



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: May 4, 2026

Effective Date: May 4, 2026

Expiration Date: November 4, 2027

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 construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval 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 plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 15-0027N

Federal Tax Id - Plant Code: 23-0411710-3

Owner Information

Name: JOHNSON MATTHEY INC
Mailing Address: 456 DEVON PARK DR
WAYNE, PA 19087-1816

Plant Information

Plant: JOHNSON MATTHEY/WAYNE PLT
Location: 15 Chester County 15952 Tredyffrin Township
SIC Code: 3714 Manufacturing - Motor Vehicle Parts And Accessories

Responsible Official

Name: ZACHERY TAORMINA
Title: PLANT MANAGER
Phone: (484) 531 - 3567 Email: zachery.taormina@jmusa.com

Plan Approval Contact Person

Name: ERIC KOLVEK
Title: EHS ENV SPECIALIST
Phone: (610) 808 - 0632 Email: eric.kolvek@matthey.com

[Signature] _____
JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



Plan Approval Description

Installation of a new Münstermann belt-style dynamic calcinator oven for Line 14 Drying & Calcining, Source ID 203A and removal of Line 14 NOx Scrubber, C017. Facility will remove 10 static ovens as part of this Plan Approval.



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Note: These same sub-sections are repeated for each source!

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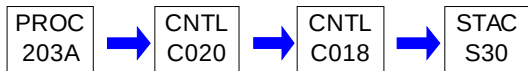
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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
203A	LINE 14 DRYING & CALCINING	N/A	
C018	LINE 14 AMMONIA SCRUBBER		
C020	LINE 14 SCR SYSTEM		
S30	LINE 14 POLLUTION CONTROL SYSTEM STACK		

PERMIT MAPS

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

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

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) 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.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

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

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

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

- (a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.
- (b) 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.
- (c) The permittee fails to submit a report required by this plan approval.
- (d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

- (a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.
- (b) 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 this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]**Risk Management**

- (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 listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:
 - (1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 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 the Environmental Protection Agency 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 plan approval 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.

#013 [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. §§ 4001-4015).

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.



SECTION C. Site Level Plan Approval Requirements

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

001 [25 Pa. Code §127.12]

Content of applications.

The permittee shall comply with all of the existing requirements of SOOP No. 15-00027 and as subsequently amended (if any), unless specifically revised in this Plan Approval. The provisions in this Plan Approval shall be construed to supersede any contrary provisions in any previous Plan Approvals or Operating Permits.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

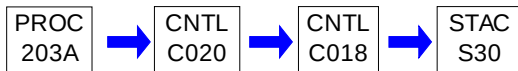
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 203A

Source Name: LINE 14 DRYING & CALCINING

Source Capacity/Throughput:

N/A



This source occurs in alternate operation LINE14 EXHAUST VENTING TO L15 SYSTEM

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The total aggregate post-control pollutant emissions from Source ID 203A shall not exceed the following limits:

Nitrogen Oxides (NO_x): 13.4 lb/hr, as a 1-hour rolling average

Nitrogen Oxides (NO_x): 11.0 tons/yr, as a 12-month rolling sum

Volatile Organic Compounds (VOC): 1.1 lb/hr as methane

Volatile Organic Compounds (VOC): 2.5 tons/yr, as a 12-month rolling sum as methane

Ammonia (NH₃): 10.0 ppmv on a dry basis

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The process exhausts from Source ID 203A shall be vented to the following emission control devices for NO_x, VOC, acid gases, and ammonia removal:

- (1) Line 14 SCR System (Source ID C020), and,
- (2) Line 14 Ammonia Scrubber (Source ID C018).

(b) The pollution control system for Source ID 203A (Source IDs C018 and C020) shall achieve the following standards:

- (1) overall NO_x removal efficiency: equal to or greater than 90% (or, equal to or less than 13.4 lb/hr as NO₂).
- (2) overall VOC removal efficiency: equal to or greater than 90% (or, 20 ppmvd or less as methane).

Operation of Line 14 Drying and Calcining is not approved unless all required air pollution control devices are fully operational, except as specified in Condition #011(a), under this source.

II. TESTING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall perform a source test for Source ID 203A using Department-approved procedures within 180 days of the installation of the belt-style dynamic calcinator oven. In accordance with 25 Pa. Code § 139.11(1), tests shall be conducted while the source(s) is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(b) The source test shall, at a minimum, test for the following:

**SECTION D. Source Level Plan Approval Requirements**

- (1) overall NO_x removal efficiency, and/or NO_x emission rate at the stack discharging point,
- (2) overall VOC removal efficiency, and/or VOC emission rate at the stack discharging point, and
- (3) ammonia concentration at the stack discharging point.

Tests shall be conducted in accordance with the provisions of EPA stack testing method(s) or the Department approved methodology and 25 Pa. Code Chapter 139. Tests shall also be conducted in accordance with the provisions of the current version of the DEP Source Testing Manual and the EPA Clean Air Act National Stack Testing Guidance.

(c) At least ninety (90) days prior to the 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.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), an electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

III. MONITORING REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

For Source ID 203A, the permittee shall track the pre-control hourly NO_x and VOC emissions from the operation of this source (using a Department-approved method), and shall monitor the following:

- (a) Coating and product ID for each coating and product.
- (b) Nitrate content of each coating or slurry used.
- (c) Amount of coating or slurry used per hour or per part, as applicable.
- (d) Amount of parts coated per hour or operating hours per day.

005 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Source ID C020 (Line 14 SCR System), the permittee shall monitor the following on a daily basis, when it is in service:

- (a) the inlet operating temperatures for the SCR oxidation and catalyst beds, and
- (b) the flow rate.

006 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Source ID C018 (Line 14 Ammonia Scrubber), the permittee shall monitor the following once per day, when they are in service:

- (a) the pH values of the scrubbing solutions,
- (b) the pressure drop readings across the scrubber, and
- (c) the scrubbing solution flowrates.

IV. RECORDKEEPING REQUIREMENTS.**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) For Source ID 203A,

- (1) the permittee shall maintain records of the pre-control hourly NO_x and VOC emissions (in lb/hr) for each batch used on

**SECTION D. Source Level Plan Approval Requirements**

Line 14 Drying and Calcining (Source ID: 203A). The required records shall include the following:

- (i) Coating and product ID for each coating and product.
- (ii) Nitrate content of each coating or slurry used.
- (iii) Amount of coating or slurry used per hour or per part, as applicable.
- (iv) Amount of parts coated per hour or operating hours per day.

(2) the permittee shall maintain records of the post-control NO_x and VOC emissions [in lb/hr and ton/yr], to demonstrate compliance with Condition #001 under this source.

(b) For Source ID 203A and its associated control devices, the permittee shall record of all inspections, repair and maintenance performed on the monitoring equipment and the control devices.

008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

For Source ID C020 (Line 14 SCR System), the permittee shall maintain records of the following on a daily basis, when it is in service:

- (a) the inlet operating temperatures for the SCR oxidation and catalyst beds, and
- (b) the flow rate.

009 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

For Source ID C018 (Line 14 Ammonia Scrubber), the permittee shall maintain records of the following once per day, when they are in service:

- (a) the pH values of the scrubbing solutions,
- (b) the pressure drop readings across the scrubber, and
- (c) the scrubbing solution flowrates.

V. REPORTING REQUIREMENTS.

010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee, within two (2) hour of identification, shall notify the Department by telephone, at 484-250-5920, of any failure of the air pollution control system, including the events listed below, while processing nitrate containing solutions when NO_x emissions are greater than 13.4 lb/hr and/or VOC emissions are greater than 1.1 lb/hr:

- (1) The functional loss of the SCR system due to power failures, fire or other events within or beyond the control of the company.
- (2) The loss of the aqueous ammonia injection system.
- (3) The loss of any fan servicing the SCR control system.
- (4) Failure of the ductwork valves which would prohibit the oven gases from reaching the SCR system.
- (5) The loss of the control device monitoring system.
- (6) Any fire in the drying ovens, ductwork, or emission control system.

(b) The permittee shall maintain records of emissions calculations during such reportable events and for any exceedances of the 13.4 lb/hr NO_x emission limit for the Drying and Calcining line. The permittee shall submit a written report to the Department within two (2) working days following the reportable incident describing the malfunction, the corrective actions taken, the time, date and duration of the incident.

(c) For reportable power failures pursuant to paragraph (a)(1), the permittee shall monitor for any odor during or after the power failure and shall report any objectionable odor beyond the property line as pursuant 25 Pa. Code § 123.31.

**SECTION D. Source Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

For Source ID 203A,

(a) emissions from an individual drying oven are not required to be treated in the Line 14 SCR System (Source ID C020), when Source ID 203A operates under the following conditions:

- (1) during process upset conditions or malfunctions, to allow for the safe and systematic shutdown of equipment,
- (2) power failures, or
- (3) pre-control NO_x emissions do not exceed 13.4 lb/hr and pre-control VOC emissions do not exceed 1.1 lb/hr.

(b) the permittee shall record the following for each event when the emissions are directly vented into atmosphere (without treatment):

- (1) time, date, and duration,
- (2) reasons, and
- (3) NO_x and VOC emission rate (lb/hr).

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall ensure that at least 90% of the NO_x monitoring data are accurately collected on a monthly basis.

(b) The permittee shall maintain all monitoring equipment (such as NO_x monitor, flowmeter, pressure gauge, pH meter, etc.) and stock parts necessary for routine repairs onsite.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Source ID 203A, the permittee shall ensure that the Line 14 dryers and ovens exhaust stacks are fitted with dampers with fail-open position. In the event of a control system malfunction and/or process upset, the dampers are programmed to be in open position allowing the hot process exhausts being discharged to the atmosphere directly, while the coating lines and ovens undergo a systematic shutdown.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Source ID C020 (Line 14 SCR System), the permittee shall ensure that,

(a) it is equipped with,

- (1) K-type thermocouples (or equivalent equipment) to monitor the inlet gas temperatures to assure proper operation,
- (2) a control system to monitor the proper amount of aqueous ammonia reagent needed to reduce NO_x emissions,
- (3) a Heat Exchanger and a Reheater equipped with a Maxon Series LV Airflo Burner, with a rated capacity of 7.5 MMBTU/hr,
- (4) a VOC oxidation bed containing a catalyst measuring 8' x 8' in cross-section and 4" in depth, and
- (5) a NO_x catalyst bed.

(b) it is equipped with emergency bypass dampers to allow the equipment to undergo a systematic shutdown in the event of a power failure.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) For Source ID C018 (Line 14 Ammonia Scrubber), the permittee shall ensure that:

- (1) the pH value of the scrubbing solution is maintained in the range of 1.0 to 5.0,
- (2) the pressure drop across the scrubber does not exceed 7 inches (w.g.). A single daily reading below 7 inches (w.g.) during production demonstrates compliance, and
- (3) the scrubbing solution flowrate is maintained in the range of 200 to 470 gallons per minute.

**SECTION D. Source Level Plan Approval Requirements**

(b) For Source C018, the permittee shall conduct:

- (1) a daily visual inspection,
- (2) an annual inspection of the scrubber nozzles and scrubber packing material(s), and
- (3) back-flushing the scrubber demisters when the pressure drop readings exceed the limits, as specified in (a)(2) and (b)(2), under this condition.

The permittee shall maintain records for the inspections as specified in Condition #015 (b)(1) and (2), under this source.

(c) For Source ID C020 (Line 14 SCR System), the permittee shall ensure that the inlet temperatures for the SCR oxidation and catalyst beds are in the range of 575 °F to 752 °F. A single daily reading in the range of 575 °F to 752 °F during production demonstrates compliance.

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) Line 14 Drying & Calcining (Source ID: 203A) consists of the following equipment:

- (1) Two (2) indexing linear dryers (two Drying Oven)
- (2) Twelve (12) Calcining Ovens [Ten (10) of these ovens will be removed as part of this Plan Approval].
 - (i) The permittee shall ensure ten (10) of the twelve (12) ovens are decommissioned no later than one year after completion of the installation of dynamic oven.
 - (ii) In the event that any of the above deadline cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.
- (3) One (1) Münstermann belt-style dynamic calcinator oven. Zones 1-6 of the Münstermann oven are controlled by C018 and C020. Zones 7-11 of the Münstermann oven vent uncontrolled to the Line 14 Dynamic Oven Stack.

(b) Under normal operating conditions, the pollution control system flow diagram is as follows:

- (1) the Calcining Oven exhaust is first treated in the SCR System (C020), and then to Ammonia Scrubber (C018).

(c) The permittee may operate this source using the alternative operating schedule, as specified in Section F, of this permit.



SECTION E. Source Group Plan Approval Restrictions.

**SECTION F. Alternative Operation Requirements.**

Alternative Operation Name: LINE14 EXHAUST VENTING TO L15 SYSTEM

#001 CHANGES FROM NORMAL OPERATION

Line 14 exhaust may be treated in the following steps:

- (1) in Line 15 SCR System (Source ID C021)
- (2) in Line 15 Ammonia Scrubber (Source ID C019)

Sources included in this Alternative Operation:

ID	Name	Source Type
203A	LINE 14 DRYING & CALCINING	Process

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) When using this Alternative Operating Schedule, the permittee shall ensure that the total combined post-control pollutant emissions from Source IDs 203A and 204 shall not exceed the following limits:

Nitrogen Oxides (NO_x): 13.4 lb/hr (calculated as a one-hour rolling average)

Volatile Organic Compounds (VOC): 1.1 lb/hr, as methane

Ammonia (NH₃): 10.0 ppmvd

(b) Total combined NO_x and VOC emissions from this operating scenario are counted towards Source ID 204 emissions.

Operation Hours Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

This alternative operating schedule shall be limited to 800 hours per year, as a 12-month rolling sum.

003 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee may use this alternative operating schedule when:

(a) operating conditions:

(1) the exhaust treatment system for Source ID 203A is under repair and/or maintenance, or

(2) Source ID 203A Drying Ovens are in the process of shutting down.

(b) exhaust flow from Source ID 203A:

(1) the pre-treated Calcining Oven exhaust and Drying Oven exhaust shall then enter Source ID C021 (L15 SCR System)

(2) total combined exhaust flow to Source ID C021 (Line 15 SCR System) shall not exceed a daily average of 35,000 scfm (@ 70 °F),

(3) the inlet operating temperature for Source ID C021 and catalyst beds shall be greater than 575 °F and less than 752°F. A single daily reading in the range of 575 °F to 752 °F during production demonstrates compliance.

(c) the continuous NO_x concentration and flowrate monitoring and recording systems are operating properly.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION F. Alternative Operation Requirements.****III. MONITORING REQUIREMENTS.****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

When in operation, the permittee shall

- (a) continuously monitor NO_x emission concentration and exhaust flowrate, and
- (b) monitor hours of operation and operating status (such as, for shutdown period or maintenance).

IV. RECORDKEEPING REQUIREMENTS.**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) When in operation, the permittee shall continuously record NO_x emission concentration and exhaust flowrate.
- (b) The permittee shall calculate and keep records of total combined NO_x and VOC emissions hourly and annually.
- (c) The permittee shall keep records of date, duration of each event, and operating status (such as, shutdown and/or maintenance), when this alternative operation schedule is used.

[Hourly emissions are calculated as a 60-minute rolling sum; annually emissions are calculated as a 12-month rolling sum.]

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) The monitoring devices for NO_x and flowrate shall be located between the downstream of L15 Ammonia Scrubber (Source ID C019) and the stack discharge point.
- (b) The permittee shall operate and maintain the emission NO_x and flowrate monitoring system according to the manufacturer's specifications.
- (c) The permittee shall comply with applicable permit conditions for Source IDs 203A, 204, C021 and C019, as specified in this permit.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
203A	LINE 14 DRYING & CALCINING		
Emission Limit			Pollutant
10.000	PPMV	on a dry basis	Ammonia (Anhydrous)
11.000	Tons/Yr	as a 12 month rolling sum	NOX
13.400	Lbs/Hr	as a 60 minute rolling sum	NOX
1.100	Lbs/Hr		VOC
2.500	Tons/Yr	as a 12 month rolling sum	VOC

Site Emission Restriction Summary

Emission Limit	Pollutant
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Alternative Operation Emission Restriction Summary

Source Id	Source Description
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SECTION H. Miscellaneous.



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