcement action that it was necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.442(a) & 127.461]**Duty to Provide Information.**

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]**Revising an Operating Permit for Cause.**

This operating permit may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]**Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

**SECTION B. General State Only Requirements**

(b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

(e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#012 [25 Pa. Code § 127.441]**Severability Clause.**

The provisions of this permit are severable, and if any provision of this permit is determined by a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#013 [25 Pa. Code § 127.449]**De Minimis Emission Increases.**

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

(b) The Department may disapprove or condition de minimis emission increases at any time.

(c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

**SECTION B. General State Only Requirements**

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
 - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
 - (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
 - (4) Space heaters which heat by direct heat transfer.
 - (5) Laboratory equipment used exclusively for chemical or physical analysis.
 - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
 - (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
 - (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]**Operational Flexibility.**

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

(6) Section 127.462 (relating to minor operating permit modifications)

(7) Subchapter H (relating to general plan approvals and general operating permits)

#015 [25 Pa. Code § 127.11a]**Reactivation of Sources**

(a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#016 [25 Pa. Code § 127.36]**Health Risk-based Emission Standards and Operating Practice Requirements.**

(a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].

(b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]**Circumvention.**

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]**Reporting Requirements.**

(a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.

(b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.

(c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given in the permit transmittal letter, or otherwise notified)

(d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.

(e) Any records, reports or information submitted to the Department shall be available to the public except for such

**SECTION B. General State Only Requirements**

records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]**Sampling, Testing and Monitoring Procedures.**

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]**Recordkeeping.**

(a) The permittee shall maintain and make available, upon request by the Department, the following records of monitored information:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of any required monitoring data and supporting information for at least five (5) years from the date of the monitoring, sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

#021 [25 Pa. Code § 127.441(a)]**Property Rights.**

This permit does not convey any property rights of any sort, or any exclusive privileges.

#022 [25 Pa. Code § 127.447]**Alternative Operating Scenarios.**

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

**SECTION B. General State Only Requirements****#023 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, the permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator of a Synthetic Minor Facility may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#024 [25 Pa. Code §135.4]**Report Format**

If applicable, the emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

(a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminants from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) The emissions are of minor significance with respect to causing air pollution.
 - (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

No person may permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified above in Condition #001(a)(1) -(a)(7) if the emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.41]**Limitations**

No person may permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

004 [25 Pa. Code §123.42]**Exceptions**

The emission limitations of 25 Pa. Code Section 123.41 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations;
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- (3) The emission results from sources specified in 25 Pa. Code Section 123.1(a)(1)-(9).

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The VOC emissions from all sources at this facility shall not equal or exceed 50 tons in any 12 consecutive month period.

**SECTION C. Site Level Requirements****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds (VOCs) from the wet distillers grain with solubles (WDGS) storage area shall not exceed 3.32 tons in any 12 consecutive month period.

Throughput Restriction(s).**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The facility shall produce no more than 115.5 million gallons of ethanol in any 12 consecutive month period.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The facility shall process no more than 43 million bushels of grain in any 12 consecutive month period.

II. TESTING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 35 P.S. § 4004]

The Department may require the permittee to sample the emissions of any source in accordance with such methods and procedures and at such locations and intervals of time as the Department may reasonably prescribe and to provide the Department with the results thereof.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. One electronic copy shall be sent to the Northcentral Regional Office (ra-epncstacktesting@pa.gov) and one electronic copy shall be sent to the PSIMS Administrator in Central Office (ra-epstacktesting@pa.gov). The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northcentral Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) If applicable, pursuant to 40 CFR § 60.8(a), 40 CFR § 61.13(f) and 40 CFR § 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.

(d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.

**SECTION C. Site Level Requirements**

4. Statement of compliance or non-compliance with each applicable permit condition.

(e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(g) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3), electronic copies of all submittals, besides notifications, shall be sent to the Northcentral Regional Office, with deadlines verified. In addition, an electronic copy shall be sent to the PSIMS Administrator in Central Office. Email addresses are provided in the paragraph (a), above.

(h) The permittee shall insure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

011 [25 Pa. Code §139.1]**Sampling facilities.**

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

012 [25 Pa. Code §139.11]**General requirements.**

(a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum, all of the following:

(1) A thorough source description, including a description of any air cleaning devices and the flue.

(2) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process.

(3) The location of sampling ports.

(4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO₂, O₂ and N₂), static and barometric pressures.

(5) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.

(6) Laboratory procedures and results.

(7) Calculated results.

III. MONITORING REQUIREMENTS.**# 013 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

**SECTION C. Site Level Requirements**

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Upon the request of the Department, the permittee shall monitor and record any other parameters deemed necessary to demonstrate compliance with any Federal and State rules and regulations or any conditions contained in this plan approval.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall conduct a weekly inspection of the facility during daylight hours while the facility is operating, to detect visible emissions, visible fugitive emissions and malodors. Weekly inspections are necessary to determine:

- (1) the presence of visible emissions.
- (2) the presence of visible fugitive emissions.
- (3) the presence of malodors.

(b) All detected visible emissions, visible fugitive emissions or malodors shall be reported to the manager of the facility.

IV. RECORDKEEPING REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall keep records of the amount of grain, in bushels, processed in the facility on a monthly basis to verify compliance with the corn throughput limitation in any 12 consecutive month period.

(b) The permittee shall keep records of the amount of ethanol produced by the facility on a monthly basis to verify compliance with the ethanol production limitation of gallons in any 12 consecutive month period.

(c) The permittee shall keep records on a monthly basis of the VOC emissions from all sources at the facility that verify compliance with the 12 consecutive month emission limitation.

(d) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

017 [25 Pa. Code §135.5]**Recordkeeping**

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with 25 Pa. Code Section 135.3 (relating to reporting). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. These records shall be retained for at least five years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code Section 127.442]

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and

**SECTION C. Site Level Requirements**

reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

1. name, permit or authorization number, and location of the facility,
2. nature and cause of the malfunction, emergency or incident,
3. date and time when the malfunction, emergency or incident was first observed,
4. expected duration of excess emissions,
5. estimated rate of emissions,
6. corrective actions or preventative measures taken.

(d) Except as reported to the Department in accordance with 25 Pa. Code Chapter 139 and the Department's Continuous Source Monitoring Manual, any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

019 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall submit reports to the Department on a semi-annual basis that include amount of corn, in bushels, processed in the facility to verify compliance with the corn throughput limitation in any 12 consecutive month period.

(b) The permittee shall submit reports to the Department on a semi-annual basis that include the amount of ethanol produced on a monthly basis to verify compliance with the ethanol production limitation in any 12 consecutive month period.

(c) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

020 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall submit reports to the Department on a semi-annual basis in accordance with 40 CFR Part 60 Subpart VVa for each semi annual reporting period.

(b) The semi-annual reports shall be submitted to the Department no later than March 1 (for July 1 through December 31 of

**SECTION C. Site Level Requirements**

the previous year) and September 1 (for January 1 through June 30 of the current year).

021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

In accordance with 40 CFR § 60.4, copies of all requests, reports, applications, submittals, and other communications required by an applicable federal standard shall be submitted to both the Department and the EPA. The EPA's copies shall be submitted via their Compliance and Emissions Data Reporting Interface (CEDRI) accessible at <https://cdx.epa.gov> unless electronic reporting is not available, in which case a copy shall be sent to the following address:

Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

VI. WORK PRACTICE REQUIREMENTS.**# 022 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

For any source specified in 25 Pa. Code Section 123.1 subsection(s) (a)(1)-(7) or (a)(9), the permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land.
- (2) Application of asphalt, oil, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

VII. ADDITIONAL REQUIREMENTS.**# 023 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the act (The Air Pollution Control Act (35 P.S. §§ 4001-4015)).

024 [25 Pa. Code §123.31]**Limitations**

No person may permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

025 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 40 CFR Part 60 Section 60.480a]

- (a) The permittee shall implement a leak detection and repair program (LDAR) which is compliant with Subpart W, 40 CFR Sections 60.480a through 60.489a.
- (b) The facility is subject to 40 CFR Part 60, Subpart W. The permittee shall comply with all the applicable requirements specified in 40 CFR Sections 60.480a through 60.489a.

**SECTION C. Site Level Requirements****# 026 [25 Pa. Code §129.14]****Open burning operations**

No person may permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to State Only General Requirements).

IX. COMPLIANCE SCHEDULE.

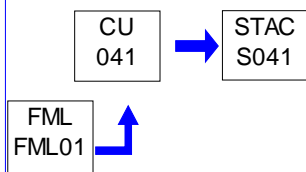
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 041

Source Name: PLANT BOILER 1

Source Capacity/Throughput: 142.821 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of nitrogen oxides (NOx) from Source ID 041 shall not exceed any of the following:

- (a) 0.012 pound per million Btu (on an hourly average basis),
- (b) 1.71 pounds per hour,
- (c) 7.51 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of carbon monoxide (CO) from Source ID 041 shall not exceed any of the following:

- (a) 0.017 pound per million Btu,
- (b) 2.49 pounds per hour,
- (c) 10.90 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the sulfur oxides limitation of 4 pounds per million Btu of heat input as specified in 25 Pa. Code Section 123.22}

The emission of sulfur oxides (SOx), expressed as sulfur dioxide (SO₂), from Source ID 041 shall not exceed any of the following:

- (a) 0.001 pound per million Btu,
- (b) 0.14 pound per hour,
- (c) 0.63 ton in any 12 consecutive month period.

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the particulate matter limitation of 0.23 pound per million Btu of heat input as specified in 25 Pa. Code Section 123.11}

The emission of total particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10) from Source ID 041 shall not exceed any of the following:

- (a) 0.005 pound per million Btu,
- (b) 0.71 pound per hour,
- (c) 3.13 tons in any 12 consecutive month period.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the opacity requirements as specified in 25 Pa. Code Sections 123.41 and 123.42}

There shall be no visible emissions from the exhaust of Source ID 041.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds (VOCs) from Source ID 041 shall not exceed any of the following:

- (a) 0.004 pound per million Btu,
- (b) 0.57 pound per hour,
- (c) 2.50 tons in any 12 consecutive month period.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of total combined hazardous air pollutants (HAPs) from Source ID 041 shall not exceed any of the following:

- (a) 0.26 pound per hour,
- (b) 1.15 tons in any 12 consecutive month period.

Fuel Restriction(s).**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID 041 shall only be fired on natural gas.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the monitoring requirements specified in 40 CFR Subpart Db, Sections 60.48(g)(1) and 60.48b(b) through 60.48b(f)}

(a) The permittee shall install, certify, maintain and operate a continuous emission monitoring system (CEMS) for nitrogen oxides (NOx) on Source ID 041 in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's current Continuous Source Monitoring Manual. The CEMS specified above shall be installed prior to startup of Source ID 041. No CEMS may however be operated unless Phase I approval has first been obtained from the Department.

(b) The NOx emission monitoring systems shall be capable of monitoring the NOx emission rates expressed in pounds per hour and pounds per million Btu, and total emissions in any 12 consecutive month period, expressed in tons per year, for Source ID 041.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the monitoring requirements specified in 40 CFR Subpart Db, Sections 60.48(g)(1) and 60.48b(b) through 60.48b(f)}

(a) Source ID 041 shall not be operated for any reason unless the associated NOx continuous emission monitoring systems have received Phase I approval from the Department and have subsequently been installed and made operational in accordance with the conditions of this plan approval. Furthermore, the continuous emission monitoring systems shall be operated any time Source ID 041 is operating in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139, as well as with the Department's current Continuous Source Monitoring Manual unless superseded by conditions contained in this operating permit.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of:

(a) the supporting calculations on a monthly basis for the NOx emissions from Source ID 041 to verify compliance with the NOx emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(b) the supporting calculations on a monthly basis for the CO emissions from Source ID 041 to verify compliance with the CO emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(c) the supporting calculations on a monthly basis for the SOx emissions from Source ID 041 to verify compliance with the SOx emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(d) the supporting calculations on a monthly basis for the total PM and PM10 emissions from Source ID 041 to verify compliance with the total PM and PM10 emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

(e) the supporting calculations on a monthly basis for the VOC emissions from Source ID 041 to verify compliance with the VOC emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(f) the supporting calculations on a monthly basis for the total combined HAPs emissions from Source ID 041 to verify compliance with the total combined HAPs emissions limitation of pounds per hour and tons in any 12 consecutive month period.

(g) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records associated with the continuous emission monitoring system for NOx from Source ID 041 in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's current Continuous Source Monitoring Manual.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the amount of natural gas combustion in Source ID 041 on a monthly basis.

V. REPORTING REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit all reports to the Department associated with the continuous emission monitoring system for NOx on Source ID 041 in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's current Continuous Source Monitoring Manual.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the NOx emissions limitations for Source ID 041 in any 12 consecutive month period.

(b) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the CO emissions limitations for Source ID 041 in any 12 consecutive month period.

(c) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the SOx emissions limitations for Source ID 041 in any 12 consecutive month period.

(d) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total PM and PM10 emissions limitations for Source ID 041 in any 12 consecutive month period.

(e) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the VOC emissions limitations for Source ID 041 in any 12 consecutive month period.

(f) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined HAPs emissions limitations for Source ID 041 in any 12 consecutive month period.

(g) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

**SECTION D. Source Level Requirements**

The permittee shall utilize ultra-low NOx burners (ULNB) and flue gas recirculation (FGR) technology to control NOx emissions from Source ID 041. Source ID 041 shall be operated with the operation of ULNB and FGR.

VII. ADDITIONAL REQUIREMENTS.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 041 is plant boiler #1, a Victory Energy model VS_6-92 natural gas fired unit rated at 142.821 million Btu per hour of heat input.

018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40b]

Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units**Applicability and delegation of authority.**

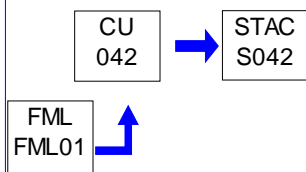
Source ID 041 is subject to the New Source Performance Standards, 40 CFR Part 60, Subpart Db and shall comply with all applicable requirements as specified in 40 CFR Sections 60.40b through 60.49b.

**SECTION D. Source Level Requirements**

Source ID: 042

Source Name: PLANT BOILER 2

Source Capacity/Throughput: 142.821 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of nitrogen oxides (NOx) from Source ID 042 shall not exceed any of the following:

- (a) 0.012 pound per million Btu (on an hourly average basis),
- (b) 1.71 pounds per hour,
- (c) 7.51 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of carbon monoxide (CO) from Source ID 042 shall not exceed any of the following:

- (a) 0.017 pound per million Btu,
- (b) 2.49 pounds per hour,
- (c) 10.90 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the sulfur oxides limitation of 4 pounds per million Btu of heat input as specified in 25 Pa. Code Section 123.22}

The emission of sulfur oxides (SOx), expressed as sulfur dioxide (SO₂), from Source ID 042 shall not exceed any of the following:

- (a) 0.001 pound per million Btu,
- (b) 0.14 pound per hour,
- (c) 0.63 ton in any 12 consecutive month period.

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the particulate matter limitation of 0.23 pound per million Btu of heat input as specified in 25 Pa. Code Section 123.11}

The emission of total particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10) from Source ID 042 shall not exceed any of the following:

- (a) 0.005 pound per million Btu,
- (b) 0.71 pound per hour,
- (c) 3.13 tons in any 12 consecutive month period.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the opacity requirements as specified in 25 Pa. Code Sections 123.41 and 123.42}

There shall be no visible emissions from the exhaust of Source ID 042.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds (VOCs) from Source ID 042 shall not exceed any of the following:

- (a) 0.004 pound per million Btu,
- (b) 0.57 pound per hour,
- (c) 2.50 tons in any 12 consecutive month period.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of total combined hazardous air pollutants (HAPs) from Source ID 042 shall not exceed any of the following:

- (a) 0.26 pound per hour,
- (b) 1.15 tons in any 12 consecutive month period.

Fuel Restriction(s).**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID 042 shall only be fired on natural gas.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the monitoring requirements specified in 40 CFR Subpart Db, Sections 60.48(g)(1) and 60.48b(b) through 60.48b(f)}

(a) The permittee shall install, certify, maintain and operate a continuous emission monitoring system (CEMS) for nitrogen oxides (NOx) on Source ID 042 in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's current Continuous Source Monitoring Manual. The CEMS specified above shall be installed prior to startup of Source ID 042. No CEMS may however be operated unless Phase I approval has first been obtained from the Department.

(b) The NOx emission monitoring systems shall be capable of monitoring the NOx emission rates expressed in pounds per hour and pounds per million Btu, and total emissions in any 12 consecutive month period, expressed in tons per year, for Source ID 042.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the monitoring requirements specified in 40 CFR Subpart Db, Sections 60.48(g)(1) and 60.48b(b) through 60.48b(f)}

(a) Source ID 042 shall not be operated for any reason unless the associated NOx continuous emission monitoring systems have received Phase I approval from the Department and have subsequently been installed and made operational in accordance with the conditions of this plan approval. Furthermore, the continuous emission monitoring systems shall be operated any time Source ID 042 is operating in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139, as well as with the Department's current Continuous Source Monitoring Manual unless superseded by conditions contained in this operating permit.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records associated with the continuous emission monitoring system for NOx from Source ID 042 in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's current Continuous Source Monitoring Manual.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of:

(a) the supporting calculations on a monthly basis for the NOx emissions from Source ID 042 to verify compliance with the NOx emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(b) the supporting calculations on a monthly basis for the CO emissions from Source ID 042 to verify compliance with the CO emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(c) the supporting calculations on a monthly basis for the SOx emissions from Source ID 042 to verify compliance with the

**SECTION D. Source Level Requirements**

SOx emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(d) the supporting calculations on a monthly basis for the total PM and PM10 emissions from Source ID 042 to verify compliance with the total PM and PM10 emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(e) the supporting calculations on a monthly basis for the VOC emissions from Source ID 042 to verify compliance with the VOC emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(f) the supporting calculations on a monthly basis for the total combined HAPs emissions from Source ID 042 to verify compliance with the total combined HAPs emissions limitation of pounds per hour and tons in any 12 consecutive month period.

(g) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the amount of natural gas combustion in Source ID 042 on a monthly basis.

V. REPORTING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit all reports to the Department associated with the continuous emission monitoring system for NOx on Source ID 042 in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's current Continuous Source Monitoring Manual.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the NOx emissions limitations for Source ID 042 in any 12 consecutive month period.

(b) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the CO emissions limitations for Source ID 042 in any 12 consecutive month period.

(c) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the SOx emissions limitations for Source ID 042 in any 12 consecutive month period.

(d) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total PM and PM10 emissions limitations for Source ID 042 in any 12 consecutive month period.

(e) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the VOC emissions limitations for Source ID 042 in any 12 consecutive month period.

(f) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined HAPs emissions limitations for Source ID 042 in any 12 consecutive month period.

(g) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]



SECTION D. Source Level Requirements

The permittee shall utilize ultra-low NOx burners (ULNB) and flue gas recirculation (FGR) technology to control NOx emissions from Source ID 042. Source ID 042 shall be operated with the operation of ULNB and FGR.

VII. ADDITIONAL REQUIREMENTS.

017 [25 Pa. Code §127.441]
Operating permit terms and conditions.
Source ID 042 is plant boiler #2, a Victory Energy model VS_6-92 natural gas fired unit rated at 142.821 million Btu per hour of heat input.

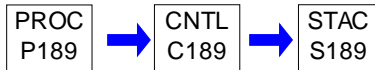
018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40b]
Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units
Applicability and delegation of authority.
Source ID 042 is subject to the New Source Performance Standards, 40 CFR Part 60, Subpart Db and shall comply with all applicable requirements as specified in 40 CFR Sections 60.40b through 60.49b.

**SECTION D. Source Level Requirements**

Source ID: P189

Source Name: TWO 600,000 BUSHEL SILOS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13 and 40 CFR Part 60 Subpart DD Section 60.302]

The particulate matter emissions in the exhaust of the fabric collector associated with Source ID P189 shall not exceed 0.01 grains per dry standard cubic foot.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.41 and 40 CFR Part 60 Subpart DD Section 60.302]

There shall be no visible emissions in the exhaust of the fabric collector associated with Source ID P189.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The fabric collector associated with the silos of Source ID P189 shall be equipped with instrumentation that continuously monitors the pressure drop across the collector.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall record the pressure drop across the fabric collector at least once per day while the fabric collector is in operation. The permittee shall keep these records for a minimum of five years and the records shall be presented to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for the collector associated with Source P189 in order to be able to immediately replace any bag that requires replacement.

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID P189 consists of two (2) 600,000 bushel capacity grain storage bins. The particulate matter emissions from the storage bins shall be controlled by a 2,500 scfm fabric collector (ID C189).

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor that supplies compressed air to the fabric filter collector shall be equipped with an air dryer and oil trap.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.300]**Subpart DD - Standards of Performance for Grain Elevators****Applicability and designation of affected facility.**

Source ID P189 is subject to 40 CFR Part 60 Subpart DD, Standards of Performance for Grain Elevators, Sections 60.300 – 60.304. The permittee shall comply with all applicable requirements of this subpart.

**SECTION D. Source Level Requirements**

Source ID: P201

Source Name: CORN RECEIVING & STORAGE OPERATION

Source Capacity/Throughput: 137.000 Tons/HR CORN/OTHER (AVG)

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the particulate matter limitation of 0.04 grain per dry standard cubic foot (gr/dscf) as specified in 25 Pa. Code Section 123.13}

The emissions of total particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10) in the exhaust of ID C201 associated with Source ID P201 shall not exceed any of the following:

- (a) a concentration of 0.005 grain per dry standard cubic foot,
- (b) 1.25 pound per hour,
- (c) 5.49 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the opacity requirements as specified in 25 Pa. Code Sections 123.41 and 123.42}

There shall be no visible emissions from the exhaust of ID C201 associated with Source ID P201.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

ID C201 associated with Source ID P201 shall be equipped with instrumentation to monitor the differential pressure across ID C201 and the actual differential pressure shall be displayed on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall keep records of the supporting calculations on a monthly basis for the total PM and PM10 emissions from the exhaust of ID C201 associated with Source ID P201 to verify compliance with the total PM and PM10 emissions

**SECTION D. Source Level Requirements**

limitations of pounds per hour and tons in any 12 consecutive month period.

(b) The permittee shall keep records of all stack tests reports to verify compliance with the PM and PM10 emissions limitation in gr/dscf for ID C201 associated with the Source ID P201.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall keep records of the differential pressure across ID C201 associated with Source ID P201 at least once per day during the operation of ID C201.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total PM and PM10 emissions limitations for ID C201 associated with Source ID P201 in any 12 consecutive month period.

(b) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

All augers, conveyors, elevators, bin sweeps, and storage silos associated with Source ID P201, which are not entirely located inside a building, shall be fully enclosed.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall not operate Source ID P201 without the simultaneous operation of the ID C201.

(b) The PM and PM10 emissions from Source ID P201 shall be controlled by ID C201.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The corn receiving from railcar operation associated with Source ID P201 shall be enclosed on the top and sides.

(b) The corn receiving from truck operation associated with Source ID P201 shall be enclosed on the top and sides.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for ID C201 associated with Source ID

**SECTION D. Source Level Requirements**

P201 in order to be able to immediately replace any bags requiring replacement due to deterioration.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall only use 16 weight (ounces per square yard) singed polyester felt fabric bags, or other bags as approved by the Department that offers equivalent or better control of particulate matter emissions, in ID C201 associated with Source ID P201.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The maximum railcar-to-dump pit corn drop height shall not exceed 4 feet.

(b) Source ID P201 is a corn receiving and storage operation, which shall consist of the following sources:

- (1) truck dump pit #1,
- (2) truck dump pit #2,
- (3) railcar dump pit,
- (4) truck dump pit #1 auger,
- (5) truck dump pit #2 auger,
- (6) railcar dump pit auger,
- (7) truck receiving lane conveyor #1,
- (8) truck receiving lane conveyor #2,
- (9) railcar receiving lane conveyor,
- (10) receiving transfer conveyor #1,
- (11) receiving transfer conveyor #2,
- (12) receiving bucket elevator #1,
- (13) receiving bucket elevator #2,
- (14) distribution system with gathering hopper and fill gates,
- (15) upper receiving conveyor #1,
- (16) upper receiving conveyor #2,
- (17) corn silo #1,
- (18) corn silo #2,
- (19) bin sweep #1,
- (20) bin sweep #2,
- (21) reclaim conveyor #1,
- (22) reclaim conveyor #2,
- (23) reclaim transfer conveyor,
- (24) corn day bin.

The corn silos shall each have a capacity of 0.5 million bushels.

(c) ID C201 is a Camcorp model 10SWF256-242 RA fabric collector associated with the corn receiving and storage operations. ID C201 shall be cleaned using reverse air flow and shall have a rated airflow capacity of 29,250 standard cubic feet per minute (SCFM).

**SECTION D. Source Level Requirements**

Source ID: P202

Source Name: CORN MILLING OPERATION

Source Capacity/Throughput: 168.000 Tons/HR TOTAL CAPACITY

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the particulate matter limitation of 0.04 grain per dry standard cubic foot (gr/dscf) as specified in 25 Pa. Code Section 123.13}

The emissions of total particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10) in the exhaust of ID C202 associated with Source ID P202 shall not exceed any of the following:

- (a) a concentration of 0.005 grain per dry standard cubic foot,
- (b) 1.20 pound per hour,
- (c) 5.26 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the opacity requirements as specified in 25 Pa. Code Sections 123.41 and 123.42}

There shall be no visible emissions from the exhaust of ID C202 associated with Source ID P202.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

ID C202 associated with Source ID P202 shall be equipped with instrumentation to monitor the differential pressure across ID C202 and the actual differential pressure shall be displayed on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall keep records of the supporting calculations on a monthly basis for the total PM and PM10 emissions from the exhaust of ID C202 associated with Source ID P202 to verify compliance with the total PM and PM10 emissions

**SECTION D. Source Level Requirements**

limitations of pounds per hour and tons in any 12 consecutive month period.

(b) The permittee shall keep records of all stack tests reports to verify compliance with the PM and PM10 emissions limitation in gr/dscf for ID C202 associated with the Source ID P202.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall keep records of the differential pressure across ID C202 associated with Source ID P202 at least once per day during the operation of ID C202.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total PM and PM10 emissions limitations for ID C202 associated with Source ID P202 in any 12 consecutive month period.

(b) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for ID C202 associated with Source ID P202 in order to be able to immediately replace any bags requiring replacement due to deterioration.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying the compressed air for ID C202 associated with Source ID P202 shall be equipped with an air dryer and oil trap.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

All surge bins, conveyors, scalpers, feeders, and hammermills associated with Source ID P202, which are not entirely located inside a building, shall be fully enclosed.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall not operate Source ID P202 without the simultaneous operation of the ID C202.

(b) The PM and PM10 emissions from Source ID P202 shall be controlled by ID C202.

**SECTION D. Source Level Requirements****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall only use 16 weight (ounces per square yard) singed polyester felt fabric bags or other bags as approved by the Department that offers equivalent or better control of particulate matter emissions from Source ID C202 associated with Source ID P202.

(b) Based on the RFD 9638 submitted and later approved, the Source ID C202 collector's new filters/bag replacements shall be installed and operated in accordance the manufacturer's specifications and good operating practices.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Source ID P202 is a corn milling operation, which shall consist of the following sources:

- (1) grinder surge bin,
- (2) rotary scalper #1,
- (3) rotary scalper #2,
- (4) rotary feeder #1,
- (5) rotary feeder #2,
- (6) rotary feeder #3,
- (7) rotary feeder #4,
- (8) hammermill #1,
- (9) hammermill #2,
- (10) hammermill #3,
- (11) hammermill #4,
- (12) ground corn conveyor,
- (13) ground corn transfer conveyor.

The hammermills shall each have a capacity of no greater than 42 tons per hour.

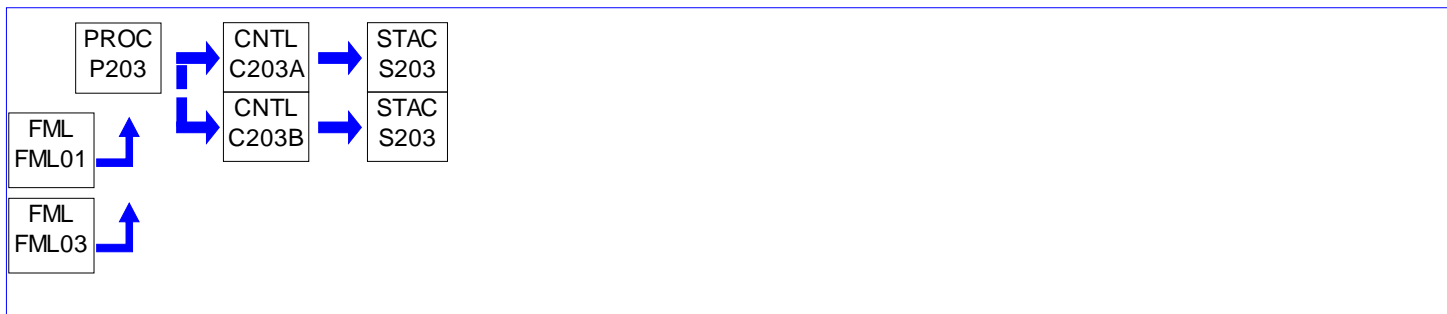
(b) ID C202 is a Camcorp model 10SWF312-290 RA fabric collector associated with the corn milling operation. ID C202 shall be cleaned using reverse air flow and shall have a rated airflow capacity of 28,000 standard cubic feet per minute (SCFM).

**SECTION D. Source Level Requirements**

Source ID: P203

Source Name: ETHANOL MANUFACTURING SOURCES

Source Capacity/Throughput:	123.530 MCF/HR	TOTAL
	87,021.000 Lbs/HR	ETHANOL (AVG)

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of nitrogen oxides (NO_x) from the combined exhausts of IDs C203A and C203B associated with Source ID P203 shall not exceed any of the following:

- (a) 0.060 pound per million Btu,
- (b) 12.96 pounds per hour,
- (c) 56.76 tons in any 12 consecutive month period.

These emission limits are applicable when both RTO's (IDs C203A and C203B) are in operation.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of carbon monoxide (CO) from the combined exhausts of IDs C203A and C203B associated with Source ID P203 shall not exceed any of the following:

- (a) 13.60 pounds per hour,
- (b) 59.40 tons in any 12 consecutive month period.

These emission limits are applicable when both RTO's (IDs C203A and C203B) are in operation.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the sulfur oxides limitation of 500 parts per million as specified in 25 Pa. Code Section 123.21}

The emission of sulfur oxides (SO_x), expressed as sulfur dioxide (SO₂), from the combined exhausts of IDs C203A and C203B associated with Source ID P203 shall not exceed any of the following:

- (a) 7.00 pounds per hour,

**SECTION D. Source Level Requirements**

(b) 30.60 tons in any 12 consecutive month period.

These emission limits are applicable when both RTO's (IDs C203A and C203B) are in operation.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the particulate matter limitation of 0.04 grain per dry standard cubic foot (gr/dscf) as specified in 25 Pa. Code Section 123.13}

The emission of particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10) from the combined exhausts of IDs C203A and C203B associated with Source ID P203 shall not exceed any of the following:

- (a) 0.020 grain per dry standard cubic foot,
- (b) 8.30 pounds per hour,
- (c) 36.50 tons in any 12 consecutive month period.

These emission limits are applicable when both RTO's (IDs C203A and C203B) are in operation.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the opacity requirements as specified in 25 Pa. Code Sections 123.41 and 123.42}

There shall be no visible emissions from the exhaust of IDs C203A and C203B associated with Source ID P203.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds (VOCs) from the combined exhausts of IDs C203A and C203B associated with Source ID P203 shall not exceed any of the following:

- (a) 7.20 pounds per hour,
- (b) 31.40 tons in any 12 consecutive month period.

These emission limits are applicable when both RTO's (IDs C203A and C203B) are in operation.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of total combined hazardous air pollutants (HAPs) from the combined exhausts of IDs C203A and C203B associated with Source ID P203 shall not exceed any of the following:

- (a) 2.0 pounds per hour,
- (b) 8.76 tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions from the exhaust of ID C203A or ID C203B associated with Source ID P203 shall not exceed any of the following when the emissions are controlled by only one RTO (ID C203A or C203B):

- (a) 6.48 pounds of NO_x per hour,
- (b) 8.10 pounds of CO per hour,
- (c) 4.20 pounds of SO_x per hour,
- (d) 5.00 pounds of PM and PM₁₀ per hour,
- (e) 5.00 pounds of VOCs per hour,
- (f) 2.00 pounds of HAPs per hour.

These emission limits are applicable when only one RTO (IDs C203A or C203B) is in operation.

Fuel Restriction(s).**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

- (a) Only natural gas shall be fired in IDs C203A C203B associated with Source ID P203.
- (b) Only natural gas (and previously off-gas from removed Source ID P211) shall be fired in the burners for dryers A, B, C and D associated with Source ID P203.

Control Device Efficiency Restriction(s).**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

- (a) ID C203A shall destroy the VOC/HAP emissions ducted to it from Source ID P203 at a destruction efficiency of no less than 98% (by weight) or have an outlet VOC concentration of no more than 10 ppmv as propane .
- (b) ID C203B shall destroy the VOC/HAP emissions ducted to it from Source ID P203 at a destruction efficiency of no less than 98% (by weight) or have an outlet VOC concentration of no more than 10 ppmv as propane.

II. TESTING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) No later than 5 calendar years after the last performance test, unless otherwise required sooner by the Department, the permittee shall conduct subsequent testing on the Source ID P203 equipment in accordance with the following:

- (1) On the combined exhausts of IDs C203A and C203B associated with Source ID P203 while both C203A and C203B are controlling emissions from Source ID P203 to verify compliance with the VOC and HAP emissions limitations when both ID C203A and C203B are in operation;
- (2) On the inlet and exhaust of ID C203A associated with Source ID P203 while ID C203A is controlling all the process

**SECTION D. Source Level Requirements**

emissions from Source ID P203 to verify compliance with the VOC and HAP emissions limitations and the VOC/HAP destruction efficiency of ID C203A;

(3) On the inlet and exhaust of ID C203B associated with Source ID P203 while ID C203B is controlling all the process emissions from Source ID P203 to verify compliance with the VOC and HAP emissions limitations and the VOC/HAP destruction efficiency of ID C203B; and

(4) During any of the summer months within the calendar year's third quarter (July through September).

(b) All testing shall be performed while the facility is operating at representative operating conditions, using EPA reference test methods and other procedures approved by the Department.

III. MONITORING REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) ID C203A associated with Source ID P203 shall be equipped with instrumentation to monitor and record the temperature of the combustion chamber of ID C203A on a continuous basis.

(b) ID C203A associated with Source ID P203 shall be equipped with instrumentation to monitor the differential pressure across the bed media of ID C203A and the monitor shall be operated on a continuous basis.

(c) ID C203B associated with Source ID P203 shall be equipped with instrumentation to monitor and record the temperature of the combustion chamber of ID C203B on a continuous basis.

(d) ID C203B associated with Source ID P203 shall be equipped with instrumentation to monitor the differential pressure across the bed media of ID C203B and the monitor shall be operated on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of:

(a) the supporting calculations on a monthly basis for the total combined NO_x emissions from IDs C203A and C203B associated with Source ID P203 to verify compliance with the NO_x emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(b) the supporting calculations on a monthly basis for the total combined CO emissions from IDs C203A and C203B associated with Source ID P203 to verify compliance with the CO emissions limitations of pounds per hour and tons in any 12 consecutive month period.

(c) the supporting calculations on a monthly basis for the total combined SO_x emissions from IDs C203A and C203B associated with Source ID P203 to verify compliance with the SO_x emissions limitations of pounds per hour and tons in any 12 consecutive month period.

(d) the supporting calculations on a monthly basis for the total combined PM and PM₁₀ emissions from IDs C203A and C203B associated with Source ID P203 to verify compliance with the total PM and PM₁₀ emissions limitations of pounds per hour and tons in any 12 consecutive month period.

(e) the supporting calculations on a monthly basis for the total combined VOC emissions from IDs C203A and C203B associated with Source ID P203 to verify compliance with the VOC emissions limitations of pounds per hour and tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

(f) the supporting calculations on a monthly basis for the total combined HAPs emissions from IDs C203A and C203B associated with Source ID P203 to verify compliance with the total combined HAPs emissions limitation of pounds per hour and tons in any 12 consecutive month period.

(g) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of:

(a) the supporting calculations on a monthly basis for the NO_x, CO, SO_x, PM and PM₁₀, VOC, and total combined HAPs emissions from ID C203A associated with Source ID P203 when the emissions are controlled by only ID C203A to verify compliance with the NO_x, CO, SO_x, PM and PM₁₀, VOC, and total combined HAPs emissions limitations of pounds per hour.

(b) the supporting calculations on a monthly basis for the NO_x, CO, SO_x, PM and PM₁₀, VOC, and total combined HAPs emissions from ID C203B associated with Source ID P203 when the emissions are controlled by only ID C203B to verify compliance with the NO_x, CO, SO_x, PM and PM₁₀, VOC, and total combined HAPs emissions limitations of pounds per hour.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall continuously record the temperature of the combustion chamber of ID C203A associated with Source ID P203 via temperature recorder when ID C203A is in operation.

(b) The permittee shall record the differential pressure of the bed media of ID C203A associated with Source ID P203 at least once per day when ID C203A is in operation.

(c) The permittee shall continuously record the temperature of the combustion chamber of ID C203B associated with Source ID P203 via temperature recorder when ID C203B is in operation.

(d) The permittee shall record the differential pressure of the bed media of ID C203B associated with Source ID P203 at least once per day when ID C203B is in operation.

(e) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined NO_x emissions limitations for IDs C203A and C203B associated with Source ID P203 in any 12 consecutive month period.

(b) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined CO emissions limitations for IDs C203A and C203B associated with Source ID P203 in any 12 consecutive month period.

(c) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined SO_x emissions limitations for IDs C203A and C203B associated with Source ID P203 in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

(d) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined PM and PM10 emissions limitations for IDs C203A and C203B associated with Source ID P203 in any 12 consecutive month period.

(e) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined VOC emissions limitations for IDs C203A and C203B associated with Source ID P203 in any 12 consecutive month period.

(f) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined HAPs emissions limitations for IDs C203A and C203B associated with Source ID P203 in any 12 consecutive month period.

(g) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the a NO_x, CO, SO_x, PM and PM10, VOC, and total combined HAPs emissions limitations for ID C203A associated with Source ID P203 when the emissions are controlled by only ID C203A in any 12 consecutive month period.

(b) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the NO_x, CO, SO_x, PM and PM10, VOC, and total combined HAPs emissions limitations for ID C203B associated with Source ID P203 when the emissions are controlled by only ID C203B in any 12 consecutive month period.

(c) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall not operate the mix tank, slurry tanks, cook tubes, cook water tank, liquefaction tanks, yeast tanks, process condensate tank, beer column, side stripper, rectifier column, 190-proof condenser, whole stillage tank, molecular sieves, 200 proof condenser, centrifuges, centrate tank, thin stillage tank, evaporators, syrup tank, steam condensate tank, interconnecting conveyors, and/or DDGS cooler drum associated with Source ID P203 without the simultaneous operation of ID C203A and ID C203B, except as allowed under condition #019 below.

(b) The permittee shall not operate DDGS dryer A and/or DDGS dryer B associated with Source ID P203 without the simultaneous operation of ID C203A.

(c) The permittee shall not operate DDGS dryer C and/or DDGS dryer D associated with Source ID P203 without the simultaneous operation of ID C203B.

(d) The temperature setpoint for the Source IDs C203A and C203B (RTOs 1&2) shall be set such that the combustion chamber temperature is maintained at a minimum of 1650 degrees Fahrenheit at all times during operation. The minimum operating temperature may be revised based upon the operating temperatures of each Source ID C203A and C203B during their compliance testing. However, this temperature shall not be less than 1600 degrees Fahrenheit.

019 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

**SECTION D. Source Level Requirements**

- (a) Should ID C203A associated with Source ID P203 be inoperable, the permittee may operate the pre-fermentation system, distillation system, separation system, and DDGS drying system, provided that the permittee does not operate DDGS dryer A and/or DDGS dryer B associated with Source ID P203.
- (b) Should ID C203B associated with Source ID P203 be inoperable, the permittee may operate the pre-fermentation system, distillation system, separation system, and DDGS drying system, provided that the permittee does not operate DDGS dryer C and/or DDGS dryer D associated with Source ID P203.
- (c) The permittee shall record the times when only ID C203B associated with Source ID P203 was operating and ID C203A associated with Source ID P203 was not operating.
- (d) The permittee shall record the times when only ID C203A associated with Source ID P203 was operating and ID C203B associated with Source ID P203 was not operating.

VII. ADDITIONAL REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Source ID P203 is a pre-fermentation system, distillation system, separation system, and distiller's dried grain with solubles (DDGS) system.

(1) The pre-fermentation system shall consist of the following sources:

- (i) blend tank with a 470 gallon capacity,
- (ii) slurry tank #1 with a 25,000 gallon capacity,
- (iii) slurry tank #2 with a 29,000 gallon capacity,
- (iv) cook tube #1 with a 5,200 gallon capacity,
- (v) cook tube #2 with a 5,200 gallon capacity,
- (vi) flash tank with a 4,500 gallon capacity,
- (vii) liquefaction tank #1 with a 128,400 gallon capacity,
- (viii) liquefaction tank #2 with a 128,400 gallon capacity,
- (ix) yeast tank #1 with a 20,000 gallon capacity,
- (x) yeast tank #2 with a 20,000 gallon capacity,
- (xi) cook water tank with a 374,000 gallon capacity,
- (xii) methanator feed tank with an 180,000 gallon capacity (removed and/or shutdown),
- (xiii) two (2) Alpha Analyse tanks with a 6,700 gallon each,
- (xiv) two (2) Gluco Analyse tanks with a 6,700 gallon each.

(2) The distillation system shall consist of the following sources:

- (i) process condensate tank with a 770 gallon capacity,
- (ii) beer column with a 64,000 gallon capacity,
- (iii) side stripper with a 14,600 gallon capacity,
- (iv) rectifier column with a 52,000 gallon capacity,
- (v) 190-proof condenser,
- (vi) molecular sieve #1 with a 7,900 gallon capacity,
- (vii) molecular sieve #2 with a 7,900 gallon capacity,
- (viii) molecular sieve #3 with a 7,900 gallon capacity,
- (ix) molecular sieve #4 with a 7,900 gallon capacity,
- (x) molecular sieve #5 with a 7,900 gallon capacity,
- (xi) molecular sieve #6 with a 7,900 gallon capacity,
- (xii) 200-proof condenser,,
- (xiii) reflux tank with a 1,240 gallon capacity,
- (xiv) regan tank with a 1,240 gallon capacity,
- (xv) 200-proof receiver with a 317 gallon capacity,

**SECTION D. Source Level Requirements**

(xvi) 200-proof flash tank with a 1,240 gallon capacity.

(3) The separation system shall consist of the following sources:

- (i) whole stillage tank with a 374,000 gallon capacity,
- (ii) centrifuge #1,
- (iii) centrifuge #2,
- (iv) centrifuge #3,
- (v) centrifuge #4,
- (vi) centrifuge #5,
- (vii) centrifuge #6,
- (viii) centrate tank with a 2,300 gallon capacity,
- (ix) thin stillage tank with a 374,000 gallon capacity,
- (x) evaporator #1 with an 11,500 gallon capacity,
- (xi) evaporator #2 with an 11,500 gallon capacity,
- (xii) evaporator #3 with an 11,500 gallon capacity,
- (xiii) evaporator #4 with an 11,500 gallon capacity,
- (xiv) evaporator #5 with an 11,500 gallon capacity,
- (xv) evaporator #6 with an 11,500 gallon capacity,
- (xvi) evaporator #7 with an 11,500 gallon capacity,
- (xvii) evaporator #8 with an 11,500 gallon capacity,
- (xviii) steam condensate tank with a 1,800 gallon capacity,
- (xix) syrup tank with an 180,000 gallon capacity.

(4) The DDGS drying system shall consist of the following sources:

- (i) DDGS dryer A, natural-gas fired with a rated burner capacity of 45.0 MMBtu/hr and a multiclone for product recovery,
- (ii) DDGS dryer B, natural-gas fired with a rated burner capacity of 45.0 MMBtu/hr, a mixer, and a multiclone for product recovery,
- (iii) DDGS dryer C, natural-gas fired with a rated burner capacity of 45.0 MMBtu/hr and a multiclone for product recovery,
- (iv) DDGS dryer D, natural-gas fired with a rated burner capacity of 45.0 MMBtu/hr, a mixer, and a multiclone for product recovery,
- (v) DDGS cooler drum with a baghouse for product recovery,
- (vi) interconnecting conveyors

The DDGS drying system shall have all air cleaned by the multiclones and baghouse exhausting back to the burners of the dryer and not exhausting to atmosphere.

(b) ID C203A is an Eisenmann model U82-477 natural gas fired regenerative thermal oxidizer (RTO), which has a designed airflow capacity of 55,000 SCFM, burner capacity of 18 MMBtu/hr, and a flush chamber.

(c) ID C203B is an Eisenmann model U82-477 natural gas fired regenerative thermal oxidizer (RTO), which has a designed airflow capacity of 55,000 SCFM, burner capacity of 18 MMBtu/hr, and a flush chamber.

**SECTION D. Source Level Requirements**

Source ID: P204

Source Name: FERMENTATION SYSTEM

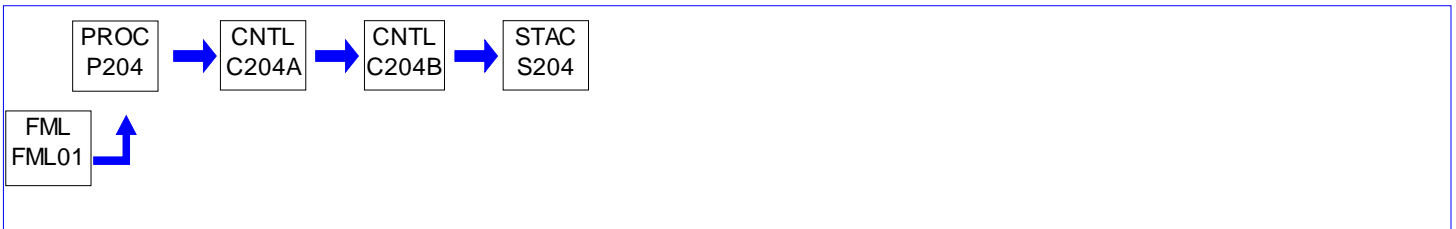
Source Capacity/Throughput:

6.127 MCF/HR

Natural Gas

87,021.000 Lbs/HR

ETHANOL (AVG)

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from Source ID P204 in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, on a dry basis.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of nitrogen oxides (NO_x) from the exhaust of ID C204B associated with Source ID P204 shall not exceed any of the following:

(a) 0.32 pound per hour,

(b) 1.40 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of carbon monoxide (CO) from the exhaust of ID C204B associated with Source ID P204 shall not exceed any of the following:

(a) 0.51 pound per hour,

(b) 2.25 tons in any 12 consecutive month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the particulate matter limitation of 0.04 grain per dry standard cubic foot (gr/dscf) as specified in 25 Pa. Code Section 123.13}

The emission of particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀) from the exhaust of ID C204B associated with Source ID P204 shall not exceed the following:

(a) 0.01 grains per dry standard cubic foot

(b) 9.39 ton in any 12 consecutive month period.

**SECTION D. Source Level Requirements****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the opacity requirements as specified in 25 Pa. Code Sections 123.41 and 123.42}

There shall be no visible emissions from the exhaust of ID C204B associated with Source ID P204.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds (VOCs) from the exhaust of ID C204B associated with Source ID P204 shall not exceed any of the following:

(a) 0.70 pounds per hour,

(b) 2.90 tons in any 12 consecutive month period.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of total combined hazardous air pollutants (HAPs) from the exhaust of ID C204B associated with Source ID P204 shall not exceed any of the following:

(a) 0.30 pound per hour,

(b) 1.40 tons in any 12 consecutive month period.

Fuel Restriction(s).**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Only natural gas shall be fired in ID C204B associated with Source ID P204.

Control Device Efficiency Restriction(s).**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

ID C204B shall destroy the VOC/HAP emissions ducted to it from Source ID P204 at a destruction efficiency of no less than 98% (by weight) or have an outlet VOC concentration of no more than 10 ppmv as propane.

II. TESTING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) No later than 5 calendar years after the last performance test, unless otherwise required sooner by the Department, the permittee shall conduct subsequent testing on the Source ID P204 equipment in accordance with the following:

(1) On the inlet and exhaust of ID C204B associated with Source ID P204 to verify compliance with VOC and HAP emissions limitations and the VOC/HAP destruction efficiency of ID C204B; and

**SECTION D. Source Level Requirements**

(2) During any of the summer months within the calendar year's third quarter (July through September).

(b) All testing shall be performed while the facility is operating at representative operating conditions, using EPA reference test methods and other procedures approved by the Department.

III. MONITORING REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) ID C204B associated with Source ID P204 shall be equipped with instrumentation to monitor and record the temperature of the combustion chamber of ID C204B on a continuous basis.

(b) ID C204B associated with Source ID P204 shall be equipped with instrumentation to monitor the differential pressure across the bed media of ID C204B and the monitor shall be operated on a continuous basis.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) ID C204A associated with Source ID P204 shall be equipped with instrumentation to monitor the scrubber water flow rate and pressure drop across the scrubber on a continuous basis.

(b) The permittee shall monitor and record the scrubber water pH at least once per day.

IV. RECORDKEEPING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of:

(a) the supporting calculations on a monthly basis for the NO_x emissions from ID C204B associated with Source ID P204 to verify compliance with the NO_x emissions limitations of pounds per hour and tons in any 12 consecutive month period.

(b) the supporting calculations on a monthly basis for the CO emissions from ID C204B associated with Source ID P204 to verify compliance with the CO emissions limitations of pounds per hour and tons in any 12 consecutive month period.

(c) the supporting calculations on a monthly basis for the SO_x emissions from ID C204B associated with Source ID P204 to verify compliance with the SO_x emissions limitations of tons in any 12 consecutive month period.

(d) the supporting calculations on a monthly basis for the total PM and PM₁₀ emissions from ID C204B associated with Source ID P204 to verify compliance with the total PM and PM₁₀ emissions limitations of tons in any 12 consecutive month period.

(e) the supporting calculations on a monthly basis for the VOC emissions from ID C204B associated with Source ID P204 to verify compliance with the VOC emissions limitations of pounds per hour and tons in any 12 consecutive month period.

(f) the supporting calculations on a monthly basis for the total combined HAPs emissions from ID C204B associated with Source ID P204 to verify compliance with the total combined HAPs emissions limitation of pounds per hour and tons in any 12 consecutive month period.

(g) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**SECTION D. Source Level Requirements****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall continuously record the temperature of the combustion chamber of ID C204B associated with Source ID P204 when ID C204B is in operation.
- (b) The permittee shall record the differential pressure of the bed media of ID C204B associated with Source ID P204 at least once per day when ID C204B is in operation.
- (c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

- (a) The permittee shall record the scrubber water flow rate, pressure drop across the scrubber, and pH of the scrubber water of ID C204A associated with Source ID P204 at least once per day when ID C204A is in operation.
- (b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the NOx emissions limitations for ID C204B associated with Source ID P204 in any 12 consecutive month period.
- (b) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the CO emissions limitations for ID C204B associated with Source ID P204 in any 12 consecutive month period.
- (c) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the SOx emissions limitation for ID C204B associated with Source ID P204 in any 12 consecutive month period.
- (d) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total PM and PM10 emissions limitation for ID C204B associated with Source ID P204 in any 12 consecutive month period.
- (e) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the VOC emissions limitations for ID C204B associated with Source ID P204 in any 12 consecutive month period.
- (f) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined HAPs emissions limitations for ID C204B associated with Source ID P204 in any 12 consecutive month period.
- (g) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code Section 127.444]

**SECTION D. Source Level Requirements**

(a) The scrubbing water flow rate setpoint for Source ID C204A associated with Source ID P204 shall be set by the permittee such that the Source ID C204 water throughput is not less than 100 gallons per minute (gpm) at all times during operation. The minimum flow rate may be revised based upon compliance testing. However, this rate shall not be less than 40 gpm.

(b) In addition, Source ID C204A shall only use clean water on a once-through basis.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code Section 127.444]

(a) The permittee shall not operate Source ID P204 without the simultaneous operation of Source IDs C204A and ID C204B. The VOC and vHAP emissions from Source ID P204 shall be controlled by Source IDs C204A and C204B in series with another. However, if 100% of the exhaust product from ID C204A is transferred to the offsite facility as approved by the Department then the Source ID C204B (RTO 3) is not required to operate.

(b) The operating temperature setpoint for Source ID C204B shall be set by the permittee such that the Source ID C204B combustion chamber temperature shall not be below 1,850 degrees Fahrenheit. The operating temperature requirement may be revised based upon Department-approved compliance testing. However, the operating temperature shall be no less than 1,745 degrees Fahrenheit.

VII. ADDITIONAL REQUIREMENTS.**# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Source ID P204 is a fermentation system, which consists of the following:

- (i) fermenter #1 with a 807,000 gallon capacity,
- (ii) fermenter #2 with a 807,000 gallon capacity,
- (iii) fermenter #3 with a 807,000 gallon capacity,
- (iv) fermenter #4 with a 807,000 gallon capacity,
- (v) fermenter #5 with a 807,000 gallon capacity,
- (vi) fermenter #6 with a 807,000 gallon capacity,
- (vii) fermenter #7 with a 807,000 gallon capacity,
- (viii) beer well with a 1,080,000 gallon capacity.

(b) ID C204A is an A&B Process fermentation scrubber, which is a packed gas column scrubber and shall have a designed airflow capacity of 11,000 SCFM.

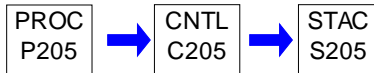
(c) ID C204B is a MEGTEC model Cleanswitch-250-94 natural gas fired regenerative thermal oxidizer (RTO), which shall have a designed airflow capacity of 25,000 SCFM, burner capacity of 6.25 MMBtu/hr, and a flush chamber.

**SECTION D. Source Level Requirements**

Source ID: P205

Source Name: DDGS STORAGE & LOADOUT

Source Capacity/Throughput: 90.000 Tons/HR DDGS

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the particulate matter limitation of 0.04 grain per dry standard cubic foot (gr/dscf) as specified in 25 Pa. Code Section 123.13}

The emissions of total particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10) in the exhaust of ID C205 associated with Source ID P205 shall not exceed any of the following:

- (a) a concentration of 0.005 grain per dry standard cubic foot,
- (b) 0.31 pound per hour,
- (c) 1.37 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the opacity requirements as specified in 25 Pa. Code Sections 123.41 and 123.42}

There shall be no visible emissions from the exhaust of ID C205 associated with Source ID P205.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

ID C205 associated with Source ID P205 shall be equipped with instrumentation to monitor the differential pressure across ID C205 and the actual differential pressure shall be displayed on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall keep records of the supporting calculations on a monthly basis for the total PM and PM10 emissions from the exhaust of ID C205 associated with Source ID P205 to verify compliance with the total PM and PM10 emissions

**SECTION D. Source Level Requirements**

limitations of pounds per hour and tons in any 12 consecutive month period.

(b) The permittee shall keep records of all stack tests reports to verify compliance with the PM and PM10 emissions limitation in gr/dscf for ID C205 associated with the Source ID P205.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the differential pressure across ID C205 associated with Source ID P205 at least once per day during the operation of ID C205.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total PM and PM10 emissions limitations for ID C205 associated with Source ID P205 in any 12 consecutive month period.

(b) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for ID C205 associated with Source ID P205 in order to be able to immediately replace any bags requiring replacement due to deterioration.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying the compressed air for ID C205 associated with Source ID P205 shall be equipped with an air dryer and oil trap.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

All sources associated with Source ID P205, which are not entirely located inside a building, shall be fully enclosed.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall not operate Source ID P205 without the simultaneous operation of the ID C205.

(b) The PM and PM10 emissions from Source ID P205 shall be controlled by ID C205.

**SECTION D. Source Level Requirements****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall only use 16 weight (ounces per square yard) singed polyester felt fabric bags or other bags as approved by the Department that offers equivalent or better control of particulate matter emissions from Source ID C205 associated with Source ID P205.

(b) Based on the RFD 8306 submitted and later approved, the Source ID C205 collector's new filters/bag replacements shall be installed and operated in accordance the manufacturer's specifications and good operating practices.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Source ID P205 is the distillers dried grain with solubles (DDGS) storage and loadout operation, which shall consist of the following sources:

- (1) DDGS transfer inclined conveyor,
- (2) DDGS flat storage conveyor,
- (3) DDGS storage pile conveyor,
- (4) DDGS flat storage,
- (5) DDGS reclaim hopper/conveyor,
- (6) DDGS silo bucket elevator,
- (7) DDGS silo storage conveyor,
- (8) DDGS silo recycle conveyor,
- (9) DDGS storage silo #1 with a capacity of 4,000 tons,
- (10) DDGS storage silo #2 with a capacity of 4,000 tons,
- (11) DDGS storage silo #1 loadout conveyor,
- (12) DDGS storage silo #2 loadout conveyor,
- (13) DDGS silo bucket elevator,
- (14) weighing system,
- (15) DDGS loadout conveyor,
- (16) DDGS truck loadout,
- (17) DDGS railcar loadout.

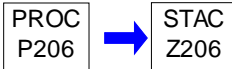
(b) ID C205 is a Camcorp model 10SWF80-76 RA fabric collector associated with the DDGS storage and loadout operation. ID C205 shall be cleaned using reverse air flow and shall have a rated airflow capacity of 7,300 standard cubic feet per minute (SCFM).

**SECTION D. Source Level Requirements**

Source ID: P206

Source Name: VOC-CONTAINING STORAGE TANKS

Source Capacity/Throughput: 13.185 Th Gal/HR ETHANOL (AVG)

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds (VOCs) from Source ID P206 shall not exceed any of the following:

- (a) 0.67 pound per hour,
- (b) 2.94 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with the requirement specified in this streamlined condition assures compliance with the provisions in 40 CFR Section 60.113b(a) and 25 Pa. Code Section 129.56(f)]

The permittee shall visually inspect the internal floating roof, the primary seal, and the secondary seal of the denaturant, 190-proof, 200-proof, and ethanol tanks associated with Source ID P206 prior to filling. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the denaturant, 190-proof, 200-proof, and ethanol tanks associated with Source ID P206.

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the supporting calculations on a monthly basis for the VOC emissions from Source ID P206 to verify compliance with the VOC emissions limitations of pounds per hour and tons in any 12 consecutive month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with the requirement specified in this streamlined condition assures compliance with the provisions in 40 CFR Section 60.116b(a), 40 CFR Section 116b(c), and 40 CFR Section 116b(e)]

- (a) The permittee shall keep records of the throughput in the denaturant, 190-proof, 200-proof, and ethanol tanks associated with Source ID P206 and the maximum true vapor pressure of the materials in each fill of the denaturant, 190-proof, 200-

**SECTION D. Source Level Requirements**

proof, and ethanol tanks. The permittee shall use available data on Reid vapor pressure and maximum expected storage temperature based on the highest expected calendar-month average temperature to calculate maximum true vapor pressure for the denaturant.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.115b]
Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
Reporting and recordkeeping requirements.**

[Additional authority for this plan approval condition is derived from 40 CFR Section 60.115b(a)]

(a) The permittee shall keep records to verify that the denaturant, 190-proof, 200-proof, and ethanol tanks associated with Source ID P206 meet the requirements of 40 CFR Part 60, Subpart Kb.

(b) The permittee shall keep records of each inspection performed on the denaturant, 190-proof, 200-proof, and ethanol tanks associated with Source ID P206.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the VOC emissions limitation for Source ID P206 in any 12 consecutive month period.

(b) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with the requirement specified in this streamlined condition assures compliance with the provisions in 40 CFR Section 60.112b(a)(1) and 25 Pa. Code Section 129.56(c)]

The denaturant, 190-proof, 200-proof, and ethanol tanks associated with Source ID P206 shall be equipped with two wiper seals mounted one above the other as a primary seal and a rim-mounted secondary seal.

VII. ADDITIONAL REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P206 consists of tanks storing VOC-containing material, which include the following:

- (a) 190-proof ethanol tank with a 200,000 gallon capacity,
- (b) 200-proof ethanol tank with a 200,000 gallon capacity,
- (c) gasoline denaturant storage tank with a 200,000 gallon capacity,
- (d) ethanol storage tank #1 with a 1.5 million gallon capacity,
- (e) ethanol storage tank #2 with a 1.5 million gallon capacity,
- (f) fuel additive tank with a 2,300 gallon capacity,
- (g) two (2) diesel (#2 fuel oil) storage tank each with a 550 gallon capacity.
- (h) gasoline storage tank with a 550 gallon capacity.

**SECTION D. Source Level Requirements****# 009 [25 Pa. Code §129.56]****Storage tanks greater than 40,000 gallons capacity containing VOCs**

The denaturant, 190-proof, 200-proof, and ethanol tanks associated with Source ID P206 are subject to 25 Pa Code Section 129.56. The permittee shall comply with all the applicable requirements specified in 25 Pa. Code Section 129.56.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.110b]**Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984****Applicability and designation of affected facility.**

The denaturant, 190-proof, 200-proof, and ethanol tanks associated with Source ID P206 are subject to 40 CFR Part 60, Subpart Kb. The permittee shall comply with all the applicable requirements specified in 40 CFR Sections 60.110b through 60.117b.

**SECTION D. Source Level Requirements**

Source ID: P207

Source Name: ETHANOL LOADOUT

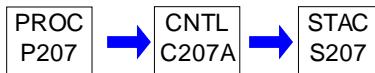
Source Capacity/Throughput:

5.490 MCF/HR

Natural Gas

13.185 Th Gal/HR

ETHANOL (AVG)

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with the requirement specified in this streamlined condition assures compliance with the sulfur oxides limitation of 500 parts per million as specified in 25 Pa. Code Section 123.21]

The emission of sulfur oxides (SOx), expressed as sulfur dioxide (SO₂), from the exhaust of ID C207A associated with Source ID P207 shall not exceed any of the following:

- (a) 0.003 pound per hour,
- (b) 0.007 ton in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of nitrogen oxides (NOx) from the exhaust of ID C207A associated with Source ID P207 shall not exceed any of the following:

- (a) 3.08 pounds per hour,
- (b) 6.47 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of carbon monoxide (CO) from the exhaust of ID C207A associated with Source ID P207 shall not exceed any of the following:

- (a) 1.5 pounds per hour,
- (b) 2.5 tons in any 12 consecutive month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with the requirement specified in this streamlined condition assures compliance with the particulate matter limitation of 0.04 grain per dry standard cubic foot as specified in 25 Pa. Code Section 123.13]

The emission of total particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀) from the exhaust of ID C207A associated with Source ID P207 shall not exceed any of the following:

- (a) 0.16 pound per hour,

**SECTION D. Source Level Requirements**

(b) 0.27 ton in any 12 consecutive month period.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

There shall be no visible emissions from the exhaust of ID C207A associated with Source ID P207.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds (VOCs) from the exhaust of ID C207A associated with Source ID P207 shall not exceed any of the following:

(a) 2.80 pounds per hour,

(b) 2.80 tons in any 12 consecutive month period.

Throughput Restriction(s).**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID P207 shall not loadout more than 115.5 million gallons of ethanol in any 12 consecutive month period.

Control Device Efficiency Restriction(s).**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from the conditions of approval for the RFD approved on November 16, 2009]

ID C207A shall destroy the VOC emissions ducted to it from Source ID P207 at a destruction efficiency of no less than 99% (by weight).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

ID C207A associated with Source ID P207 shall be equipped with instrumentation to monitor and record the temperature of the combustion chamber of ID C207A on a continuous basis.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of:

- (a) the supporting calculations on a monthly basis for the NO_x emissions from ID C207A associated with Source ID P207 to verify compliance with the NO_x emissions limitations of pounds per hour and tons in any 12 consecutive month period.
- (b) the supporting calculations on a monthly basis for the CO emissions from ID C207A associated with Source ID P207 to verify compliance with the CO emissions limitations of pounds per hour and tons in any 12 consecutive month period.
- (c) the supporting calculations on a monthly basis for the SO_x emissions from ID C207A associated with Source ID P207 to verify compliance with the SO_x emissions limitations of pounds per hour and tons in any 12 consecutive month period.
- (d) the supporting calculations on a monthly basis for the total PM and PM₁₀ emissions from ID C207A associated with Source ID P207 to verify compliance with the total PM and PM₁₀ emissions limitations of pounds per hour and tons in any 12 consecutive month period.
- (e) the supporting calculations on a monthly basis for the VOC emissions from ID C207A associated with Source ID P207 to verify compliance with the VOC emissions limitations of pounds per hour and tons in any 12 consecutive month period.
- (f) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall continuously record the temperature of the combustion chamber of ID C207A associated with Source ID P207 when ID C207A is in operation. These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the number of hours Source ID P207 operates and the amount of ethanol processed through Source ID P207 on a monthly basis. These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the NO_x emissions limitations for ID C207A associated with Source ID P207 in any 12 consecutive month period.
- (b) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the CO emissions limitations for ID C207A associated with Source ID P207 in any 12 consecutive month period.
- (c) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the SO_x emissions limitations for ID C207A associated with Source ID P207 in any 12 consecutive month period.
- (d) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total PM and PM₁₀ emissions limitations for ID C207A associated with Source ID P207 in any 12 consecutive month period.
- (e) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to

**SECTION D. Source Level Requirements**

verify compliance with the VOC emissions limitations for ID C207A associated with Source ID P207 in any 12 consecutive month period.

(g) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

All VOC emissions displaced from railcars and trucks being loaded with ethanol shall be collected through dedicated vapor collection lines and ducted to the ID C207A associated with Source ID P207 for destruction.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall not operate Source ID P207 without the simultaneous operation of ID C207A.

(b) The temperature setpoint for ID C207A shall be set such that the combustion chamber temperature is maintained at a minimum of 1480 degrees F, during all the periods of source operation when ethanol loadout is occurring. The minimum operating temperature may be revised based upon the operating temperature of ID C207A during Department approved compliance testing. However, this temperature shall not be less than 1400 degrees F.

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P207 is a Deternam Brownie model PK-8600 ethanol loadout operation, which consists of three (3) truck ethanol loadout spouts and two (2) railcar ethanol loadout spouts.

(b) ID C207A is a Megtec model VBO-4000 Ventura burner oxidizer (VBO), rated at 5.6 MMBtu/hr. The combustion chamber of the VBO shall be fully enclosed. Natural gas is used for the pilot and backup fuel supply of the ethanol loadout VBO.

**SECTION D. Source Level Requirements**

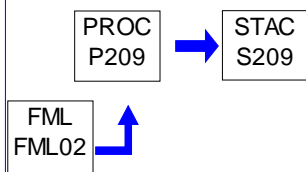
Source ID: P209

Source Name: FIRE PUMP

Source Capacity/Throughput:

23.300 Gal/HR

ENGINE CAPACITY

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR Section 60.4205(c)}

The emission of carbon monoxide (CO) from Source ID P209 shall not exceed any of the following:

- (a) 0.53 gram per brake horsepower-hour,
- (b) 0.54 pound per hour,
- (c) 0.07 ton in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the sulfur oxides limitation of 500 parts per million as specified in 25 Pa. Code Section 123.21}

The emission of sulfur oxides (SOx), expressed as sulfur dioxide (SO₂), from Source ID P209 shall not exceed any of the following:

- (a) 4.05 E-04 pound per brake hp-hr,
- (b) 0.19 pound per hour,
- (c) 0.02 ton in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the provision in 40 CFR Section 60.4205(c) and the particulate matter limitation of 0.04 grain per dry standard cubic foot (gr/dscf) as specified in 25 Pa. Code Section 123.13}

The emission of total particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀) from Source ID P209 shall not exceed any of the following:

**SECTION D. Source Level Requirements**

- (a) 0.16 gram per brake horsepower-hour,
- (b) 0.11 pound per hour,
- (c) 0.01 ton in any 12 consecutive month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined condition assures compliance with the opacity requirements as specified in 25 Pa. Code Sections 123.41 and 123.42}

There shall be no visible emissions from the exhaust of Source ID P209.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR Section 60.4205(c)}

The emission of non-methane hydrocarbons (NMHC), including volatile organic compounds (VOCs), from Source ID P209 shall not exceed any of the following:

- (a) 0.097 gram per brake horsepower-hour,
- (b) 0.10 pound per hour,
- (c) 0.01 ton in any 12 consecutive month period.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of total combined hazardous air pollutants (HAPs) from Source ID P209 shall not exceed any of the following:

- (a) 0.012 pound per hour,
- (b) 0.0015 ton in any 12 consecutive month period.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR Section 60.4205(c)}

The emission of nitrogen oxides (NOx) from Source ID P209 shall not exceed any of the following:

- (a) 2.6 grams per brake horsepower-hour,
- (b) 2.64 pounds per hour,
- (c) 0.33 ton in any 12 consecutive month period.

**SECTION D. Source Level Requirements****Fuel Restriction(s).****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12 and 40 CFR Section 60.4207]

The permittee shall only fire #2 fuel oil or diesel fuel in Source ID P209. The sulfur content of the #2 fuel oil or diesel fuel fired in Source ID P209 shall not, at any time, exceed 0.05% (by weight).

Operation Hours Restriction(s).**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12 and 40 CFR Section 60.4211(e)]

Source ID P209 shall not be operated more than 250 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR Section 60.4209(a)}

Source ID P209 shall be equipped with a non-resettable meter for hours of operation prior to startup and the meter shall be operated at all times Source ID P209 is in operation.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of:

(a) the supporting calculations on a monthly basis for the NO_x emissions from Source ID P209 to verify compliance with the NO_x emissions limitations of grams per brake horsepower-hour, pounds per hour, and tons in any 12 consecutive month period.

(b) the supporting calculations on a monthly basis for the CO emissions from Source ID P209 to verify compliance with the CO emissions limitations of grams per brake horsepower-hour, pounds per hour, and tons in any 12 consecutive month period.

(c) the supporting calculations on a monthly basis for the SO_x emissions from Source ID P209 to verify compliance with the SO_x emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(d) the supporting calculations on a monthly basis for the total PM and PM₁₀ emissions from Source ID P209 to verify compliance with the total PM and PM₁₀ emissions limitations of grams per brake horsepower-hour, pounds per hour, and tons in any 12 consecutive month period.

(e) the supporting calculations on a monthly basis for the NMHC, including VOCs, emissions from Source ID P209 to verify

**SECTION D. Source Level Requirements**

compliance with the NMHC, including VOCs, emissions limitations of grams per brake horsepower-hour, pounds per hour, and tons in any 12 consecutive month period.

(f) the supporting calculations on a monthly basis for the total combined HAPs emissions from Source ID P209 to verify compliance with the total combined HAPs emissions limitation of pounds per hour and tons in any 12 consecutive month period.

(g) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

{Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR Section 60.4209(a)}

(a) The permittee shall keep records of the number of hours that Source ID P209 operates on a monthly basis to verify compliance with the operation hours restriction in any 12 consecutive month period.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the NOx emissions limitations for Source ID P209 in any 12 consecutive month period.

(b) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the CO emissions limitations for Source ID P209 in any 12 consecutive month period.

(c) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the SOx emissions limitations for Source ID P209 in any 12 consecutive month period.

(d) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total PM and PM10 emissions limitations for Source ID P209 in any 12 consecutive month period.

(e) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the NMHC, including VOCs, emissions limitations for Source ID P209 in any 12 consecutive month period.

(f) The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the total combined HAPs emissions limitation for Source ID P209 in any 12 consecutive month period.

(g) The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID P209 is a John Deere model JX6H-UF-ADFO rated at 460 horsepower and fired on diesel fuel (#2 fuel oil).

015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****Am I subject to this subpart?**

Source ID P209 is subject to the New Source Performance Standards, 40 CFR Part 60, Subpart IIII and shall comply with all applicable requirements as specified in 40 CFR Sections 60.4200 through 60.4219.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What is the purpose of subpart ZZZZ?**

Source ID P209 is subject to the National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subpart ZZZZ and shall comply with all applicable requirements as specified in 40 CFR Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

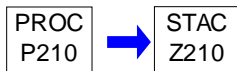
Source ID: P210

Source Name: COOLING TOWER

Source Capacity/Throughput:

3.300 MGal/HR

RECIRCULATED WATER

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of total particulate matter (PM) and total particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10) from Source ID P210 shall not exceed any of the following:

- (a) 3.45 pound per hour,
- (b) 15.11 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

IV. RECORDKEEPING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall keep records of the supporting calculations on a monthly basis for the total PM and PM10 emissions from Source ID P210 to verify compliance with the total PM and PM10 emissions limitations of pounds per hour and tons in any 12 consecutive month period.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Each cell of Source ID P210 shall be equipped with a drift eliminator. The drift eliminators shall be capable of achieving a maximum drift rate of 0.005%.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P210 is a Cooling Tower Depot model PK-9801 cooling tower, which shall have a maximum circulating water flow rate capacity of 55,000 gallons per minute.



SECTION E. Source Group Restrictions.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.



SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



***** End of Report *****
