COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date: October 28, 2026 Effective Date: October 28, 2026

Expiration Date: October 27, 2031

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

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

State Only Permit No: 15-00128
Natural Minor
Federal Tax Id - Plant Code: 23-2855315-2

Owner Information

Name: BRANDYWINE GREEN LLC
Mailing Address: 126 TURNER LN
WEST CHESTER, PA 19380-4563

Plant Information

Plant: BRANDYWINE GREEN LLC/DBA ABBEY GLENN
Location: 15 Chester County 15963 West Goshen Township
SIC Code: 7261 Services - Funeral Service And Crematories

Operator

Name: MATT POWERS [If different from owner]
Mailing Address: 126 TURNER LN
WEST CHESTER, PA 19380-4563

Responsible Official

Name: DREW FRASER
Title: SVP OPERATIONS
Phone: (647) 466 - 0116 Email: dfraser@gatewayservicesinc.com

Permit Contact Person

Name: EMILY LARKIN
Title: ENV PERMIT MNGR
Phone: (301) 337 - 0553 Email: elarkin@gatewayservicesinc.com

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

SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Site Inventory List

Section B. General State Only Requirements

#001 Definitions.
#002 Operating Permit Duration.
#003 Permit Renewal.
#004 Operating Permit Fees under Subchapter F.
#005 Transfer of Operating Permits.
#006 Inspection and Entry.
#007 Compliance Requirements.
#008 Need to Halt or Reduce Activity Not a Defense.
#009 Duty to Provide Information.
#010 Revising an Operating Permit for Cause.
#011 Operating Permit Modifications
#012 Severability Clause.
#013 De Minimis Emission Increases.
#014 Operational Flexibility.
#015 Reactivation of Sources
#016 Health Risk-based Emission Standards and Operating Practice Requirements.
#017 Circumvention.
#018 Reporting Requirements.
#019 Sampling, Testing and Monitoring Procedures.
#020 Recordkeeping.
#021 Property Rights.
#022 Alternative Operating Scenarios.
#023 Prohibition of Air Pollution
#024 Reporting
#025 Report Format

Section C. Site Level State Only Requirements

C-I: Restrictions
C-II: Testing Requirements
C-III: Monitoring Requirements
C-IV: Recordkeeping Requirements
C-V: Reporting Requirements
C-VI: Work Practice Standards
C-VII: Additional Requirements
C-VIII: Compliance Certification
C-IX: Compliance Schedule

Section D. Source Level State Only Requirements

D-I: Restrictions
D-II: Testing Requirements
D-III: Monitoring Requirements
D-IV: Recordkeeping Requirements
D-V: Reporting Requirements
D-VI: Work Practice Standards
D-VII: Additional Requirements

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

Section E. Source Group Restrictions

SECTION A. Table of Contents

E-I: Restrictions
E-II: Testing Requirements
E-III: Monitoring Requirements
E-IV: Recordkeeping Requirements
E-V: Reporting Requirements
E-VI: Work Practice Standards
E-VII: Additional Requirements

Section F. Alternative Operating Scenario(s)

F-I: Restrictions
F-II: Testing Requirements
F-III: Monitoring Requirements
F-IV: Recordkeeping Requirements
F-V: Reporting Requirements
F-VI: Work Practice Standards
F-VII: Additional Requirements

Section G. Emission Restriction Summary

Section H. Miscellaneous

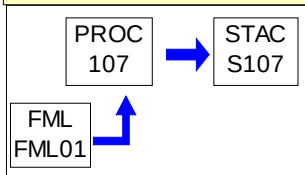
SECTION A. Site Inventory List

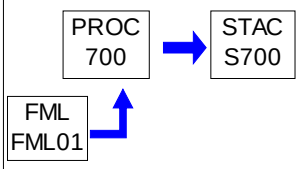
Source ID	Source Name	Capacity/Throughput		Fuel/Material
101	ONE (1) CRAWFORD ANIMAL CREMATORIUM	4,854.000	CF/HR	Natural Gas
		450.000	Lbs/HR	ANIMAL BODIES
102	EPA TECH ANIMAL CREMATORIUM	2,718.000	CF/HR	Natural Gas
		130.000	Lbs/HR	ANIMAL BODIES
104	EPA TECH 6-CELL CREMATION UNIT	5.830	MCF/HR	Natural Gas
		489.000	Lbs/HR	ANIMAL BODIES
105	THREE (3) B&L CREMATORIES	17,647.050	CF/HR	Natural Gas
		750.000	Lbs/HR	ANIMAL BODIES
107	THERM TEC G50P	8,156.000	CF/HR	Natural Gas
		450.000	Lbs/HR	ANIMAL BODIES
700	KOHLER EMRG GENERATOR 80KW	425.000	CF/HR	Natural Gas
FML01	NATURAL GAS			
S101	CRAWFORD STACK			
S102	EPA TECH STACK			
S104	EPA TECH 6-CELL UNIT STACK			
S105	THREE (3) B&L CREMATORY STACKS			
S107	THERM TEC G50P STACK			
S700	KOHLER EMRG GENERATOR 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)]

Permit Renewal.

(a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.

(b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

(c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.

(e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).

(f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]

Operating Permit Fees under Subchapter F.

(a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.

(1) For a synthetic minor facility, a fee equal to:

(i) Four thousand dollars ($4,000) for calendar years 2021—2025.

(ii) Five thousand dollars ($5,000) for calendar years 2026—2030.

(iii) Six thousand three hundred dollars ($6,300) for the calendar years beginning with 2031.

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

SECTION B. General State Only Requirements

(i) Two thousand dollars ($2,000) for calendar years 2021—2025.

(ii) Two thousand five hundred dollars ($2,500) for calendar years 2026—2030.

(iii) Three thousand one hundred dollars ($3,100) for the calendar years beginning with 2031.

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

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]

Transfer of Operating Permits.

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

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

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

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

Inspection and Entry.

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

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

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

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

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

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

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

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

Compliance Requirements.

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

(1) Enforcement action

SECTION B. General State Only Requirements

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

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

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

#008 [25 Pa. Code § 127.441]

Need to Halt or Reduce Activity Not a Defense.

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

#009 [25 Pa. Code §§ 127.442(a) & 127.461]

Duty to Provide Information.

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

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

#010 [25 Pa. Code § 127.461]

Revising an Operating Permit for Cause.

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

(1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.

(2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.

(4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]

Operating Permit Modifications

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

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

SECTION B. General State Only Requirements

precluded by the Clean Air Act or its regulations.

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

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

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

#012 [25 Pa. Code § 127.441]

Severability Clause.

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

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

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

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

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

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

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

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

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

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

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

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

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

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

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

SECTION B. General State Only Requirements

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

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

(e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]

Operational Flexibility.

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

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

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

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

SECTION B. General State Only Requirements

#015 [25 Pa. Code § 127.11a]

Reactivation of Sources

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

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

#016 [25 Pa. Code § 127.36]

Health Risk-based Emission Standards and Operating Practice Requirements.

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

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

#017 [25 Pa. Code § 121.9]

Circumvention.

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

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

Reporting Requirements.

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

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

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

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

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

(e) Any records, reports or information submitted to the Department shall be available to the public except for such records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

SECTION B. General State Only Requirements

#019 [25 Pa. Code §§ 127.441(c) & 135.5]

Sampling, Testing and Monitoring Procedures.

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

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

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

Recordkeeping.

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

(1) The date, place (as defined in the permit) and time of sampling or measurements.

(2) The dates the analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

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

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

#021 [25 Pa. Code § 127.441(a)]

Property Rights.

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

#022 [25 Pa. Code § 127.447]

Alternative Operating Scenarios.

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

#023 [25 Pa. Code § 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).

SECTION B. General State Only Requirements

#024 [25 Pa. Code §135.3]

Reporting

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

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

#025 [25 Pa. Code §135.4]

Report Format

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

SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §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, as specified in 25 Pa. Code § 129.14; and,

(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) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

 # 004 [25 Pa. Code §123.31]

Limitations

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

 # 005 [25 Pa. Code §129.14]

Open burning operations

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

(a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;

(b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;

(c) A fire set for the prevention and control of disease or pests, when approved by the Department;

SECTION C. Site Level Requirements

(d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;

(e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;

(f) A fire set solely for recreational or ceremonial purposes; or,

(g) A fire set solely for cooking food.

 # 006 [25 Pa. Code §123.41]

Limitations

The following opacity limitations apply to air contaminant sources at the facility, unless there is a more stringent limitation applicable to a specific source:

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

 # 007 [25 Pa. Code §123.42]

Exceptions

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

(a) When the presence of uncombined water is the only reason for failure to meet the limitations.

(b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

(c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions).

II. TESTING REQUIREMENTS.

 # 008 [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 operating permit may be in excess of the limitations specified in this operating 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 and the most current version of the DEP Source Testing Manual, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

III. MONITORING REQUIREMENTS.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the facility, once per operating day, for the following:

(1) Odors which may be objectionable (as per 25 Pa. Code §123.31);
(2) Visible Emissions (as per 25 Pa. Code §§123.41 and 123.42); and,
(3) Fugitive Particulate Matter (as per 25 Pa. Code §§ 123.1 and 123.2).

SECTION C. Site Level Requirements

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

(1) Be investigated;
(2) Be reported to the facility management, or individual(s) designated by the permittee;
(3) Have appropriate corrective action taken (for emissions that originate on-site); and,
(4) Be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly for the next six month period.

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or Department findings.

 # 010 [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; or,

(b) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

IV. RECORDKEEPING REQUIREMENTS.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

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

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(a) De minimus increases without notification to the Department;
(b) De minimus increases with notification to the Department, via letter;
(c) Increases resulting from a Request for Determination (RFD) to the Department; and
(d) Increases resulting from the issuance of a plan approval and subsequent operating permit.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Records required under this operating permit shall be maintained in a format acceptable to the Department and kept for a minimum of five (5) years. Records shall be made readily available to the Department upon request.

SECTION C. Site Level Requirements

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record and maintain records of the following sitewide emissions on a monthly basis and as a 12-month rolling sum: NOx, SOx, PM, CO, VOC, and HCl.

V. REPORTING REQUIREMENTS.

 # 015 [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 the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

SECTION C. Site Level Requirements

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

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

(c) The report shall describe the following:

(1) Name, permit or authorization number, and location of the facility;
(2) Nature and cause of the malfunction, emergency or incident;
(3) Date and time when the malfunction, emergency or incident was first observed;
(4) Expected duration of excess emissions;
(5) Estimated rate of emissions; and
(6) Corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

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

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

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

 # 017 [25 Pa. Code §135.3]

Reporting

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

(a) If the permittee has been previously advised by the Department to submit a source report, the permittee 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.

(b) 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.

SECTION C. Site Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in this operating 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.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

 # 021 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

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

(a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

(b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.

(c) Paving and maintenance of roadways.

(d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

VII. ADDITIONAL REQUIREMENTS.

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

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

SECTION D. Source Level Requirements

Source ID: 101 Source Name: ONE (1) CRAWFORD ANIMAL CREMATORIUM

Source Capacity/Throughput:	4,854.000	CF/HR	Natural Gas
	450.000	Lbs/HR	ANIMAL BODIES



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The emissions of filterable particulate matter (PM) from the Crawford crematory shall not exceed 0.08 gr/dscf, corrected to 7% oxygen.

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

Visible emissions from the Crawford crematory shall not equal or exceed:

(a) 10% for a period or periods aggregating more than three minutes in any hour; or
(b) 30% at any time.

 # 003 [25 Pa. Code §123.21]
General

Sulfur oxide (SOx) emissions from the Crawford crematory shall not exceed 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

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

(a) The Crawford animal crematory shall only burn natural gas as fuel, unless prior approval is received from the Department.

(b) Combined with the EPA Tech Crematory (Source ID 102), combustion of natural gas shall be limited to 62.082 MMcf of natural gas per 12-month rolling period.

Throughput Restriction(s).

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

The Crawford crematory shall not be used to cremate animal bodies whose weight exceeds 2,400 pounds.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §139.3]
General requirements.

Every 12 months, a tune-up shall be performed on each crematory combustion system, to ensure that burners are operating properly, while minimizing emissions. Tune-ups shall be perfomed as recommended by the manufacturer.

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the Crawford crematory unit, at least once per cremation cycle, for the following:

(1) Odors, which may be objectionable at a point on the property line downwind of the stack of the crematory unit.

(2) Visible emissions at the stack of the crematory unit, as observed with the sun located above and/or behind the observer.

(b) This source shall be equipped with an opacity sensor to alert the permittee when the opacity from this source reaches 10% (per EPA's Method 9).

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall install, maintain, and operate temperature monitors to measure the temperature at the exit from the primary combustion chamber and at the exit from the secondary chamber of the Crawford crematory. Sensors shall be located such that flames from the burners do not impinge on the sensors.

(b) The temperature monitor for the secondary chamber shall be installed such that the temperature is measured after a one (1) second retention time in the secondary chamber.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total fuel usage of the Crawford crematory and the EPA Tech Crematory (Source ID 102) shall be monitored on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of:

(a) Visible and odor emission observations and any corrective actions;

(b) The temperature of the primary and secondary combustion chamber during each cremation cycle on a continuous basis;

(c) The total amount of natural gas burned by the Crawford crematory and the EPA Tech Crematory (Source ID 102), on a monthly basis and as a 12-month rolling sum;

(d) The hours of operation;

(e) The number of cremations performed;

(f) Weight of each cremation;

(g) The date and times when the crematorium is stoked, as reflected on the temperature recording charts.

(h) Operator training certifications and training program content;

(i) Burner adjustments and maintenance;

(j) Thermocouple calibrations, adjustments and replacements; and

SECTION D. Source Level Requirements

(k) The removal from the body and proper disposal of any implanted electronic devices and potentially hazardous remedial devices (as discussed under Work Practice Requirements for this source).

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.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified technician shall adjust the burners at the appropriate times such as when the use of an approved fuel is initiated or when visible emissions are observed.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified training source shall provide adequate instruction to all operators of the Crawford crematory prior to an operator using the crematory. Training shall include hands-on control of the unit for at least two operating cycles. The training shall also include all of the following elements:

(a) Principles of combustion;

(b) Operating monitors and controls;

(c) Operating sequence under normal conditions;

(d) Safety and operating procedures under foreseeable upset conditions (e.g. power or fuel interruption, burner malfunction, visible emissions, high and low temperature incidents, etc);

(e) Regulatory requirements;

(f) Calibration, adjustment and replacement of thermocouples;

(g) Preventive maintenance practices and procedures and recommended frequency; and

(h) Recordkeeping requirements and procedures.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any time the Crawford animal crematorium is operated, a trained operator shall attend it for the full duration that the unit is in operation.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) If during an exhaust stack inspection it is determined that there are visible or odor emissions emanating from the stack, the permittee shall take immediate action to eliminate them; and

(b) If any visible or odor emissions are apparent after the corrective action, the crematory shall not start another cremation cycle until the permittee can verify compliance with the visible and odor emission limitations specified under Emission Restrictions for the Crawford crematory.

SECTION D. Source Level Requirements

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The Crawford crematory shall only cremate animal remains and the container used to transport the remains.

(b) The Crawford crematory shall not be used to dispose of any animals used for commercial or medical experimentation purposes.

(c) The Crawford crematory shall not be used to incinerate any other type of waste (e.g. hospital, medical, hazardous, chemotherapeutic, radioactive, etc.).

(d) During the cremation process, the secondary chamber of the Crawford crematory shall operate at a temperature of 1,600°F or greater, until the cremation process is completed.

(e) The owner or operator of the Crawford crematory must ensure that all medical devices (e.g. pacemakers, defibrillators, etc.) and potentially hazardous remedial devices (e.g. radioactive implants, etc.) have been removed from bodies and properly disposed of prior to cremation.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Crawford crematory shall be equipped with an interlock system on the manual loading door such that:

(a) The manual loading door cannot be opened when the hydraulic ram loader is in use.

(b) The primary chamber cannot be loaded unless the primary burner is off and the secondary chamber exit temperature is established and holding at 1,600 °F.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Crawford crematory shall be equipped with an interlock system on the hydraulic ram loader such that:

(a) The hydraulic ram loader cannot operate when the manual loading door is opened.

(b) Loading of the primary chamber cannot begin unless the primary burner is off, the waste hopper lid is closed, and the secondary chamber exit temperature is established and holding at 1,600 °F.

(c) Once the cremation cycle has begun, the primary burner may remain on until the cremation cycle is complete, including during periods when the hydraulic ram loader feeds animal bodies into the primary combustion chamber, as long as the crematory meets the conditions of paragraph (b), above.

(d) During the cremation cycle, animal bodies may only be loaded into the hydraulic ram loader through the waste hopper lid if the hydraulic door to the primary combustion chamber is closed. When animal bodies are loaded into the hydraulic ram loader during the cremation cycle, animal bodies may not be fed into the primary combustion chamber unless the crematory meets the conditions of paragraph (b), above.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee may open the loading door to the Crawford crematory unit during the cremation cycle to inspect and, if deemed necessary, reposition the charge. However, the permittee is still required to ensure that the crematory unit is operated in compliance with all terms and conditions specified in this operating permit, and that the emission of air contaminants from the crematory unit does not exceed any of the restrictions specified in this operating permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Article III.

(b) The permittee shall monitor the crematory unit for visible air contaminant emissions, via the opacity sensor of the

SECTION D. Source Level Requirements

crematory unit, whenever the loading door is opened for inspection and repositioning of the charge.

(c) The permittee shall ensure that the opacity sensor of the Crawford crematory unit is set to activate at 10% opacity.

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Crawford animal crematorium shall be operated and maintained in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID 101 consists of one (1) Crawford animal crematory, Model No. CB2400, with a maximum Safe Load Capacity of 2,400 pounds and a Rated Capacity of 450 pounds per hour.

(b) The Crawford crematory is equipped with a hydraulic ram loader that shall be operated in accordance with the requirements herein this operating permit.

(c) The primary chamber of the Crawford animal crematory is equipped with four (4) burners, Model type TJ0050, each rated 0.5 MMBtu/hr, each. The secondary chamber of the Crawford animal crematory is equipped with one (1) burner, Model type TJ0300, rated 3.0 MMBtu. The serial number is A-0704-625B-CB2400-00.

SECTION D. Source Level Requirements

Source ID: 102 Source Name: EPA TECH ANIMAL CREMATORIUM

Source Capacity/Throughput:	2,718.000	CF/HR	Natural Gas
	130.000	Lbs/HR	ANIMAL BODIES



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emissions of filterable particulate matter (PM) from the EPA Tech Crematory shall not exceed 0.08 gr/dscf, corrected to 7% oxygen.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Visible emissions from the EPA Tech Crematory shall not equal or exceed:

(a) 10% for a period or periods aggregating more than three minutes in any hour; or
(b) 30% at any time.

 # 003 [25 Pa. Code §123.21]

General

Sulfur oxide (SOx) emissions from the EPA Tech Crematory shall not exceed 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The EPA Tech Crematory shall only burn natural gas as fuel, unless prior approval is received from the Department.

(b) Combined with the Crawford crematory (Source ID 101), combustion of natural gas shall be limited to 62.082 MMcf of natural gas per 12-month rolling period.

Throughput Restriction(s).

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The EPA Tech Crematory shall not be used to cremate animal bodies whose weight exceeds 300 pounds.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §139.3]

General requirements.

Every 12 months, a tune-up shall be performed on the EPA Tech Crematory combustion system, to ensure that burners are operating properly, while minimizing emissions. Tune-ups shall be perfomed as recommended by the manufacturer.

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor this crematory unit, at least once per cremation cycle, for the following:

(1) Odors, which may be objectionable at a point on the property line downwind of the stack of the crematory unit.

(2) Visible emissions at the stack of the crematory unit, as observed with the sun located above and/or behind the observer.

(b) This source shall be equipped with an opacity sensor to alert the permittee when the opacity from this source reaches 10% (per EPA's Method 9).

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall install, maintain, and operate temperature monitors to measure the temperature at the exit from the primary combustion chamber and at the exit from the secondary chamber of each crematory. Sensors shall be located such that flames from the burners do not impinge on the sensors.

(b) The temperature monitor for the secondary chamber shall be installed such that the temperature is measured after a one (1) second retention time in the secondary chamber.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total fuel usage of the EPA Tech Crematory and the Crawford crematory (Source ID 101) shall be monitored on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of:

(a) Visible and odor emission observations and any corrective actions;

(b) The temperature of the primary and secondary combustion chamber during each cremation cycle on a continuous basis;

(c) The total amount of natural gas burned by the EPA Tech Crematory and the Crawford crematory (Source ID 101), on a monthly basis and as a 12-month rolling sum;

(d) The hours of operation;

(e) The number of cremations performed;

(f) Weight of each cremation;

(g) The starting and ending times of each period of time that the loading door is opened for inspection and repositioning of the charge.

(h) The lowest secondary combustion chamber temperature during each period of time that the loading door is opened for inspection and repositioning of the charge.

(i) Operator training certifications and training program content;

SECTION D. Source Level Requirements

(j) Burner adjustments and maintenance;

(k) Thermocouple calibrations, adjustments and replacements; and

(l) The removal from the body and proper disposal of any implanted electronic devices and potentially hazardous remedial devices (as discussed under Work Practice Requirements for this source).

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.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified technician shall adjust the burners at the appropriate times such as when the use of an approved fuel is initiated or when visible emissions are observed.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified training source shall provide adequate instruction to all operators of the EPA Tech Crematory prior to an operator using the crematory. Training shall include hands-on control of the unit for at least two operating cycles. The training shall also include all of the following elements:

(a) Principles of combustion;

(b) Operating monitors and controls;

(c) Operating sequence under normal conditions;

(d) Safety and operating procedures under foreseeable upset conditions (e.g. power or fuel interruption, burner malfunction, visible emissions, high and low temperature incidents, etc);

(e) Regulatory requirements;

(f) Calibration, adjustment and replacement of thermocouples;

(g) Preventive maintenance practices and procedures and recommended frequency; and

(h) Recordkeeping requirements and procedures.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any time the EPA Tech Crematory is operated, a trained operator shall attend it for the full duration that the unit is in operation.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) If during an exhaust stack inspection it is determined that there are visible or odor emissions emanating from the stack, the permittee shall take immediate action to eliminate them; and,

SECTION D. Source Level Requirements

(b) If any visible or odor emissions are apparent after the corrective action, the crematory shall not start another cremation cycle until the permittee can verify compliance with the visible and odor emission limitations specified under Emission Restrictions for the EPA Tech Crematory.

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The EPA Tech Crematory shall only cremate animal remains and the container used to transport the remains.

(b) The EPA Tech Crematory shall not be used to dispose of any animals used for commercial or medical experimentation purposes.

(c) The EPA Tech Crematory shall not be used to incinerate any other type of waste (e.g. hospital, medical, hazardous, chemotherapeutic, radioactive, etc.).

(d) During the cremation process, the secondary chamber of the EPA Tech Crematory shall operate at a temperature of 1,600 °F or greater, until the cremation process is completed.

(e) The EPA Tech Crematory shall be equipped with an interlock system that precludes charging of the primary chamber until the secondary chamber exit temperature is established and holding at 1,600 °F.

(f) The owner or operator of the EPA Tech Crematory must ensure that all medical devices (e.g. pacemakers, defibrillators, etc.) and potentially hazardous remedial devices (e.g. radioactive implants, etc.) have been removed from bodies and properly disposed of prior to cremation.

(g) The permittee may open the loading door to this crematory unit during the cremation cycle to inspect and, if deemed necessary, reposition the charge. However, the permittee is still required to ensure that the crematory unit is operated in compliance with all terms and conditions specified in this operating permit, and that the emission of air contaminants from the crematory unit does not exceed any of the restrictions specified in this operating permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Article III.

(1) The permittee shall monitor the crematory unit for visible air contaminant emissions, via the opacity sensor of the crematory unit, whenever the loading door is opened for inspection and repositioning of the charge.

(2) The permittee shall ensure that the opacity sensor of this crematory unit is set to activate at 10% opacity.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The EPA Tech Crematory shall be operated and maintained in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID 102 is a 130 lbr/hr crematorium, manufactured by EPA Technologies, Model PM130.

(b) The primary chamber is equipped with a Therm Jet burner rated at 0.5 MMBtu/hr, Model type TJ0050. The secondary chamber is equipped with a Therm Jet burner rated at 2.0 MMBtu/hr, Model type TJ0200.

(c) This crematorium has a serial number PM130-004010905108130 HNGOCS.

SECTION D. Source Level Requirements

Source ID: 104 Source Name: EPA TECH 6-CELL CREMATION UNIT

Source Capacity/Throughput:	5.830	MCF/HR	Natural Gas
	489.000	Lbs/HR	ANIMAL BODIES



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.21]

General

Sulfur oxide (SOx) emissions from the EPA Tech 6-cell Cremation Unit shall not exceed 500 parts per million, by volume, dry basis.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emissions of filterable particulate matter (PM) from the EPA Tech 6-cell Cremation Unit shall not exceed 0.08 gr/dscf, corrected to 7% oxygen.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Visible emissions from the EPA Tech 6-cell Cremation Unit shall not equal or exceed:

(a) 10% for a period or periods aggregating more than three minutes in any hour; or
(b) 30% at any time.

Fuel Restriction(s).

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The EPA Tech 6-cell Cremation Unit shall only burn natural gas as fuel, unless prior approval is received from the Department.

Throughput Restriction(s).

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The average daily burn rate of the EPA Tech 6-cell Cremation Unit shall not exceed 489 lbs/hr.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §139.3]

General requirements.

Every 12 months, a tune-up shall be performed on each crematory combustion system, to ensure that burners are operating properly, while minimizing emissions. Tune-ups shall be perfomed as recommended by the manufacturer.

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall install, maintain, and operate temperature monitors to continuously measure the temperature at the exit from the primary combustion chambers and at the exit from the secondary chamber of the crematory. Sensors shall be located such that flames from the burners do not impinge on the sensors.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor this crematory unit, at least once per cremation cycle, for the following:

(a) Odors, which may be objectionable at a point on the property line downwind of the stack of the crematory unit.

(b) Visible emissions at the stack of the crematory unit, as observed with the sun located above and/or behind the observer.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The fuel usage of the EPA Tech 6-cell Cremation Unit shall be monitored on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of:

(a) Visible emission observations and any corrective actions;

(b) The temperature of the primary and secondary combustion chambers during each cremation cycle on a continuous basis;

(c) The amount and type of fuel used on a monthly basis;

(d) The hours of operation;

(e) The number of cremations performed;

(f) The weight of each cremation;

(g) Operator training certifications and training program content;

(h) Burner adjustments and maintenance;

(i) Thermocouple calibrations, adjustments and replacements; and,

(j) The removal from the body and proper disposal of any implanted electronic devices and potentially hazardous remedial devices.

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.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The EPA Tech 6-cell Cremation Unit shall be:

(1) Operated and maintained in a manner consistent with good operating and maintenance practices.

(2) Attended by a trained operator at all times when the unit is in operation.

(3) Operated and maintained in accordance with the manufacturer's specifications.

(4) Designed to provide sufficient secondary chamber volume to maintain the exhaust gases at 1,800º Fahrenheit for at least one second.

(5) Observed by a trained operator for stack emissions.

(b) The permittee shall observe the exhaust stack of the crematory at least once during each cremation cycle for the presence of visible and odor emissions. Stack observations are to be qualitative observations establishing the absence or presence of visible and odor emissions. If these observations confirm that there are no visible and no odor emissions from the crematory during each cremation cycle, this shall be deemed to establish compliance with the applicable visible and odor emission limits. If any visible or odor emissions are apparent, the permittee shall take immediate action to eliminate them. If any visible or odor emissions are apparent after the corrective action, the crematory shall not start another cremation cycle until the permittee can verify compliance with the visible emission limitations specified herein this operating permit through methods prescribed in 25 Pa. Code § 123.43, such as Method 9 readings taken by a certified visible emissions reader.

(c) As an alternative to the stack emission observations, the permittee may install and operate an opacity monitoring device, provided that the device is maintained in accordance with the manufacturer's recommendations and the operator is instructed in the proper operation and maintenance of the opacity monitoring device as part of the operator training program, as required per this operating permit. The operator must observe the output readings during each cremation cycle, and readings in excess of the applicable limitations identified herein this operating permit shall be addressed in the same manner as the visual stack observations.

(d) If nighttime operation of the crematory is to occur, adequate artificial lighting of the plume at the stack outlet must be provided to enable observations of stack emissions to occur at night.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified training source shall provide adequate instruction to all operators of each new crematory and to new operators of existing crematories including hands-on control of the unit for at least two operating cycles. The training shall include all of the following elements:

(a) Principles of combustion;

(b) Operating monitors and controls;

(c) Operating sequence under normal conditions;

(d) Safety and operating procedures under foreseeable upset conditions (e.g. power or fuel interruption, burner malfunction, visible emissions, high and low temperature incidents, etc);

(e) Regulatory requirements;

(f) Calibration, adjustment and replacement of thermocouples;

SECTION D. Source Level Requirements

(g) Preventive maintenance practices and procedures and recommended frequency; and,

(h) Recordkeeping requirements and procedures.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The crematory shall be equipped with an interlock system that precludes charging of the primary chambers until the secondary chamber exit temperature is established and holding at 1,600 °F.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified technician shall adjust the burners at the appropriate times such as when the use of an approved fuel is initiated or when visible emissions are observed.

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The EPA Tech 6-cell Cremation Unit shall only cremate animal remains and the container used to transport the remains.

(b) The EPA Tech 6-cell Cremation Unit shall not be used to dispose of any animals used for commercial or medical experimentation purposes.

(c) The EPA Tech 6-cell Cremation Unit shall not be used to incinerate any other type of waste (e.g. hospital, medical, hazardous, chemotherapeutic, radioactive, etc.).

(d) The owner or operator of the EPA Tech 6-cell Cremation Unit must ensure that all medical devices (e.g. pacemakers, defibrillators, etc.) and potentially hazardous remedial devices (e.g. radioactive implants, etc.) have been removed from bodies and properly disposed of prior to cremation.

VII. ADDITIONAL REQUIREMENTS.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) This source is an animal crematorium, having six (6) multiple chambers (“cells”), with a total cremation rate of 489 pounds per hour (lb/hr).

(b) The following are specifications for this unit:

Manufacturer:	EPA Technologies, LLC
Model No.:	EPAT6PCC3.0
Serial No.:	0048-0718-009-6PCC-3.0-NG-OCS
Primary Burner:	One (1) burner per cell, 0.50 MMBtu/hr (per cell)
Secondary Burner:	One (1) burner, 3.0 MMBtu/hr

SECTION D. Source Level Requirements

Source ID: 105 Source Name: THREE (3) B&L CREMATORIES

Source Capacity/Throughput:	17,647.050	CF/HR	Natural Gas
	750.000	Lbs/HR	ANIMAL BODIES



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this plan approval condition is also derived from 25 Pa. Code § 127.1]

The emissions of filterable particulate matter (PM) from the B&L crematoriums shall not exceed 0.08 gr/dscf, corrected to 7% oxygen.

[Compliance with this streamlined condition also assures compliance with 25 Pa. Code § 123.12]

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this plan approval condition is also derived from 25 Pa. Code §§ 123.41, 123.42, and 127.1]

(a) The permittee may not permit the emission into the outdoor atmosphere of visible air contaminants from the B&L crematoriums in such a manner that the opacity of the emission is either of the following:

(1) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour.

(2) Equal to or greater than 30% at any time.

(b) The emission restrictions specified in paragraph (a), above, shall not apply to a visible air contaminant emission in either of the following instances:

(1) When the presence of uncombined water is the only reason for failure of the emission to meet the restrictions.

(2) When the emission results from a source specified in Condition #002 of Section C of this plan approval.

[Compliance with this streamlined condition assures compliance with 25 Pa. Code § 123.41]

 # 003 [25 Pa. Code §123.21]

General

Sulfur oxide (SOx) emissions shall not exceed 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The B&L crematoriums shall only burn natural gas as fuel, unless prior approval is received from the Department.

SECTION D. Source Level Requirements

Throughput Restriction(s).

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

The permittee shall ensure that the incineration rate (i.e., the weight of the charge divided by the duration) of each cremation cycle does not exceed 250 lbs/hr.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §139.3]
General requirements.

Every 12 months, a tune-up shall be performed on the combustion system, to ensure that burners are operating properly, while minimizing emissions. Tune-ups shall be perfomed as recommended by the manufacturer.

III. MONITORING REQUIREMENTS.

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

(a) The permittee shall monitor each crematory unit, at least once per cremation cycle, for the following:

(1) Odors, which may be objectionable at a point on the property line downwind of the stack of the crematory unit.

(2) Visible emissions at the stack of the crematory unit, as observed with the sun located above and/or behind the observer.

(b) The B&L crematoriums shall each be equipped with an opacity sensor to alert the permittee when the opacity in the stack reaches 10% (per EPA's Method 9).

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

(a) The B&L crematories shall be equipped with thermocouples that continuously measure the temperature in the primary combustion chamber and in the secondary chamber. Sensors shall be located such that flames from the burners do not impinge on the sensors. The monitoring device(s) shall monitor a minimum temperature range of 0 °F to 2,250 °F.

(b) The temperature monitor for the secondary chamber shall be installed such that the temperature is measured 59.5 ft3 downstream from the secondary burner, providing a one (1) second retention time in the secondary chamber.

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

The B&L crematories shall each be equipped with a fuel gauge to monitor total fuel usage from each crematorium on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

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

(a) The permittee shall maintain records of all operator training performed for the B&L crematory units, including operator training certifications and training program content.

(b) The permittee shall maintain records of all maintenance (i.e., routine and/or preventative maintenance, repairs, adjustments, parts replacements, calibrations, etc.) performed on the B&L crematory units. These records shall contain, at a minimum, the following:

SECTION D. Source Level Requirements

(1) The date of the maintenance.
(2) The type of maintenance performed.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of:

(a) Visible and odor emission observations and any corrective actions;

(b) The total amount of natural gas burned by each crematorium, on a monthly basis;

(c) The duration, in minutes or hours, of each cremation cycle, including starting and ending times to the nearest minute;

(d) The weight of the charge (pounds) before each cremation cycle;

(e) The incineration rate, in lbs/hr, of each cremation cycle;

(f) The starting and ending times (to the nearest second) of each period of time that the loading door is opened for inspection and repositioning of the charge;

(g) The lowest secondary combustion chamber temperature (°F) during each period of time that the loading door is opened for inspection and repositioning of the charge (from the digital display);

(h) Burner adjustments and maintenance;

(i) Thermocouple calibrations, adjustments and replacements; and

(j) The removal from the body and proper disposal of any implanted electronic devices and potentially hazardous remedial devices (as discussed under Work Practice Requirements for this source), on a per charge basis.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain and make available upon request by the Department a copy of the manufacturers' specifications for the B&L crematory units and any associated air pollution control device(s).

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The temperature recording device for these crematory units shall continuously record both the primary and secondary combustion chamber temperatures during each cremation cycle over the entire temperature range of 0 °F to 2,250 °F.

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.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified technician shall adjust the burners at the appropriate times such as when the use of an approved fuel is initiated or when visible emissions are observed.

SECTION D. Source Level Requirements

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified training source shall provide adequate instruction to all operators of the B&L crematory units prior to an operator using the crematory units. Training shall include hands-on control of the unit for at least two operating cycles. The training shall also include all of the following elements:

(a) Principles of combustion;

(b) Operating monitors and controls;

(c) Operating sequence under normal conditions;

(d) Safety and operating procedures under foreseeable upset conditions (e.g. power or fuel interruption, burner malfunction, visible emissions, high and low temperature incidents, etc);

(e) Regulatory requirements;

(f) Calibration, adjustment and replacement of thermocouples;

(g) Preventive maintenance practices and procedures and recommended frequency; and

(h) Recordkeeping requirements and procedures.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Any time a B&L crenatory unit is operated, a trained operator shall attend it for the full duration that the unit is in operation.

(b) The crematory unit shall be operated in such a way to ensure that exhaust gases are retained within the secondary chamber for at least one second at 1,600 °F.

(c) The crematory shall be equipped with an interlock system that precludes charging of the primary chambers until the secondary chamber exit temperature is established and holding at 1,600 °F.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) If during an exhaust stack inspection it is determined that there are visible or odor emissions emanating from the stack, the permittee shall take immediate action to eliminate them; and,

(b) If any visible or odor emissions are apparent after the corrective action, the crematory shall not start another cremation cycle until the permittee can verify compliance with the visible and odor emission limitations specified under Emission Restrictions for this source.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The B&L crematories shall only cremate animal remains and the container used to transport the remains.

(b) The B&L crematories shall not be used to dispose of any animals used for commercial or medical experimentation purposes.

(c) The B&L crematories shall not be used to incinerate any other type of waste (e.g. municipal, hospital, medical, hazardous,
chemotherapeutic, radioactive, etc.).

SECTION D. Source Level Requirements

(d) During the cremation process, the secondary chamber of the B&L crematories shall operate at a temperature of 1800°F or greater, until the cremation process in all six (6) chambers is completed.

(e) The owner or operator of the B&L crematories must ensure that all medical devices (e.g. pacemakers, defibrillators, etc.) and potentially hazardous remedial devices (e.g. radioactive implants, etc.) have been removed from bodies and properly disposed of prior to cremation.

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The B&L crematory units shall be operated and maintained in accordance with the manufacturer's specifications.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee may open the loading door to the a crematory unit during the cremation cycle to inspect and, if deemed necessary, reposition the charge, on the condition that the requirements of paragraphs (b) and (c), below, are met. The permittee is still required to ensure that the crematory unit is operated in compliance with all terms and conditions specified in this operating permit, and that the emission of air contaminants from the crematory unit does not exceed any of the restrictions specified in this operating permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Article III.

(b) The permittee shall monitor the crematory unit for visible air contaminant emissions, via the opacity sensor of the crematory unit, whenever the loading door is opened for inspection and repositioning of the charge.

(c) The permittee shall ensure that the opacity sensor of this crematory unit is set to activate an alarm at 10% opacity.

VII. ADDITIONAL REQUIREMENTS.

 # 021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID 105 consists of three (3) B&L Crematories manufactured by B&L Cremation Systems Incorporated, Model Number BLP1000M6. Each B&L crematory is a six (6) celled unit with a maximum rate of 250 lb/hr.

(b) The primary chamber for each B&L Crematory is divided into six (6) cells, equipped with the following burners:

(1) Four (4) burners, Model type TJ050, each rated 0.5 MMBtu/hr, each.
(2) Two (2) burners, Model type TJ075, each rated 0.75 MMBtu/hr, each.

(c) The secondary chamber for each B&L Crematory is equipped with one (1) burner, Model type TJ200, rated 2.0 MMBtu/hr.

(d) The following are serial numbers for each unit:

(1) Unit 1 - 1952-1735-21
(2) Unit 2 - 2024-1087-21
(3) Unit 3 - 2023-1806-21

SECTION D. Source Level Requirements

Source ID: 107 Source Name: THERM TEC G50P

Source Capacity/Throughput:	8,156.000	CF/HR	Natural Gas
	450.000	Lbs/HR	ANIMAL BODIES



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The emissions of filterable particulate matter (PM) from this source shall not exceed 0.08 gr/dscf, corrected to 7% oxygen.

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

Visible emissions from this crematory shall not exceed:

(a) 10% for a period or periods aggregating more than three minutes in any hour; or
(b) 30% at any time.

 # 003 [25 Pa. Code §123.21]
General

Sulfur oxide (SOx) emissions from this source shall not exceed 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

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

(a) This source shall only burn natural gas as fuel, unless prior approval is received from the Department.

(b) Combustion of natural gas shall be limited to 30.006 MMcf of natural gas per 12-month rolling period.

Throughput Restriction(s).

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

(a) This crematory shall not be used to cremate animal bodies whose weight exceeds 5,000 pounds.

(b) Upon startup and shakedown of the crematory, the permittee shall limit the operation of the crematory to 150 lbs/hr until either:

(1) The crematory can be tested at a higher throughput rate; or,

(2) The permittee can provide a copy of a stack test performed on the same make and model unit operating at or near 450 lbs/hr, and complying with applicable limits.

SECTION D. Source Level Requirements

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §139.3]

General requirements.

(a) If the permittee intends to operate this crematory at a rate greater than 150 lbs/hr, and the permittee is not able to provide stack testing results for the same make and model crematory at a higher throughput rate that complies with the applicable particulate matter emission limitation, then the permittee shall perform stack testing at or near the rate at which the permittee would like to operate at.

(b) Stack testing shall be performed in accordance with the provisions of Chapter 139 to show compliance to a filterable PM emission limit of 0.08 gr/dscf, corrected to 7% oxygen. Compliance shall be determined using EPA's Method 5.

(c) At least sixty (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

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

(e) During the stack test, the crematory unit shall be operating at a minimum of 90 percent of maximum capacity, or greater. Additionally, the following information shall be documented during the stack test at 15 minute intervals, include at the beginning of each test run and at the end of each test run:

(1) Amount of animal bodies and remains in the crematorium.
(2) Time of operation of the crematorium.
(3) Temperatures in the primary and secondary chamber.
(4) Times when doors are opened for stoking or changing out a load.

(f) Within thirty (30) days after the source test(s), the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

 # 007 [25 Pa. Code §139.3]

General requirements.

A tune-up shall be performed at least every 12 months on each crematory combustion system, to ensure that burners are operating properly, while minimizing emissions. Tune-ups shall be performed as recommended by the manufacturer.

III. MONITORING REQUIREMENTS.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor this crematory unit, at least once per cremation cycle, for the following:

(a) Odors, which may be objectionable at a point on the property line downwind of the stack of the crematory unit.

(b) Visible emissions at the stack of the crematory unit, as observed with the sun located above and/or behind the observer.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall install, maintain, and operate temperature monitors to measure the temperature at the exit from the primary combustion chamber and at the exit from the secondary chamber. Sensors shall be located such that flames from the burners do not impinge on the sensors.

(b) The temperature monitor for the secondary chamber shall be installed such that the temperature is measured after a one (1) second retention time in the secondary chamber. Based on the designs in the application, the thermocouple should be placed at a minimum distance of 4 feet from the secondary chamber.

SECTION D. Source Level Requirements

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This cremation unit shall be equipped with a fuel gauge to track and monitor the total fuel usage on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of:

(a) Visible and odor emission observations, per each cremation, and any corrective actions;

(b) The temperature of the primary and secondary combustion chamber during each cremation cycle on a continuous basis;

(c) The total amount of natural gas burned by the crematory, on a monthly basis and as a 12-month rolling sum;

(d) The number of cremations performed;

(e) Weight of each cremation and the number of hours of the cremation syscle;

(f) The incineration rate, in lbs/hr, of each cremation cycle;

(g) The date, times, and duration for each time the crematory is stoked.

(h) Operator training certifications and training program content;

(i) Burner adjustments and maintenance;

(j) Thermocouple calibrations, adjustments and replacements; and

(k) The removal from the body and proper disposal of any implanted electronic devices and potentially hazardous remedial devices (as discussed under Work Practice Requirements for this source).

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 manufacturer's representative or another qualified technician shall adjust the burners at the appropriate times such as when the use of an approved fuel is initiated or when visible emissions are observed.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The manufacturer's representative or another qualified training source shall provide adequate instruction to all operators of each crematory prior to an operator using the crematory. Training shall include hands-on control of the unit for at least two operating cycles. The training shall also include all of the following elements:

SECTION D. Source Level Requirements

(a) Principles of combustion;

(b) Operating monitors and controls;

(c) Operating sequence under normal conditions;

(d) Safety and operating procedures under foreseeable upset conditions (e.g. power or fuel interruption, burner malfunction, visible emissions, high and low temperature incidents, etc);

(e) Regulatory requirements;

(f) Calibration, adjustment and replacement of thermocouples;

(g) Preventive maintenance practices and procedures and recommended frequency; and

(h) Recordkeeping requirements and procedures.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any time an animal crematorium is operated, a trained operator shall attend it for the full duration that the unit is in operation.

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) If during an exhaust stack inspection it is determined that there are visible or odor emissions emanating from the stack, the permittee shall take immediate action to eliminate them; and

(b) If any visible or odor emissions are apparent after the corrective action, the crematory shall not start another cremation cycle until the permittee can verify compliance with the visible and odor emission limitations specified under Emission Restrictions for this crematory.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) This source shall only cremate animal remains and the container used to transport the remains.

(b) This source shall not be used to dispose of any animals used for commercial or medical experimentation purposes.

(c) This source shall not be used to incinerate any other type of waste (e.g. hospital, medical, hazardous, chemotherapeutic, radioactive, etc.).

(d) During the cremation process, the secondary chamber shall operate at a minimum temperature of 1,600°F or greater, until the cremation process is completed.

(e) The owner or operator shall ensure that all medical devices (e.g. pacemakers, defibrillators, etc.) and potentially hazardous remedial devices (e.g. radioactive implants, etc.) have been removed from bodies and properly disposed of prior to cremation.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additonal authority for this permit condition is derived from the Crematory Regulation Act (35 P.S. §§ 1124-1129)]

The crematory shall be equipped with interlock system that precludes charging of the primary chamber until the secondary (or last) chamber exit temperature is established and holding at 1,600°F.

SECTION D. Source Level Requirements

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee may open the loading door to this crematory unit during the cremation cycle to inspect and, if deemed necessary, reposition the charge. However, the permittee is still required to ensure that the crematory unit is operated in compliance with all terms and conditions specified in this operating permit, and that the emission of air contaminants from the crematory unit does not exceed any of the restrictions specified in this operating permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Article III.

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The crematory shall be operated and maintained in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID 107 is a Therm Tec crematory, Model No. G-50-P-1, with a maximum Safe Load Capacity of 5,000 pounds and a Rated Capacity of 450 pounds per hour. The serial number is 120096256.

(b) The primary chamber is equipped with one (1) burner, rated 4.2 MMBtu/hr. The secondary chamber is equipped with two (2) burners, each rated 2.1 MMBtu.

SECTION D. Source Level Requirements

Source ID: 700 Source Name: KOHLER EMRG GENERATOR 80KW

Source Capacity/Throughput: 425.000 CF/HR Natural Gas



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

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

 # 002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from this source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 ppmvd.

Operation Hours Restriction(s).

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) This unit shall not be operated for peak shaving, emergency demand response, periods where there is a deviation of voltage or frequency, or to supply power as part of a financial arrangement.

(b) This unit shall comply with all requirements of 40 CFR § 63.6640(f), such that it meets the definition of an emergency generator.

(c) Compliance with paragraphs (a) and (b) deem this unit exempt from 40 CFR Part 63, Subpart ZZZZ, on the basis of 40 CFR § 63.6585(f)(2).

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, when in operation:

(a) The hours of operation; and,
(b) The amount of fuel used.

SECTION D. Source Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following, when in operation:

(a) The hours of operation; and,
(b) The amount of fuel used.

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.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This emergency generator shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 700 is an 80-kW natural gas-fired emergency generator, manufactured in March 2007 by Kohler/Power Systems, Model 80RZG.

SECTION E. Source Group Restrictions.

SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

SECTION G. Emission Restriction Summary.

Source Id	Source Description
101	ONE (1) CRAWFORD ANIMAL CREMATORIUM

Emission Limit			Pollutant
500.000	PPMV	Determined on a dry basis	SOX
0.080	gr/DRY FT3	Filterable PM only	TSP

Source Id	Source Description
102	EPA TECH ANIMAL CREMATORIUM

Emission Limit			Pollutant
500.000	PPMV	Determined on a dry basis	SOX
0.080	gr/DRY FT3	Filterable PM only	TSP

Source Id	Source Description
104	EPA TECH 6-CELL CREMATION UNIT

Emission Limit			Pollutant
500.000	PPMV	Determined on a dry basis	SOX
0.080	gr/DRY FT3	Filterable PM only	TSP

Source Id	Source Description
105	THREE (3) B&L CREMATORIES

Emission Limit			Pollutant
500.000	PPMV	Determined on a dry basis	SOX
0.080	gr/DRY FT3	Filterable PM only	TSP

Source Id	Source Description
107	THERM TEC G50P

Emission Limit			Pollutant
500.000	PPMV	Determined on a dry basis	SOX
0.080	gr/DRY FT3	Filterable PM only	TSP

Source Id	Source Description
700	KOHLER EMRG GENERATOR 80KW

Emission Limit			Pollutant
500.000	PPMV	Determined on a dry basis	SOX
0.040	gr/DRY FT3	Filterable PM only	TSP

Site Emission Restriction Summary

Emission Limit	Pollutant

SECTION H. Miscellaneous.

(a) Plan Approval No. 09-0128 serves as the basis for certain terms and conditions set forth in this operating permit.

(b) This State Only Operating Permit (APS No.: 701133, AUTH ID: 1022604) has been renewed for another 5-year term.

(1) This State Only Operating Permit incorporates Request for Determination No. 5012, for the installation and operation of Source ID 103.

(2) Per this operating permit, the following source has been deemed an insignificant source, exempt from a Plan Approval: One (1) Modine gas heater, Model HD100, with a maximum heating value of 100,000 Btu/hr.

(c) This State Only Operating Permit (APS No.: 1004446, AUTH ID: 1293276) has been renewed for another 5-year term.

(1) This State Only Operating Permit incorporates General Permit No. GP14-15-0034, for the installation and operation of Source ID 104.

(2) Per this operating permit, two (2) of the Crawford cremation units have been removed. Instead of four (4) units, there are now only two (2) units. Refer to Source ID 101.

(3) Per this operating permit, the HPR 260 Plasma Cutter (Source ID 103) and the ZEP Dyna Clean Parts Washer (Source ID 200) have been removed.

(d) This State Only Operating Permit (APS No.: 1004446, AUTH ID: 1388406) has been amended to incorporate Plan Approval No. 15-0128A. Per the amendment:

(1) Source ID 101 has been changed to reflect that the number of Crawford units has been reduced from four (4) units to two (2) units.

(2) The facility is no longer considered a Synthetic Minor for HAP, specifically HCl. The facility is now deemed a Natural Minor facility. The throughput restriction implemented under Plan Approval No. 15-0128A has been removed.

(e) This State Only Operating Permit (APS No.: 1004446, AUTH ID: 1586226) has been renewed for another 5-year term. This permit renewal:

(1) Incorporates Plan Approval No. 15-0128B, which was issued for Source ID 107.

(2) Reflects the removal of one (1) Crawford crematory from Source ID 101.

(3) Reflects revisions to 40 C.F.R. Part 63, Subpart ZZZZ, as it pertains to the Kohler Emergency Generator (Source ID 700).

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