



DEPARTMENT ORDER

**Lynch Veterinary Services, P.A. d.b.a.  
Southern Maine Veterinary Care  
York County  
Lyman, Maine  
A-777-71-E-R**

**Departmental  
Findings of Fact and Order  
Air Emission License  
Renewal**

**FINDINGS OF FACT**

After review of the air emission license application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 Maine Revised Statutes (M.R.S.) § 344 and § 590, the Department of Environmental Protection (the Department) finds the following facts:

**I. REGISTRATION**

A. Introduction

Lynch Veterinary Services, P.A. d.b.a. Southern Maine Veterinary Care (Southern Maine Veterinary Care) has applied to renew their Air Emission License permitting the operation of a Class IV-A veterinary incinerator to dispose of animal remains.

The equipment addressed in this license is located at 1445 Alfred Rd, Lyman, Maine.

B. Licensed Equipment

The incinerator is a Crawford Model C500P with the following specifications:

<b>Class Incinerator</b>	IV-A
<b>No. of Chambers</b>	2
<b>Type of Waste</b>	Type 4
<b>Max. Design Charging Rate (lb per charge)</b>	200
<b>Max. Design Combustion Rate (lb/hr)</b>	75
<b>Auxiliary Fuel Input:</b>	Liquefied petroleum gas (LPG)
<b>Primary Chamber (MMBtu/hr)</b>	0.5
<b>Secondary Chamber (MMBtu/hr)</b>	1.0
<b>Emission Control</b>	Afterburner (secondary chamber)

The incinerator combustion gases vent to a 15-foot above-ground-level (AGL) stack.

C. Application Classification

All rules, regulations, or statutes referenced in this air emission license refer to the amended version in effect as of the issued date of this license.

Southern Maine Veterinary Care does not include the licensing of increased emissions or the installation of new or modified equipment. Therefore, the license is considered to be a renewal of currently licensed emission units only and has been processed through *Major and Minor Source Air Emission License Regulations*, 06-096 Code of Maine Rules (C.M.R.) ch. 115.

D. Facility Classification

The facility is licensed as follows:

- As a natural minor source of air emissions, because no license restrictions are necessary to keep facility emissions below major source thresholds for criteria pollutants; and
- As an area source of hazardous air pollutants (HAP), because the licensed emissions are below the major source thresholds for HAP.

II. **BEST PRACTICAL TREATMENT**

A. Introduction

In order to receive a license, the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in 06-096 C.M.R. ch. 100.

BPT for existing equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emissions from the source being considered; and
- the economic feasibility for the type of establishment involved.

B. Veterinary Incinerator

BPT for the Class IV-A veterinary incinerator includes the following:

1. Emission Limits

- a. The Veterinary Incinerator shall not exceed a particulate emission rate of 0.12 gr/dscf corrected to 12% CO<sub>2</sub> from the auxiliary fuel fired in the Veterinary Incinerator. [06-096 C.M.R. 104 § 2(B)]

- b. Emissions information is based on the burning of LPG as an auxiliary fuel, and the use of AP-42 factors from Tables 2.3-1 and 2.3-2 for biomedical waste incineration (dated 7/93) and Table 1.5-1 for firing LPG (dated 07/08):

<b>Pollutant</b>	<b>Biomedical Waste</b>	
	<b>Incineration</b>	<b>Firing of LPG</b>
PM/PM <sub>10</sub> /PM <sub>2.5</sub>	– 4.67 lb/ton	0.7 lb/1,000 gal
SO <sub>2</sub>	– 2.17 lb/ton	0.018 lb/1,000 gal
NO <sub>x</sub>	– 3.56 lb/ton	13 lb/1,000 gal
CO	– 2.95 lb/ton	7.5 lb/1,000 gal
VOC	– 0.299 lb/ton	1.0 lb/1,000 gal
Visible Emissions	– 06-096 C.M.R. ch. 115, BPT	

- c. BPT emission limits for the Veterinary Incinerator are the following:

	<b>PM (lb/hr)</b>	<b>PM<sub>10</sub> (lb/hr)</b>	<b>PM<sub>2.5</sub> (lb/hr)</b>	<b>SO<sub>2</sub> (lb/hr)</b>	<b>NO<sub>x</sub> (lb/hr)</b>	<b>CO (lb/hr)</b>	<b>VOC (lb/hr)</b>
Veterinary Incinerator	0.36	0.36	0.36	0.08	0.35	0.23	0.03

- d. Visible emissions from the Veterinary Incinerator shall not exceed 10% opacity based on a six-minute block average basis.

**2. Operating Parameters**

- a. Operating temperature in the secondary chamber or refractory-lined stack shall be maintained at or above 1,600 °F with a stack gas retention time of at least 0.5 seconds.
- b. To ensure an efficient burn and to prevent odors and minimize visible emissions, the secondary chamber shall be preheated, as specified by the manufacturer, until the pyrometer temperature measures a minimum of 1,600 °F prior igniting the primary chamber burner.
- c. Once the burn cycle has commenced by introduction of primary chamber combustion, the incinerator shall be operated in an efficient manner and as specified by the manufacturer for the period of time between preheat and reaching the set operational temperature to be a minimum of 1,600 °F in the secondary chamber.
- d. Southern Maine Veterinary Care shall have available on site a copy of the manufacturer’s operating instructions.
- e. The temperature in the secondary chamber or refractory-lined stack shall be maintained at or above 1,600 °F for the duration of the burn cycle.

- f. A pyrometer and ¼-inch test port shall be installed and maintained at the location of the incinerator or refractory-lined stack which provides sufficient volume to ensure a flue gas retention time of not less than 0.5 seconds at the minimum of 1,600 °F.
- g. A log shall be maintained detailing and quantifying the hours of operation on a daily basis for the Class IV-A Veterinary Incinerator. The log shall record the weight of each charge to the incinerator, preheat temperature, preheating time, charging time, and afterburner temperature directly after charging and every 60 minutes after startup until and including final shutdown time. For facilities operating a chart recorder, the start time, date, and weight charged may be logged on the chart. The operation log shall be kept on-site at the incinerator location.
- h. A log shall be maintained detailing the maintenance of emission control equipment. Records of the date of each inspection and any corrective action required will be included in the maintenance log. The maintenance log shall be kept on-site at the incinerator location.
- i. The ash shall be disposed of in accordance with the requirements of the Department's Bureau of Remediation and Waste Management.
- j. The incinerator operator(s) shall receive adequate training to operate the incinerator in accordance with the manufacturer's specifications and shall be familiar with the terms of the Air Emission License.

C. Annual Emissions

The table below provides an estimate of facility-wide annual emissions for the purposes of calculating the facility's annual air license fee and establishing the facility's potential to emit (PTE). Only licensed equipment is included, i.e., emissions from insignificant activities are excluded. Similarly, unquantifiable fugitive particulate matter emissions are not included except when required by state or federal regulations. Maximum potential emissions were calculated based on operating the Veterinary Incinerator for 8,760 hr/yr.

This information does not represent a comprehensive list of license restrictions or permissions. That information is provided in the Order section of this license.

**Total Licensed Annual Emissions for the Facility**  
**Tons/year**  
(used to calculate the annual license fee)

	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>VOC</b>
Veterinary Incinerator	1.6	1.6	1.6	0.4	1.5	1.0	0.1
<b>Total TPY</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>0.4</b>	<b>1.5</b>	<b>1.0</b>	<b>0.1</b>

### III. AMBIENT AIR QUALITY ANALYSIS

The level of ambient air quality impact modeling required for a minor source is determined by the Department on a case-by case basis. In accordance with 06-096 C.M.R. ch. 115, an ambient air quality impact analysis is not required for a minor source if the total licensed annual emissions of any pollutant released do not exceed the following levels and there are no extenuating circumstances:

<b>Pollutant</b>	<b>Tons/Year</b>
PM <sub>10</sub>	25
PM <sub>2.5</sub>	15
SO <sub>2</sub>	50
NO <sub>x</sub>	50
CO	250

The total licensed annual emissions for the facility are below the emission levels contained in the table above and there are no extenuating circumstances; therefore, an ambient air quality impact analysis is not required as part of this license.

This determination is based on information provided by the applicant regarding licensed emission units. If the Department determines that any parameter (e.g., stack size, configuration, flow rate, emission rates, nearby structures, etc.) deviates from what was included in the application, the Department may require Southern Maine Veterinary Care to submit additional information and may require an ambient air quality impact analysis at that time.

## ORDER

Based on the above Findings and subject to conditions listed below the Department concludes that the emissions from this above source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards, and
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-777-71-E-R subject to the following conditions.

Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

### STANDARD CONDITIONS

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (38 M.R.S. § 347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to beginning actual construction of a modification, unless specifically provided for in Chapter 115. [06-096 C.M.R. ch. 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [06-096 C.M.R. ch. 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [06-096 C.M.R. ch. 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S. § 353-A. [06-096 C.M.R. ch. 115]

- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [06-096 C.M.R. ch. 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [06-096 C.M.R. ch. 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [06-096 C.M.R. ch. 115]
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [06-096 C.M.R. ch. 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [06-096 C.M.R. ch. 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 C.F.R. Part 60 or other method approved or required by the Department, the licensee shall:
  - A. Perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
    1. Within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
    2. Pursuant to any other requirement of this license to perform stack testing.
  - B. Install or make provisions to install test ports that meet the criteria of 40 C.F.R. Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
  - C. Submit a written report to the Department within thirty (30) days from date of test completion. [06-096 C.M.R. ch. 115]

- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- A. Within thirty (30) days following receipt of the written test report by the Department, or another alternative timeframe approved by the Department, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 C.F.R. Part 60 or other method approved or required by the Department; and
  - B. The days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
  - C. The licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.  
[06-096 C.M.R. ch. 115]
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or license requirement. [06-096 C.M.R. ch. 115]
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emissions and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [06-096 C.M.R. ch. 115]
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.  
[06-096 C.M.R. ch. 115]



- (16) The licensee shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard (38 M.R.S. § 605). [06-096 C.M.R. ch. 115]

**SPECIFIC CONDITIONS**

- (17) Veterinary Incinerator
- A. The incinerator shall be used for the disposal of type 4 (veterinary) waste and shall not be used for the disposal of plastics, cytotoxic (antineoplastic) drugs, or any radioactive wastes and shall not be used to dispose of any medical waste classified as type 7 waste, as defined in 06-096 C.M.R. ch. 100. However, the incidental use of plastics used in wrapping animal carcasses for handling and storage purposes is allowed. [06-096 C.M.R. ch. 115, BPT]
  - B. The incinerator shall not exceed the maximum design charge rate of 200 lbs per charge. Auxiliary fuel input to the primary and secondary chamber shall be LPG. [06-096 C.M.R. ch. 115, BPT]
  - C. Southern Maine Veterinary Care shall maintain a log detailing and quantifying the hours of operation on a daily basis for the Class IV-A Veterinary Incinerator. The log shall record the weight of each charge to the incinerator, the preheat temperature, preheating time, charging time, and afterburner temperature directly after charging and every 60 minutes after startup until and including final shutdown time. For facilities operating a chart recorder, the start time, date, and weight charged may be logged on the chart. The operation log shall be kept on-site at the incinerator location. [06-096 C.M.R. ch. 115, BPT]
  - D. Southern Maine Veterinary Care shall maintain a log detailing the maintenance of emission control equipment. Records of the date of each inspection and any corrective action required will be included in the maintenance log. The maintenance log shall be kept on-site at the incinerator location. [06-096 C.M.R. ch. 115, BPT]
  - E. The secondary chamber shall be preheated as specified by the manufacturer to a minimum of 1,600 °F prior to igniting the primary chamber burner and shall be maintained at a minimum of 1,600 °F during the duration of the burn. [06-096 C.M.R. ch. 115, BPT]
  - F. Once the burn cycle has commenced by introduction of primary chamber combustion, the incinerator shall be operated in an efficient manner and as specified by the manufacturer for the period of time between preheat and reaching the set operational temperature to be a minimum of 1,600 °F in the secondary chamber. [06-096 C.M.R. ch. 115, BPT]

- G. Southern Maine Veterinary Care shall have available on site a copy of the manufacturer's operating instructions. [06-096 C.M.R. ch. 115, BPT]
- H. A pyrometer and 1/4-inch test port shall be operated and maintained at that location of the incinerator or refractory-lined stack which provides sufficient volume to ensure a flue gas retention time of not less than 0.5 seconds at the minimum of 1,600 °F. [06-096 C.M.R. ch. 115, BPT]
- I. The Veterinary Incinerator shall not exceed a particulate matter emission limit of 0.12 gr/dscf corrected to 12% CO<sub>2</sub> from auxiliary fuel combustion.

Emissions shall be limited to the following [06-096 C.M.R. ch. 115, BPT]:

Pollutant	gr/dscf	lb/hr
PM	0.12	0.36
PM <sub>10</sub>	n/a	0.36
PM <sub>2.5</sub>	n/a	0.36
SO <sub>2</sub>	n/a	0.08
NO <sub>x</sub>	n/a	0.35
CO	n/a	0.23
VOC	n/a	0.03

- J. Visible emissions from the incinerator shall not exceed 10% opacity on a six-minute block average basis. [06-096 C.M.R. ch. 115, BPT]
- K. The ash shall be disposed of in accordance with the requirements of the Department's Bureau of Remediation and Waste Management. [06-096 C.M.R. ch. 115, BPT]
- L. The incinerator operator(s) shall receive adequate training to operate the incinerator in accordance with the manufacturer's specifications, and shall be familiar with the terms of this Air Emission License as it pertains to the operation of the incinerator. [06-096 C.M.R. ch. 115, BPT]
- M. Although not required at this time, the installation and operation of continuous chart recording devices may become necessary to document compliance with the temperature requirements of this license. Should the Bureau of Air Quality determine that continuous recording devices are necessary, the licensee shall, within 120 days, demonstrate that continuous recorders have been installed and are operational. [06-096 C.M.R. ch. 115, BPT]

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- (18) If the Department determines that any parameter value pertaining to construction and operation of the emissions units, including but not limited to stack size, configuration, flow rate, emission rates, nearby structures, etc., deviates from what was submitted in the application or ambient air quality impact analysis for this air emission license, Southern Maine Veterinary Care may be required to submit additional information. Upon written request from the Department, Southern Maine Veterinary Care shall provide information necessary to demonstrate AAQS will not be exceeded, potentially including submission of an ambient air quality impact analysis or an application to amend this air emission license to resolve any deficiencies and ensure compliance with AAQS. Submission of this information is due within 60 days of the Department's written request unless otherwise stated in the Department's letter.  
[06-096 C.M.R. ch. 115, § 2(O)]

DONE AND DATED IN AUGUSTA, MAINE THIS 25<sup>th</sup> DAY OF APRIL, 2024.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:  for  
MELANIE LOYZIM, COMMISSIONER

**The term of this license shall be ten (10) years from the signature date above.**

[Note: If a complete renewal application, as determined by the Department, is submitted prior to expiration of this license, then pursuant to Title 5 M.R.S. § 10002, all terms and conditions of the license shall remain in effect until the Department takes final action on the renewal of the license.]

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: March 6, 2024

Date of application acceptance: March 6, 2024

Date filed with the Board of Environmental Protection:

This Order prepared by Kendra Nash, Bureau of Air Quality.

