



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: July 6, 2022 Effective Date: August 28, 2026
Revision Date: August 11, 2026 Expiration Date: February 28, 2027
Revision Type: Extension

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. 26-00573C

Federal Tax Id - Plant Code: 23-0411710-4

Owner Information

Name: JOHNSON MATTHEY INC
Mailing Address: 605 MOUNTAIN VIEW DR
SMITHFIELD, PA 15478-1648

Plant Information

Plant: JOHNSON MATTHEY INC/SMITHFIELD
Location: 26 Fayette County 26917 Georges Township
SIC Code: 3714 Manufacturing - Motor Vehicle Parts And Accessories

Responsible Official

Name: PEDRO ZAMBRANO
Title: PLT MGR
Phone: (724) 564 - 7246 Email: pedro.zambrano@jmus.com

Plan Approval Contact Person

Name: BRENNAN KADUNCE
Title: EHS SPECIALIST
Phone: (724) 984 - 4387 Email: brenna.sadlek@matthey.com

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



Plan Approval Description

This Plan Approval is to allow the installation and operation of the following air cleaning devices by Johnson Matthey, Inc. at its Smithfield facility located in the Georges Township, Fayette County:

- One (1) Johnson Matthey Selective Catalytic Reduction System (Source #C103A) rated at 2,492 SCFM;
- One (1) Johnson Matthey Oxidation Catalyst (Source #C103B) rated at 2,492 SCFM; and
- One (1) Fives North American Combustion Inc. natural gas-fired duct burner (Source #203) rated at 1.7 MMBTU/hr.



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

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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
203	DUCT BURNER	1.700 MMBTU/HR	
103	OVEN ZONES 3 THRU 10	11.680 MMBTU/HR	
103A	OVEN ZONE 1 & 2-UNCONTROLLED		
103B	OVEN-COMBUSTION EMISSIONS		
C103A	SCR		
C103B	OXIDATION CATALYST		
S103	OVEN 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.****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 act.

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

Fugitive emissions are prohibited from the Facility in accordance with 25 Pa. Code §123.1.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

The Owner/Operator may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code §123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions) if the emissions are visible at the point the emissions pass outside the Owner/Operator's property.

004 [25 Pa. Code §123.31]**Limitations**

The Owner/Operator 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 of the property of the Facility.

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

Upon completion of commissioning the new Johnson Matthey Selective Catalytic Reduction System and Johnson Matthey Oxidation Catalyst authorized by this plan approval, facility-wide emissions shall not exceed the following levels based on any consecutive 12-month rolling period. This requirement shall take effect 12 months after commencement of operation of the new Johnson Matthey Selective Catalytic Reduction System and Johnson Matthey Oxidation Catalyst.

34.0 tons of nitrogen oxides;
11.5 tons of carbon monoxide;
2.5 tons of particulate matter;
1.5 tons of particulate matter (10 microns);
1.5 tons of particulate matter (2.5 microns);
1.0 tons of sulfur oxides;
24.0 tons of volatile organic compounds;
0.5 tons of methanol;
1.0 tons of hazardous air pollutants; and
1.0 tons of ammonia.

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

The permittee shall not allow the emission into the outdoor atmosphere of visible air contaminants from any source at the facility in such a manner that opacity is equal to or greater than 10% at any time.

Fuel Restriction(s).**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Natural gas combusted as fuel shall meet the U.S. EPA definition of "pipeline natural gas" with a total sulfur content not to exceed 20 grains per 100 dscf.

II. TESTING REQUIREMENTS.**# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Performance testing shall be conducted as follows:

(a) The permittee shall submit a pre-test protocol electronically to the Department for review at least 90 days prior to the performance of any EPA reference method stack test or portable analyzer test. The permittee may repeat portable analyzer testing without additional protocol approvals provided that the same method and equipment are used. All proposed

**SECTION C. Site Level Plan Approval Requirements**

performance test methods shall be identified in the pre-test protocol and approved by the Department prior to testing.

(b) The permittee shall notify the Regional Air Quality Manager at least 15 days prior to any performance test so that an observer may be present at the time of the test. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program.

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

(1) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.

(2) Permit number(s) and condition(s) which are the basis for the evaluation.

(3) Summary of results with respect to each applicable permit condition.

(3) Statement of compliance or non-compliance with each applicable permit condition.

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

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

(g) All submittals shall be sent electronically to ra-epstacktesting@pa.gov, with CC: to ra-epsystacktesting@pa.gov.

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

[Additional authority for this condition is derived from 25 Pa. Code §139.11]

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Inspection of the authorized sources shall be conducted at a minimum of once per operating day. The inspection shall be conducted for the presence of the following:

(a) Visible stack emissions;

(b) Fugitive emissions; and

(c) Potentially objectionable odors at the property line.

These observations are to ensure continued compliance with source-specific visible emission limitations, fugitive emissions prohibited under 25 Pa. Code §123.1 or §123.2, and malodors prohibited under 25 Pa. Code §123.31.

Observations for visible stack emissions shall be conducted during daylight hours, and all observations shall be conducted while sources are in operation.

**SECTION C. Site Level Plan Approval Requirements**

If visible stack emissions, fugitive emissions, or potentially objectionable odors are apparent, the permittee shall take corrective action. If any visible emissions are apparent after the correction action, sources of emissions shall not start until the permittee can verify compliance with the opacity standards specified in the permit through methods prescribed in §123.43, such as EPA Method 9 readings taken by a certified visible emissions reader.

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Owner/Operator shall maintain the following comprehensive and accurate records:

- (1) Emissions for each air contamination source and facility-wide emissions on a 12-month rolling basis; and
- (2) monthly records of operational hours and fuel usage for each source at this facility.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

All logs and required records shall be maintained on site, or at an alternative location acceptable to the Department, for a minimum of five years and shall be made available to the Department upon request.

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

Malfunction notification and reporting shall be conducted as follows:

(a) The owner or operator shall report each malfunction that occurs at this facility that poses an imminent and substantial danger to the public health and safety or the environment or which it should reasonably believe may result in citizen complaints to the Department. For purpose of this condition, a malfunction is defined as any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or source to operate in a normal or usual manner that may result in an increase in the emission of air contaminants. Examples of malfunctions that may result in citizen complaints include, but are not limited to, large dust plumes, heavy smoke, or a spill or release that results in a malodor that is detectable outside the property of the person on whose land the source is being operated.

(b) When the malfunction poses an imminent and substantial danger to the public health and safety or the environment, the notification shall be submitted to the Department no later than one hour after the incident. All other malfunctions that must be reported under subsection (a) shall be reported to the Department no later than the next business day.

(c) The report shall describe the:

- (i) Name and location of the facility;
- (ii) Nature and cause of the malfunction or breakdown;
- (iii) Time when the malfunction or breakdown was first observed;
- (iv) Expected duration of excess emissions; and
- (v) Estimated rate of emissions.

(d) The owner or operator shall notify the Department immediately when corrective measures have been accomplished.

(e) Subsequent to the malfunction, the owner/operator shall submit a full written report to the Department including the items identified in (c) and corrective measures taken on the malfunction within 15 days, if requested.

(f) The owner/operator shall submit reports on the operation and maintenance of the source to the Regional Air Program Manager at such intervals and in such form and detail as may be required by the Department. Information required in the reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and maintenance schedules.

(g) Malfunctions shall be reported to the Department at the following address:

**SECTION C. Site Level Plan Approval Requirements**

Pennsylvania Department of Environmental Protection
Southwest Regional Office
Air Quality Program
400 Waterfront Drive
Pittsburgh, PA 15222-4745
412-442-4000

Email addresses and alternative telephone numbers for notification purposes may be provided to the Owner/Operator by the Department, or approved by the Department upon request from the Owner/Operator.

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

Annual emissions reporting shall be conducted as follows:

- a. The permittee shall submit by March 1 of each year, a source report for the preceding calendar year for all sources authorized under this plan approval to the Department via AES*Online or AES*XML at www.depgreenport.state.pa.us. The report shall include information for all 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.
- b. The source report; in a form as the Department may prescribe; for classes or categories of sources; shall show the actual emissions of carbon monoxide (CO), oxides of nitrogen (NOx), particulate matter less than 10 micrometers in diameter (PM10), particulate matter less than 2.5 micrometers in diameter (PM2.5), sulfur dioxide (SO2), volatile organic compounds (VOC), total hazardous air pollutants (HAP), speciated individual HAP emissions (per the Department's Emissions Inventory Reporting Instructions), ammonia, and greenhouse gases, expressed as CO2e for each reporting period. A description of the method used to calculate the emissions and the time period over which the calculation is based shall be included. The statement shall also contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.
- c. A source owner or operator may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

[Additional authority for this condition is derived from 25 Pa. Code §135.3]

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

All air contamination sources and air cleaning devices authorized under this Plan Approval shall be operated per the manufacturer's specifications and maintained according to the manufacturer's recommended maintenance schedule.

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

Upon determination by the Owner/Operator that the source(s) covered by this Plan Approval are constructed and in compliance with all operative conditions of the Plan Approval, the Owner/Operator shall contact the Department and schedule the Initial Operating Permit Inspection.

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Within 120 days after completion of the Initial Operating Permit Inspection and determination by the Department that the source(s) covered by this Plan Approval were constructed in accordance with the Plan Approval and the conditions of the Plan Approval, the Owner/Operator shall submit either a State Only Operating Permit application, update to a pending State Only Operating Permit application, or Administrative Amendment application (as appropriate) for the Facility.

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

**SECTION C. Site Level Plan Approval Requirements**

Requests to extend the period of temporary operation shall be submitted in writing to the Department at least 15 days prior to the expiration date of any authorized period of temporary operation.

018 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

This Plan Approval is to allow the installation and operation of the following air cleaning devices by Johnson Matthey, Inc. at its Smithfield facility located in the Boro of Smithfield, Fayette County:

- One (1) Johnson Matthey Selective Catalytic Reduction System (Source #C103A) rated at 2,492 SCFM;
- One (1) Johnson Matthey Oxidation Catalyst (Source #C103B) rated at 2,492 SCFM; and
- One (1) Fives North American Combustion Inc. natural gas-fired duct burner (Source #203) rated at 1.7 MMBTU/hr.

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: 203

Source Name: DUCT BURNER

Source Capacity/Throughput:

1.700 MMBTU/HR

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.**# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Natural gas usage shall be recorded, and records shall be retained by the owner or operator for 5 years and made available to the Department upon receipt of a written request from the Department.

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.

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

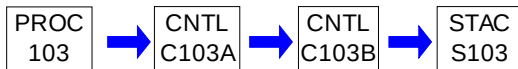
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 103

Source Name: OVEN ZONES 3 THRU 10

Source Capacity/Throughput:

11.680 MMBTU/HR

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

The process emissions from the oven during normal operation shall not exceed:

- a) 2.4 pounds per hour of NO_x based on a monthly average;
- b) 1.15 pounds per hour of VOC based on a monthly average;
- c) 10.5 tons of NO_x per year on a 12-month rolling average; and
- d) 5 tons of VOC per year on a 12-month rolling average.

Compliance with the monthly average limits will be demonstrated based on the total pounds of NO_x (as converted from NO₃) and VOC (as converted from organics) per month divided by the total operating hours per month.

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The combustion emissions from the oven during normal operation shall not exceed:

- a) 1.2 pounds per hour of NO_x based on a monthly average;
- b) 0.12 pounds per hour of VOC based on a monthly average;
- c) 5.25 tons of NO_x per year on a 12-month rolling average; and
- d) 0.5 tons of VOC per year on a 12-month rolling average.

Compliance with these limits shall be demonstrated through records of emission estimates based on natural gas usage of the oven.

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

The Owner/Operator shall limit process NO₃ input to 96 lbs/hour or less as determined by a 30-day rolling average.

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

The ammonia emissions from the oven stack shall not exceed 10 ppmvd at 15% oxygen.

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

The Johnson Matthey Selective Catalytic Reduction System shall:

- a. Achieve a minimum NO_x control efficiency of 90%; or
- b. Limit NO_x emissions to no more than 1.92 lbs/hr.

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

The Johnson Matthey Oxidation Catalyst shall:

- a. Achieve a minimum VOC control efficiency of 95%; or
- b. Limit VOC emissions to no more than 0.14 lbs/hr.

**SECTION D. Source Level Plan Approval Requirements****II. TESTING REQUIREMENTS.****# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Testing shall be conducted on the Oven (Source ID #103) as followed:

The Owner/Operator shall perform NO_x, CO, VOC, and ammonia slip emission testing upon the Oven (Source ID #103) according to the requirements of 25 Pa. Code Chapter 139. Initial performance testing is required within 180 days of installation of the oxidation catalyst and selective catalytic reduction system, or at a timeframe extended by the Department in writing. The initial performance test and subsequent performance tests shall be conducted using EPA Method stack testing or alternative methods as approved by the Department in writing.

The Owner/Operator shall conduct subsequent EPA reference method stack testing for NO_x, CO, VOC, and ammonia slip from the exhaust stack of the production oven no less than every five (5) years after initial testing.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Testing shall be conducted on the SCR (Source ID #C103A) as followed:

The Owner/Operator shall conduct EPA reference method stack testing for destruction efficiency and temperature range to achieve the required control efficiency of NO_x, and NO_x emissions from Source ID #103. Initial performance testing is required within 180 days of installation of the oxidation catalyst and selective catalytic reduction system, or at a timeframe extended by the Department in writing. The initial performance test and subsequent performance tests shall be conducted using EPA Method stack testing or alternative methods as approved by the Department in writing.

The Owner/Operator shall conduct EPA reference method stack testing for destruction efficiency and temperature range to achieve the required control efficiency of NO_x, and NO_x emissions from Source ID #103 no less than every five (5) years after initial testing.

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Testing shall be conducted on the Oxidation Catalyst (Source ID #C103B) as followed:

The Owner/Operator shall conduct EPA reference method stack testing for destruction efficiency, temperature range to achieve the required control efficiency of VOC, and VOC emissions from Source ID #103. Initial performance testing is required within 180 days of installation of the oxidation catalyst and selective catalytic reduction system, or at a timeframe extended by the Department in writing. The initial performance test and subsequent performance tests shall be conducted using EPA Method stack testing or alternative methods as approved by the Department in writing.

The Owner/Operator shall conduct EPA reference method stack testing for destruction efficiency, temperature range to achieve the required control efficiency of VOC, and VOC emissions from Source ID #103 no less than every five (5) years after initial testing.

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Upon the installation of the Johnson Matthey Oxidation Catalyst, the differential pressure and inlet temperature of the flue gas shall be recorded at rated conditions to establish baseline.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Upon the installation of the Johnson Matthey Selective Catalytic Reduction System, the differential pressure and inlet temperature of the flue gas shall be recorded at rated conditions to establish baseline.

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

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

The Johnson Matthey Oxidation Catalyst shall operate within the temperature range per manufacturer recommendations.

013 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The Johnson Matthey Selective Catalytic Reduction system shall operate within the temperature range per manufacturer recommendations.

014 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

At a minimum, the owner or operator shall continuously record the Johnson Matthey Oxidation Catalyst differential pressure, the inlet temperature of the flue gas, and the flow rate of the exhaust on a daily basis when the source is operating.

015 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

At a minimum, the owner or operator shall continuously record the Johnson Matthey Selective Catalytic Reduction System differential pressure, the inlet temperature of the flue gas, the flow rate of the exhaust, and the ammonia injection rate when the source is operating.

IV. RECORDKEEPING REQUIREMENTS.

016 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The owner or operator shall record and maintain 30-day rolling averages of NO₃ input into the Oven (Source ID #103).

017 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The following catalyst maintenance records for both the Johnson Matthey Selective Catalytic Reduction System and the Johnson Matthey Oxidation Catalyst shall be documented and the records shall be retained by the owner or operator for 5 years and made available to the Department upon receipt of a written request from the Department:

- hours of operation;
- differential pressure of the Johnson Matthey Selective Catalytic Reduction System;
- differential pressure of the Johnson Matthey Oxidation Catalyst;
- inlet temperature for the Johnson Matthey Selective Catalytic Reduction System;
- inlet temperature for the Johnson Matthey Oxidation Catalyst;
- ammonia injection rate;
- amount of ammonia used on a 12-month rolling basis;
- operating conditions of the Johnson Matthey Selective Catalytic Reduction System;
- operating conditions of the Johnson Matthey Oxidation Catalyst;
- maintenance completed on the Johnson Matthey Selective Catalytic Reduction System; and
- maintenance completed on the Johnson Matthey Oxidation Catalyst.

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.

018 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Ammonia shall be injected into the exhaust stream at all times the oven is in operation except when operating on dry parts for testing purposes.

**SECTION D. Source Level Plan Approval Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

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

Source ID: 103A

Source Name: OVEN ZONE 1 & 2-UNCONTROLLED

Source Capacity/Throughput:

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.

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

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

Source ID: 103B

Source Name: OVEN-COMBUSTION EMISSIONS

Source Capacity/Throughput:

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.

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



SECTION E. Source Group Plan Approval Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



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