



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

**STATE ONLY SYNTHETIC MINOR OPERATING PERMIT**

Issue Date: November 9, 2022

Effective Date: November 9, 2022

Expiration Date: November 8, 2027

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to 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: 09-00068**

Synthetic Minor

Federal Tax Id - Plant Code: 22-2161228-1

**Owner Information**

Name: ORCHARD HILL MEM PARK LLC  
Mailing Address: 80 KELLY RD  
QUAKERTOWN, PA 18951-4224

**Plant Information**

Plant: ORCHARD HILL MEM PARK LLC / QUAKERTOWN  
Location: 09 Bucks County 09940 Richland Township  
SIC Code: 0752 Agriculture - Animal Specialty Services

**Responsible Official**

Name: KELLY CLINTON  
Title: COO  
Phone: (519) 546 - 8637 Email: kclinton@gatewayservicesinc.com

**Permit Contact Person**

Name: CHARLIE M PEDRICK  
Title: DIR - FAC & MAINT  
Phone: (321) 427 - 2339 Email: cpedrick@gatewayservicesinc.com

[Signature] \_\_\_\_\_  
JAMES D. REBARCHAK, 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 I.
- #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
- #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 Reporting
- #024 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

- E-I: Restrictions



## **SECTION A. Table of Contents**

- 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)**

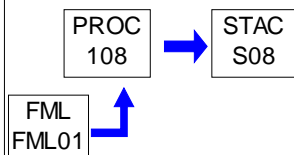
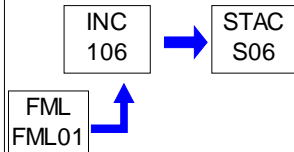
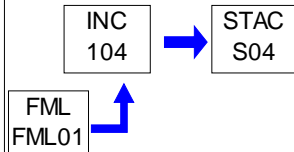
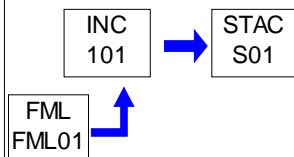
- F-I: Restrictions
- F-II: Testing Requirements
- F-III: Monitoring Requirements
- F-IV: Recordkeeping Requirements
- F-V: Reporting Requirements
- F-VI: Work Practice Standards
- F-VII: Additional Requirements

### **Section G. Emission Restriction Summary**

### **Section H. Miscellaneous**

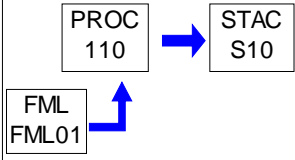
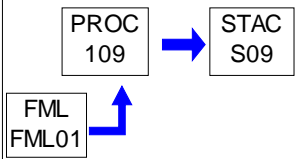
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	IEE ANIMAL CREMATORIUM "A"	1.863 MCF/HR	Natural Gas
		100.000 Lbs/HR	ANIMAL CARCASSES
104	THERM-TEC ANIMAL CREMATORIUM "D"	455.000 Lbs/HR	ANIMAL CARCASSES
		7.892 MCF/HR	Natural Gas
106	THERM-TEC ANIMAL CREMATORIUM "H"	150.000 Lbs/HR	ANIMAL CARCASSES
		3.686 MCF/HR	Natural Gas
108	SIX-CELL ANIMAL CREMATORIUM "I"	300.000 Lbs/HR	ANIMAL CARCASSES
		11.373 MCF/HR	Natural Gas
109	SIX-CELL ANIMAL CREMATORIUM "J"	300.000 Lbs/HR	ANIMAL CARCASSES
		11.370 MCF/HR	Natural Gas
110	SIX-CELL ANIMAL CREMATORIUM "K"	300.000 Lbs/HR	ANIMAL CARCASSES
		11.370 MCF/HR	Natural Gas
FML01	NATURAL GAS PIPELINE		
S01	IEE ANIMAL CREMATORIUM "A" STACK		
S04	THERM-TEC ANIMAL CREMATORIUM "D" STACK		
S06	STACK THERM-TEC ANIMAL CREMATORIUM "H"		
S08	SIX-CELL ANIMAL CREMATORIUM "I" STACK		
S09	SIX-CELL ANIMAL CREMATORIUM "J" STACK		
S10	SIX-CELL ANIMAL CREMATORIUM "K" 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 I.**

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

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

**#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]****Transfer of Operating Permits.**

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

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

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

**#008 [25 Pa. Code § 127.441]****Need to Halt or Reduce Activity Not a Defense.**

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

**#009 [25 Pa. Code §§ 127.442(a) & 127.461]****Duty to Provide Information.**

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

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

**#010 [25 Pa. Code § 127.461]****Revising an Operating Permit for Cause.**

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

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

**#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]****Operating Permit Modifications**

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



**SECTION B. General State Only Requirements**

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

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

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

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

**#012 [25 Pa. Code § 127.441]****Severability Clause.**

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

**#013 [25 Pa. Code § 127.449]****De Minimis Emission Increases.**

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

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

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

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

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

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

(2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> 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 PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> 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:

**SECTION B. General State Only Requirements**

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
  - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
  - (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
  - (4) Space heaters which heat by direct heat transfer.
  - (5) Laboratory equipment used exclusively for chemical or physical analysis.
  - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
  - (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
  - (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

**#014 [25 Pa. Code § 127.3]****Operational Flexibility.**

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

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

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

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

**#015 [25 Pa. Code § 127.11]****Reactivation**

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

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

**#016 [25 Pa. Code § 127.36]****Health Risk-based Emission Standards and Operating Practice Requirements.**

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

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

**#017 [25 Pa. Code § 121.9]****Circumvention.**

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

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

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

(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

**SECTION B. General State Only Requirements**

records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

**#019 [25 Pa. Code §§ 127.441(c) & 135.5]****Sampling, Testing and Monitoring Procedures.**

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

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

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

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

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

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

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

**#021 [25 Pa. Code § 127.441(a)]****Property Rights.**

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

**#022 [25 Pa. Code § 127.447]****Alternative Operating Scenarios.**

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

**SECTION B. General State Only Requirements****#023 [25 Pa. Code §135.3]****Reporting**

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

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

**#024 [25 Pa. Code §135.4]****Report Format**

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

**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 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;
- (g) N/A;
- (h) N/A; and,
- (i) 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 air contaminant emissions from the sources, after appropriate controls, meet the following requirements:
  - (1) The emissions are of minor significance with respect to causing air pollution.
  - (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) (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 §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.1 and 127.443]

The permittee shall ensure that emission into the outdoor atmosphere of visible air contaminants from any of the crematoriums at this facility occurs in such a manner that the opacity of the emission is neither of the following:

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

**SECTION C. Site Level Requirements**

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

**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 123.42]

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

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

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

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

The permittee shall ensure that emission into the outdoor atmosphere of nitrogen oxides (NOx) from this facility occurs in such a manner that the rate of the emission does not exceed 17.0 tons/yr, calculated monthly as a twelve (12)-month rolling sum.

**# 008 [25 Pa. Code §129.14]****Open burning operations**

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

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

**II. TESTING REQUIREMENTS.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to

**SECTION C. Site Level Requirements**

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.****# 010 [25 Pa. Code §123.43]****Measuring techniques**

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

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

**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

(a) Except as specified under Section D (Source Level Requirements) of this operating permit, the permittee shall monitor the facility, once per operating day, for the following:

- (1) Odors which may be objectionable (as per 25 Pa. Code §123.31);
- (2) Visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
- (3) Fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

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

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

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

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

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

**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the total NOx emissions from this facility on a monthly and twelve (12)-month rolling basis, using a Department-approved method(s).

**IV. RECORDKEEPING REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall maintain records of all monitoring of odors and visible and fugitive air contaminant emissions, including deviations from the conditions found in Section C, of this permit. All records of deviations shall contain, at a minimum, the following items for each incident:



**SECTION C. Site Level Requirements**

- (1) A description of the deviation.
- (2) The source(s) and/or associated air pollution control device(s) and location(s).
- (3) The starting and ending date(s) and times.
- (4) The cause(s).
- (5) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.  
(Note: If visible air contaminant emissions are observed for any of the crematoriums at this facility after the corrective action(s), the permittee shall not start another cremation cycle for the affected crematorium(s) until the permittee demonstrates compliance with the emission restrictions specified in Condition # 005, Section C, of this permit.)

(b) The monitoring shall be recorded and maintained in a Department-approved format and time frame.

**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

**# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of the total NO<sub>x</sub> emissions from this facility on a monthly and twelve (12)-month rolling basis, calculated using a Department-approved method(s).

**V. REPORTING REQUIREMENTS.****# 017 [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;

**SECTION C. Site Level Requirements**

- (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.

**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. 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 C.F.R. 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) that meets the requirements of Section 112(r) of the Clean Air Act, 40 C.F.R. Part 68, and the Federal Chemical Safety Information, Site Security, and Fuels Regulatory Relief Act when a regulated substance listed in 40 C.F.R. § 68.130 is present in a process in more than the threshold quantity at this facility. The permittee shall submit the RMP to the EPA 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 (3) years after the date on which a regulated substance is first listed in 40 C.F.R. § 68.130.
  - (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 C.F.R. § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 C.F.R. 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 C.F.R. § 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 C.F.R. Part 68, as part of the certification required under this permit, the permittee shall perform the following:

**SECTION C. Site Level Requirements**

(1) Submit a compliance schedule for satisfying the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. § 68.10(a).

(2) Certify that the facility is in compliance with all requirements of 40 C.F.R. Part 68 including the registration and submission of the RMP.

(e) If the facility is subject to 40 C.F.R. Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for 5 years in accordance with 40 C.F.R. § 68.200.

(f) When the facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 C.F.R. 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 C.F.R. Part 68.

**# 019 [25 Pa. Code §135.3]****Reporting**

(a) The permittee shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from each previously-reported source(s), a new source(s) which was first operated during the preceding calendar year, and each source(s) modified during the same period that was not previously reported, including any source(s) listed in Section G, 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.

**VI. WORK PRACTICE REQUIREMENTS.****# 020 [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 pollution control device(s), if necessary, to reduce the air contaminant emissions to within applicable restrictions, if at any time the operation of a source(s) listed in this permit, is causing the emission of air contaminants in excess of the restrictions specified in this permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Article III.

**# 021 [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.

**# 022 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

**# 023 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in Condition #002, above, 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; and

(d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported

**SECTION C. Site Level Requirements**

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: IEE ANIMAL CREMATORIUM "A"

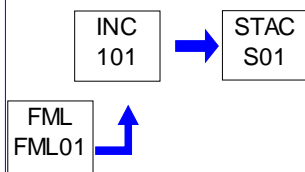
Source Capacity/Throughput:

1.863 MCF/HR

Natural Gas

100.000 Lbs/HR

ANIMAL CARCASSES

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall ensure that emission into the outdoor atmosphere of the following pollutants from this crematorium do not exceed the following rates:

Pollutant(s)	Lbs/hr	Tons/yr
CO	0.25	0.64
NOx	1.5	3.6
SOx	0.45	0.99
VOC	0.1	0.2

Tons/yr = Tons per twelve (12)-month rolling period, calculated monthly.  
CO = Carbon monoxide.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.1 and 127.443]

The permittee shall ensure that emission into the outdoor atmosphere of PM from this crematorium occurs in such a manner that the concentration of PM in the exhaust gas does not exceed 0.08 grains per dry standard cubic foot (gr/dscf), corrected to 7% oxygen (O<sub>2</sub>).

**# 003 [25 Pa. Code §123.21]****General**

The permittee shall ensure that emission into the outdoor atmosphere of sulfur oxides (SO<sub>x</sub>) from this crematorium occurs in such a manner that the concentration of SO<sub>x</sub>, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust gas does not exceed 500 ppmv, dry basis.

**Fuel Restriction(s).****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall ensure that natural gas is the only fuel consumed by this crematorium.

**SECTION D. Source Level Requirements****Operation Hours Restriction(s).****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall ensure that the total operating time of this crematorium does not exceed 5,110 hours in any consecutive twelve (12)-month period.

**Throughput Restriction(s).****# 006 [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 in this crematorium does not exceed 100 lbs/hr.

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

The permittee shall monitor the following operating parameters for this crematorium:

- (a) The time that the crematorium is turned on (i.e., preheat), on an operating day basis.
- (b) The weight of the charge (pounds) before each cremation cycle.
- (c) The starting and ending times of each cremation cycle.
- (d) The duration (hours) of each cremation cycle.
- (e) The primary and secondary combustion chamber exhaust gas temperatures, on a continuous basis.
- (f) The incineration rate (lbs/hr) (i.e., (b), above, divided by (d), above) of each cremation cycle.
- (g) The time that the crematorium is turned off (i.e., shutdown), on an operating day basis.
- (h) The number of cremations performed on a monthly basis.
- (i) The hours of operation, on a monthly basis.
- (j) The amount of natural gas consumed on a monthly basis.

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

The permittee shall monitor the following emissions from this crematorium on a monthly and twelve (12)-month rolling basis, calculated using Department-approved methods:

- (a) The CO emissions (pounds and tons).
- (b) The NOx emissions (pounds and tons).
- (c) The SOx emissions (pounds and tons).
- (d) The VOC emissions (pounds and tons).

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

The permittee shall monitor each 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.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of all operator training performed for this crematorium, as follows:

- (a) The training program content, as specified in this operating permit.
- (b) All operator training certifications.

**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of all maintenance (i.e., routine and/or preventative maintenance, repairs, adjustments, parts replacements, calibrations, etc.) performed for this crematorium. These records shall contain, at a minimum, the following:

- (a) The date of the maintenance.
- (b) The type of maintenance performed.

**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

- (a) The CO emissions (pounds and tons).
- (b) The NOx emissions (pounds and tons).
- (c) The SOx emissions (pounds and tons).
- (d) The VOC emissions (pounds and tons).

**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

(a) The permittee shall maintain records of visible and odor emission observations and any corrective actions taken. (Note: If visible air contaminant emissions are observed for any of the crematoriums at this facility after corrective action(s) have been taken, the permittee shall not start another cremation cycle for the affected crematorium(s) until the permittee demonstrates compliance with the emission restrictions specified in Condition # 005, of Section C, of this permit.)

(b) The permittee shall maintain records of the following operating parameters for this crematorium:

- (1) The time that the crematorium is turned on, on an operating day basis.
- (2) The weight of the charge (pounds) before each cremation cycle.
- (3) The starting and ending times of each cremation cycle.
- (4) The duration (hours) of each cremation cycle.
- (5) The primary and secondary combustion chamber exhaust gas temperatures, on a continuous basis.
- (6) The incineration rate (lbs/hr) of each cremation cycle.
- (7) The time that the crematorium is turned off, on an operating day basis.
- (8) The number of cremations performed on a monthly and twelve (12)-month rolling basis.
- (9) The hours of operation, on a monthly and twelve (12)-month rolling basis.
- (10) The amount of natural gas consumed on a monthly and twelve (12)-month rolling basis.

**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall maintain and make available upon request by the Department a copy of the manufacturers' specifications for this crematorium and any associated air pollution control devices.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the manufacturer's representative or another qualified training source provides adequate instruction to each new operator of this crematorium, including hands-on control of the crematorium, for at least two operating cycles. The training program shall include all of the following:

- (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) Preventative maintenance practices and procedures and recommended frequency.
- (h) Recordkeeping requirements and procedures.

**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall ensure that the firing of the burners in, and the combustion air supplied to, the secondary combustion chamber of this crematorium are automatically modulated to maintain the minimum exhaust gas temperature of 1800 °F.

**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall operate the secondary burner of this crematorium for such periods of time prior to the charging of waste, and at the end of each cremation cycle, sufficient to prevent the emission of any air contaminant in excess of the restrictions specified in this permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Article III.

**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that this crematorium is attended by a trained operator at all times whenever the crematorium is operating.

**# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall operate and maintain a temperature recording device for this crematorium meeting the following specifications:

- (a) Range: Zero to 2400 °F.



**SECTION D. Source Level Requirements**

- (b) Data Recorder Value Resolution: Equal to or better than 13 °F.
- (c) Data Recorder Time Resolution: Equal to or better than one minute.
- (d) Number of Cycles per Minute, Measure and Record: 60, minimum.

**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall ensure that none of the following are burned in this crematorium:

- (a) Municipal or industrial waste.
- (b) Infectious waste, including animal carcasses that were exposed to zoonotic infectious agents or nonzoonotic human pathogens.
- (c) Hazardous waste.
- (d) Radioactive waste.

**# 021 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.1 and 127.443]

The permittee shall maintain the following operating parameters for the secondary combustion chamber of this crematorium during loading of the crematorium and for the duration of the cremation cycle until the cremation cycle is complete:

- (a) Exhaust gas temperature equal to or greater than 1800 °F.
- (b) Gas residence time equal to or greater than 1.0 seconds.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.31(a)(1)]

**# 022 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall ensure that this crematorium is equipped with an interlock system that precludes opening of the charge door except for under the following conditions:

- (a) The secondary combustion chamber is achieving and maintaining an exhaust gas temperature equal to or greater than 1800 °F (before charging the crematory).
- (b) The cremation cycle is complete (after charging the crematory).

**# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.443 and 127.444]

- (a) The permittee shall operate and maintain this crematorium, as well as the associated air pollution control devices and continuous temperature monitors, in accordance with the manufacturers' specifications and good air pollution control practices. Sensors shall be located such that flames from the burners do not impinge on the sensors.
- (b) The permittee shall ensure that the manufacturer's representative or another qualified technician adjusts the burners of the crematorium when visible air contaminant emissions are observed, if necessary to abate the situation and prevent future occurrences.



**SECTION D. Source Level Requirements**

**VII. ADDITIONAL REQUIREMENTS.**

**# 024 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

This source consists of a two-combustion chamber animal crematorium, model no./type IE-43 Power Pak II, manufactured by Industrial Equipment & Engineering Co. The crematorium is rated at 100 lbs/hr charging capacity (animal carcasses) and is equipped with two natural gas-fired burners, as follows:

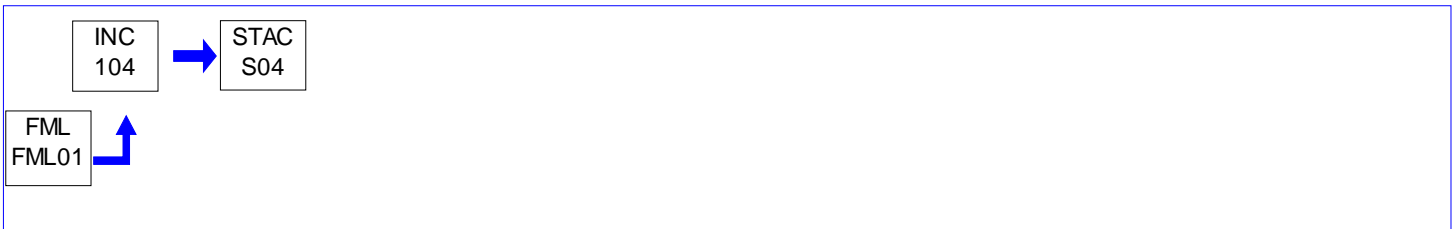
Burner Location	Rated Heat Input
Primary Combustion Chamber	0.7 MMBtu/hr
Secondary Combustion Chamber	1.2 MMBtu/hr
	-----
	1.9 MMBtu/hr

**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: THERM-TEC ANIMAL CREMATORIUM "D"

Source Capacity/Throughput:	455.000 Lbs/HR	ANIMAL CARCASSES
	7.892 MCF/HR	Natural Gas

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall ensure that emission into the outdoor atmosphere of NO<sub>x</sub> from this crematorium occurs in such a manner that the rate of the emission does not exceed either 1.8 lbs/hr or 2.5 tons/yr, calculated monthly as a twelve (12)-month rolling sum.

# 002 [25 Pa. Code §123.21]

**General**

The permittee shall ensure that emission into the outdoor atmosphere of SO<sub>x</sub> from this crematorium occurs in such a manner that the concentration of SO<sub>x</sub>, expressed as SO<sub>2</sub>, in the exhaust gas does not exceed 500 ppmv, dry basis.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.1 and 127.443]

The permittee shall ensure that emission into the outdoor atmosphere of PM from this crematorium occurs in such a manner that the concentration of PM in the exhaust gas does not exceed 0.08 gr/dscf, corrected to 7% O<sub>2</sub>.

**Fuel Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

The permittee shall ensure that natural gas is the only fuel consumed by this crematorium.

**Operation Hours Restriction(s).**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall ensure that the total operating time of this crematorium does not exceed 2,860 hours in any consecutive twelve (12)-month period.

**Throughput Restriction(s).**

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall ensure that the incineration rate of each cremation cycle in this crematorium does not exceed 455 lbs/hr.

(b) The permittee shall ensure that no animal carcasses whose weight exceeds 500 pounds are burned in this crematorium.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the NOx emissions from this crematorium on a monthly and twelve (12)-month rolling basis, using a Department-approved method(s).

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

The permittee shall monitor each 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 permittee shall monitor the following operating parameters for this crematorium:

- (a) The time that the crematorium is turned on, on an operating day basis.
- (b) The weight of the charge (pounds) before each cremation cycle.
- (c) The starting and ending times of each cremation cycle.
- (d) The duration (hours) of each cremation cycle.
- (e) The primary and secondary combustion chamber exhaust gas temperatures, on a continuous basis.
- (f) The incineration rate (lbs/hr) of each cremation cycle.
- (g) The time that the crematorium is turned off, on an operating day basis.
- (h) The number of cremations performed on a monthly basis.
- (i) The hours of operation, on a monthly basis.
- (j) The amount of natural gas consumed on a monthly basis.

**IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall maintain records of all operator training performed for this crematorium, as follows:

- (a) The training program content, as specified in this operating permit.
- (b) All operator training certifications.

**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall maintain records of all maintenance performed for this crematorium. These records shall contain, at a minimum, the following:

- (a) The date of the maintenance.
- (b) The type of maintenance performed.

**SECTION D. Source Level Requirements****# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of the NOx emissions from this crematorium on a monthly and twelve (12)-month rolling basis, calculated using a Department-approved method(s).

**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

(a) The permittee shall maintain records of visible and odor emission observations and any corrective actions taken. (Note: If visible air contaminant emissions are observed for any of the crematoriums at this facility after corrective action(s) have been taken, the permittee shall not start another cremation cycle for the affected crematorium(s) until the permittee demonstrates compliance with the emission restrictions specified in Condition # 005, of Section C, of this permit.)

(b) The permittee shall maintain records of the following operating parameters for this crematorium:

- (1) The time that the crematorium is turned on, on an operating day basis.
- (2) The weight of the charge (pounds) before each cremation cycle.
- (3) The starting and ending times of each cremation cycle.
- (4) The duration (hours) of each cremation cycle.
- (5) The primary and secondary combustion chamber exhaust gas temperatures, on a continuous basis.
- (6) The incineration rate (lbs/hr) of each cremation cycle.
- (7) The time that the crematorium is turned off, on an operating day basis.
- (8) The number of cremations performed on a monthly and twelve (12)-month rolling basis.
- (9) The hours of operation, on a monthly and twelve (12)-month rolling basis.
- (10) The amount of natural gas consumed on a monthly and twelve (12)-month rolling basis.

**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall maintain and make available upon request by the Department a copy of the manufacturers' specifications for this crematorium and any associated air pollution control 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).

**VI. WORK PRACTICE REQUIREMENTS.****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the firing of the burners in, and the combustion air supplied to, the secondary combustion chamber of this crematorium are automatically modulated to maintain the minimum exhaust gas temperature of 1800 °F.

**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate the secondary burner of this crematorium for such periods of time prior to the charging of waste, and at the end of each cremation cycle, sufficient to prevent the emission of any air contaminant in excess of the restrictions specified in this permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Article III.

**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

**SECTION D. Source Level Requirements**

The permittee shall ensure that the manufacturer's representative or another qualified training source provides adequate instruction to each new operator of this crematorium, including hands-on control of the crematorium, for at least two operating cycles. The training program shall include all of the following:

- (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) Regulatory requirements.
- (f) Calibration, adjustment, and replacement of thermocouples.
- (g) Preventative maintenance practices and procedures and recommended frequency.
- (h) Recordkeeping requirements and procedures.

**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall ensure that this crematorium is attended by a trained operator at all times whenever the crematorium is operating.

**# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall ensure that none of the following are burned in this crematorium:

- (a) Municipal or industrial waste.
- (b) Hospital waste.
- (c) Medical or infectious waste, including animal carcasses that were exposed to zoonotic infectious agents or nonzoonotic human pathogens.
- (d) Chemotherapeutic waste.
- (e) Hazardous waste.
- (f) Radioactive waste.
- (g) Carcasses of animals used for commercial or medical experimentation purposes.

**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.1 and 127.443]

The permittee shall maintain the following operating parameters for the secondary combustion chamber of this crematorium during loading of the crematorium and for the duration of the cremation cycle until the cremation cycle is complete:

- (a) Exhaust gas temperature equal to or greater than 1800 °F.
- (b) Gas residence time equal to or greater than 1.0 seconds.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.31(a)(1)]



**SECTION D. Source Level Requirements**

**# 021 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

The permittee shall ensure that this crematorium is equipped with an interlock system that precludes opening of the charge door except for under the following conditions:

- (a) The secondary combustion chamber is achieving and maintaining an exhaust gas temperature equal to or greater than 1800 °F (before charging the crematory).
- (b) The cremation cycle is complete (after charging the crematory).

**# 022 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.443 and 127.444]

- (a) The permittee shall operate and maintain this crematorium, as well as the associated air pollution control devices and continuous temperature monitors, in accordance with the manufacturers' specifications and good air pollution control practices. Sensors shall be located such that flames from the burners do not impinge on the sensors.
- (b) The permittee shall ensure that the manufacturer's representative or another qualified technician adjusts the burners of the crematorium when visible air contaminant emissions are observed, if necessary to abate the situation and prevent future occurrences.

**VII. ADDITIONAL REQUIREMENTS.**

**# 023 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

- (a) This source consists of a two-combustion chamber animal crematorium, model no. G-50-P, manufactured by Therm-Tec, Inc.
- (b) The crematorium is rated at 455 lbs/hr charging capacity (animal carcasses) and is equipped with two natural gas-fired burners, as follows:

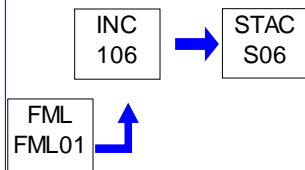
Burner Location	Rated Heat Input
Primary Combustion Chamber	One Burner, 3.65 MMBtu/hr
Secondary Combustion Chamber	Two (2) Secondary Burners, 2.2 MMBtu/hr, each
	-----
	8.05 MMBtu/hr

**SECTION D. Source Level Requirements**

Source ID: 106

Source Name: THERM-TEC ANIMAL CREMATORIUM "H"

Source Capacity/Throughput:	150.000 Lbs/HR	ANIMAL CARCASSES
	3.686 MCF/HR	Natural Gas

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

# 001 [25 Pa. Code §123.21]

**General**

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

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Nitrogen oxide (NOx) emissions from this source shall not exceed 0.58 tons per year, calculated on a 12-month rolling basis.

# 003 [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.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Visible emissions from this source 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).**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

**Operation Hours Restriction(s).**

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

This source shall limit hours of operation to 2,496 hours per year, calculated on a 12-month rolling basis.

**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.**

# 007 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**



**SECTION D. Source Level Requirements**

- (a) The permittee shall 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.
- (c) The primary chamber and secondary chamber temperature readings shall both be monitored continuously.

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

- (a) 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.
- (b) If any visible or odor emissions are apparent, the permittee shall take immediate action to eliminate them.
- (c) As an alternative to the observing visible emissions, if the crematory is equipped with an opacity monitoring device, the operator shall observe the output from the opacity monitoring device for the presence of visible emissions per each cremation cycle.

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

The permittee shall monitor the NO<sub>x</sub> emissions from this crematorium on a monthly and twelve (12)-month rolling basis, using a Department-approved method(s).

**IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall continuously record the temperature at the exit from the primary combustion chamber and at the exit from the secondary chamber of this source.

**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall record the following from this source on a monthly basis:
- (1) The number of cremations performed.
  - (2) Amount of hours operated.
  - (3) The amount of fuel consumed.

(b) The amount of hours operated shall be recorded monthly and as a 12-month rolling sum.

**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of the following for this source:

- (a) Operator training certifications and training program content.
- (b) Burner adjustments and maintenance.
- (c) Thermocouple calibrations, adjustments and replacements.
- (d) The removal from the body and proper disposal of any implanted electronic devices and potentially hazardous remedial devices.

**SECTION D. Source Level Requirements****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall record stack observations for visible and odor emissions for each cremation cycle. If the crematory is equipped with an opacity monitoring device, the operator shall document the output from the opacity monitoring device for the visible emissions.

(b) If any visible or odor emissions are noted, the permittee shall document the cause of the emissions and actions taken to eliminate them.

**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall calculate and record the NOx emissions from this crematorium on a monthly and twelve (12)-month rolling basis, using a Department-approved method(s).

**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.****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This source shall have an interlock system that precludes charging of the primary chamber until the secondary chamber exit temperature is established and holding at 1800 °F and after charging, precludes opening the charge door until the cremation cycle is complete.

**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The crematory shall be:

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

(b) Observed by a trained operator for visible emissions and odors, according to the requirements herein this operating permit. Observations of visible emissions and odors 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 visible and odor emission limitations. 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. 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.

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

(d) If any visible or odor emissions are apparent after corrective actions have been taken, the crematory shall not start another cremation cycle until the permittee can verify compliance with the visible emission limitations through methods prescribed in 25 Pa. Code § 123.43, such as Method 9 readings taken by a certified visible emissions reader.

**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee 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. Documentation certifying compliance with this requirement shall be maintained for each cremation.

**SECTION D. Source Level Requirements**

(b) The permittee shall only cremate animal remains, and the container used to transport the remains, in this crematory unit. The permittee may not incinerate any other type of waste (e.g. hospital, medical, hazardous, chemotherapeutic, radioactive, etc.).

(c) The permittee is prohibited from using the crematory to dispose of any animals used for commercial or medical experimentation purposes.

(d) Burner adjustments and tune-ups shall be performed by the manufacturer's representative or another qualified technician at the appropriate times such as when visible emissions are observed.

**# 018 [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 crematory, including hands-on control of the unit for at least two operating cycles. The training shall include all 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.

**# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.1 and 127.443]

The permittee shall maintain the following operating parameters for the secondary combustion chamber of this crematorium during loading of the crematorium and for the duration of the cremation cycle until the cremation cycle is complete:

- (a) Exhaust gas temperature equal to or greater than 1800 °F.
- (b) Gas residence time equal to or greater than 1.0 seconds.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.31(a)(1)]

**VII. ADDITIONAL REQUIREMENTS.****# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The following are specifications for this unit:

Manufacturer:	Therm Tec, Inc.
Model No.:	SQC-300-P
Rated Capacity:	650 lbs (max)

**SECTION D. Source Level Requirements**

Cremation Rate:	150 lbs/hr
Fuel Combusted:	Natural Gas
Primary Burner:	One (1) burner, 1.36 MMBtu/hr, each
Secondary Burner:	Two (2) burners, 1.20 MMBtu/hr, each

**SECTION D. Source Level Requirements**

Source ID: 108

Source Name: SIX-CELL ANIMAL CREMATORIUM "I"

Source Capacity/Throughput:	300.000 Lbs/HR	ANIMAL CARCASSES
	11.373 MCF/HR	Natural Gas

Conditions for this source occur in the following groups: SIX-CELL CONDITIONS

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

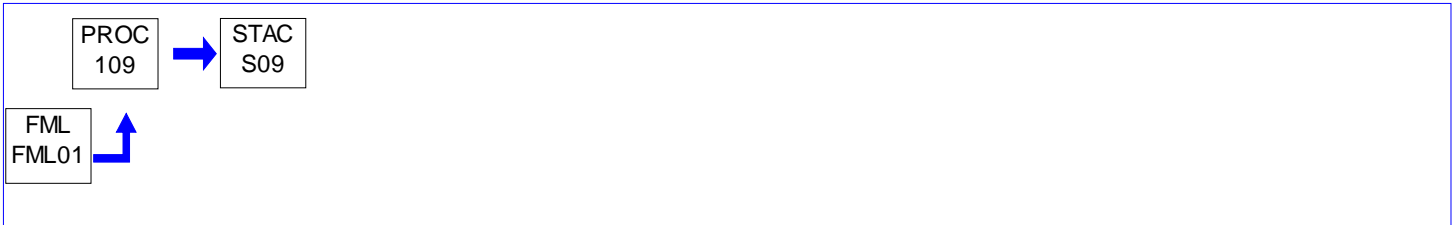
**SECTION D. Source Level Requirements**

Source ID: 109

Source Name: SIX-CELL ANIMAL CREMATORIUM "J"

Source Capacity/Throughput:	300.000 Lbs/HR	ANIMAL CARCASSES
	11.370 MCF/HR	Natural Gas

Conditions for this source occur in the following groups: SIX-CELL CONDITIONS

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: SIX-CELL ANIMAL CREMATORIUM "K"

Source Capacity/Throughput:	300.000 Lbs/HR	ANIMAL CARCASSES
	11.370 MCF/HR	Natural Gas

Conditions for this source occur in the following groups: SIX-CELL CONDITIONS

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**SECTION E. Source Group Restrictions.**

Group Name: SIX-CELL CONDITIONS

Group Description: Six-Cell Conditions

Sources included in this group

ID	Name
108	SIX-CELL ANIMAL CREMATORIUM "I"
109	SIX-CELL ANIMAL CREMATORIUM "J"
110	SIX-CELL ANIMAL CREMATORIUM "K"

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

# 001 [25 Pa. Code §123.21]

**General**Sulfur oxide (SO<sub>x</sub>) emissions from the Six-Cell Animal Crematoriums shall not exceed 500 parts per million, by volume, dry basis

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**Nitrogen oxide (NO<sub>x</sub>) emissions from each Six-Cell Animal Crematorium shall be limited to 3.43 tons per year, calculated on a 12-month rolling basis.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The emissions of filterable particulate matter (PM) from each Six-Cell Animal Crematorium shall not exceed 0.08 gr/dscf, corrected to 7% oxygen.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Visible emissions from each Six-Cell Animal Crematorium 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).**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The Six-Cell Animal Crematoriums shall only burn natural gas as fuel, unless prior approval is received from the Department.

**Operation Hours Restriction(s).**

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Each Six-Cell Animal Crematorium shall limit hours of operation to 4,800 hours per year, calculated on a 12-month rolling basis.

**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.**

# 007 [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 each primary combustion chamber. The primary chamber temperature readings shall be monitored at a frequency of every



**SECTION E. Source Group Restrictions.**

five (5) minutes, or more frequently.

(b) The permittee shall install, maintain, and operate temperature monitors to continuously measure the temperature of the combined exhausts from the primary chambers prior to the secondary chamber, and also at the exit from the secondary chamber.

(c) Temperature sensors shall be located such that flames from the burners do not impinge on the sensors.

(d) 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.

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

(a) The permittee shall observe the exhaust stack of each Six-Cell Animal Crematorium at least once during each cremation cycle for the presence of visible and odor emissions.

(b) If any visible or odor emissions are apparent, the permittee shall take immediate action to eliminate them.

(c) As an alternative to the observing visible emissions, if the crematory is equipped with an opacity monitoring device, the operator shall observe the output from the opacity monitoring device for the presence of visible emissions per each cremation cycle.

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

The permittee shall monitor the NO<sub>x</sub> emissions from each Six-Cell Animal Crematorium on a monthly and twelve (12)-month rolling basis, using a Department-approved method(s).

**IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall record the temperature at the exit from each primary combustion chamber. The primary chamber temperature readings shall be recorded at a frequency of every five (5) minutes, or more frequently.

(b) The permittee shall continuously record the temperature of the combined exhausts from the primary chambers prior to the secondary chamber, and also at the exit from the secondary chamber.

**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall record stack observations for visible and odor emissions for each cremation cycle. If the crematory is equipped with an opacity monitoring device, the operator shall document the output from the opacity monitoring device for the visible emissions.

(b) If any visible or odor emissions are noted, the permittee shall document the cause of the emissions and actions taken to eliminate them.

**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall record the following from each Six-Cell Animal Crematorium on a monthly basis:

- (1) The number of cremations performed.
- (2) Amount of hours operated.
- (3) The amount of fuel consumed.

(b) The amount of hours operated shall be recorded monthly and as a 12-month rolling sum.

**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of the following for each Six-Cell Animal Crematorium:

**SECTION E. Source Group Restrictions.**

- (a) Operator training certifications and training program content.
- (b) Burner adjustments and maintenance.
- (c) Thermocouple calibrations, adjustments and replacements.
- (d) The removal from the body and proper disposal of any implanted electronic devices and potentially hazardous remedial devices.

**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall calculate and record the NOx emissions from each Six-Cell Animal Crematorium on a monthly and twelve (12)-month rolling basis, using a Department-approved method(s).

**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.****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Six-Cell Animal Crematoriums shall have an interlock system that precludes charging of the primary chamber until the secondary chamber exit temperature is established and holding at 1800 °F and after charging, precludes opening the charge door until the cremation cycle is complete.

**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Each Six-Cell Animal Crematorium shall be:

- (a) Attended by a trained operator at all times when the unit is in operation.
- (b) Observed by a trained operator for visible emissions and odors, according to the requirements herein this operating permit. Observations of visible emissions and odors 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 visible and odor emission limitations. 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. 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.
- (c) If nighttime operation of the crematory is to occur, adequate artificial lighting of the plume at the stack outlet must be provided to enable these observations of stack emissions to occur at night.
- (d) If any visible or odor emissions are apparent after corrective actions have been taken, the crematory shall not start another cremation cycle until the permittee can verify compliance with the visible emission limitations through methods prescribed in 25 Pa. Code § 123.43, such as Method 9 readings taken by a certified visible emissions reader.

**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee 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. Documentation certifying compliance with this requirement shall be maintained for each cremation.
- (b) The permittee shall only cremate animal remains, and the container used to transport the remains, in this crematory unit. The permittee may not incinerate any other type of waste (e.g. hospital, medical, hazardous, chemotherapeutic,

**SECTION E. Source Group Restrictions.**

radioactive, etc.).

(c) The permittee is prohibited from using the crematory to dispose of any animals used for commercial or medical experimentation purposes.

(d) Burner adjustments and tune-ups shall be performed by the manufacturer's representative or another qualified technician at the appropriate times such as when visible emissions are observed.

**# 018 [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 Six-Cell Animal Crematoriums, including hands-on control of the unit for at least two operating cycles. The training shall include all 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.

**# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.1 and 127.443]

The permittee shall maintain the following operating parameters for the secondary combustion chamber of each Six-Cell Animal Crematorium during loading of the crematorium and for the duration of the cremation cycle until the cremation cycle is complete:

- (a) Exhaust gas temperature equal to or greater than 1800 °F.
- (b) Gas residence time equal to or greater than 1.0 seconds.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.31(a)(1)]

**VII. ADDITIONAL REQUIREMENTS.****# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The following are specifications for each Six-Cell Animal Crematorium:

Manufacturer:	Therm Tec, Inc.
Model No.:	S-18-P6-1
Rated Capacity:	150 lbs (per cell)
Cremation Rate:	50 lbs/hr (per cell)
Fuel Combusted:	Natural Gas
Primary Burner:	One (1) burner, 1.20 MMBtu/hr (per cell)
Secondary Burner:	Two (2) burners, 2.20 MMBtu/hr each



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
101	IEE ANIMAL CREMATORIUM "A"		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.250	Lbs/Hr	Calculated Monthly	CO
0.640	Tons/Yr	12-Month Rolling Sum, Calculated Monthly	CO
1.500	Lbs/Hr	Calculated Monthly	NOX
3.600	Tons/Yr	12-Month Rolling Sum, Calculated Monthly	NOX
0.450	Lbs/Hr	Calculated Monthly	SOX
0.990	Tons/Yr	12-Month Rolling Sum, Calculated Monthly	SOX
500.000	PPMV	Dry Basis	SOX
0.080	gr/DRY FT3	Corrected to 7% O2	TSP
0.100	Lbs/Hr	Calculated Monthly	VOC
0.200	Tons/Yr	12-Month Rolling Sum, Calculated Monthly	VOC
104	THERM-TEC ANIMAL CREMATORIUM "D"		
<b>Emission Limit</b>		<b>Pollutant</b>	
1.800	Lbs/Hr		NOX
2.500	Tons/Yr	12-Month Rolling Sum, Calculated Monthly	NOX
500.000	PPMV	Dry Basis	SOX
0.080	gr/DRY FT3	Corrected to 7% O2	TSP
106	THERM-TEC ANIMAL CREMATORIUM "H"		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.580	Tons/Yr	Calculated on a 12-month rolling basis	NOX
500.000	PPMV	Determined on a dry volume basis	SOX
0.080	gr/DRY FT3	Corrected to 7% oxygen	TSP
108	SIX-CELL ANIMAL CREMATORIUM "I"		
<b>Emission Limit</b>		<b>Pollutant</b>	
3.430	Tons/Yr	Calculated on a 12-month rolling basis	NOX
500.000	PPMV	Determined on a dry volume basis	SOX
0.080	gr/DRY FT3	Corrected to 7% oxygen	TSP
109	SIX-CELL ANIMAL CREMATORIUM "J"		
<b>Emission Limit</b>		<b>Pollutant</b>	
3.430	Tons/Yr	Calculated on a 12-month rolling basis	NOX
500.000	PPMV	Determined on a dry volume basis	SOX
0.080	gr/DRY FT3	Corrected to 7% oxygen	TSP
110	SIX-CELL ANIMAL CREMATORIUM "K"		
<b>Emission Limit</b>		<b>Pollutant</b>	
3.430	Tons/Yr	Calculated on a 12-month rolling basis	NOX
500.000	PPMV	Determined on a dry volume basis	SOX
0.080	gr/DRY FT3	Corrected to 7% oxygen	TSP



**SECTION G. Emission Restriction Summary.**

**Site Emission Restriction Summary**

Emission Limit		Pollutant
17.000 Tons/Yr	12-Month Rolling Sum, Calculated Monthly	NOX

**SECTION H. Miscellaneous.**

(a) The following previously-issued documents serve as the basis for certain terms and conditions set forth in this operating permit (APS ID 496821, Auth ID 519922):

- (1) Plan Approval No. PA-09-0068A.
- (2) General Plan Approval and General Operating Permit (BAQ-GPA/GP-14) No. 09-301-124GP.

(b) The following sources have been determined by the Department to be insignificant sources of air emissions and, therefore, do not require additional restrictions, monitoring, or recordkeeping. They are still subject to any applicable federal, state, and local regulations, including those indicated in Section C, of this permit:

- (1) A HVAC unit.
- (2) A 2,000-gal horizontal, propane aboveground storage tank associated with (b)(1), above.

(c) This operating permit (APS ID: 496821; AUTH ID: 832651) has been renewed for another 5-year term.

(d) This operating permit (APS ID: 496821; AUTH ID: 1134862) has been renewed for another 5-year term. Per this operating permit, The Crawford Animal Crematorium (#2) (Source ID 102) has been decommissioned, and has been removed from the operating permit.

(e) This operating permit (APS ID: 496821; AUTH ID: 1239974) has been amended to incorporate the following General Permits into the facility's Synthetic Minor Operating Permit: GP14 09 0136 (Source ID 106) and GP14-09-0144 (Source IDs 108, 109, and 110). Per this amendment, the Crawford Animal Crematorium (C) (Source ID 103) was removed. Therefore, this source has been removed from the operating permit.

(f) This operating permit (APS ID: 496821; AUTH ID: 1395196) has been renewed for another 5-year term..



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

---