

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

# STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: April 25, 2025 Effective Date: April 30, 2025

Expiration Date: April 29, 2030

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: 15-00086

Synthetic Minor

Federal Tax Id - Plant Code: 36-2495446-1

**Owner Information** 

Name: DARLING INGREDIENTS INC

Mailing Address: 97 WESTBROOK DR

HONEY BROOK, PA 19344-1374

Plant Information

Plant: BAKERY FEEDS/HONEY BROOK

Location: 15 Chester County 15932 Honey Brook Township

SIC Code: 2048 Manufacturing - Prepared Feeds, Nec

Responsible Official

Name: WILLIAM BUTLER
Title: GENERAL MANAGER

Phone: (484) 667 - 1650 Email: william.butler@darlingii.com

**Permit Contact Person** 

Name: WILLIAM BUTLER
Title: GENERAL MANAGER

Phone: (484) 667 - 1650 Email: william.butler@darlingii.com

[Signature]

JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAMMANAGER





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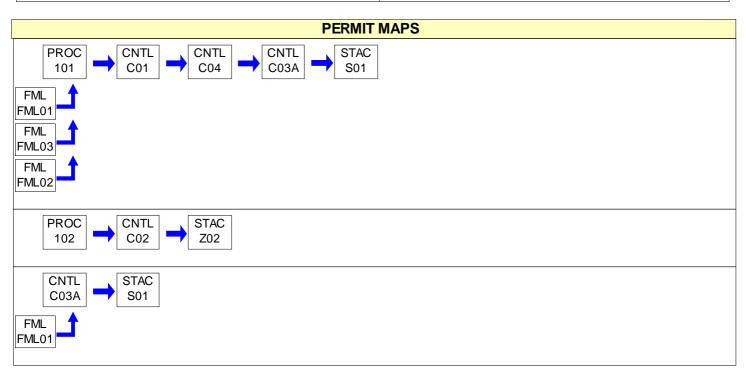
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# SECTION A. Site Inventory List

Source I	D Source Name	Capacity	/Throughput	Fuel/Material
101	BAKERY RESIDUALS PROCESSING LINE	22.500	MMBTU/HR	
		0.900	Tons/HR	PACKAGING MATERIALS
		22.500	MCF/HR	Natural Gas
		1.400	Tons/HR	WOOD SAWDUST
		235.000	Gal/HR	Propane
102	BAKERY RESIDUALS PACKAGING MATERIALS SEPARATION		N/A	
C01	BAKERY RESIDUALS PROCESSING LINE ROTARY DRUM DRYER CYCLONE			
C02	BAKERY RESIDUALS PACKAGING MATERIALS SEPARATION CYCLONE			
C03A	CCS&ES REGENERATIVE THERMAL OXIDIZER (RTO)			
C04	PRE-RTO FILTER UNIT			
FML01	NATURAL GAS PIPELINE			
FML02	WOOD SAWDUST STORAGE AREA			
FML03	BAKERY RESIDUALS PACKAGING MATERIALS			
S01	CCS&ES RTO STACK			
Z02	BAKERY RESIDUALS PACKAGING MATLS SEPARATION FUGITIVE EMISS			







#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.





- (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:





- (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:



- (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 NOx from a single source during the term of the permit and 5 tons of NOx 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:





- (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)





- (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





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.





#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.



#### I. RESTRICTIONS.

## **Emission Restriction(s).**

## # 001 [25 Pa. Code §121.7]

#### Prohibition of air pollution.

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

## # 002 [25 Pa. Code §123.1]

# Prohibition of certain fugitive emissions

- (a) No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant 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, as specified in 25 Pa. Code § 129.14.
- (7) N/A
- (8) N/A
- (9) Sources and classes of sources other than those identified in (1)-(8) of this condition, 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; and
- (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

## # 003 [25 Pa. Code §123.2]

## Fugitive particulate matter

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

# # 004 [25 Pa. Code §123.31]

# Limitations

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

#### # 005 [25 Pa. Code §123.41]

# Limitations

A person may not 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:

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

# # 006 [25 Pa. Code §123.42]

# **Exceptions**

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in any of the following instances:

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code  $\S$  123.1(a) (1) (8) remove # reference (relating to prohibition of certain fugitive emissions).





# # 007 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The permittee shall ensure that emission into the outdoor atmosphere from this facility shall not exceed the following emission rates, calculated monthly as a 12-month rolling sum:

- (a) Nitrogen Oxides (NOx): 25 tons/yr
- (b) Volatile Organic Compounds (VOCs): 25 tons/vr
- (c) Hazardous Air Pollutants (HAPs): 10 tons/yr for any individual HAP and 25 tons/yr for total HAP

## # 008 [25 Pa. Code §129.14]

# **Open burning operations**

No person may permit the open burning of material in the Southeast Air Basin except where the open burning operations result from:

- (a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.
- (f) A fire set solely for recreational or ceremonial purposes.
- (g) A fire set solely for cooking food.

## II. TESTING REQUIREMENTS.

## # 009 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, the most current version of the DEP Source Testing Manual, and the EPA Clean Air Act National Stack Testing Guidance, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

# III. MONITORING REQUIREMENTS.

# # 010 [25 Pa. Code §123.43]

# Measuring techniques

The permittee may measure visible air contaminant emissions using either of the following:

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

## # 011 [25 Pa. Code §127.441]

## Operating permit terms and conditions.

- (a) The permittee shall monitor the facility, once per operating day, for the following:
  - (1) odors which may be objectionable (as per 25 Pa. Code §123.31);





- (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
- (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).
- (b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:
  - (1) be investigated;
  - (2) be reported to the facility management, or individual(s) designated by the permittee;
  - (3) have appropriate corrective action taken (for emissions that originate on-site); and
  - (4) be recorded in a permanent written log.
- (c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.
- (d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

# # 012 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

The permittee shall calculate the following emissions from this facility on a monthly and 12-month rolling basis, using Department-approved methods:

- (a) The total NOx emissions.
- (b) The total VOC emissions.
- (c) The total emissions of each individual HAP.
- (d) The total HAP emissions.

# IV. RECORDKEEPING REQUIREMENTS.

# # 013 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 C.F.R. § 70.6(a)(3)(ii)(B).]

The permittee shall maintain all records, reports, and analysis results generated in compliance with the requirements of any section of this permit in accordance with Condition # 020(b), Section B, of this permit, and shall make them available to the Department upon written or verbal request within a reasonable time.

#### # 014 [25 Pa. Code §127.441]

## Operating permit terms and conditions.

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) Date, time, and location of the incident(s);
- (b) The cause of the event; and
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

## # 015 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The permittee shall maintain records of all the facility's increases of emissions from the following categories:





- (a) emissions increase of minor significance without notification to the Department.
- (b) de minimis increases with notification to the Department, via letter.
- (c) increases resulting from a Request for Determination (RFD) to the Department.
- (d) increases resulting from the issuance of a plan approval and subsequent operating permit.

#### # 016 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The permittee shall maintain records of training received from the rotary drum dryer manufacturer for each operator of the bakery residuals processing line. Alternatively, the permittee shall maintain records demonstrating that each operator has obtained the minimum number of training hours and work experience from a previously established line operator.

## # 017 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

The permittee shall maintain records of the following emissions from this facility on a monthly and 12-month rolling basis, calculated using Department-approved methods:

- (a) The total NOx emissions.
- (b) The total VOC emissions.
- (c) The total emissions of each individual HAP.
- (d) The total HAP emissions.

#### V. REPORTING REQUIREMENTS.

# # 018 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to DEP's 24-hour Emergency Hotline at 800.541.2050. 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 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; and
- (6) Corrective actions or preventative measures taken.
- (d) 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.

[Additional authority for this condition is also derived from 40 CFR Part 68.]

- (a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the threshold quantity at a facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:
  - (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
    - (i) Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
    - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
- (2) Certify that this facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.
- (e) If this facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to submit a compliance schedule or fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.





#### VI. WORK PRACTICE REQUIREMENTS.

# # 020 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The permittee shall ensure that the source(s) and air pollution control device(s), listed in this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

#### # 021 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

The permittee shall immediately, upon discovery, implement measures which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

## # 022 [25 Pa. Code §127.441]

## Operating permit terms and conditions.

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g) of Section B, of this permit.

# # 023 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall not operate the bakery residuals processing line at this facility unless a fully-trained and qualified operator is at the facility and on duty. The trained and qualified operator shall have received either of the following:

- (a) Training from the rotary drum dryer combustor manufacturer; or
- (b) A minimum of 160 hours of training from a previously-certified operator, and a minimum of 6 months of operating experience.

## # 024 [25 Pa. Code §123.1]

#### Prohibition of certain fugitive emissions

A person responsible for any source specified in 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) 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 by other means.

#### VII. ADDITIONAL REQUIREMENTS.

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

## 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.





Source ID: 101 Source Name: BAKERY RESIDUALS PROCESSING LINE

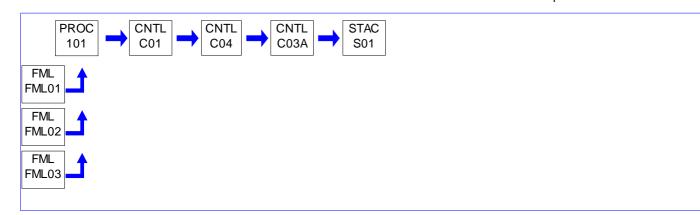
Source Capacity/Throughput: 22.500 MMBTU/HR

0.900 Tons/HR PACKAGING MATERIALS

22.500 MCF/HR Natural Gas

1.400 Tons/HR WOOD SAWDUST

235.000 Gal/HR Propane



#### I. RESTRICTIONS.

# **Emission Restriction(s).**

# 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall ensure that emission into the following pollutants from this bakery residuals processing line occurs in such a manner that the rates of the emission do not exceed any of the following:

Pollutant	Lbs/hr	Tons/yr
CO	2.2	9.6
NOx	5.0	
PM/PM-10/PM2.5	8.4	37.0
VOCs	2.5	

Tons/yr = Tons per 12-month rolling period, calculated monthly.

PWPM-10/PM2.5 = Filterable plus condensable PWPM less than 10  $\mu$ m in aerodynamic diameter/PM less than 2.5  $\mu$ m in aerodynamic diameter.

VOCs = VOCs, as ethanol.

# # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall ensure that emission into the outdoor atmosphere of PMPM-10/PM-2.5 from this bakery residuals processing line occurs in such a manner that the concentration of filterable plus condensable PMPM-10/PM-2.5 in the exhaust gas, as measured at the outlet of the associated RTO (Source ID C03A) using EPA Methods 5 and 202, respectively, does not exceed 0.04 grains per dry standard cubic foot (gr/dscf).

# 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that emission into the outdoor atmosphere of visible air contaminants from this bakery residuals processing line occurs in such a manner that the opacity of the emission is neither of the following:





- (a) Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (b) Equal to or greater than 30% at any time.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.41(1)–(2).]

## Fuel Restriction(s).

## # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall ensure that natural gas, bakery residuals packaging materials (i.e., paper and plastic), propane, and wood sawdust are the only fuels consumed by the biomass burner of this bakery residuals processing line, except as follows:

- (a) Natural gas and propane shall be the only fuels consumed during startup.
- (b) Wood sawdust that has been chemically treated shall not be consumed.

# Control Device Efficiency Restriction(s).

# # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

- (a) The permittee shall ensure that all emissions from the rotary drum dryer of this bakery residuals processing line are ducted to the associated cyclone (Source ID C01), pre-RTO filter unit (Source ID C04), and RTO (Source ID C03A) before exhausting into the outdoor atmosphere.
- (b) The permittee shall ensure that the RTO associated with the bakery residuals processing line achieves and maintains a minimum VOC destruction efficiency of 98.0% or, otherwise, an outlet VOC emission concentration of less than or equal to

7 ppmv, dry basis, as propane.

# II. TESTING REQUIREMENTS.

## # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall perform a stack test using Department-approved procedures once every five (5) calendar years, where five calendar years is defined as the beginning of the calendar year the latest stack test was performed and ending on December 31, five years later. The stack test shall comply with the following requirements, unless otherwise approved by the Department:
- (1) In accordance with the provisions of 25 Pa. Code Chapter 139 and the current version of the Department's Source Testing Manual.
- (2) At the outlet of the associated RTO (Source ID C03A) using EPA Methods 5, 7E, 10, 25A, and 202 to determine the concentrations of filterable PM, NOx, CO, VOCs, and condensable PM, respectively, in the exhaust gas.
- (3) At the inlet to the RTO using EPA Method 25A to determine the concentration of VOCs prior to control (i.e., for comparison with the outlet VOC concentration determined under (a)(2), above, to calculate the VOC destruction efficiency of the RTO).
- (4) While the biomass burner of the line is consuming natural gas and bakery residuals packaging materials only, and in such a manner that natural gas provides 55-75% of the heat input to the burner (i.e., the normal heat input ratio).





- (5) While the line is operating at normal operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (b) At least 90 days prior to the stack test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples. A test protocol shall be approved by the Source Testing Section of the Department prior to the test. [Note: The permittee may follow the procedures specified in the protocol for the most recent stack test performed for the line (a letter referencing the previously-approved protocol is sufficient), provided that it uses the same stack testing company and has not made any modifications to the bakery residuals processing line. Otherwise, or if an applicable section of the Department's Source Testing Manual has been revised since the protocol was previously approved, the permittee shall submit a new protocol to the Department for approval.]
- (c) At least 30 days prior to the stack test, the permittee shall inform the Regional Air Quality Program Manager of the Department of the date and time of the test.
- (d) Within 60 days after the stack test, the permittee shall submit two copies of the complete test report, including all operating conditions, to the Regional Air Quality Program Manager of the Department for approval.
- (e) The permittee may request an extension of time for any deadlines indicated in (a)–(d), above, with which it is unable to comply. The request must be in writing and include a justification for the extension. The Department may grant an extension for reasonable cause.
- (f) The results of the stack test shall be used to demonstrate compliance with the CO, NOx, PMPM-10/PM-2.5, and VOC lbs/hr emission rate, PM emission concentration, and VOC destruction efficiency or outlet concentration restrictions for this source (Source ID 101).

#### # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.443(b).]

- (a) If the biomass burner of this bakery residuals processing line consumes at least 760 tons of wood sawdust in any calendar year, the permittee shall perform a stack test for the line, as follows, no later than 180 days after the date on which the 760-ton threshold is reached:
- (1) In accordance with the provisions of 25 Pa. Code Chapter 139 and the current version of the Department's Source Testing Manual.
- (2) At the outlet of the associated RTO (Source ID C03A) using EPA Methods 7E and 10 to determine the concentrations of NOx and CO, respectively, in the exhaust gas.
- (3) While the biomass burner of the line is consuming wood sawdust and bakery products packaging materials only, and in such a manner that the wood sawdust heat input ratio is within 10% of the maximum average monthly value (based on the operating hours in which the biomass burner actually consumes wood sawdust) for the calendar year in which the 760-ton threshold is reached.
- (4) While the line is operating at maximum normal operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (b) At least 90 days prior to the stack test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples. A test protocol shall be approved by the Source Testing Section of the Department prior to the test.
- (c) At least 30 days prior to the stack test, the permittee shall inform the Regional Air Quality Program Manager of the Department of the date and time of the test.
- (d) Within 60 days after the stack test, the permittee shall submit two copies of the complete test report, including all





operating conditions, to the Regional Air Quality Program Manager of the Department for approval.

- (e) The permittee may request an extension of time for any deadlines indicated in (a)–(d), above, with which it is unable to comply. The request must be in writing and include a justification for the extension. The Department may grant an extension for reasonable cause.
- (f) The results of the stack test shall be used to demonstrate compliance with the CO and NOx lbs/hr emission rate restrictions specified in Condition # 001, Section D (under Source ID 101), of this permit, and to provide additional CO and NOx emission factors to be included in Condition # 011, Section D (under Source ID 101), of this permit.
- <sup>1</sup> Except that, once the stack test is performed, the permittee is not required to perform additional stack testing for the line while consuming wood sawdust, regardless of the amount consumed, for a period of at least 5 calendar years from the date of the stack test, unless specifically requested by the Department.

[Note: The stack test required in (a), above, may be performed concurrently with the stack test required in Condition # 006, Section D (under Source ID 101), of this permit. In this case, the permittee shall operate the line at normal operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.]

#### # 008 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

The permittee shall ensure that each test report submitted for this bakery residuals processing line includes 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 non-compliance with all the applicable permit conditions. The summary results shall include, at a minimum, the following information:

- (a) A statement that the permittee has reviewed the report from the emissions testing body and agrees with the findings.
- (b) The permit number(s) and condition(s) that are the basis for the evaluation.
- (c) A summary of results with respect to each applicable permit condition.
- (d) A statement of compliance or non-compliance with each applicable permit condition.

#### III. MONITORING REQUIREMENTS.

# # 009 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

- (a) The permittee shall monitor the following operating parameters for this bakery residuals processing line on an operating day basis:
  - (1) The hours of operation.
- (2) The type(s) and amount(s) of fuel consumed by the biomass burner of the line.
- (3) The amount of bakery residuals processed (tons).
- (b) The permittee shall monitor the amount of wood sawdust consumed (tons) by the biomass burner of the bakery residuals processing line on a monthly and a calender-year basis.

## # 010 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The permittee shall monitor the following operating parameters for the RTO (Source ID C03A) associated with this bakery residuals processing line:



- (a) The hours of operation on an operating day basis.
- (b) The amount of natural gas consumed on an operating day basis.
- (c) The combustion chamber temperature on a continuous basis.

#### # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use the following emission factors<sup>2</sup> to calculate the emissions from this bakery residuals processing line on a monthly and 12-month rolling basis:

Pollutant	Lbs/ton Bakery Products	Source of Factor
СО	0.014	Stack Test 3
NOx	0.209	Stack Test 3
PM/PM-10/PM2.5	0.059	Stack Test 3
VOCs	0.124	Stack Test 3

Stack Test 3 = Stack testing performed on February 16, 202.

#### IV. RECORDKEEPING REQUIREMENTS.

## # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

- (a) The permittee shall maintain records of the following operating parameters for this bakery residuals processing line on an operating day and monthly basis:
  - (1) The hours of operation.
- (2) The type(s) and amount(s) of fuel consumed by the biomass burner of the line.
- (3) The amount of bakery residuals processed (tons).
- (b) The permittee shall maintain records of the amount of wood sawdust (tons) consumed by the biomass burner of the bakery residuals processing line on a monthly and calendar-year basis.

# # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall maintain records of the following operating parameters for the RTO (Source ID C03A) associated with this bakery residuals processing line:

- (a) The hours of operation on an operating day and monthly basis.
- (b) The amount of natural gas consumed on an operating day and monthly basis.
- (c) The combustion chamber temperature on a continuous basis.

## # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of all inspections and maintenance for equipment associated with this bakery residuals processing line, performed in accordance with Condition # 018(a)–(c), Section D (under Source ID 101), of this

<sup>&</sup>lt;sup>2</sup> Unless an alternative emission factor(s) is approved by the Department, in writing.





permit. These records shall include, at a minimum, the following:

- (a) The date and time of each inspection or maintenance.
- (b) The results of each inspection, including any deficiencies found.
- (c) All maintenance (i.e., routine, preventative maintenance, or otherwise) performed.

## # 015 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

The permittee shall maintain records of the following emissions from this bakery residuals processing line on a monthly and 12-month rolling basis, calculated using a Department-approved method(s):

- (a) The total CO emissions.
- (b) The total NOx emissions.
- (c) The total PM/PM-10/PM-2.5 emissions.
- (d) The total VOC emissions.

#### 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.

## # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall ensure that, prior to and at all times when processing bakery residuals in this bakery residuals processing line, the temperature at the outlet of the combustion chamber of the associated RTO (Source ID C03A) is maintained at equal to or greater than 1425 °F. [Note: The RTO may be operated at a minimum temperature of 1300 °F if a stack test has been performed in which the temperature at the outlet of the combustion chamber of the RTO did not exceed 1365 °F and compliance with the VOC lbs/hr emission rate and destruction efficiency or outlet concentration restrictions specified in Conditions # 001 and 005(b), Section D (under Source ID 101), of this permit, respectively, has been demonstrated.]

#### # 017 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

- (a) The permittee shall ensure that no bakery residuals packaging materials are consumed by the biomass burner of this bakery residuals processing line until the combustion chamber of the associated RTO (Source ID C03A) is achieving and maintaining a temperature of equal to or greater than 1300 °F.
- (b) The permittee shall ensure that the biomass burner is equipped with an interlock system that precludes the consumption of bakery residuals packaging materials as a fuel until the combustion chamber of the associated RTO (Source ID C03A) is achieving and maintaining a temperature of equal to or greater than 1300 °F.

# # 018 [25 Pa. Code §127.441]

# Operating permit terms and conditions.

(a) The permittee shall perform a visual check of the following equipment associated with this bakery residuals processing line for leaks and fugitive emissions, at least once per operating week:





- (1) All outside piping located between the cyclone (Source ID C01) and the RTO (Source ID C03A).
- (2) The pre-RTO filter unit (Source ID C04).
- (b) The permittee shall manually clean the filter of the pre-RTO filter unit at least once per operating week, and replace as needed.
- (c) The permittee shall perform inspections and maintenance for the RTO in accordance with the manufacturer's specifications.

#### VII. ADDITIONAL REQUIREMENTS.

## # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) This source consists of a bakery residuals processing line, which is comprised of the following operations and equipment:
  - (1) The following receiving areas:
    - (i) A wheat midds receiving area, which receives wheat midds from off-site.
    - (ii) A bakery residuals (with packaging materials) receiving area, which receives bakery residuals from off-site.
  - (2) The following storage areas:
    - (i) A wheat midds storage area (silo), which receives wheat midds from (a)(1)(i), above.
    - (ii) A finished meal storage area, which receives finished meal from a finished meal cooling area [(a)(7), below].
  - (3) The following mills:
- (i) A prebreaker mill, which is used to break bakery residuals (with packaging materials) from (a)(1)(ii), above, into smaller pieces.
- (ii) A hammer mill, which is used to break oversized bakery residuals pieces from a screen [(a)(6)(i), below] into smaller pieces, and return them to the same screen.
- (iii) A hammer mill, which is used to break bakery residuals packaging materials from a screen [(a)(6)(ii), below] and wood sawdust from a wood sawdust storage area (Source ID FML02) into smaller pieces before consumption by a biomass burner [(a)(9), below].
- (4) A 10-ft [diameter]  $\times$  50-ft [length] rotary drum dryer, which is used to remove moisture in the bakery residuals received from (a)(3)(i), above. Heat for the dryer is provided by the biomass burner [(a)(9), below].
  - (5) A discharge box, which receives dried bakery residuals (with packaging materials) from (a)(4), above.
  - (6) The following screens:
- (i) A screen, which is used to size the bakery residuals received from (a)(5), above, and separate the packaging materials, as follows:
  - (A) The packaging materials are pneumatically conveyed to a cyclone [(b)(2), below].
  - (B) Oversized bakery residuals pieces proceed to (a)(3)(ii), above.
  - (C) Smaller bakery residuals pieces that fall through the screen are blended with wheat midds from (a)(2)(i), above, to



produce a finished meal.

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- (ii) A screen, which is used to separate bakery residuals from packaging materials after the paper separation cyclone (Source ID C02), as follows:
  - (A) The packaging materials proceed to (a)(3)(iii), above.
  - (B) Bakery residuals proceed to the loop in (a)(3)(ii), above.
  - (7) An enclosed finished meal cooling area, which receives finished meal from (a)(6)(i)(C), above.
  - (8) A finished meal loading area, which receives finished meal from (a)(7), above.
- (9) A natural gas- (primary fuel), bakery residuals packaging material- (primary fuel), wood sawdust- (auxiliary fuel), and propane- (auxiliary fuel) fired biomass burner. The biomass burner is rated at 22.5 mmBtu/hr heat input.
- (b) Emissions from various operations and equipment of the bakery residuals processing line are ducted to/through an air pollution control device(s), as follows:
- (1) Emissions from (a)(1)(ii) and (a)(3)(i), above, are ducted to a dust collector before exhausting into the indoor atmosphere (i.e., air flow returned to (a)(1)(ii) and (a)(3)(i), above). (Bakery residuals (with packaging materials) from the dust collector proceed to (a)(4), above.)
- (2) Emissions from (a)(4), above, are ducted to/through the following air pollution control devices (in series) before exhausting into the outdoor atmosphere:
- (i) A cyclone (Source ID C01). (Bakery residuals (with packaging materials) from the dust collector proceed to (a)(6)(i), above.)
  - (ii) Apre-RTO filter unit (Source ID C04).
- (iii) An RTO (Source ID C03A), model no. CCS&ES 35K scfm, manufactured by Combustion Controls Solutions & Environmental Services, Inc. The RTO is equipped with a natural gas-fired burner rated at 6 mmBtu/hr heat input.
- (3) Emissions from (a)(6)(i), above, are ducted to a cyclone (Source ID C02) before exhausting into the indoor atmosphere. (Bakery residuals (with packaging materials) from the cyclone proceed to (a)(6)(ii), above.)

## # 020 [25 Pa. Code §127.441]

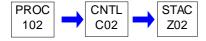
Operating permit terms and conditions.

The Department reserves the right to re-evaluate the requirements and emission restrictions for this bakery residuals processing line at any time based on, but not limited to, the availability of new analytical methods, literature, information, or public comments.



Source ID: 102 Source Name: BAKERY RESIDUALS PACKAGING MATERIALS SEPARATION

Source Capacity/Throughput: N/A



#### I. RESTRICTIONS.

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

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

#### IV. RECORDKEEPING REQUIREMENTS.

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

#### 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).

#### VII. ADDITIONAL REQUIREMENTS.

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



**SECTION E.** Source Group Restrictions.





# **SECTION F.** Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.





# **SECTION G.** Emission Restriction Summary.

Source Id	Source Description		
101	BAKERYRESIDUALS	S PROCESSING LINE	
<b>Emission Limit</b>			Pollutant
2.200	Lbs/Hr		CO
9.600	Tons/Yr	12-Month Rolling Sum, Calculated Monthly	CO
5.000	Lbs/Hr		NOX
0.040	gr/DRY FT3	Filterable Plus Condensable PMPM-10/ PM-2.5; At the Outlet of the Associated RTO	TSP
8.400	Lbs/Hr	Filterable Plus Condensable PMPM-10/ PM-2.5	TSP
37.000	Tons/Yr	Filterable Plus Condensable PWPM-10/ PM-2.5; 12-Month Rolling Sum, Calculated Monthly	TSP
2.500	Lbs/Hr	•	VOC
7.000	PPMV	Dry Basis, As Propane; Only Applies if the VOC Destruction Efficiency is Less Than 98.0%	VOC

# **Site Emission Restriction Summary**

Emission Limit		Pollutant
25.000 Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly	NOX
25.000 Tons/Yr	Less Than; Total HAPs; 12-Month Rolling Sum, Calculated Monthly	Hazardous Air Pollutants
10.000 Tons/Yr	Less Than; Any Individual HAP; 12-Month Rolling Sum, Calculated Monthly	Hazardous Air Pollutants
25.000 Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly	VOC



- (a) The following previously-issued documents serve as the basis for certain terms and conditions set forth in this permit:
  - (1) Plan Approval No. 15-0086A.
  - (2) Plan Approval No. 15-0086B.
- (b) The emission restrictions listed in Section F, of this permit, are for descriptive purposes only and are not considered enforceable conditions by the Department. The emission restrictions listed in Sections B, C, and D, of this permit, are enforceable.
- (c) Pursuant to Condition # 013(d), Section C, of this permit, on April 24, 2009, the Department approved the permittee's request to reduce the frequency of monitoring the facility for objectionable odors, visible air contaminant emissions, and fugitive air contaminant missions to monthly. The Department reserves the right to change this frequency of monitoring pursuant to Condition # 010(e), Section C, of this permit.
- (d) The Department acknowledges receipt of a letter, dated April 13, 2020, from Rick Speaks, Vice President of Bakery Feeds, authorizing Tom Shellooe, General Manager, to serve as an alternative representative/signatory for him.
- (e) This permit (APS ID 912613, Auth ID 1216051) is a renewal of State Only Operating Permit No. 15-00086. The following is a listing of the changes reflected in this permit:
- (1) The responsible official and permit contact person have been changed to Rick Speaks, Vice President of Bakery Feeds, (859) 572-2527.
- (2) The source names for the following source grouping, fuel material location, and emission point grouping in Sections A, D, and F, of the previously-amended permit (same locations in this permit), where applicable, have been changed ([deleted from source name], <added to source name>):

Source ID	Source Name
101	[Rotary Dryer with Biomass Burner] < Bakery Residuals Processing Line>
102	[Paper] <bakery materials="" packaging="" residuals=""> Separation</bakery>
C01	<bakery drum="" line="" processing="" residuals="" rotary=""> Dryer Cyclone</bakery>
C02	[Paper] <bakery materials="" packaging="" residuals=""> Separation Cyclone</bakery>
C03A	<ccs&es regenerative="" thermal=""> Oxidizer (RTO) [(CCS &amp;ES)]</ccs&es>
FML01	Natural Gas [Supply] < Pipeline>
FML02	<wood> Sawdust <storage area=""></storage></wood>
FML03	Bakery < Residuals > Packaging Materials [Fuel]
S01	[EP-01] <ccs&es rto="" stack=""></ccs&es>
Z02	[Paper] < Bakery Residuals Packaging Materials > Separation Fugitive[s] < Emissions >

- (3) The following for the rotary dryer with biomass burner (bakery residuals processing line) in Sections A and D (under Source ID 101), of the previously-amended permit (same locations in this permit):
  - (i) A source capacity (i.e., rated heat input) listing for the biomass burner has been added.
- (ii) The name of the fuel in one of the throughput listings for the biomass burner has been corrected from "wood" to "wood sawdust."
  - (iii) The associated permit map has been updated to include a pre-RTO filter unit (Source ID C04).
  - (4) A pre-RTO filter unit has been added to Sections A and D, of this permit, as Source ID C04.
- (5) Requirements that emissions reports contain sufficient information to enable the Department to complete its emission inventory, and be made in a format specified by the Department, have been added as Condition # 024, Section B, of this permit.
- (6) An exception from the visible emission restrictions specified in 25 Pa. Code § 123.41 for the operation of equipment used solely to train and test persons in observing the opacity of visible emissions has been added to Condition # 006, Section C, of the previously-amended permit (same condition number in this permit), as Sub-condition (b).





- (7) The total VOC and NOx, and total and individual HAP, emission rate restrictions for the facility, as indicated in Condition # 007(a)–(b), Section C, of the previously-amended permit, respectively, have been split into/reorganized as Conditions # 008, 007, and 009(b) and (a), Section C, of this permit, respectively.
- (8) The language of Condition # 009(a), 022, and 024, Section C, of the previously-amended permit (Condition # 011(a), 025, and 024, Section C, of this permit, respectively), has been changed such that it also applies to a source(s) listed in Section G, of this permit.
- (9) The note at the end of Condition # 011, Section C, of the previously-amended permit (Condition # 013, Section C, of this permit), stating that the Department approved the permittee's request to reduce the frequency of monitoring the facility for objectionable odors, visible air contaminant emissions, and fugitive air contaminant missions to monthly has been moved to Sub-section (c), Section G, of this permit.
- (10) The following for Conditions # 012 and 016, Section C, of the previously-amended permit (Conditions # 014 and 019, Section C, of this permit, respectively):
- (i) The requirements to calculate and maintain records of the total VOC, NOx, and HAP emissions from the facility have been split into/reorganized as Sub-conditions (b), (a), and (d), respectively.
- (ii) Requirements to calculate and maintain records of the total emissions of each individual HAP from the facility have been added as Sub-condition (c).
  - (11) The following for Condition # 013, Section C, of the previously-amended permit (Condition # 016, Section C, of this permit):
    - (i) Sub-condition (a) has been removed.
    - (ii) Sub-conditions (b)–(c) have been reorganized as Sub-condition (a)(4)–(5).
    - (iii) Items to be maintained for the record of deviations have been added as Sub-condition (a)(1)–(3).
- (iv) A requirement to maintain records of the monitoring in a Department-approved format and time frame has been added as Sub-condition (b).
  - (12) Condition # 014, Section C, of the previously-amended permit, has been removed.
- (13) Requirements to maintain all records, reports, and analysis results generated in compliance with the requirements of any section of this permit in accordance with Condition # 020(b), Section B, of this permit, and to make them available to the Department upon written or verbal request within a reasonable time, have been added as Condition # 015, Section C, of this permit.
- (14) Condition # 018, Section C, of the previously-amended permit (Condition # 020, Section C, of this permit), has been updated to include additional requirements pertaining to malfunctions, as well as new requirements pertaining to emergencies and incidents of excess emissions.
  - (15) Condition # 020, Section C, of the previously-amended permit, has been moved to Condition # 023, Section B, of this permit.
- (16) The citation for Condition # 021, Section C, of the previously-amended permit (Condition # 022, Section C, of this permit), has been changed from 25 Pa. Code § 123.1 to 25 Pa. Code § 127.441 (with an additional authority citation to 25 Pa. Code § 123.1(c)).
- (17) An additional authority citation to 25 Pa. Code § 127.444 has been added to the beginning of Condition # 023, Section C, of the previously-amended permit (same condition number in this permit).
- (18) An additional authority citation to 25 Pa. Code § 127.443(b) has been added to the beginning of each condition in this permit that is based on a condition found in (a)(1)–(2), above.
- (19) The NOx, PWPM-10/PM-2.5, CO, and VOC emission rate restrictions for the rotary dryer with biomass burner (bakery residuals processing line), as indicated in Conditions # 001–004, Section D (under Source ID 101), of the previously-amended permit, respectively, have been reorganized as Condition # 001, Section D (under Source ID 101), of this permit.





- (20) Language clarifying that the PMPM-10/PM-2.5 emission concentration restriction for the rotary dryer with biomass burner (bakery residuals processing line) applies to filterable plus condensable PMPM-10/PM-2.5 in the exhaust gas, as measured at the outlet of the associated RTO (Source ID C03A) using EPA Methods 5 and 202, respectively, has been added to Condition # 002, Section D (under Source ID 101), of the previously-amended permit (same condition number in this permit).
- (21) The VOC destruction efficiency restriction for the RTO associated with the rotary dryer with biomass burner (bakery residuals processing line) indicated in Condition # 004, Section D (under Source ID 101), of the previously-amended permit, has been removed.
- (22) The following for Condition # 006, Section D (under Source ID 101), of the previously-amended permit (Condition # 004, Section D (under Source ID 101), of this permit):
  - (i) The second and third sentences have been reorganized as Sub-conditions (b) and (a), respectively.
  - (ii) The reference to "pressed board" in the (reorganized) Sub-condition (b) has been removed.
- (23) Conditions # 007, 009, 012, and 018, Section D (under Source ID 101), of the previously-amended permit, have been removed.
- (24) The following for Condition # 008, Section D (under Source ID 101), of the previously-amended permit (Condition # 005, Section D (under Source ID 101), of this permit):
  - (i) It has been reorganized as part of Sub-condition (b).
- (ii) A requirement that all emissions from the rotary dryer of the bakery residuals processing line are ducted to the associated cyclone, pre-RTO filter unit, and RTO before exhausting into the outdoor atmosphere has been added as Sub-condition (a).
  - (iii) An outlet VOC emission concentration restriction for the RTO has been added as part of Sub-condition (b).
- (25) The following for Condition # 010, Section D (under Source ID 101), of the previously-amended permit (Condition # 006, Section D (under Source ID 101), of this permit):
  - (i) The following for Sub-condition (a):
    - (A) The definition of the term "calendar year" has been removed.
- (B) The date by which to perform the stack test for the rotary dryer with biomass burner (bakery residuals processing line) has been added.
  - (C) The first sentence in the second paragraph has been reorganized as Sub-condition (a)(5).
- (D) The second and third sentences in the second paragraph have been reorganized as a note at the end of Sub-condition (b).
- (ii) A requirement that a test protocol be approved by the Source Testing Section of the Department prior to performing the stack test has been added to Sub-condition (b).
  - (iii) The following for Sub-condition (c):
- (A) The requirement to perform the stack test (at the outlet of the associated RTO) for filterable PM, NOx, CO, VOCs, and condensable PM, using EPA Methods 5, 7E, 10, 25A, and 202, respectively, has been reorganized as Sub-condition (a)(2).
- (B) The requirement to perform the stack test at the inlet to the associated RTO for VOCs (to compare with the outlet VOC concentration to calculate the VOC destruction efficiency of the RTO), using EPA Method 25A, has been reorganized as Sub-condition (a)(3).
- (C) The requirement to perform the stack test in accordance with the provisions of 25 Pa. Code Chapter 139 has been reorganized as part of Sub-condition (a)(1).





- (iv) Sub-conditions (d)–(f) have been reorganized as Sub-conditions (c)–(e), respectively.
- (v) A requirement to perform the stack test in accordance with the current version of the Department's Source Testing Manual has been added as part of Sub-condition (a)(1).
- (vi) A requirement to perform the stack test while the biomass burner is consuming natural gas and bakery residuals packaging materials only, and in such a manner that natural gas provides 55–75% of the heat input to the burner, has been added as Sub-condition (a)(4).
- (vii) Statements that the results of the stack test shall be used to demonstrate compliance with the CO, NOx, PMPM-10/PM-2.5, and VOC lbs/hr emission rate, PM emission concentration, and VOC destruction efficiency or outlet concentration restrictions for the bakery residuals processing line and associated RTO, and to update the CO, NOx, PMPM-10/PM-2.5, and VOC emission factors for the bakery residuals processing line, have been added as Sub-condition (f).
- (26) The following for Condition # 011, Section D (under Source ID 101), of the previously-amended permit (Condition # 007, Section D (under Source ID 101), of this permit):
  - (i) The following for Sub-condition (a):
    - (A) The references to NOx and CO have been removed.
- (B) The requirement to perform the stack test while the biomass burner of the bakery residuals processing line is consuming wood sawdust and bakery residuals packaging materials only has been reorganized as part of Sub-condition (a)(3).
- (C) The phrase "at their maximum normal hourly rate" at the end of the first sentence in the second paragraph, has been removed.
  - (D) The second sentence in the second paragraph has been reorganized as Sub-condition (a)(4).
- (ii) A requirement that a test protocol be approved by the Source Testing Section of the Department prior to performing the stack test has been added to Sub-condition (b).
  - (iii) The following for Sub-condition (c):
- (A) The requirement to perform the stack test (at the outlet of the associated RTO) for NOx and CO, using EPA Methods 7E and 10, respectively, has been reorganized as Sub-condition (a)(2).
- (B) The requirements to perform the stack test in accordance with the provisions of 25 Pa. Code Chapter 139 has been reorganized as part of Sub-condition (a)(1).
  - (iv) Sub-conditions (d)–(f) have been reorganized as Sub-conditions (c)–(e), respectively.
  - (v) The following for Sub-condition (g):
    - (A) It has been reorganized as a footnote to Sub-condition (a).
- (B) The period(s) for performing a stack test while the biomass burner is consuming wood sawdust has been changed from a "one-time basis while natural gas remains the dominant fuel used by the biomass burner" to "at least 5 calendar years from the date of the stack test," regardless of the amount of wood sawdust consumed.
  - (vi) Sub-condition (h) has been reorganized as a note at the end of the condition.
- (vii) A requirement to perform the stack test in accordance with the current version of the Department's Source Testing Manual has been added as part of Sub-condition (a)(1).
- (viii) A requirement to perform the stack test while the biomass burner is consuming wood sawdust and bakery residuals packaging materials only, and in such a manner that the wood sawdust heat input ratio is within 10% of the maximum average monthly value (based on the operating hours in which the biomass burner actually consumes wood sawdust) for the calendar year in which the 760-ton threshold is reached, has been added as part of Sub-condition (a)(3).



- (ix) Statements that the results of the stack test shall be used to demonstrate compliance with the CO and NOx lbs/hr emission rate restrictions for the bakery residuals processing line and associated RTO, and to provide additional CO and NOx emission factors for the line, have been added as Sub-condition (f).
- (27) The following for Condition # 012, Section D (under Source ID 101), of the previously-amended permit (Condition # 008, Section D (under Source ID 101), of this permit):
  - (i) The citation has been changed from 25 Pa. Code § 139.53 to 25 Pa. Code § 127.441.
  - (ii) The reference to 25 Pa. Code § 139.53(b) has been removed from the beginning of the condition.
  - (28) The following for Condition # 013, Section D (under Source ID 101), of the previously-amended permit:
  - (i) The following for Sub-condition (a):
- (A) The requirement to monitor the hours of operation for the RTO associated with the rotary dryer with biomass burner (bakery residuals processing line) has been reorganized as Condition # 010(a), Section D (under Source ID 101), of this permit.
- (B) The requirement to monitor the hours of operation for the line has been reorganized as Condition # 009(a), Section D (under Source ID 101), of this permit.
  - (ii) The following for Sub-condition (b):
- (A) The requirements to monitor the amounts of wood (sawdust), natural gas, propane, and bakery (residuals) packaging materials consumed by the biomass burner, as indicated in Sub-conditions (b)(i), (iii), and (iv), respectively, have been merged into a requirement to monitor the type(s) and amount(s) of fuel consumed (reorganized as Condition # 009(a)(2), Section D (under Source ID 101), of this permit).
  - (B) Sub-condition (b)(ii) has been reorganized as Condition # 009(a)(3), Section D (under Source ID 101), of this permit.
  - (iii) Sub-condition (c) has been reorganized as Condition # 009(b), Section D (under Source ID 101), of this permit.
  - (29) The following for Conditions # 014-015, Section D (under Source ID 101), of the previously-amended permit:
- (i) The requirements to monitor and maintain records of the combustion (zone) chamber temperature of the RTO associated with the rotary dryer with biomass burner (bakery residuals processing line) on a continuous basis have been reorganized as Conditions # 010(c) and 013(c), Section D (under Source ID 101), of this permit, respectively.
  - (ii) The reference to the biomass burner has been removed.
- (30) Requirements to monitor and maintain records of the amount of natural gas consumed by the RTO associated with the rotary dryer with biomass burner (bakery residuals processing line) on an operating day basis have been added as Conditions # 010(b) and 013(b), Section D (under Source ID 101), of this permit, respectively.
  - (31) The following for Condition # 016, Section D (under Source ID 101), of the previously-amended permit:
    - (i) The following for Sub-condition (1):
      - (A) The following for Sub-condition (1)(a):
- (I) The requirement to maintain records of the hours of operation for the RTO associated with the rotary dryer with biomass burner (bakery residuals processing line) has been reorganized as Condition # 013(a), Section D (under Source ID 101), of this permit.
- (II) The requirement to maintain records of the hours of operation for the rotary dryer with biomass burner (bakery residuals processing line) has been reorganized as Condition # 012(a)(1), Section D (under Source ID 101), of this permit.
- (B) The requirements to maintain records of the amounts of wood (sawdust), natural gas, propane, and bakery (residuals) packaging materials consumed, as indicated in Sub-conditions (1)(b), (d), and (e), respectively, have been merged into a



requirement to maintain records of the type(s) and amount(s) of fuel consumed by the biomass burner (reorganized as Condition # 012(a)(2), Section D (under Source ID 101), of this permit).

- (C) Sub-condition (1)(c) has been reorganized as Condition # 012(a)(3), Section D (under Source ID 101), of this permit.
- (ii) Sub-condition (b) has been reorganized as Condition # 012(b), Section D (under Source ID 101), of this permit.
- (32) The following for Condition # 017, Section D (under Source ID 101), of the previously-amended permit (Condition # 011, Section D (under Source ID 101), of this permit):
  - (i) It has been moved from Sub-section IV to Sub-section III.
  - (ii) Sub-conditions (a)–(b) have been merged.
- (iii) Emission factors, based on the most recent stack test, to be used to calculate the CO, NOx, PWPM-10/PM-2.5, and VOC emissions from the rotary dryer with biomass burner (bakery residuals processing line) have been added.
- (33) Requirements to maintain records of and perform inspections and maintenance for equipment associated with the rotary dryer with biomass burner (bakery residuals processing line) have been added as Conditions # 014 and 018(a)–(c), Section D (under Source ID 101), of this permit, respectively.
- (34) A requirement to maintain records of the CO, NOx, PM/PM-10/PM-2.5, and VOC emissions from the rotary dryer with biomass burner (bakery residuals processing line) has been added as Condition # 015(a)–(d), Section D (under Source ID 101), of this permit, respectively.
- (35) Conditions # 019–020, Section D (under Source ID 101), of the previously-amended permit, have been merged into/reorganized as Condition # 017(a)–(b), Section D (under Source ID 101), of this permit, respectively.
- (36) The source description under the rotary dryer with biomass burner (bakery residuals processing line), as indicated in Condition # 023, Section D (under Source ID 101), of the previously-amended permit (Condition # 019, Section D (under Source ID 101), of this permit), has been updated.
- (37) An outlet VOC emission concentration restriction for the RTO associated with the rotary dryer with biomass burner (bakery residuals processing line) has been added to Section F (under Source ID 101), of this permit.
- (f) APS No. 912613; AUTH No. 1504919. This operating permit is being renewed. The permit contact will be changed from Rick Speaks, VP of Bakery Feeds to William Butler, General Manager. However, Rick Speaks will remain as an alternate permit contact with the following information: Rick Speaks, Regional VP of Bakery Feeds, T: (859) 572-2527, M: (479) 790-1314, rspeaks@darlingii.com.





\*\*\*\*\* End of Report \*\*\*\*\*