



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY OPERATING PERMIT

Issue Date: April 15, 2010

Effective Date: May 1, 2010

Expiration Date: April 30, 2015

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: 46-00056

Synthetic Minor

Federal Tax Id - Plant Code: 23-0666140-1

Owner Information

Name: HALE PROD INC

Mailing Address: 700 SPRING MILL AVE
CONSHOHOCKEN, PA 19428-1954

Plant Information

Plant: HALE PROD INC / SPRING MILL AVE

Location: 46 Montgomery County 46006 Conshohocken Borough

SIC Code: 3561 Manufacturing - Pumps And Pumping Equipment

Responsible Official

Name: JOHN KURISH

Title: OPERATIONS MANAGER

Phone: (610) 825 - 6300

Permit Contact Person

Name: DAN BORGNIS

Title: PLANT MANAGER

Phone: (610) 940 - 2482 Ext.114

[Signature] _____
JOSEPH A. FEOLA, SOUTHEAST REGIONAL DIRECTOR

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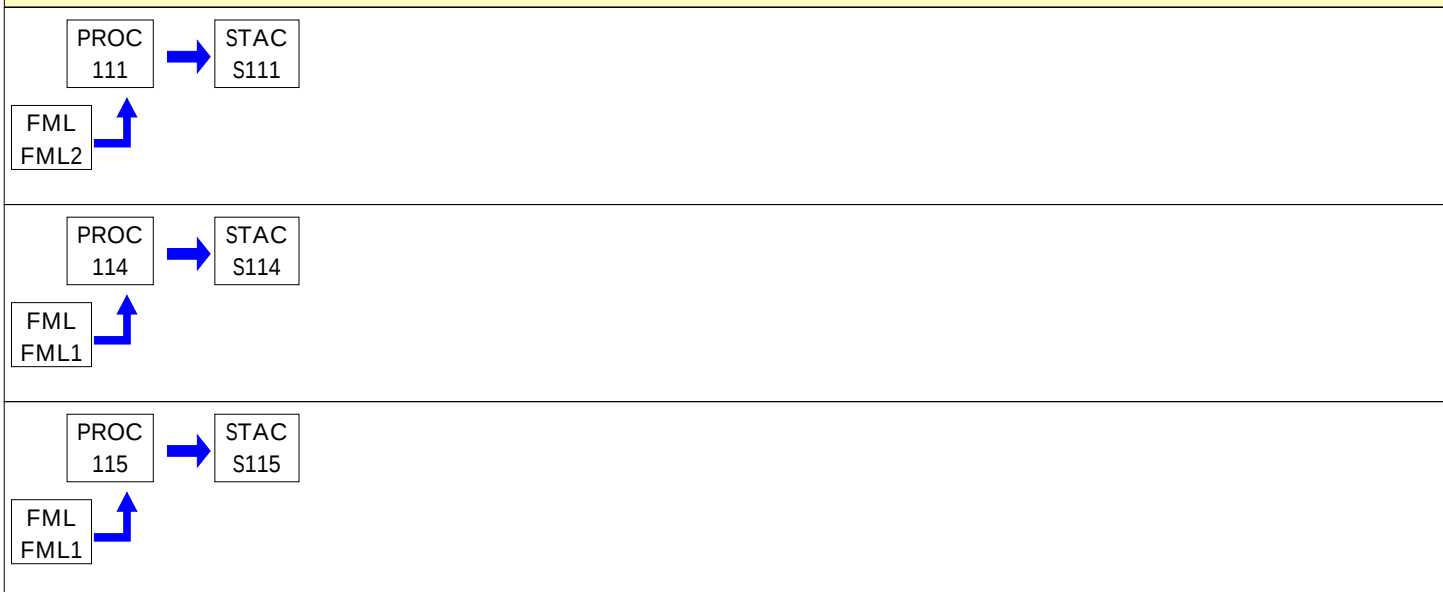
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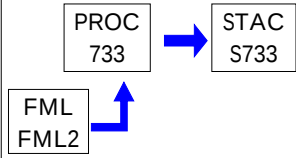
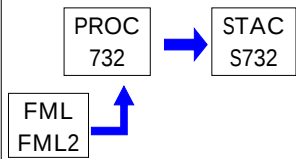
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
111	R & D TEST ENGINE	4.100 MMBTU / HR	
		29.300 Gal / HR	Diesel Fuel
114	EMERGENCY GENERATOR (30 KW)	545.000 CF / HR	Natural Gas
115	EMERGENCY GENERATOR (12.5 KW)	190.000 CF / HR	Natural Gas
732	TEST ENGINE D1	2.500 MMBTU / HR	
		18.000 Gal / HR	Diesel Fuel
733	TEST ENGINE D2	3.400 MMBTU / HR	
		24.300 Gal / HR	Diesel Fuel
900	CAFS (RED) PAINT BOOTH	N / A	
902	BLACK PRIMER PAINT BOOTH	N / A	
C900	CAFS (RED) PAINT BOOTH FILTER		
C902	BLACK PRIMER PAINT BOOTH FILTER		
FML1	NATURAL GAS LINE		
FML2	DIESEL TANK		
S111	R & D ENGINE STACK		
S114	EMERGENCY GENERATOR STACK		
S115	EMERGENCY GENERATOR STACK		
S732	TEST ENGINE D1 STACK		
S733	TEST ENGINE D2 STACK		
S900	CAFS (RED) PAINT BOOTH STACK		
S902	BLACK PRIMER PAINT BOOTH STACK		

PERMIT MAPS



PERMIT MAPS



SECTION B. General State Only Requirements

#001 [25 Pa. Code § 121.1]

Definitions.

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

#002 [25 Pa. Code § 127.446]

Operating Permit Duration.

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

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

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 and an additional annual administrative fee as specified in 25 Pa. Code § 127.703(b) and (c). The fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund" and shall be for the amount specified in the following schedule specified in 25 Pa. Code § 127.703(b) and (c).
- (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
- (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.
- (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 fees according to the following schedule specified in 25 Pa. Code § 127.703(b):
- (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.

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(2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.

This fee schedule shall apply to the processing of an application for an operating permit as well as the extension, modification, revision, renewal, and re-issuance of each operating permit or part thereof.

(b) The permittee shall pay an annual operating permit administrative fee according to the fee schedule established in 25 Pa. Code § 127.703(c).

(1) Two hundred fifty dollars for applications filed during the 1995-1999 calendar years.

(2) Three hundred dollars for applications filed during the 2000-2004 calendar years.

(3) Three hundred seventy-five dollars for applications filed during the years beginning in 2005.

(c) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund".

#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.

SECTION B. General State Only Requirements

#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.

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(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]

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 make 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 make minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Permit modifications which do not qualify as minor permit modifications under 25 Pa. Code § 127.541 will be treated as a significant operating permit revision subject to the public notification procedures in §§ 127.424 and 127.425.

#012 [25 Pa. Code § 127.441]

Severability Clause.

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

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

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

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

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

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

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

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

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

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

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air

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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

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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 § 127.11]

Reactivation

(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.

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(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

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

#021 [25 Pa. Code § 127.441(a)]

Property Rights.

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

#022 [25 Pa. Code § 127.447]

Alternative Operating Scenarios.

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

SECTION C. Site Level 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 Air Pollution Control Act (35 P.S. Section 4003).

002 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

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

- (a) Construction or demolition of buildings or structures.
- (b) Grading, paving, and maintenance of roads and streets.
- (c) 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.
- (d) Clearing of land.
- (e) Stockpiling of materials.
- (f) Open Burning Operations.
- (g) Sources, and classes of sources, other than those identified in (a) - (f) above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code § 123.1(b), that fugitive emissions from the source, after appropriate controls, meet the following requirements:

(1) The emissions are of minor significance with respect to causing air pollution; and

(2) 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)(1)-(9) 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.
- (b) Equal to or greater than 60% at any time.

SECTION C. Site Level Requirements

006 [25 Pa. Code §123.42]

Exceptions

The opacity limitations of 25 Pa. Code § 123.41 (relating to Limitations) 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 sources specified in 25 Pa. Code § 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall limit facility-wide NO_x emissions to less than 25 tons per year, based on a 12-month rolling sum.
- (b) The permittee shall limit facility-wide VOC emissions to less than 25 tons per year, based on a 12-month rolling sum.

008 [25 Pa. Code §129.14]

Open burning operations

The permittee may not permit the open burning of material in the Southeast Air Basin, except when the open burning results 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 solely for cooking food.
- (d) A fire set solely for recreational or ceremonial purposes.
- (e) A fire set for the prevention and control of disease or pests, when approved by the Department.

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(s) listed in Section A, of this Permit, 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, 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.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to require exhaust stack testing of any source(s) as necessary to verify emissions for purposes including determining a malfunction or determining compliance with any applicable regulation.

SECTION C. Site Level Requirements

III. MONITORING REQUIREMENTS.

011 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured 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.

012 [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 the Department may determine to be objectionable.
- (2) Visible Emissions.
- (3) Fugitive Particulate Matter.

(b) All detectable objectionable odors, that originated on-site and cross the property line, as well as fugitive particulate emissions and visible emissions that originated on site shall:

- (1) Be investigated.
- (2) Be reported to the facility management, or individual(s) designated by the permittee.
- (3) Be recorded in a permanent written log.

(c) At the end of six months, upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly for the next six month period.

(d) At the end of the second six month period, 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 and the semi-annual report of monitoring and record keeping, complaints, monitoring results, and/or Department findings.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate NO_x and VOC emission rates using vendor supplied emission factors for all test engines and USEPA AP-42 factors for emergency generators, as well as the respective operating hours totaled on the hour meters, when calculating facility wide NO_x and VOC emissions.

IV. RECORDKEEPING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain monthly records of facility wide NO_x and VOC emissions, including 12-month rolling sums, in order to demonstrate compliance with the emission restrictions stated in this section.

015 [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:

SECTION C. Site Level Requirements

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

V. REPORTING REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit 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:

- (1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

SECTION C. Site Level Requirements

(2) The permittee fails to submit a compliance schedule or include a statement in an annual Compliance Certification submittal for the previous year indicating compliance with the requirements of the terms and conditions of this permit, and the requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68. The certification shall include:

- (i) The identification of each term or condition of the permit that is the basis of the certification.
- (ii) The compliance status.
- (iii) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (iv) Whether compliance was continuous or intermittent.

(g) The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance of this permit.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall, within two (2) hours, of becoming knowledgeable, of any occurrence, notify the Department, at 484-250-5920, of any malfunction of the source(s) or associated air pollution control devices listed in Section A or G, of this permit, which results in, or may possibly result in, the emission of air contaminants in excess of the limitations specified in this permit, or regulation contained in 25 Pa. Code Article III.

(b) Malfunction(s) which occur at this State Only facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.

(c) A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe, at a minimum, the following:

- (1) The malfunction(s).
- (2) The emission(s).
- (3) The duration.
- (4) Any corrective action taken.

018 [25 Pa. Code §135.3]

Reporting

The permittee, who has been previously advised by the Department to submit a source report, shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from 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, including those sources listed in the Miscellaneous Section of this permit.

The permittee 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.

VI. WORK PRACTICE REQUIREMENTS.

019 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

A person responsible for any source specified in 25 Pa. Code § 123.1(a)(1) -- (7) or (9) 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

SECTION C. Site Level Requirements

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.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that all sources and air cleaning devices are operated and maintained in accordance with manufacturer's specifications and good engineering and air pollution control practices.

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 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 Section A or G of 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 Sections A or G of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.

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.

SECTION D. Source Level Requirements

Source ID: 111

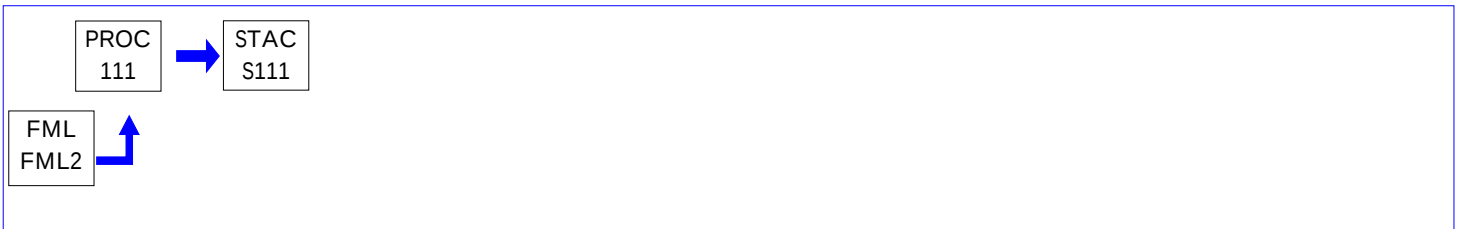
Source Name: R & D TEST ENGINE

Source Capacity / Throughput:

4.100 MMBTU / HR

29.300 Gal / HR

Diesel Fuel

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.444]

Compliance requirements.

The permittee shall operate this source according to the manufacturer specification, as to not exceed the following emission rates:

- (a) Nitrogen Oxide (NO_x): 10.09 lb / hr
- (b) Carbon Monoxide (CO): 2.34 lb / hr
- (c) Volatile Organic Compounds (VOC): 0.28 lb / hr
- (d) Particulate Matter (PM): 0.31 lb / hr

[Compliance with (d) above assures compliance with the particulate matter standard requirements of 25 Pa. Code § 123.13(c)(1)(i)].

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition has also been derived from 25 Pa. Code § 129.91]

The permittee shall limit the aggregate NO_x emissions from Source ID 111 (R&D Test Engine), 732 (Test Engine D1), and 733 (Test Engine D2) to 23 tons per year, based on a 12-month rolling sum.

Fuel Restriction(s).

003 [25 Pa. Code §123.22]

Combustion units

No person may, at any time, offer for sale, deliver or use, exchange in trade or permit the use of commercial fuel oil for use in combustion units in the Southeast Pennsylvania air basin which contains sulfur in excess 0.2% sulfur by weight for the inner zone, according to 25 Pa. Code § 123.22(e)(2).

[This permit condition streamlines the sulfur emission standard requirements of 25 Pa. Code § 123.21]

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall fire this engine with diesel fuel only.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the hours of operation of the R & D Test Engine to less than 698 hours in any consecutive twelve (12) month period.

SECTION D. Source Level Requirements

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall monitor the hours of operation for this source on a monthly basis.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall calculate monthly NOx emissions, including 12-month rolling sums, using hours of operation and the NOx emission rates from either vendor supplied emission factors or from the most recent stacktest for this source.

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall receive a yearly fuel oil delivery certification that guarantees the percent sulfur in each delivery is below 0.2%. The permittee shall keep this certification on record for 5 years. In the event that the facility changes fuel suppliers, the facility shall get a statement of compliance with the 0.2% limit from the new supplier.

[Compliance with this permit condition assures compliance with the Testing Requirement of 25 Pa. Code § 139.16]

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain a copy of the manufacturer's specifications for the maintenance and operation of this source.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.95]

The permittee shall maintain records of all maintenance (i.e., routine/preventative maintenance, repairs, parts replacement, tune-ups, etc.) performed on this source. These records shall contain, at a minimum, the following:

- (a) The date of the maintenance.
- (b) Any routine/preventative maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain monthly records of the aggregate NOx emissions from Source ID 111, 732, and 733, including 12-month rolling sums.

012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain monthly records of operating hours for this source, including 12-month rolling sums.

V. REPORTING REQUIREMENTS.

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



SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain and operate this source in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This test engine is rated at 560 BHP (brake horsepower).

SECTION D. Source Level Requirements

Source ID: 114

Source Name: EMERGENCY GENERATOR (30 KW)

Source Capacity / Throughput:

545.000 CF / HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the atmosphere of particulate matter in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 gr / dscf, according to 25 Pa. Code § 123.13(c)(1)(i).

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall fire this source with natural gas only.

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the hours of operation for this source to less than 500 hours per year, based on a 12-month rolling sum.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following on a monthly basis for this source, when in operation:

- (a) type of fuel consumed,
- (b) hours of operation.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain monthly records of the following for this source, when in operation:

- (a) type of fuel consumed,
- (b) hours of operation, including 12-month rolling sums.

SECTION D. Source Level Requirements

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition has been derived from 25 Pa. Code § 129.95]

The permittee shall maintain records of all maintenance (i.e., routine/preventative maintenance, repairs, parts replacement, tune-ups, etc.) performed on this generator. These records shall contain, at a minimum, the following:

- (a) The date of the maintenance.
- (b) Any routine/preventative maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

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.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain and operate this source in accordance with manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 115

Source Name: EMERGENCY GENERATOR (12.5 KW)

Source Capacity / Throughput:

190.000 CF / HR

Natural Gas



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the atmosphere of particulate matter in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 gr / dscf, according to 25 Pa. Code § 123.13(c)(1)(i).

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall fire this source with natural gas only.

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the hours of operation for this source to less than 500 hours per year, based on a 12-month rolling sum.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following on a monthly basis for this source, when in operation:

- (a) type of fuel consumed,
- (b) hours of operation.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain monthly records of the following for this source, when in operation:

- (a) type of fuel consumed,
- (b) hours of operation, including 12-month rolling sums.

SECTION D. Source Level Requirements

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition has been derived from 25 Pa. Code § 129.95]

The permittee shall maintain records of all maintenance (i.e., routine/preventative maintenance, repairs, parts replacement, tune-ups, etc.) performed on this generator. These records shall contain, at a minimum, the following:

- (a) The date of the maintenance.
- (b) Any routine/preventative maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

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.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain and operate this source in accordance with manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 732

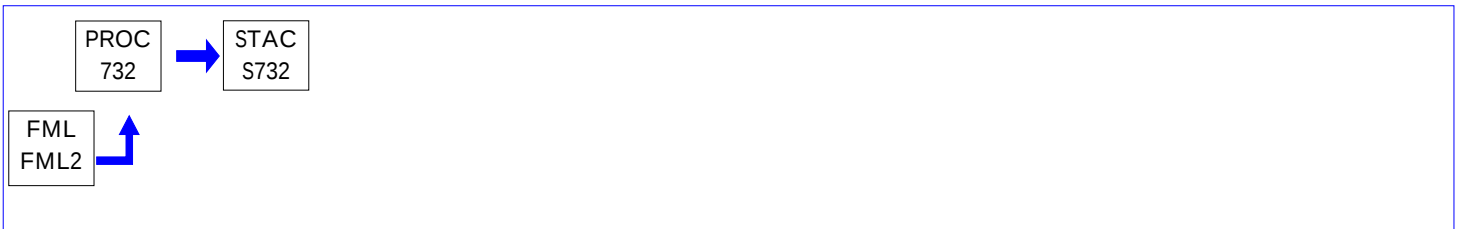
Source Name: TEST ENGINE D1

Source Capacity / Throughput:

2.500 MMBTU / HR

18.000 Gal / HR

Diesel Fuel

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.444]

Compliance requirements.

The permittee shall operate this source according to the manufacturer specification, as to not exceed the following emission rates:

- (a) Nitrogen Oxide (NO_x): 12.11 lb / hr
- (b) Carbon Monoxide (CO): 1.11 lb / hr
- (c) Volatile Organic Compounds (VOC): 0.33 lb / hr
- (d) Particulate Matter (PM): 0.24 lb / hr

[Compliance with (d) above assures compliance with the particulate matter standard requirements of 25 Pa. Code § 123.13(c)(1)(i).]

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition has also been derived from 25 Pa. Code § 129.91]

The permittee shall limit the aggregate NO_x emissions from Source ID 111 (R&D Test Engine), 732 (Test Engine D1), and 733 (Test Engine D2) to 23 tons per year, based on a 12-month rolling sum.

Fuel Restriction(s).

003 [25 Pa. Code §123.22]

Combustion units

No person may, at any time, offer for sale, deliver or use, exchange in trade or permit the use of commercial fuel oil for use in combustion units in the Southeast Pennsylvania air basin which contains sulfur in excess 0.2% sulfur by weight for the inner zone, according to 25 Pa. Code § 123.22(e)(2).

[This permit condition streamlines the sulfur emission standard requirements of 25 Pa. Code § 123.21]

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall fire this engine with diesel fuel only.

II. TESTING REQUIREMENTS.

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

SECTION D. Source Level Requirements**III. MONITORING REQUIREMENTS.**

005 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall monitor the hours of operation for this source on a monthly basis.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall calculate monthly NO_x emissions, including 12-month rolling sums, using hours of operation and the NO_x emission rates from either vendor supplied emission factors or from the most recent stacktest for this source.

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall receive a yearly fuel oil delivery certification that guarantees the percent sulfur in each delivery is below 0.2%. The permittee shall keep this certification on record for 5 years. In the event that the facility changes fuel suppliers, the facility shall get a statement of compliance with the 0.2% limit from the new supplier.

[Compliance with this permit condition assures compliance with the Testing Requirement of 25 Pa. Code § 139.16]

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain a copy of the manufacturer's specifications for the maintenance and operation of this source.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.95]

The permittee shall maintain records of all maintenance (i.e., routine/preventative maintenance, repairs, parts replacement, tune-ups, etc.) performed on this source. These records shall contain, at a minimum, the following:

- (a) The date of the maintenance.
- (b) Any routine/preventative maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain monthly records of the aggregate NO_x emissions from Source ID 111, 732, and 733, including 12-month rolling sums.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain monthly records of operating hours for this source, including 12-month rolling sums.

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.

012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

SECTION D. Source Level Requirements

The permittee shall maintain and operate this source in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This test engine is rated at 430 BHP (brake horsepower).

SECTION D. Source Level Requirements

Source ID: 733

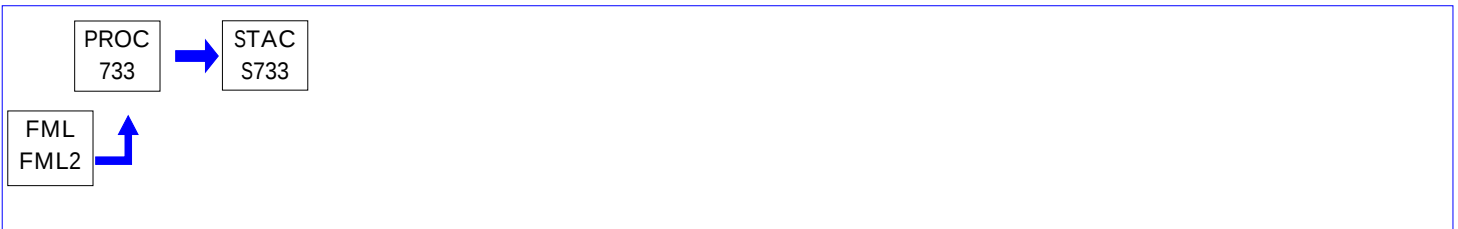
Source Name: TEST ENGINE D2

Source Capacity / Throughput:

3.400 MMBTU / HR

24.300 Gal / HR

Diesel Fuel



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission to the outdoor atmosphere of particulate matter in a manner that the concentration of particulates in the effluent gas exceeds 0.04 gr / dscf, according to 25 Pa. Code § 123.13(c)(1)(i).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition has also been derived from 25 Pa. Code § 129.91]

The permittee shall limit the aggregate NOx emissions from Source ID 111 (R&D Test Engine), 732 (Test Engine D1), and 733 (Test Engine D2) to 23 tons per year, based on a 12-month rolling sum.

Fuel Restriction(s).

003 [25 Pa. Code §123.22]

Combustion units

No person may, at any time, offer for sale, deliver or use, exchange in trade or permit the use of commercial fuel oil for use in combustion units in the Southeast Pennsylvania air basin which contains sulfur in excess 0.2% sulfur by weight for the inner zone, according to 25 Pa. Code § 123.22(e)(2).

[This permit condition streamlines the sulfur emission standard requirements of 25 Pa. Code § 123.21]

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall fire this engine with diesel fuel only.

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the hours of operation for this source on a monthly basis.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate monthly NOx emissions, including 12-month rolling sums, using hours of operation and the NOx emission rates from either vendor supplied emission factors or from the most recent stacktest for this source.

SECTION D. Source Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall receive a yearly fuel oil delivery certification that guarantees the percent sulfur in each delivery is below 0.2%. The permittee shall keep this certification on record for 5 years. In the event that the facility changes fuel suppliers, the facility shall get a statement of compliance with the 0.2% limit from the new supplier.

[Compliance with this permit condition assures compliance with the Testing Requirement of 25 Pa. Code § 139.16]

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain a copy of the manufacturer's specifications for the maintenance and operation of this source.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.95]

The permittee shall maintain records of all maintenance (i.e., routine/preventative maintenance, repairs, parts replacement, tune-ups, etc.) performed on this source. These records shall contain, at a minimum, the following:

- (a) The date of the maintenance.
- (b) Any routine/preventative maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain monthly records of the aggregate NOx emissions from Source ID 111, 732, and 733, including 12-month rolling sums.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain monthly records of operating hours for this source, including 12-month rolling sums.

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.

012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain and operate this source in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This test engine is rated at 430 BHP (brake horsepower).

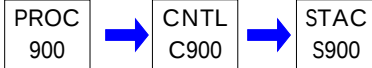
SECTION D. Source Level Requirements

Source ID: 900

Source Name: CAFS (RED) PAINT BOOTH

Source Capacity / Throughput:

N / A



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source at any time, in excess of 0.04 gr / dscf, according to 25 Pa. Code § 123.13(c)(1)(i).

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall use data from Certified Product Data Sheets (CPDS) and Material Safety Data Sheets (MSDS) to determine VOC content of coatings and to calculate VOC emissions from this source.

(b) The permittee, as an alternative to the CPDS and MSDS, may use USEPA Method 24 to determine the VOC content of the coatings.

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the pressure drop for the control device associated with this source, on a daily basis, when the equipment is in operation.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.52]

(a) The permittee shall monitor the following for each coating, thinner and other component as supplied on a daily basis:

- (1) The coating, thinner or component name and identification number.
- (2) The volume used.
- (3) The mix ratio.
- (4) The density or specific gravity.
- (5) The weight percent of total volatiles, water, solids and exempt solvents.
- (6) The volume percent of solids.

(b) The permittee shall monitor the VOC content of each coating, thinner, and other component as supplied on a daily basis.

(c) The permittee shall monitor the VOC content of each as applied coating on a daily basis.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

SECTION D. Source Level Requirements

The permittee shall record the pressure drop for the control device associated with this source, on a daily basis, when the equipment is in operation.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain monthly totals of the volume of each coating used in this spray booth, including 12-month rolling sums.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.52]

(a) The permittee shall maintain daily records of the following for each coating, thinner and other component as supplied:

- (1) The coating, thinner or component name and identification number.
- (2) The volume used.
- (3) The mix ratio.
- (4) The density or specific gravity.
- (5) The weight percent of total volatiles, water, solids and exempt solvents.
- (6) The volume percent of solids.

(b) The permittee shall maintain daily records of the VOC content of each coating, thinner, and other component as supplied.

(c) The permittee shall maintain daily records of the VOC content of each as applied coating.

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall keep monthly records of the following for the filtering system associated with this source:

- (a) inspections performed,
- (b) maintenance performed (including when filters are replaced),
- (c) any deficiencies, and
- (d) any corrective actions taken.

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.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.52.]

The permittee shall not cause or permit the emission into the outdoor atmosphere of VOCs from a surface coating process unless the VOC content of each as applied coating is equal to or less than 5.06 lbs VOCs / gal coating solids.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.52.]

SECTION D. Source Level Requirements

The VOC content of each as applied coating shall be calculated by using one of the Department approved formulas contained in 25 Pa. Code § 129.52(b)(1).

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall limit the amount of paint used in this spray booth to 1000 gallons per year, based on a 12-month rolling sum.

012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall control overspray from this spray booth by venting the exhaust through a filtering system.

013 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

(a) The permittee shall inspect the filters on a monthly basis for gaps and or holes.

(b) The permittee shall keep spare filters on hand for replacement.

(c) The permittee shall replace filters every month, or more often as needed.

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 902

Source Name: BLACK PRIMER PAINT BOOTH

Source Capacity / Throughput:

N / A

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source at any time, in excess of 0.04 gr / dscf, according to 25 Pa. Code § 123.13(c)(1)(i).

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall use data from Certified Product Data Sheets (CPDS) and Material Safety Data Sheets (MSDS) to determine VOC content of coatings and to calculate VOC emissions from this source.

(b) The permittee, as an alternative to the CPDS and MSDS, may use USEPA Method 24 to determine the VOC content of the coatings.

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the pressure drop for the control device associated with this source, on a daily basis, when the equipment is in operation.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.52]

(a) The permittee shall monitor the following for each coating, thinner and other component as supplied on a daily basis:

- (1) The coating, thinner or component name and identification number.
- (2) The volume used.
- (3) The mix ratio.
- (4) The density or specific gravity.
- (5) The weight percent of total volatiles, water, solids and exempt solvents.
- (6) The volume percent of solids.

(b) The permittee shall monitor the VOC content of each coating, thinner, and other component as supplied on a daily basis.

(c) The permittee shall monitor the VOC content of each as applied coating on a daily basis.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

SECTION D. Source Level Requirements

The permittee shall record the pressure drop for the control device associated with this source, on a daily basis, when the equipment is in operation.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.52]

(a) The permittee shall maintain daily records of the following for each coating, thinner and other component as supplied:

- (1) The coating, thinner or component name and identification number.
- (2) The volume used.
- (3) The mix ratio.
- (4) The density or specific gravity.
- (5) The weight percent of total volatiles, water, solids and exempt solvents.
- (6) The volume percent of solids.

(b) The permittee shall maintain daily records of the VOC content of each coating, thinner, and other component as supplied.

(c) The permittee shall maintain daily records of the VOC content of each as applied coating.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall keep monthly records of the following for the filtering system associated with this source:

- (a) inspections performed,
- (b) maintenance performed (including when filters are replaced),
- (c) any deficiencies, and
- (d) any corrective actions taken.

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.

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.52.]

The permittee shall not cause or permit the emission into the outdoor atmosphere of VOCs from a surface coating process unless the VOC content of each as applied coating is equal to or less than 5.06 lbs VOCs / gal coating solids.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.52.]

The VOC content of each as applied coating shall be calculated by using one of the Department approved formulas contained in 25 Pa. Code § 129.52(b)(1).

SECTION D. Source Level Requirements

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall control overspray from this spray booth by venting the exhaust through a filtering system.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

(a) The permittee shall inspect the filters on a monthly basis for gaps and or holes.

(b) The permittee shall keep spare filters on hand for replacement.

(c) The permittee shall replace filters every month, or more often as needed.

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. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

SECTION F. Emission Restriction Summary.

Source Id	Source Description		
111	R & D TEST ENGINE		
Emission Limit		Pollutant	
2.340	Lbs/ Hr		CO
10.900	Lbs/ Hr		NOX
23.000	Tons/ Yr	Aggregate of Source ID 111, 732, 733	NOX
0.310	Lbs/ Hr		PM10
0.280	Lbs/ Hr		VOC
114	EMERGENCY GENERATOR (30 KW)		
Emission Limit		Pollutant	
0.040	gr/ DRY FT3		PM10
115	EMERGENCY GENERATOR (12.5 KW)		
Emission Limit		Pollutant	
0.040	gr/ DRY FT3		PM10
732	TEST ENGINE D1		
Emission Limit		Pollutant	
1.110	Lbs/ Hr		CO
12.110	Lbs/ Hr		NOX
23.000	Tons/ Yr	Aggregate of Source ID 111, 732, 733	NOX
0.240	Lbs/ Hr		PM10
0.330	Lbs/ Hr		VOC
733	TEST ENGINE D2		
Emission Limit		Pollutant	
23.000	Tons/ Yr	Aggregate of Source ID 111, 732, 733	NOX
0.040	gr/ DRY FT3	Total Particulates	TSP
900	CAFS (RED) PAINT BOOTH		
Emission Limit		Pollutant	
0.040	gr/ DRY FT3		PM10
902	BLACK PRIMER PAINT BOOTH		
Emission Limit		Pollutant	
0.040	gr/ DRY FT3		PM10

Site Emission Restriction Summary

Emission Limit	Pollutant
24.999 Tons/ Yr	NOX
24.999 Tons/ Yr	VOC



SECTION F. Emission Restriction Summary.

SECTION G. Miscellaneous.

(a) Certain terms and conditions contained in this permit have been derived from the previously issued RACT Operating Permit No. 46-0056. RACT OP No. 46-0056 also incorporates terms and conditions from Plan Approval No. 46-329-015 (Source ID 111 R&D Test Engine and Source ID 732 Pump Test Engine D1).

(b) The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

- (1) Various Natural Gas Space Heaters - (RFD No. 46-A01-1892 and RFD No. 46-A01-2178) - total capacity for 15 units = 6.8 MMBtu/hr.
- (2) Tool Room Boiler #1 (1.1 MMBtu/hr) fired by No. 2 Fuel Oil,
- (3) Office Boiler #2 (0.5 MMBtu/hr - No. 2 Fuel Oil) - Decommissioned and removed from facility in 1998,
- (4) Maintenance Boiler (0.5 MMBtu/hr - No. 2 Fuel Oil) - Decommissioned and removed from facility in 1998,
- (5) R&D Building Boiler (0.5 MMBtu/hr - No. 2 Fuel Oil) - Decommissioned and removed from facility in 2001,
- (6) Three (3) non-VOC (aqueous) parts washers
- (7) Pump Test Engine D3 (rated capacity 3.2 MMBtu/hr and 384 bhp) - This source was previously permitted under RACT Operating Permit No. 46-0056 as a diesel fuel oil consuming engine. Diesel fuel oil is no longer used for Pump Test Engine No. 3; the source is now electrically powered (1999).
- (8) Two (2) Dynamometer 300-hp Electric Test Motors - located in "Test House" - These units are electrically powered.
- (9) 500-gallon and 2,000-gallon above ground diesel fuel oil storage tank.
- (10) Grinding Operations - emissions vent indoors.

(c) RACT Source R&D Test Engine (Detroit Diesel 8V92 - 475 BHP) has been removed from the facility. Source ID 111 (R&D Test Engine 560 BHP) replaces this source.

(d) This is the Renewal State Only Operating Permit (APS No. 483990; AUTH ID 811560). The following updates appear in this renewal:

- (1) Cover Page and Site Inventory (Section A):
 - Permit Contact has been updated to Dan Borgnis, Plant Manager. Responsible Official remains as John Kurish, Operations Manager.
 - Power Input and power output has been added for clarification to various sources listed in Section A.
 - Capacity/throughput has been corrected for various sources listed in Section A.
 - Duplicate Natural Gas fuel material location (FML) has been removed; mapping reflects this correction.
 - Diesel (FML2) has been added as a fuel material location; mapping reflects this correction.
- (2) Section C Site Level Requirements:
 - The NOx emission limit for the three (3) test engines has been removed from Site Level Requirements (previously Site Level Condition #008). The condition now appears in Section D as a source level requirement for each test engine (Source ID 111, 732 and 733).
 - Tiered monitoring requirement (Condition #013) for visible and fugitive emissions and malodors has been added. Associated recordkeeping (Condition # 015) has also been added.
 - Department notification of malfunctions has been added as a reporting requirement (Condition #017).
 - Work Practice Standard Conditions #021 (implement measures to reduce emissions) and #022 (authorization for modifications) have been added to Site Level Requirements.
- (3) Section D - Source ID 111 R&D Test Engine:
 - FML2 (Diesel) has been added to mapping for this source.
 - The aggregate NOx emission limit now appears at this source.
 - The source is restricted to diesel fuel use only.
 - The sulfur emission standard of 25 Pa. Code § 123.21 (500 ppm_{dv}) has been streamlined into 25 Pa. Code § 123.22(e)(2).
 - The sulfur content has been corrected from 0.5% to 0.2% for the inner zone and the condition now appears as a fuel restriction rather than work practice standard.
 - A statement for streamlining the testing requirements of 25 Pa. Code § 139.16 has been added to the fuel delivery certification condition.
 - Recordkeeping added: routine and preventative maintenance, hours of operation to correlate with monitoring, fuel certification for sulfur content (moved from WPS), aggregate NOx emissions from 111, 732, 733.

SECTION G. Miscellaneous.

-Power output in brake horsepower (560 BHP - according to Attachment 2 of Plan Approval Application No. 46-329-015) has been added to Condition VII. Additional Requirements, in order to demonstrate the source is not subject to 25 Pa. Code § 129.203-204 Stationary Internal Combustion Engines (units > 1,000 BHP).

-According to RFD No. 1420 determination, the hours of operation for this source have been revised from 500 hours per year to 698 hours per year.

(4) Section D - Source ID 114 and 115 Emergency Generators (30 & 12.5 kW):

-The sulfur requirements of 25 Pa. Code § 123.21 have been removed from these natural gas fired sources.

-Added fuel type monitoring and recordkeeping.

-Added recordkeeping of routine and preventative maintenance.

-Added work practice standard to maintain and operate according to manufacturer specifications.

(5) Section D - Source ID 732 Test Engine D1:

-Source capacity (gallons per hour), fuel type, and mapping have been corrected.

-The aggregate NOx emission limit and individual NOx, CO, VOC, and PM emission rates have been added.

-The PM standard, sulfur standard, and testing requirements have been streamlined.

-The sulfur content has been corrected from 0.5% to 0.2% for the inner zone and the condition now appears as a fuel restriction rather than work practice standard.

-The source is restricted to diesel fuel use only.

-Recordkeeping added: routine and preventative maintenance, hours of operation to correlate with monitoring, fuel certification for sulfur content (moved from WPS), aggregate NOx emissions from 111, 732, 733.

-Power output in brake horsepower (430 BHP - according to Attachment 2 of Plan Approval Application No. 46-329-015) has been added to Section D VII. Additional Requirements in order to demonstrate the source is not subject to 25 Pa. Code § 129.203-204 Stationary Internal Combustion Engines (units > 1,000 BHP).

(6) Section D - Source ID 733 Test Engine D2:

-Mapping has been corrected from Natural Gas (FML1) to Diesel Fuel Oil (FML2).

-The aggregate NOx emission limit now appears at this source.

-The sulfur emission standard and testing requirements have been streamlined.

-The sulfur content has been corrected from 0.5% to 0.2% for the inner zone and the condition now appears as a fuel restriction rather than work practice standard.

-The source is restricted to diesel fuel use only.

-Recordkeeping added: routine and preventative maintenance, hours of operation to correlate with monitoring, fuel certification for sulfur content (moved from Work Practice Standard), aggregate NOx emissions from 111, 732, 733.

-Power output in brake horsepower (430 BHP - according to Attachment 2 of Plan Approval Application No. 46-329-015) has been added to Section D VII. Additional Requirements in order to demonstrate the source is not subject to 25 Pa. Code § 129.203-204 Stationary Internal Combustion Engines (units > 1,000 BHP).

(7) Section D - Source ID 900 CAFS (Red) Paint Booth: This source has been moved to a different location during the 4th quarter of 2008. The determination for RFD No. 631 was based on a maximum of 1,000 gallons of paint used per year. This paint usage limit now appears as a work practice standard condition for this source, in addition to the following updates:

-Testing requirement (referring to testing of coatings) has been revised to be consistent with updated version of the requirement.

-Frequency of monitoring and recordkeeping (daily) has been added to the requirements of 25 Pa. Code § 129.52, according to sub-condition (c) of the surface coating regulation.

-According to RFD No. 631 determination, monthly monitoring and recordkeeping of paint usage has been added.

-Control device (filters) recordkeeping and work practice standards have been added.

(8) Section D - Source ID 902 Black Primer Paint Booth:

-Testing requirement (referring to testing of coatings) has been revised to be consistent with updated version of the requirement.

-Frequency of monitoring and recordkeeping (daily) has been added to the requirements of 25 Pa. Code § 129.52, according to sub-condition (c) of the surface coating regulation.

-Control device (filters) recordkeeping and work practice standards have been added.

(9) Section F Emission Restriction Summary: This section has been updated to reflect revisions in emission limits appearing in Section C and Section D.



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