City of Lynn Haven
Air Curtain Incinerator
Facility ID No.: 0050070
Bay County

Air Construction Permit
Permit No.: 0050070-001-AC

DEP Northwest District:
160 Governmental Center
Pensacola, FL 32501-5794
Telephone: 850/595-8364
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Drafted on December 5, 1997

[electronic file name: 0050070c.doc]

Air Construction Permit
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Permittee:
City of Lynn Haven

Permit No.: 0050070-001-AC
Facility ID No.: 0050070
SIC Nos.: 4953
Project: Air Construction Permit

This permit is for the construction of the Air Curtain Incinerator located at Lynn Haven C & D Disposal Facility, on a marked private access road, 1 mile west of SR 77 and 3 miles south of State Road 20, north of Lynn Haven, Bay County; UTM Coordinates: Zone 16, 623.18 km East and 3362.24 km North; Latitude: 30° 23'15" North and Longitude: 85° 42' 18" 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, 62-210, and 62-213. 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: January 5, 1998
Corrected: January 29, 1998
Renewal Application Due Date: n/a
Expiration Date: January 5, 2003

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

/s/

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

EKM/as

Section I. Facility Information.

Subsection A. Facility Description.

This facility consists of an air curtain incinerator at a C&D landfill. The incinerator is a Pactherm Model 2030 refractory-lined pit burner equipped with an under-fire air system, air curtain destructor, updraft retention chamber and a stainless steel filter screen house. This unit will be used to dispose of wood waste and yard waste collected by the City.

Also included in this permit are miscellaneous unregulated/exempt emissions units and/or activities such as general site and device maintenance.

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

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

E.U. ID No.	Brief Description
-001	Air Curtain 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 November 21, 1997

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. General Pollutant Emission Limiting Standards. Unconfined Emissions of Particulate Matter No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:
[Rule 62-296.320(4)(c)2., F.A.C.]

a. Paving where practicable and maintenance of roads, parking areas and yards.
b. Application of water or chemicals to control emissions from such activities as vehicular movement and ash handling.
c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
d. Removal where practicable of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
e. Care in handling ash and protecting ash containers from the action of the wind.

5. 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.]

6. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northwest District office.

7. 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.]

8. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (850) 595-8364, 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 during normal working hours.
[Rules 62-210.700 and 62-4.130, F.A.C.]

Section III. Emissions Unit(s) and Conditions.

Subsection A. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
-001	Air Curtain Incinerator

The incinerator is a Pactherm Model 2030 refractory-lined pit burner equipped with an under-fire air system, air curtain destructor, updraft retention chamber and a stainless steel filter screen house. This unit will be used to dispose of wood waste and yard waste collected by the City.

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

Essential Potential to Emit (PTE) Parameters

A.1. Capacity. The operating rate at which compliance with standards shall be demonstrated is 6.25 Tons perhour as defined in the construction permit application. The applicant paid $1,000 for an AC-1E permit, which allows particulate emissions up to 25 Tons per year which is equiivalent to processing 25,000 Tons of material.
[Rules 62-4.160(2), 62-210.200(PTE), and 62-296.401(7)(I) F.A.C.]

A.2. Methods of Operation

A.2.a. The only materials that can be burned in an air curtain incinerator are wood wastes consisting of trees, logs, large brush, stumps relatively free of soil, unbagged leaves and yard trash, tree surgeon debris, and clean dry lumber such as pallets.
[Rule 62-296.401(7)(e), F.A.C.]

A.2.b. The burning of sawdust, paper, trash, tires, garbage, plastics, liquid wastes, chemically treated or painted wood, and other similar materials is expressly prohibited.
[Rule 62-296.401(7)(f), F.A.C.]

A.2.c. Only virgin oil, natural gas, or liquefied petroleum gas may be used to start the fire. The use of waste oil, chemicals, gasoline, or tires is expressly prohibited.
[Rule 62-296.401(7)(g), F.A.C.]

A.2.d. In no case shall the air curtain incinerator be started before sunrise, and charging must have completely stopped before sunset.
[Rule 62-296.401(7)(h), F.A.C.]

A.2.e. Air curtain incinerators used at landfills may not be operated within one thousand (1000) feet of any active portion of the landfill unless the air curtain incinerator is separated from the active portion of the landfill by a controlled gate or check-in station. Permittee shall construct, maintain and properly operate such a controlled gate or check-in station as part of this project.
[Rule 62-296.401(7)(k), F.A.C.]

A.2.f. The material shall not be loaded into the air curtain incinerator such that it will protrude above the air curtain.
[Rule 62-296.401(7)(l), F.A.C.]

A.2.g. Ash shall not be allowed to build up in the pit to higher than 1/3 the pit depth or to the point where the ash begins to impede combustion, whichever occurs first. Pit depth is the height of the air curtain from the incinerator floor.
[Rule 62-296.401(7)(m), F.A.C.]

A.3. Hours of Operation. The hours of operation for this emissions unit shall not exceed "2080" hours/year (request in application).
[Rule 62-4.160(2) and Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

A.4. Outside of startup periods, no visible emissions (5 percent opacity or less) shall be allowed, except that an opacity of up to 20 percent shall be permitted for not more than three minutes in any one hour.
[Rule 62-296.401(7)(a), F.A.C.]

A.5. During startup periods, which shall not exceed the first 30 minutes of operation, an opacity of up to 35 percent, averaged over a six-minute period, shall be allowed.
[Rule 62-296.401(7)(b), F.A.C.]

A.6. The general excess emissions rule, Rule 62-210.700, F.A.C., to handle startups, shutdowns, and malfunctions, shall not apply to air curtain incinerators.
[Rule 62-296.401(7)(c), F.A.C.]

Test Methods and Procedures

A.7.a. Visible 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 visible emissions tests shall be conducted in accordance with DEP Method 9 for one hour. Such tests shall be scheduled within 45 days after initial operation, and annually thereafter. The Department shall be notified at least 15 days prior to testing to allow witnessing. Results shall be submitted to the Department within 45 days after testing.
[Rules 62-4.070, 62-297.310(7), and 62-297.401(9), F.A.C.]

A.7.b. The test reports shall comply with applicable portions of F.A.C. Rule 62-297.310, Test Reports. The Department can require special compliance tests in accordance with F.A.C. Rule 62-297.310(7). 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.7.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.]

Training Requirements

A.8. A copy of this permit and a detailed operation and maintenance guide must be made available on-site to the operators at all times. The Permittee must provide proper training in the operation and maintenance of the air curtain incinerator and permit requirements to all operators before allowing them to work at the air curtain incinerator. A draft copy of the guide shall be provided to the Department within 90 days of issuance of this permit for approval.
[Rule 62-296.401(7)(n) , F.A.C.]

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF INTENT TO ISSUE PERMIT
I.D. Number 0050070-001-AC

The Department of Environmental Protection gives notice of its intent to issue a permit to the City of Lynn Haven to construct an Air Curtain Incinerator located at Lynn Haven C & D Disposal Facility, on a marked private access road, 1 mile west of SR 77 and 3 miles south of State Road 20, north of Lynn Haven

The air curtain incinerator will be a refractory-lined pit where wood wastes such as limbs, leaves and yard trash will be burned for volume reduction. The ash will be disposed of in the existing C&D Disposal Facility. Particulate emissions and smoke will be controlled by air stream blowing across the top of the pit. The incinerator is estimated to emit 6 tons of particulate matter per year.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except for legal holidays, at the Northwest District, 160 Governmental Center, Pensacola, Florida.

MEMORANDUM

TO : Ed K. Middleswart, P.E.
COPY TO: : Carolyn Salmon, Richard Spaulding
FROM : Andy Allen, Armando Sarasua
DATE : 5/10/2012
SUBJECT : Evaluation Summary for City of Lynn Haven, Air Curtain Incinerator 0050070-001-AC, Bay County

We recommend issuing a construction permit to City of Lynn Haven to construct an air curtain incinerator at their existing C & D disposal facility.

Process Description The air curtain incinerator will be a refractory-lined pit where wood wastes such as limbs, leaves and yard trash will be burned for disposal. A fan and header will direct a curtain of air across the top of the pit.

Pollution Control Equipment Particulate emissions and smoke will be controlled by air stream blowing across the top of the pit resulting in complete combustion.

Environmental Impact The incinerator is estimated to emit 6 tons of particulate matter per year.

Applicable Rules & Regulations This source is regulated in accordance with FAC Rule 62-296.401(7)(a) through (o) Air Curtain Incinerators.

Compliance Monitoring Visible emissions test. Two operators have successfully comleted smoke school in the November class in Milton. Great effort is being directed toward a quality facility.

Compliance History The air curtain incinerator will be a new operation at a C & D disposal facility which is currently permitted by Solid Waste Program permit # S003-265297, expiring March 1, 2000. No problems noted in file.

Site Summary The site was inspected by richard Spaulding. the site is uplands and no fill is required for construction. The area around the site is owned by Stone Container.

as:asc

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 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 transfer is approved by the Department.

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.