

Machriste, Inc., dba Southerland Family Funeral Homes
Northside Facility
Facility ID No.: 0050073
Bay County

Air Construction Permit
Permit No.: 0050073-001-AC

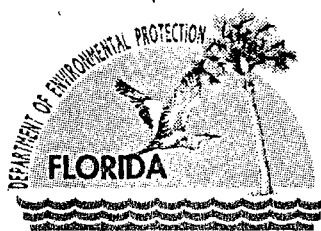
Permitting and Compliance Authority:
Department of Environmental Protection
Northwest District Office
160 Governmental Center
Pensacola, FL 32501-5794
Telephone: 850/595-8364, press 7
Fax: 850/595-8096

[electronic file name: 0050073c.doc]

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Table of Contents

<u>Section</u>	<u>Page Number</u>
Placard Page	1
I. Facility Information	2
A. Facility Description.	
B. Summary of Emissions Unit ID No. and Brief Description.	
C. Relevant Documents.	
II. Facility-wide Conditions	3
III. Emissions Unit and Conditions	
A. Human Crematory Incinerator	5
Appendices	
Appendix G-1, General Conditions	



Jeb Bush
Governor

Department of Environmental Protection

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794

David B. Struhs
Secretary

Permittee:
Machriste, Inc.
Dba Southerland Family Funeral Homes

Permit No.: 0050073-001-AC
Facility ID No.: 0050073
SIC Nos.: 80
Project: Air Construction Permit

This permit is for the construction of a human crematory at the Northside Facility of the Southerland Family Funeral Homes located at 100 E. 19th Street, Panama City, Bay County; UTM Coordinates: Zone 16, 628.98 km East and 3339.60 km North; Latitude: 30° 10' 58" North and Longitude: 85° 39' 37" West.

STATEMENT OF BASIS: This air construction permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4 and 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:
Appendix G-1, General Conditions

Effective Date: August 26, 1999

Expiration Date: August 26, 2004

**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

Ed K. Middleswart, P.E.
Air Program Administrator

EKM/om

Section I. Facility Information.

Subsection A. Facility Description.

The facility provides funeral services to the general public. This air construction permit is being issued to authorize the installation and initial testing of a B & L Cremation Systems, Inc., N-20 Series human crematory incinerator.

Based on the permit application received July 19, 1999, this facility is not a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID No. and Brief Description.

E.U.

ID No. Brief Description

001 Human Crematory Incinerator

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s) on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are on file with permitting authority:

Permit Application received July 19, 1999

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX G-1, GENERAL CONDITIONS, is a part of this permit.
2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]
3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]
4. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, F.A.C.]
5. The applicant shall retain a Professional Engineer, registered in the State of Florida, for the inspection of this project. Upon completion the engineer shall inspect for conformity to the permit application and associated documents. An application for an operation permit shall be submitted with the compliance test results and appropriate fee when applicable. These are to be submitted within 45 days after initial operation.
[Rules 62-210.300(2) and 62-4.050(3), F.A.C.]
6. The permittee shall submit all compliance related notifications and reports required by this permit to the Department's Northwest District office.

Department of Environmental Protection
Northwest District Office
160 Governmental Center
Pensacola, Florida 32501-5794

A copy of all compliance related notifications shall be sent to the Northwest District Branch Office in Panama City at 2353 Jenks Ave, Panama City, FL 32405.

7. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (850) 595-8364, extension 1220, day or night, and for emergencies involving a significant threat to human health or the environment is (800) 320-0519. For routine business, telephone (850) 595-8364, then press 7, during normal working hours.
[Rules 62-210.700 and 62-4.130, F.A.C.]

8. The Department shall be notified and prior approval shall be obtained of any changes or revisions made during construction. Projects beyond one year require annual status reports.
[Rule 62-4.030, F.A.C.]

Section III. Emissions Unit and Conditions.

Subsection A. This section addresses the following emissions unit.

E.U.

<u>ID No.</u>	<u>Brief Description</u>
001	Human Crematory Incinerator

This is a B & L Cremation Systems, Inc., N-20 series crematory incinerator. The incinerator is designed to burn human remains at an average rate of 150 pounds per hour. The incinerator consists of primary and secondary (afterburner) chambers and is fueled exclusively with natural gas with a total design heat input rate of 1.3 MMBtu/hour. Emissions are controlled by the afterburner. The secondary chamber is designed to insure one-second residence time at a gas temperature of 1800 degrees F and is equipped with a continuous temperature monitor and recorder. The operation of this incinerator is regulated by Rule 62-296.401(5), F.A.C.

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Capacity. The maximum allowable operating rate is 150 pounds burned per hour.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

A.2. Methods of Operation. The incinerator shall be fueled with natural gas or LP only.
[Rules 62-4.160(2) and 62-213.440(1), F.A.C.]

A.3. The actual operating temperature of the secondary chamber combustion zone shall be no less than 1600 degrees Fahrenheit throughout the combustion process in the primary chamber. Cremation in the primary chamber shall not begin unless the secondary chamber combustion zone temperature is equal to or greater than 1600 degrees Fahrenheit.
[Rule 62-296.401(5)(c), F.A.C.]

A.4. Human crematories shall cremate only dead human bodies with appropriate containers. The bodies may be clothed. The containers may contain no more than 0.5 percent by weight chlorinated plastics as demonstrated by the manufacturer's data sheet. If containers are incinerated, documentation from the manufacturers certifying that they are composed of 0.5 percent or less by weight chlorinated plastics must be kept on-file at the site for the duration of their use and for at least two years after their use. This documentation must also be submitted with any application for an initial or renewal air operation permit or air general permit notification form. No other material, including biomedical waste as defined in Rule 62-210.200, F.A.C., shall be incinerated.
[Rule 62-296.401(5)(e), F.A.C.]

A.5. Hours of Operation. This emissions unit is allowed to operate for a maximum of 3,120 hours/year.
[Rule 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

A.6. No visible emission (5 percent opacity) except that visible emissions not exceeding 20 percent opacity are allowed for up to three minutes in any one-hour period.
[Rule 62-296.401(1)(a), F.A.C.]

A.7. No objectionable odor is allowed.
[Rule 62-296.401(1)(b), F.A.C.]

A.8. Particulate matter emissions shall not exceed 0.080 grains per dry standard cubic foot of flue gas, corrected to 7% O₂.
[Rule 62-296.401(5)(a), F.A.C.]

A.9. Carbon monoxide (CO) emissions shall not exceed 100 parts per million by volume, dry basis, corrected to 7% O₂ on an hourly average basis.
[Rule 62-296.401(5)(b), F.A.C.]

Test Methods and Procedures

A.10.a. Emissions tests are required to show compliance with the standards of the Department. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. The following tests shall be scheduled within thirty days after initial operation. The Department shall be notified at least fifteen days prior to testing to allow witnessing.

<u>Pollutant</u>	<u>Test Method</u>
O ₂	EPA Method 3
PM	EPA Method 5
VE	EPA Method 9
CO	EPA Method 10

Facilities may demonstrate compliance with the CO and PM standards by submission of a test report for an identical (same make, model, and capacity) crematory unit operating in compliance with a valid Department air permit and tested pursuant to that permit. The test data in the test report must be less than five years old and may or may not be obtained from the unit that is being permitted. (Note: if this method of compliance is chosen, it would satisfy the above listed test methods 3, 5 and 10. Test method 9 is still required.)
[Rules 62-4.070, 62-296.401(5)(g)-(j), 62-297.310(7), and 62-297.401(9), F.A.C.]

A.10.b. The test reports shall comply with applicable portions of Rule 62-297.310, F.A.C., Test Reports. The Department can require special compliance tests in accordance with Rule 62-297.310(7) F.A.C. Other test methods and alternate compliance procedures may be used only after prior Departmental approval has been obtained in writing.
[Rules 62-297.310(7) and 62-297.620(1), F.A.C.]

A.10.c. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of rated capacity. If it is impractical to test at capacity, then sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the Department.
[Rules 62-297.310(2) and 62-4.070, F.A.C.]

Continuous Monitoring Requirements

A.11. The permittee shall install, operate and maintain continuous monitors to record temperature at the point or beyond where 1.0-second gas residence time is obtained in the secondary chamber combustion zone in accordance with the manufacturer's instructions. Continuous temperature monitoring documentation shall include operator name, operator indication of when cremation in the primary chamber begins, date, time, and temperature markings. The file shall be retained for at least two years following the recording of such measurements, maintenance, reports and records.
[Rule 62-296.401(5)(k), F.A.C.]

Training Requirements

A.12. The equipment manufacturer's representatives or another qualified organization shall train all crematory operators. Only operators trained by a Department-approved training program shall be allowed to operate a human crematory. (Further details on training course content requirements are found at Rule 62-296.401(5)(f)1, F.A.C.)

A copy of the training certificate for each operator having satisfactorily completed the Department-approved training program must be submitted to the Department within 15 days of training. The owner of any new or modified crematory unit shall submit copies of the operator training certificates within 15 days after completion of the initial compliance test pursuant to this air construction permit. If a crematory unit is modified to the extent that a Department air construction permit is required, the operators shall be retrained to operate the modified unit.
[Rule 62-296.401(5)(f), F.A.C.]

Recordkeeping and Reporting Requirements

A.13. A complete file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; and adjustments, preventive maintenance, and corrective maintenance performed on these systems or devices, shall be recorded in a permanent legible form available for inspection. Continuous temperature monitoring documentation shall include operator name, operator indication of when cremation in the primary chamber begins, date, time, and temperature markings. The file shall be retained for at least two years following the recording of such measurements, maintenance, reports and records.

[Rule 62-296.401(5)(k), F.A.C.]

A.14. An operator's certificate must be kept on file at the facility for the duration of the operator's employment and for an additional two years after termination of employment.

[Rule 62-296.401(5)(f), F.A.C.]

Administrative

A.15. The applicant shall retain a Professional Engineer, registered in the State of Florida, for the inspection of this project. Upon completion, the engineer shall inspect for conformity to the permit application and associated documents. The permittee may submit either an application for an operation permit in accordance with Rule 62-210.300(2), F.A.C., or a Notification to operate under the terms of an air general permit per Rule 62-210.300(4)(a)8. (Note: see also Rule 62-4.530 and 62-4.540.) Either shall be submitted with the compliance test results and appropriate fee. These are to be submitted with-in sixty (60) days of the initial compliance tests.

[Rule 62-210.300, F.A.C.]

Permit No.: 0050073-001-AC

Appendix G-1

GENERAL CONDITIONS:

Page 1 of 2

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "permit conditions", and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of this permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and,
 - c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent

Permit No.: 0050073-001-AC

Appendix G-1

GENERAL CONDITIONS:

Page 2 of 2

recurrence of the noncompliance. The permittee shall be responsible for any and all damages, which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the Department approves the transfer.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurement;
- the person responsible for performing the sampling or measurement;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.